TENDER DOCUMENT

FOR

Distribution Network for Amba Division of Right Main Canal (RMC), Bihar Portion under North Koel Reservoir Project, Jharkhand and Bihar

Estimated Cost (Rs. 64.12 Crores)

TENDER NO: WAP/NK/RMC/DIST/AMBA/2025

TENDER DRAWINGS

Issued to M/s

WAPCOS

(भारत सरकार का उपक्रम–जल शक्ति मंत्रालय)

(A Government of India Undertaking-Ministry of Jal Shakti)

NORTH KOEL RESERVOIR PROJECT

FEBRUARY 2025

Completion of Balance Works of North Koel Reservoir Project

DRAWING REPORT – BASDIHA DY.
(OFFTAKING FROM RIGHT MAIN CANAL AT 51.72 KM)







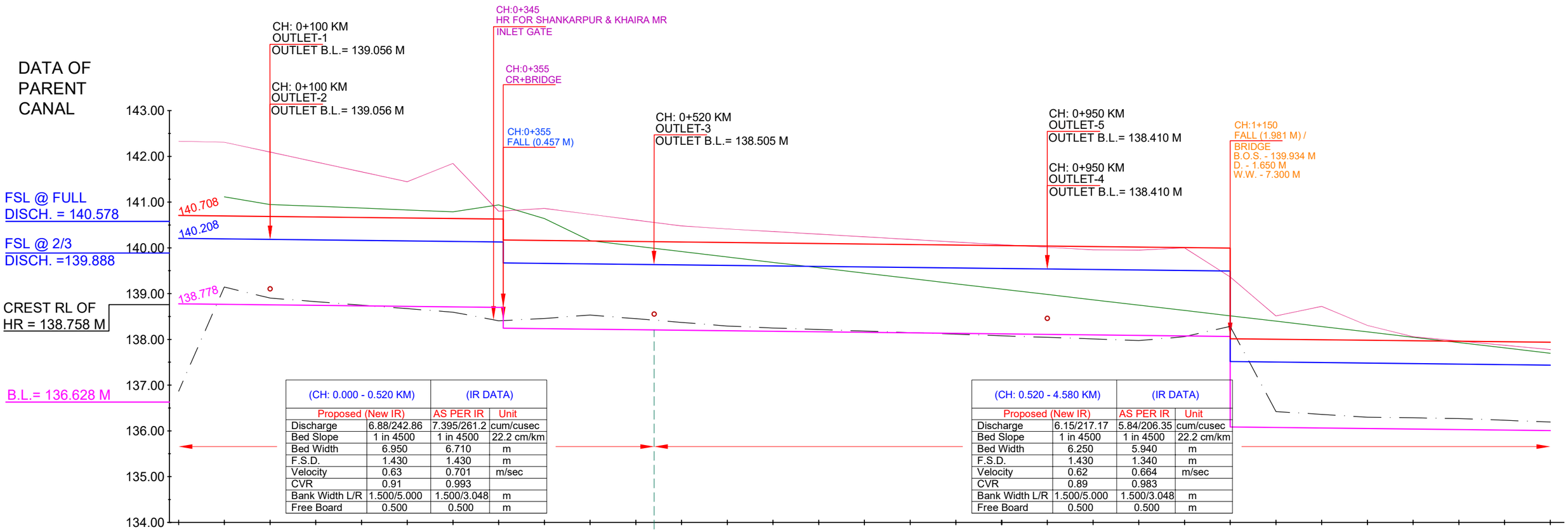
WAPCOS LIMITED
(GOVT. OF INDIA UNDERTAKING)
76- C SECTOR-18 INDUSTRIAL AREA,
GURUGRAM-122015 (HARYANA)

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L-SECTION

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 0+000 TO 1+500

DATA OF PARENT CANAL

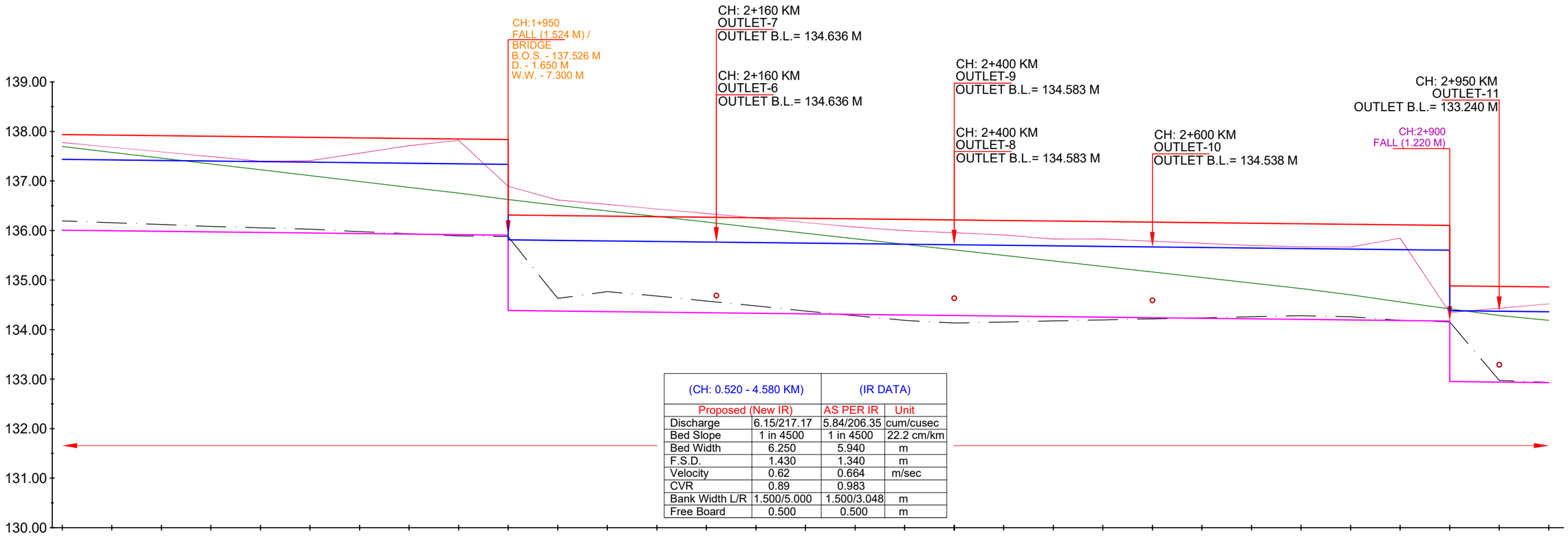


(CH: 0.000 - 0.520 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	6.88/242.86	7.395/261.2	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	6.950	6.710	m
F.S.D.	1.430	1.430	m
Velocity	0.63	0.701	m/sec
CVR	0.91	0.993	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 0.520 - 4.580 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	6.15/217.17	5.84/206.35	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	6.250	5.940	m
F.S.D.	1.430	1.340	m
Velocity	0.62	0.664	m/sec
CVR	0.89	0.983	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

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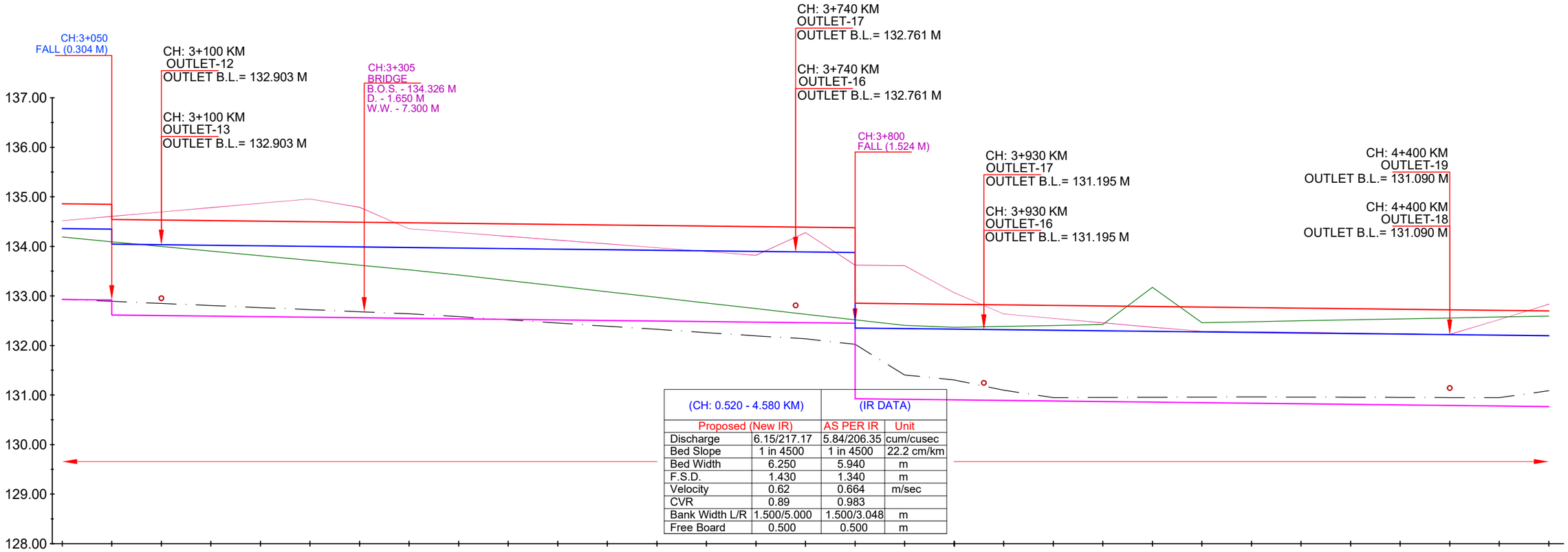
L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.520 - 4.580 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	6.15/217.17	5.84/206.35	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	6.250	5.940	m
F.S.D.	1.430	1.340	m
Velocity	0.62	0.664	m/sec
CVR	0.89	0.983	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

| | | |

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 3+000 TO 4+500



(CH: 0.520 - 4.580 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	6.15/217.17	5.84/206.35	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	6.250	5.940	m
F.S.D.	1.430	1.340	m
Velocity	0.62	0.664	m/sec
CVR	0.89	0.983	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN DATA	TOP OF BANK LEVEL	134.859	134.848	134.544	134.533	134.522	134.511	134.500	134.489	134.478	134.466	134.455	134.444	134.433	134.422	134.411	134.400	134.389	134.378	132.854	132.842	132.831	132.820	132.809	132.798	132.787	132.776	132.765	132.754	132.742	132.731	132.720	132.709	132.698
	F.S.L.	134.359	134.348	134.044	134.033	134.022	134.011	134.000	133.989	133.978	133.966	133.955	133.944	133.933	133.922	133.911	133.900	133.889	133.878	132.354	132.342	132.331	132.320	132.309	132.298	132.287	132.276	132.265	132.254	132.242	132.231	132.220	132.209	132.198
	Proposed Bed Level	132.929	132.918	132.614	132.603	132.592	132.581	132.570	132.559	132.548	132.536	132.525	132.514	132.503	132.492	132.481	132.470	132.459	132.448	130.924	130.912	130.901	130.890	130.879	130.868	130.857	130.846	130.835	130.824	130.812	130.801	130.790	130.779	130.768
EXISTING DATA	Bed Level	132.933	132.891	132.849	132.807	132.764	132.724	132.680	132.640	132.582	132.518	132.454	132.388	132.326	132.260	132.194	132.134	132.023	131.404	131.305	131.098	130.946	130.950	130.954	130.958	130.962	130.958	130.955	130.951	130.948	130.945	131.088
	TOP OF BANK LEVEL	134.518	134.606	134.694	134.782	134.871	134.957	134.791	134.356	134.280	134.203	134.127	134.051	133.974	133.898	133.821	134.280	133.624	133.611	133.066	132.637	132.547	132.457	132.368	132.288	132.275	132.263	132.250	132.238	132.225	132.522	132.834
	NSL	134.188	134.093	133.999	133.904	133.810	133.716	133.621	133.527	133.424	133.310	133.197	133.084	132.970	132.857	132.744	132.631	132.517	132.405	132.366	132.385	132.404	132.423	133.175	132.461	132.479	132.498	132.517	132.536	132.555	132.574	132.593
	Chainage IN KM	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500

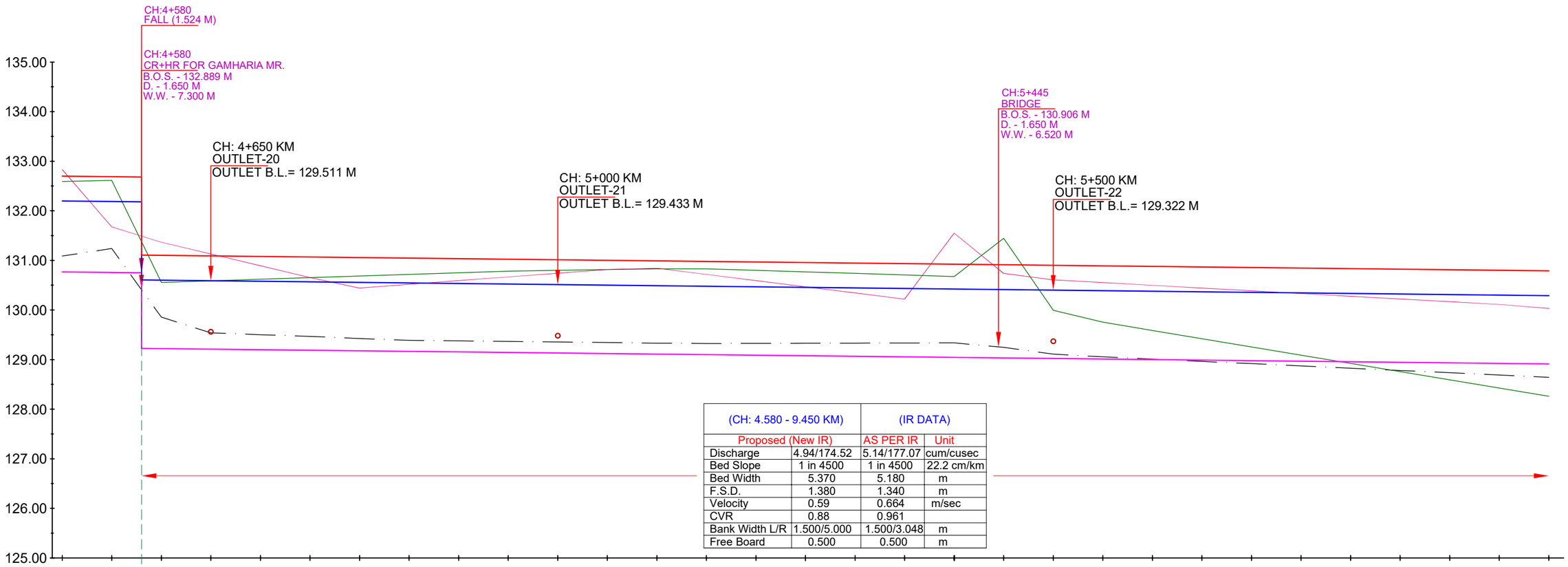
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 03 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 4+500 TO 6+000



(CH: 4.580 - 9.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	4.94/174.52	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	5.370	5.180	m
F.S.D.	1.380	1.340	m
Velocity	0.59	0.664	m/sec
CVR	0.88	0.961	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		4+500	4+550	4+580	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950	5+000	5+050	5+100	5+150	5+200	5+250	5+300	5+334	5+350	5+400	5+450	5+500	5+550	5+600	5+650	5+700	5+750	5+800	5+850	5+900	5+950	6+000
DESIGN DATA	TOP OF BANK LEVEL	132.698	132.687	132.660	131.102	131.091	131.080	131.068	131.057	131.046	131.035	131.024	131.013	131.002	130.991	130.980	130.968	130.957	130.946	130.935	130.924	130.913	130.902	130.891	130.880	130.868	130.857	130.846	130.835	130.824	130.813	130.802	130.791
	F.S.L.	132.198	132.187	132.180	130.602	130.591	130.580	130.568	130.557	130.546	130.535	130.524	130.513	130.502	130.491	130.480	130.468	130.457	130.446	130.435	130.424	130.413	130.402	130.391	130.380	130.368	130.357	130.346	130.335	130.324	130.313	130.302	130.291
	Proposed Bed Level	130.768	130.757	130.750	129.222	129.211	129.200	129.188	129.177	129.166	129.155	129.144	129.133	129.122	129.111	129.100	129.088	129.077	129.066	129.055	129.044	129.033	129.022	129.011	129.000	128.988	128.977	128.966	128.955	128.944	128.933	128.922	128.911
EXISTING DATA	Bed Level	131.088	131.239	129.857	129.540	129.501	129.468	129.425	129.387	129.377	129.365	129.355	129.343	129.332	129.324	129.327	129.329	129.332	129.334	129.337	129.247	129.109	129.056	129.010	128.964	128.918	128.872	128.826	128.780	128.735	128.688	128.642	
	TOP OF BANK LEVEL	132.834	131.676	131.367	131.130	130.892	130.655	130.443	130.518	130.592	130.667	130.741	130.816	130.842	130.718	130.593	130.469	130.344	130.220	130.549	130.738	130.608	130.553	130.498	130.443	130.388	130.333	130.278	130.223	130.168	130.112	130.033	
	NSL	132.593	132.612	130.555	130.587	130.620	130.653	130.685	130.718	130.750	130.783	130.799	130.814	130.828	130.831	130.800	130.769	130.738	130.707	130.676	131.446	129.993	129.755	129.588	129.422	129.256	129.090	128.924	128.758	128.592	128.426	128.260	
	Chainage IN KM																																	

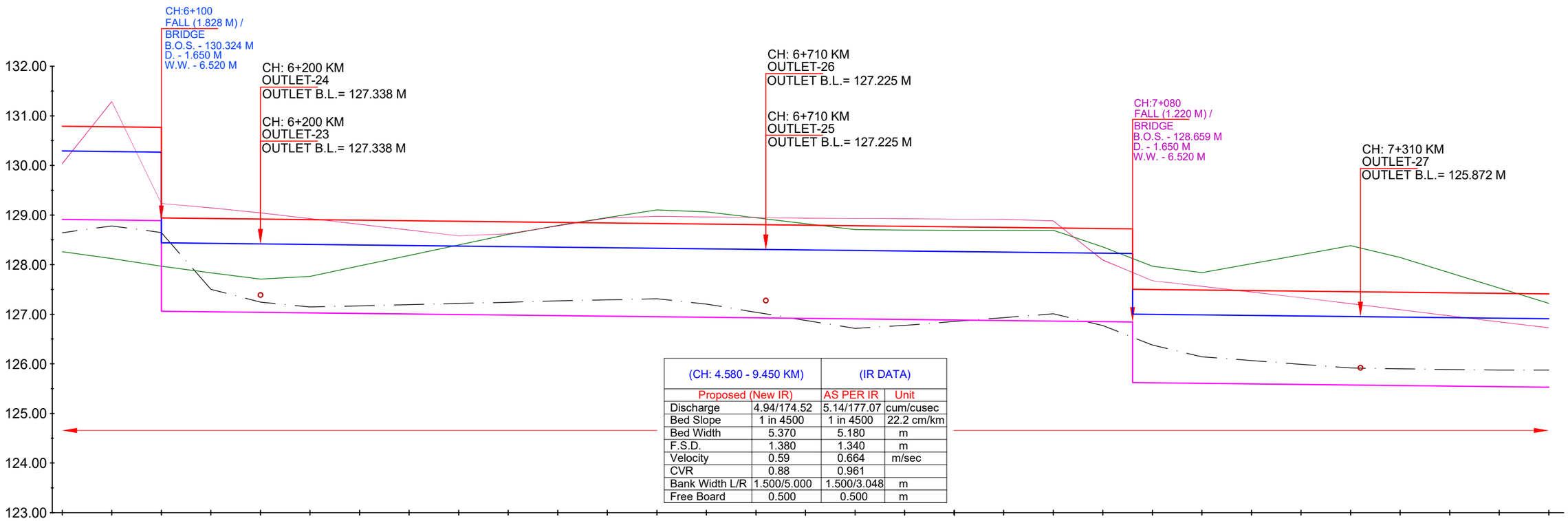
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 04 of 16

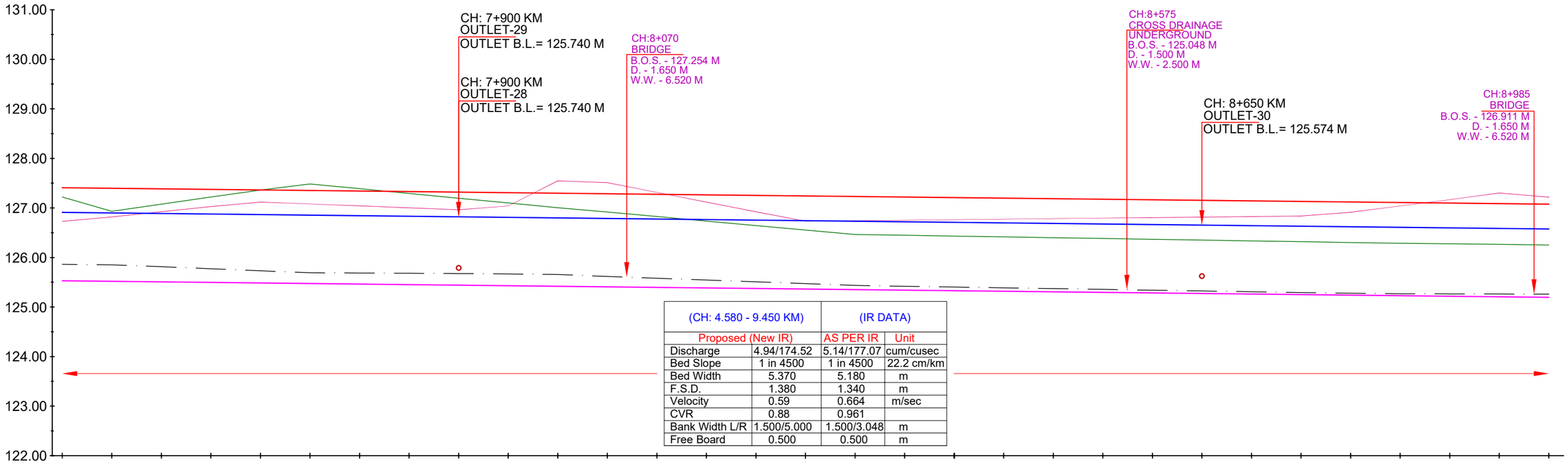
L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 6+000 TO 7+500



(CH: 4.580 - 9.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	4.94/174.52	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	5.370	5.180	m
F.S.D.	1.380	1.340	m
Velocity	0.59	0.664	m/sec
CVR	0.88	0.961	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

| | | |

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 7+500 TO 9+000



(CH: 4.580 - 9.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	4.94/174.52	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	5.370	5.180	m
F.S.D.	1.380	1.340	m
Velocity	0.59	0.664	m/sec
CVR	0.88	0.961	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	127.409	127.398	127.387	127.376	127.365	127.354	127.343	127.332	127.320	127.309	127.298	127.287	127.276	127.265	127.254	127.243	127.232	127.220	127.209	127.198	127.187	127.176	127.165	127.154	127.143	127.132	127.120	127.109	127.098	127.087	127.076
	F.S.L.	126.909	126.898	126.887	126.876	126.865	126.854	126.843	126.832	126.820	126.809	126.798	126.787	126.776	126.765	126.754	126.743	126.732	126.720	126.709	126.698	126.687	126.676	126.665	126.654	126.643	126.632	126.620	126.609	126.598	126.587	126.576
	Proposed Bed Level	125.529	125.518	125.507	125.496	125.485	125.474	125.463	125.452	125.440	125.429	125.418	125.407	125.396	125.385	125.374	125.363	125.352	125.340	125.329	125.318	125.307	125.296	125.285	125.274	125.263	125.252	125.240	125.229	125.218	125.207	125.196
EXISTING DATA	Bed Level	125.861	125.852	125.815	125.772	125.731	125.692	125.686	125.680	125.675	125.669	125.656	125.618	125.582	125.546	125.509	125.472	125.435	125.419	125.403	125.388	125.372	125.356	125.340	125.324	125.308	125.293	125.277	125.268	125.265	125.262	125.260
	TOP OF BANK LEVEL	126.728	126.820	126.924	127.028	127.119	127.080	127.041	127.003	126.964	127.041	127.546	127.510	127.315	127.119	126.923	126.732	126.742	126.752	126.763	126.774	126.784	126.795	126.805	126.816	126.827	126.837	126.914	127.040	127.166	127.303	127.218
	NSL	127.220	126.931	127.075	127.219	127.362	127.484	127.388	127.292	127.196	127.100	127.006	126.916	126.826	126.735	126.644	126.554	126.465	126.448	126.432	126.416	126.400	126.383	126.367	126.351	126.334	126.318	126.302	126.288	126.276	126.264	126.252
	Chainage IN KM	7+500	7+550	7+600	7+650	7+700	7+750	7+800	7+850	7+900	7+950	8+000	8+050	8+100	8+150	8+200	8+250	8+300	8+350	8+400	8+450	8+500	8+550	8+600	8+650	8+700	8+750	8+800	8+850	8+900	8+950	9+000

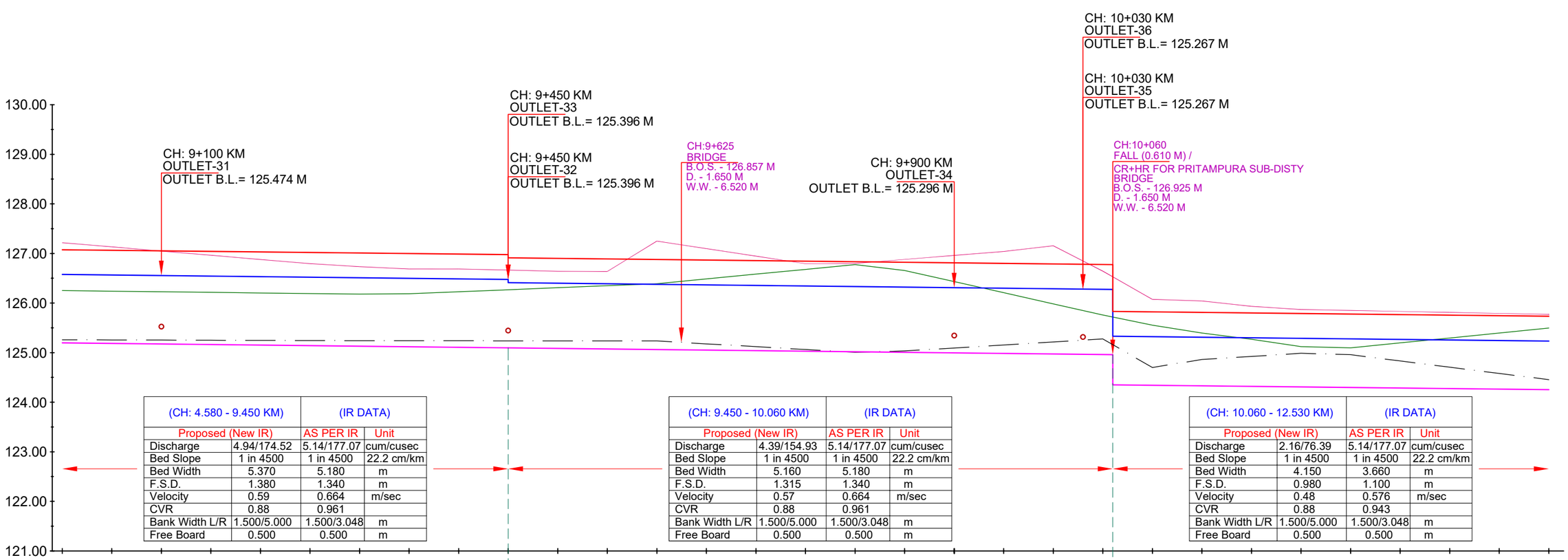
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 06 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 9+000 TO 10+500



(CH: 4.580 - 9.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	4.94/174.52	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	5.370	5.180	m
F.S.D.	1.380	1.340	m
Velocity	0.59	0.664	m/sec
CVR	0.88	0.961	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 9.450 - 10.060 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	4.39/154.93	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	5.160	5.180	m
F.S.D.	1.315	1.340	m
Velocity	0.57	0.664	m/sec
CVR	0.88	0.961	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 10.060 - 12.530 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	2.16/76.39	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	4.150	3.660	m
F.S.D.	0.980	1.100	m
Velocity	0.48	0.576	m/sec
CVR	0.88	0.943	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		9+000	9+050	9+100	9+150	9+200	9+250	9+300	9+350	9+400	9+450	9+500	9+550	9+600	9+650	9+700	9+750	9+800	9+850	9+900	9+950	10+000	10+050	10+060	10+100	10+150	10+200	10+250	10+300	10+350	10+400	10+450	10+500
DESIGN DATA	TOP OF BANK LEVEL	127.076	127.065	127.054	127.043	127.032	127.020	127.009	126.998	126.987	126.976	126.900	126.889	126.878	126.867	126.855	126.844	126.833	126.822	126.811	126.800	126.789	126.778	126.775	125.822	125.811	125.800	125.789	125.778	125.766	125.755	125.744	125.733
	F.S.L.	126.576	126.565	126.554	126.543	126.532	126.520	126.509	126.498	126.487	126.476	126.400	126.389	126.378	126.367	126.355	126.344	126.333	126.322	126.311	126.300	126.289	126.278	126.275	125.322	125.311	125.300	125.289	125.278	125.266	125.255	125.244	125.233
	Proposed Bed Level	125.196	125.185	125.174	125.163	125.152	125.140	125.129	125.118	125.107	125.096	125.085	125.074	125.063	125.052	125.040	125.029	125.018	125.007	124.996	124.985	124.974	124.963	124.960	124.342	124.331	124.320	124.309	124.298	124.286	124.275	124.264	124.253
EXISTING DATA	Bed Level	125.260	125.256	125.253	125.250	125.247	125.244	125.241	125.239	125.239	125.238	125.238	125.237	125.236	125.177	125.121	125.062	125.006	125.034	125.092	125.154	125.214	125.275	125.760	124.700	124.862	124.923	124.987	124.959	124.832	124.706	124.580	124.455
	TOP OF BANK LEVEL	127.218	127.133	127.048	126.964	126.879	126.794	126.734	126.710	126.688	126.665	126.641	126.637	127.250	127.098	126.946	126.793	126.799	126.880	126.960	127.041	127.156	126.644	125.552	126.076	126.043	125.935	125.870	125.850	125.831	125.812	125.792	125.773
	NSL	126.252	126.240	126.228	126.216	126.204	126.191	126.179	126.188	126.228	126.269	126.310	126.350	126.391	126.487	126.583	126.679	126.776	126.658	126.433	126.209	125.984	125.760	125.396	125.396	125.396	125.268	125.122	125.096	125.196	125.296	125.396	125.496
	Chainage IN KM	9+000	9+050	9+100	9+150	9+200	9+250	9+300	9+350	9+400	9+450	9+500	9+550	9+600	9+650	9+700	9+750	9+800	9+850	9+900	9+950	10+000	10+050	10+060	10+100	10+150	10+200	10+250	10+300	10+350	10+400	10+450	10+500

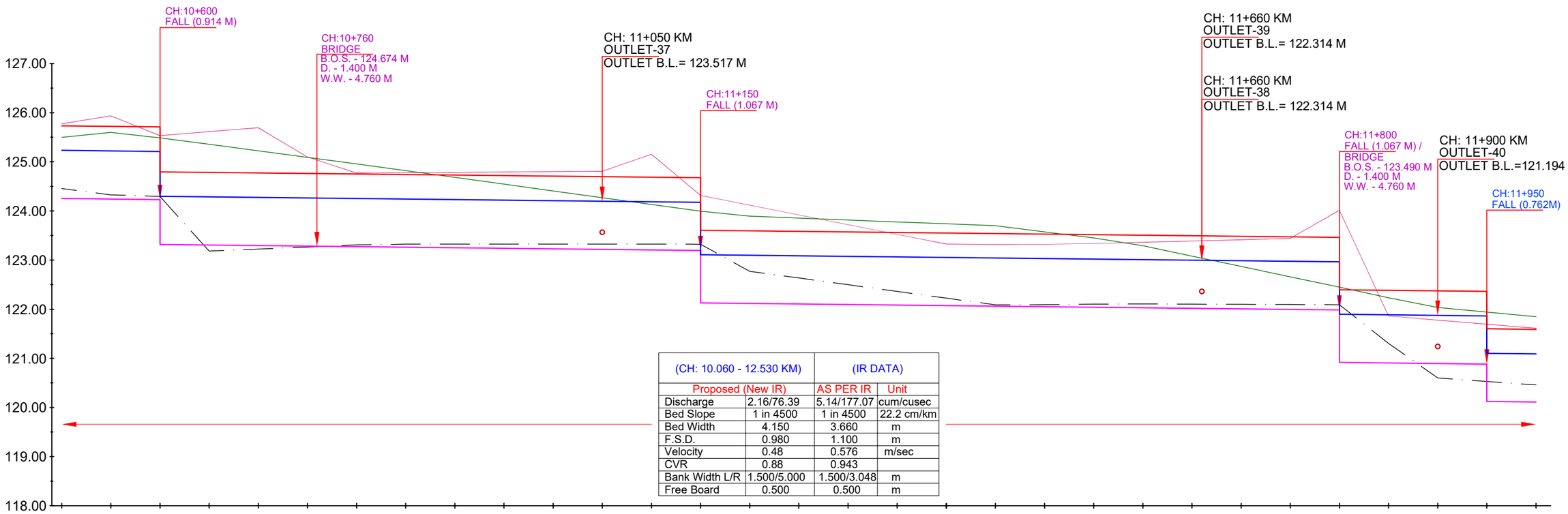
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 07 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 10+500 TO 12+000

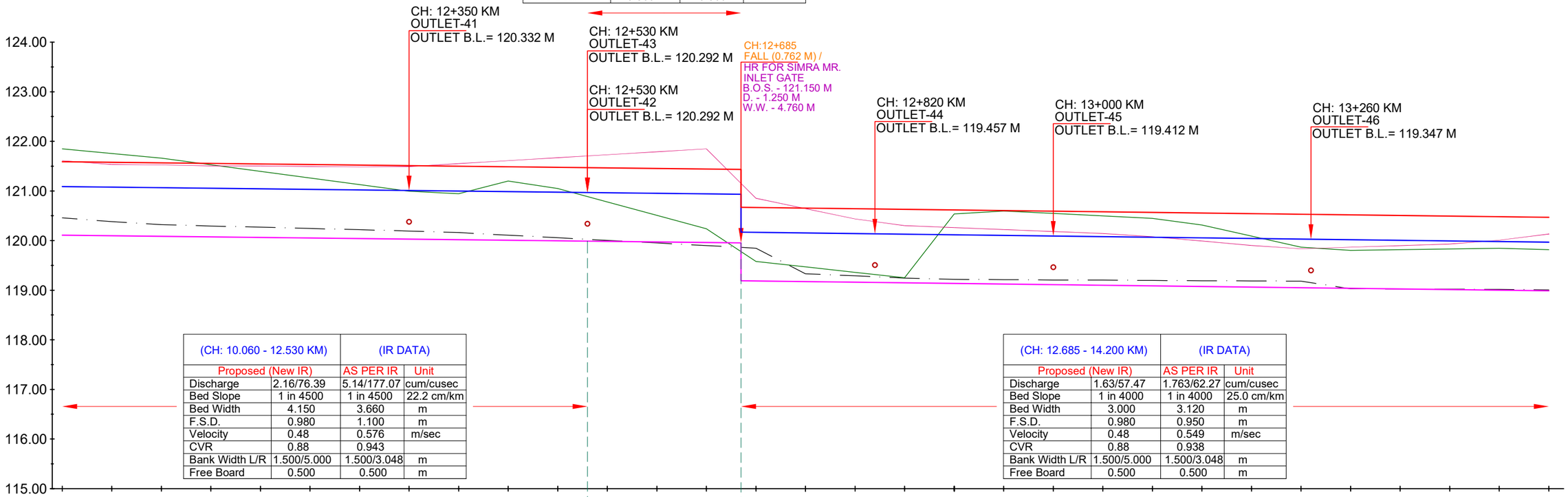


(CH: 10.060 - 12.530 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	2.16/76.39	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	4.150	3.660	m
F.S.D.	0.980	1.100	m
Velocity	0.48	0.576	m/sec
CVR	0.88	0.943	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

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L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 12+000 TO 13+500

(CH: 12.530 - 12.685 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.90/67.03	1.763/62.27	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	3.460	3.120	m
F.S.D.	0.980	0.950	m
Velocity	0.49	0.549	m/sec
CVR	0.91	0.938	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

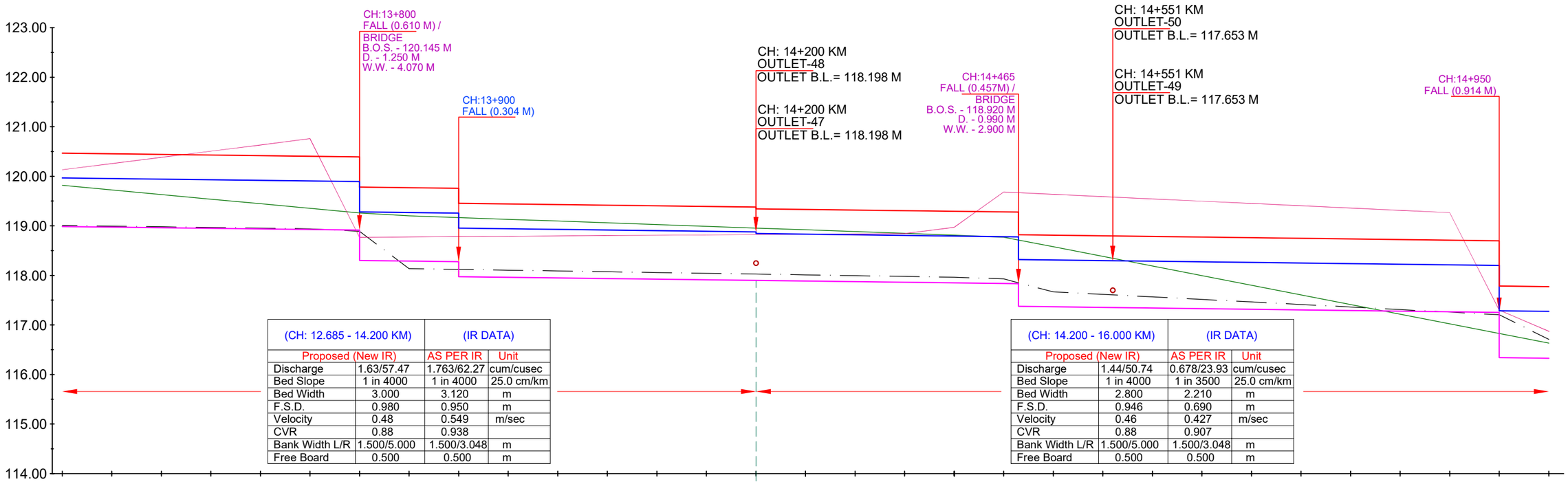


(CH: 10.060 - 12.530 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	2.16/76.39	5.14/177.07	cum/cusec
Bed Slope	1 in 4500	1 in 4500	22.2 cm/km
Bed Width	4.150	3.660	m
F.S.D.	0.980	1.100	m
Velocity	0.48	0.576	m/sec
CVR	0.88	0.943	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 12.685 - 14.200 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.63/57.47	1.763/62.27	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	3.000	3.120	m
F.S.D.	0.980	0.950	m
Velocity	0.48	0.549	m/sec
CVR	0.88	0.938	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

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L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 13+500 TO 15+000



(CH: 12.685 - 14.200 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.63/57.47	1.763/62.27	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	3.000	3.120	m
F.S.D.	0.980	0.950	m
Velocity	0.48	0.549	m/sec
CVR	0.88	0.938	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 14.200 - 16.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.44/50.74	0.678/23.93	cum/cusec
Bed Slope	1 in 4000	1 in 3500	25.0 cm/km
Bed Width	2.800	2.210	m
F.S.D.	0.946	0.690	m
Velocity	0.46	0.427	m/sec
CVR	0.88	0.907	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	120.467	120.455	120.442	120.430	120.417	120.405	120.392	119.782	119.770	119.757	119.453	119.441	119.428	119.416	119.403	119.391	119.378	119.344	119.332	119.319	119.307	119.294	119.282	119.278	118.821	118.812	118.800	118.787	118.775	118.762	118.750	118.737	118.725	118.712	118.700	117.786	117.773
	F.S.L.	119.967	119.955	119.942	119.930	119.917	119.905	119.892	119.282	119.270	119.257	118.953	118.941	118.928	118.916	118.903	118.891	118.878	118.844	118.832	118.819	118.807	118.794	118.782	118.778	118.321	118.312	118.300	118.287	118.275	118.262	118.250	118.237	118.225	118.212	118.200	117.286	117.273
	Proposed Bed Level	118.987	118.975	118.962	118.950	118.937	118.925	118.912	118.302	118.290	118.277	117.973	117.961	117.948	117.936	117.923	117.911	117.898	117.886	117.873	117.861	117.848	117.836	117.832	117.375	117.366	117.354	117.341	117.329	117.316	117.304	117.291	117.279	117.254	116.340	116.327		
EXISTING DATA	Bed Level	119.007	118.994	118.981	118.968	118.955	118.941	118.890	118.137	118.121	118.105	118.090	118.073	118.058	118.042	118.027	118.011	117.994	117.980	117.962	117.930	117.666	117.617	117.566	117.515	117.464	117.413	117.362	117.309	117.259	117.206	116.709						
	TOP OF BANK LEVEL	120.132	120.257	120.382	120.507	120.631	120.760	118.768	118.775	118.782	118.789	118.796	118.803	118.810	118.817	118.824	118.831	118.838	118.845	118.970	119.683	119.637	119.591	119.544	119.498	119.452	119.406	119.360	119.313	119.267	117.300	116.874						
	NSL	119.817	119.725	119.632	119.539	119.447	119.354	119.261	119.203	119.167	119.132	119.097	119.061	119.026	118.991	118.955	118.920	118.885	118.849	118.814	118.770	118.578	118.383	118.189	117.994	117.800	117.605	117.411	117.216	117.022	116.827	116.634						
	Chainage IN KM	13+500	13+550	13+600	13+650	13+700	13+750	13+800	13+850	13+900	13+950	14+000	14+050	14+100	14+150	14+200	14+250	14+300	14+350	14+400	14+450	14+500	14+550	14+600	14+650	14+700	14+750	14+800	14+850	14+900	14+950	15+000						

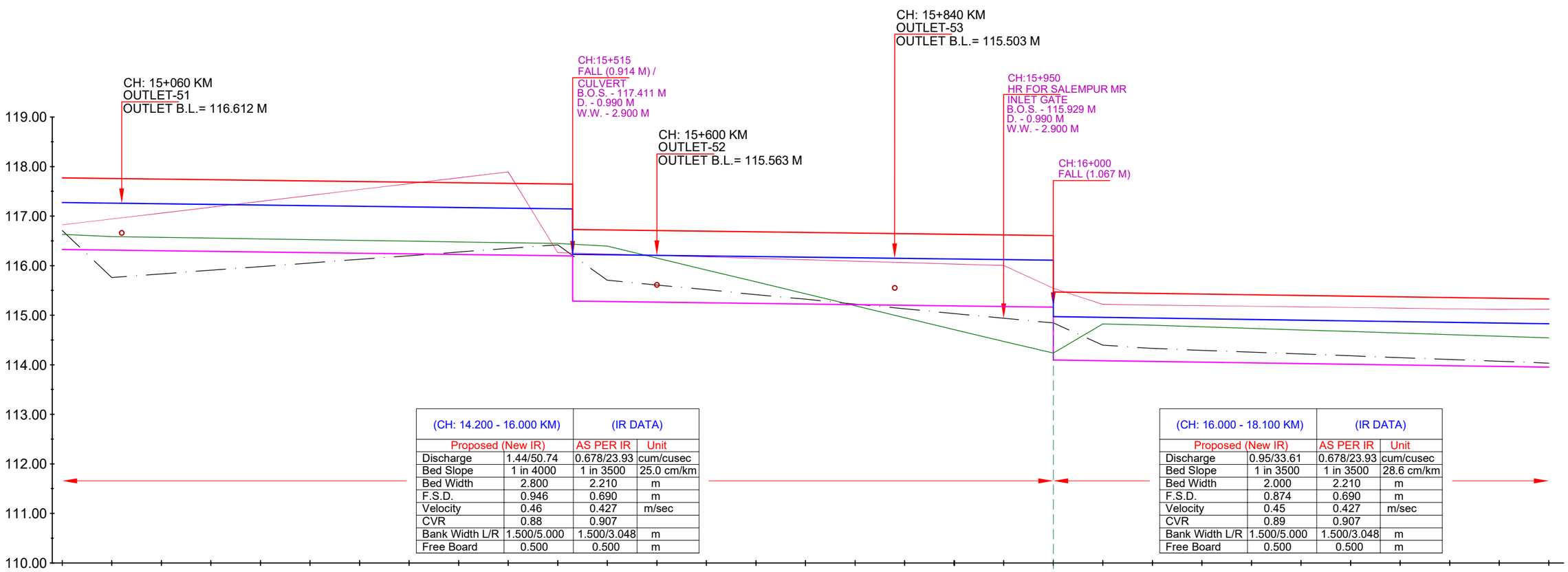
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 10 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 15+000 TO 16+500



(CH: 14.200 - 16.000 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	1.44/50.74	0.678/23.93	cum/cusec
Bed Slope	1 in 4000	1 in 3500	25.0 cm/km
Bed Width	2.800	2.210	m
F.S.D.	0.946	0.690	m
Velocity	0.46	0.427	m/sec
CVR	0.88	0.907	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 16.000 - 18.100 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	0.95/33.61	0.678/23.93	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	2.000	2.210	m
F.S.D.	0.874	0.690	m
Velocity	0.45	0.427	m/sec
CVR	0.89	0.907	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	117.773	117.761	117.748	117.736	117.723	117.711	117.698	117.686	117.673	117.661	117.648	117.644	116.730	116.722	116.709	116.697	116.684	116.672	116.659	116.647	116.634	116.622	116.609	115.470	115.456	115.441	115.427	115.413	115.399	115.384	115.370	115.356	115.341	115.327
	F.S.L.	117.273	117.261	117.248	117.236	117.223	117.211	117.198	117.186	117.173	117.161	117.148	117.144	116.230	116.222	116.209	116.197	116.184	116.172	116.159	116.147	116.134	116.122	116.109	114.970	114.956	114.941	114.927	114.913	114.899	114.884	114.870	114.856	114.841	114.827
	Proposed Bed Level	116.327	116.315	116.302	116.290	116.277	116.265	116.252	116.240	116.227	116.215	116.202	116.198	115.284	115.276	115.263	115.251	115.238	115.226	115.213	115.201	115.188	115.176	115.163	114.096	114.082	114.067	114.053	114.039	114.025	114.010	113.996	113.982	113.967	113.953
EXISTING DATA	Bed Level	116.709	115.761	115.834	115.908	115.981	116.054	116.128	116.201	116.275	116.348	116.421	115.708	115.608	115.516	115.414	115.324	115.223	115.130	115.034	114.939	114.844	114.397	114.329	114.292	114.255	114.218	114.181	114.144	114.107	114.033				
	TOP OF BANK LEVEL	116.874	116.993	117.111	117.230	117.349	117.468	117.587	117.706	117.825	117.943	116.314	116.285	116.256	116.228	116.199	116.170	116.142	116.113	116.084	116.056	115.594	115.268	115.255	115.243	115.231	115.218	115.206	115.193	115.181	115.171				
	NSL	116.634	116.586	116.571	116.556	116.541	116.525	116.510	116.495	116.479	116.464	116.449	116.395	116.154	115.913	115.673	115.432	115.191	114.951	114.710	114.470	114.237	114.824	114.799	114.767	114.735	114.703	114.671	114.639	114.607	114.575	114.543			
	Chainage IN KM	15+000	15+050	15+100	15+150	15+200	15+250	15+300	15+350	15+400	15+450	15+500	15+550	15+600	15+650	15+700	15+750	15+800	15+850	15+900	15+950	16+000	16+050	16+100	16+150	16+200	16+250	16+300	16+350	16+400	16+450	16+500			

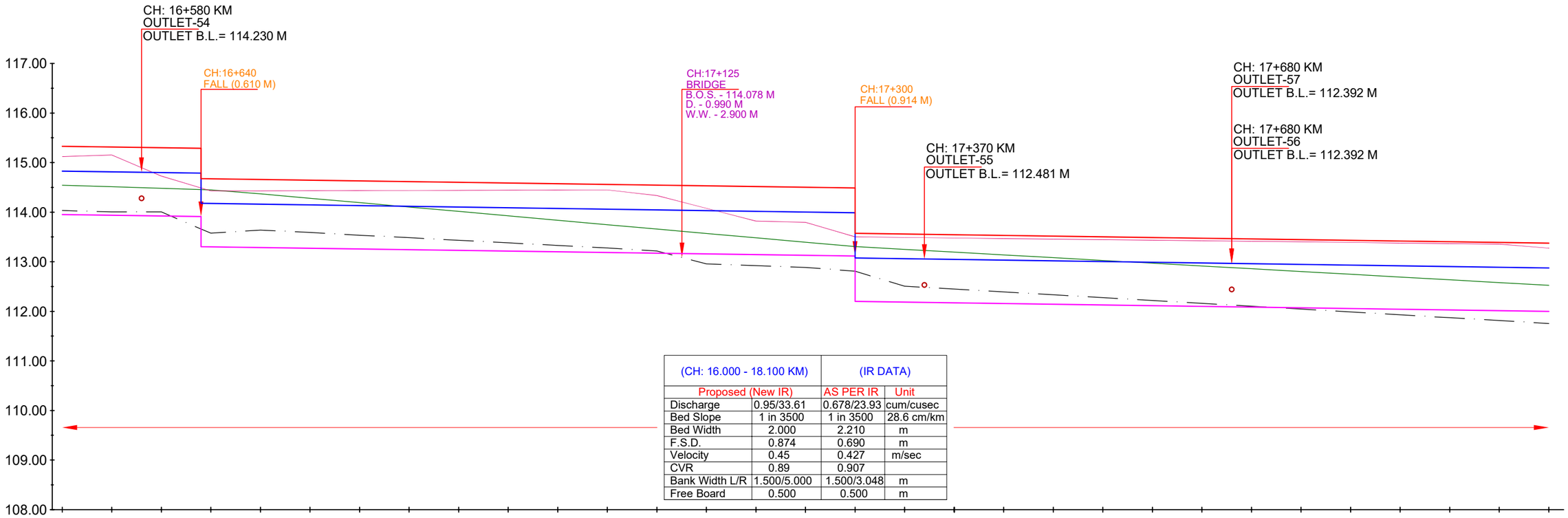
LEGEND

NSL		EXISTING BED LEVEL
EXISTING TOP OF BANK		PROPOSED BED LEVEL
EXISTING STRUCTURE		PROPOSED FSL
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 11 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 16+500 TO 18+000



(CH: 16.000 - 18.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.95/33.61	0.678/23.93	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	2.000	2.210	m
F.S.D.	0.874	0.690	m
Velocity	0.45	0.427	m/sec
CVR	0.89	0.907	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	115.327	115.313	115.299	115.287 114.677 114.674	114.660	114.646	114.631	114.617	114.603	114.589	114.574	114.560	114.546	114.531	114.517	114.503	114.489 113.575	113.560	113.546	113.532	113.517	113.503	113.489	113.475	113.460	113.446	113.432	113.417	113.403	113.389	113.375
	F.S.L.	114.827	114.813	114.799	114.787 114.177 114.174	114.160	114.146	114.131	114.117	114.103	114.089	114.074	114.060	114.046	114.031	114.017	114.003	113.989 113.075	113.060	113.046	113.032	113.017	113.003	112.989	112.975	112.960	112.946	112.932	112.917	112.903	112.889	112.875
	Proposed Bed Level	113.953	113.939	113.925	113.913 113.303 113.300	113.286	113.272	113.257	113.243	113.229	113.215	113.200	113.186	113.172	113.157	113.143	113.129	113.115 112.201	112.186	112.172	112.158	112.143	112.129	112.115	112.101	112.086	112.072	112.058	112.043	112.029	112.015	112.001
EXISTING DATA	Bed Level	114.033	114.007	114.006	113.576	113.638	113.592	113.534	113.487	113.432	113.382	113.329	113.277	113.217	112.959	112.922	112.887	112.808	112.507	112.450	112.392	112.335	112.276	112.219	112.161	112.103	112.045	111.987	111.930	111.871	111.815	111.755
	TOP OF BANK LEVEL	115.171	115.205	114.779	114.478	114.481	114.484	114.486	114.489	114.492	114.494	114.497	114.500	114.386	114.128	113.869	113.844	113.552	113.541	113.530	113.518	113.507	113.496	113.485	113.473	113.462	113.451	113.440	113.429	113.417	113.406	113.324
	NSL	114.543	114.513	114.481	114.449	114.370	114.281	114.193	114.104	114.015	113.926	113.837	113.748	113.659	113.571	113.482	113.393	113.306	113.251	113.195	113.139	113.083	113.027	112.971	112.915	112.859	112.803	112.747	112.692	112.636	112.580	112.524
	Chainage IN KM	16+500	16+550	16+600	16+650	16+700	16+750	16+800	16+850	16+900	16+950	17+000	17+050	17+100	17+150	17+200	17+250	17+300	17+350	17+400	17+450	17+500	17+550	17+600	17+650	17+700	17+750	17+800	17+850	17+900	17+950	18+000		

LEGEND

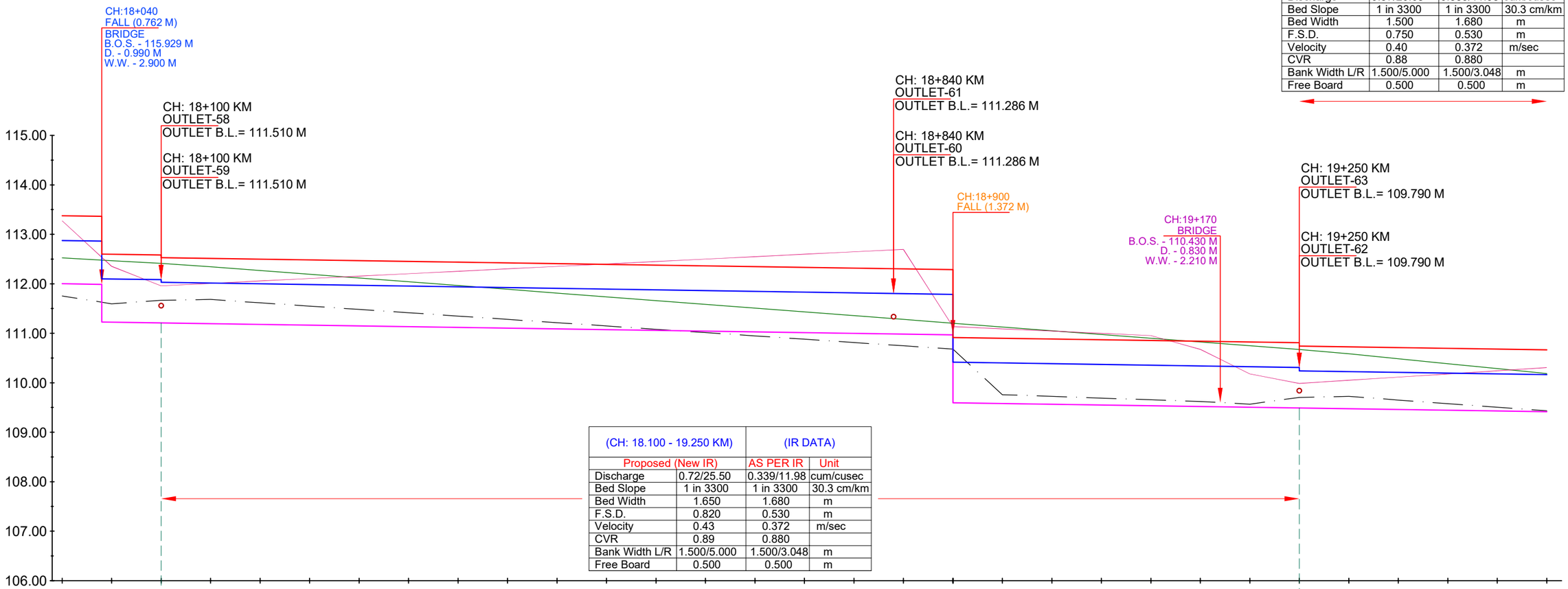
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 12 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 18+000 TO 19+500

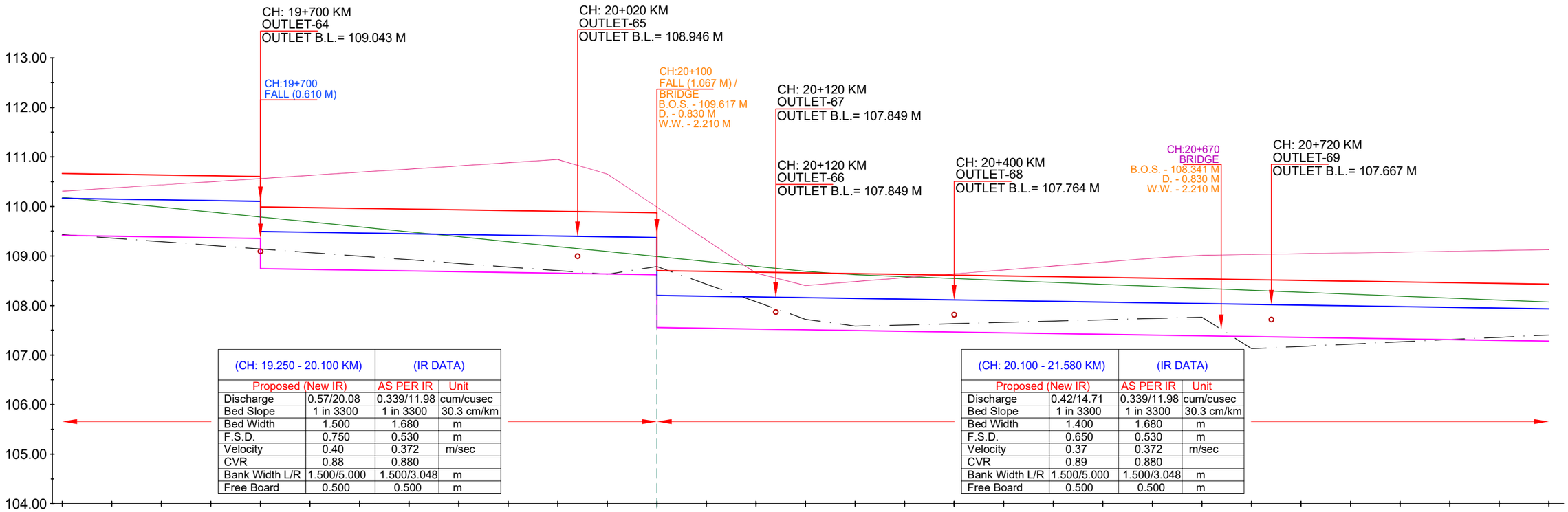
(CH: 19.250 - 20.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.57/20.08	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	1.500	1.680	m
F.S.D.	0.750	0.530	m
Velocity	0.40	0.372	m/sec
CVR	0.88	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m



(CH: 18.100 - 19.250 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.72/25.50	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	1.650	1.680	m
F.S.D.	0.820	0.530	m
Velocity	0.43	0.372	m/sec
CVR	0.89	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

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L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 19+500 TO 21+000



(CH: 19.250 - 20.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.57/20.08	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	1.500	1.680	m
F.S.D.	0.750	0.530	m
Velocity	0.40	0.372	m/sec
CVR	0.88	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 20.100 - 21.580 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.42/14.71	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	1.400	1.680	m
F.S.D.	0.650	0.530	m
Velocity	0.37	0.372	m/sec
CVR	0.89	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	110.664	110.649	110.634	110.618	110.603	109.993	109.978	109.963	109.948	109.933	109.917	109.902	109.887	109.872	108.705	108.690	108.675	108.660	108.644	108.629	108.614	108.599	108.584	108.569	108.553	108.538	108.523	108.508	108.493	108.478	108.463	108.447	108.432
	F.S.L.	110.164	110.149	110.134	110.118	110.103	109.493	109.478	109.463	109.448	109.433	109.417	109.402	109.387	109.372	108.205	108.190	108.175	108.160	108.144	108.129	108.114	108.099	108.084	108.069	108.053	108.038	108.023	108.008	107.993	107.978	107.963	107.947	107.932
	Proposed Bed Level	109.414	109.399	109.384	109.368	109.353	108.743	108.728	108.713	108.698	108.683	108.667	108.652	108.637	108.622	107.555	107.540	107.525	107.510	107.494	107.479	107.464	107.449	107.434	107.419	107.403	107.388	107.373	107.358	107.343	107.328	107.313	107.297	107.282
EXISTING DATA	Bed Level	109.433	109.360	109.288	109.215	109.142	109.069	108.997	108.924	108.851	108.778	108.706	108.633	108.787	108.432	108.077	107.722	107.585	107.607	107.634	107.659	107.687	107.712	107.740	107.766	107.129	107.175	107.222	107.267	107.314	107.359	107.406		
	TOP OF BANK LEVEL	110.357	110.421	110.485	110.549	110.613	110.677	110.741	110.805	110.869	110.933	110.997	110.705	110.039	109.373	108.707	108.454	108.533	108.612	108.691	108.769	108.848	108.927	109.006	109.063	109.080	109.096	109.112	109.129	109.145	109.161	109.178		
	NSL	110.187	110.087	109.987	109.887	109.787	109.688	109.588	109.488	109.388	109.288	109.189	109.089	108.989	108.889	108.790	108.691	108.624	108.584	108.545	108.505	108.466	108.427	108.387	108.348	108.309	108.269	108.230	108.191	108.151	108.112	108.072		
	Chainage IN KM	19+500	19+550	19+600	19+650	19+700	19+750	19+800	19+850	19+900	19+950	20+000	20+050	20+100	20+150	20+200	20+250	20+300	20+350	20+400	20+450	20+500	20+550	20+600	20+650	20+700	20+750	20+800	20+850	20+900	20+950	21+000		

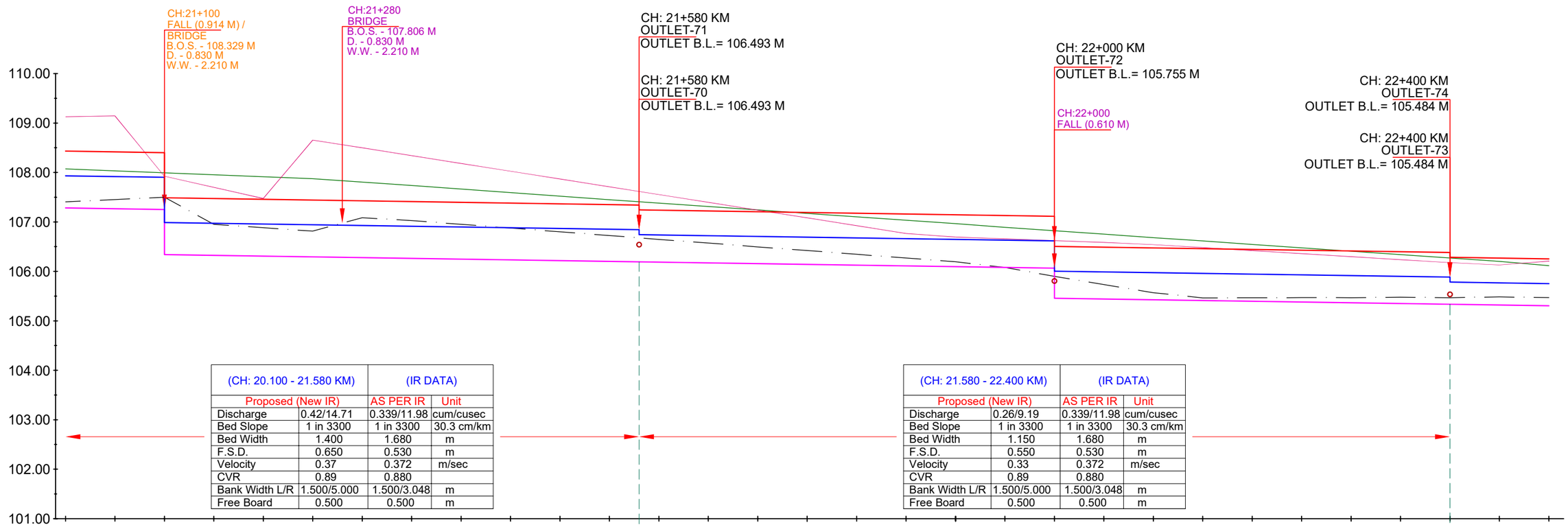
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 14 of 16

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 21+000 TO 22+500

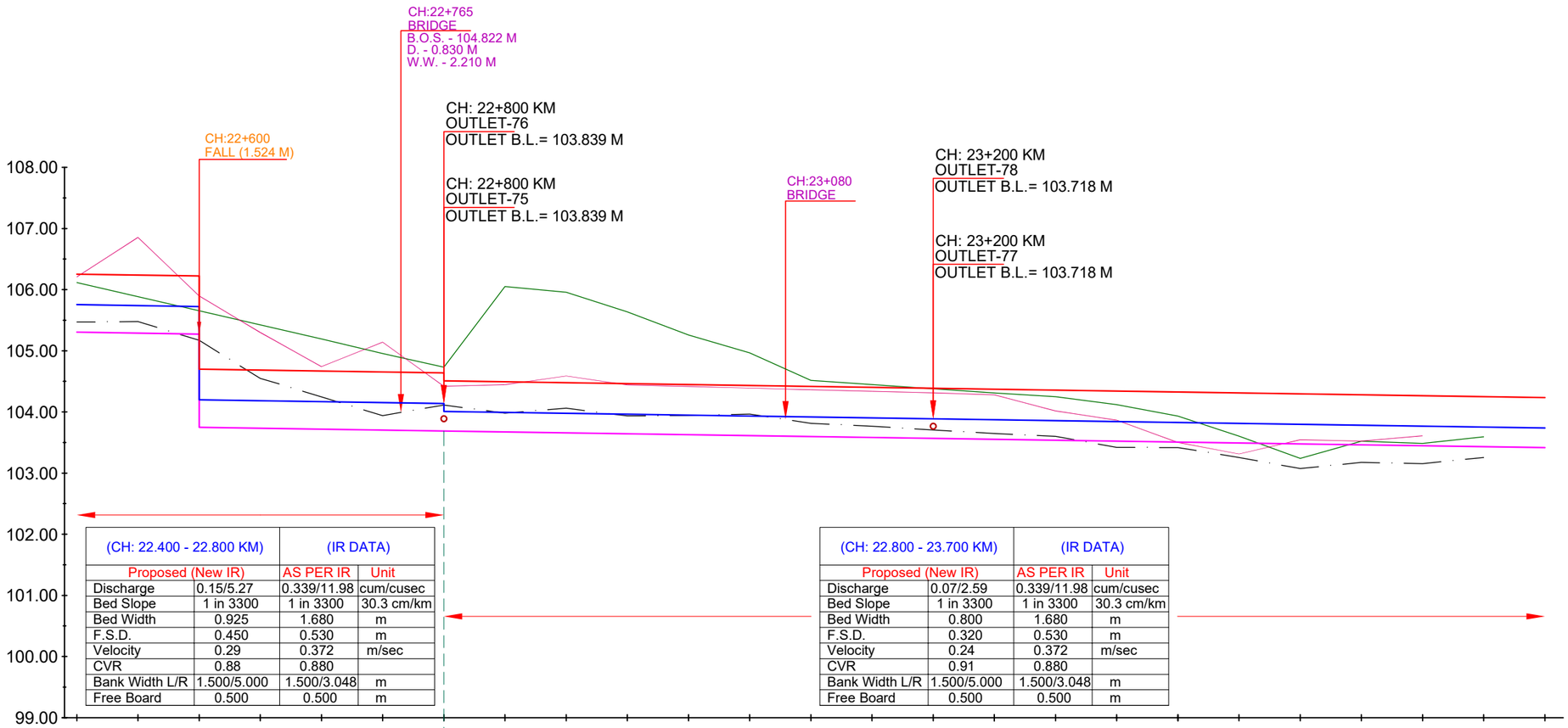


(CH: 20.100 - 21.580 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.42/14.71	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	1.400	1.680	m
F.S.D.	0.650	0.530	m
Velocity	0.37	0.372	m/sec
CVR	0.89	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 21.580 - 22.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.26/9.19	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	1.150	1.680	m
F.S.D.	0.550	0.530	m
Velocity	0.33	0.372	m/sec
CVR	0.89	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

| | | |

L- SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 22+500 TO 23+700



(CH: 22.400 - 22.800 KM)	(IR DATA)		
Proposed (New IR)		AS PER IR	Unit
Discharge	0.15/5.27	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	0.925	1.680	m
F.S.D.	0.450	0.530	m
Velocity	0.29	0.372	m/sec
CVR	0.88	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 22.800 - 23.700 KM)	(IR DATA)		
Proposed (New IR)		AS PER IR	Unit
Discharge	0.07/2.59	0.339/11.98	cum/cusec
Bed Slope	1 in 3300	1 in 3300	30.3 cm/km
Bed Width	0.800	1.680	m
F.S.D.	0.320	0.530	m
Velocity	0.24	0.372	m/sec
CVR	0.91	0.880	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	106.254	106.239	106.223 104.699	104.684	104.669	104.654	104.639 104.509	104.494	104.479	104.463	104.448	104.433	104.418	104.403	104.388	104.372	104.357	104.342	104.327	104.312	104.297	104.282	104.266	104.251	104.236
	F.S.L.	105.754	105.739	105.723 104.199	104.184	104.169	104.154	104.139 104.009	103.994	103.979	103.963	103.948	103.933	103.918	103.903	103.888	103.872	103.857	103.842	103.827	103.812	103.797	103.782	103.766	103.751	103.736
	Proposed Bed Level	105.304	105.289	105.273 103.749	103.734	103.719	103.704	103.689	103.674	103.659	103.643	103.628	103.613	103.598	103.583	103.568	103.552	103.537	103.522	103.507	103.492	103.477	103.462	103.446	103.431	103.416
EXISTING DATA	Bed Level	105.470	105.478	105.171	104.550	104.247	103.940	104.114	103.980	104.061	103.935	103.940	103.965	103.815	103.767	103.704	103.647	103.601	103.420	103.418	103.256	103.073	103.175	103.155	103.254	
	TOP OF BANK LEVEL	106.258	106.905	105.948	105.350	104.793	105.192	104.469	104.496	104.638	104.492	104.467	104.440	104.414	104.388	104.362	104.329	104.068	103.917	103.553	103.363	103.596	103.574	103.659		
	NSL	106.117	105.886	105.654	105.424	105.193	104.955	104.731	106.050	105.956	105.637	105.259	104.967	104.515	104.448	104.380	104.312	104.248	104.119	103.932	103.603	103.239	103.521	103.485	103.592	
	Chainage IN KM	22+500	22+550	22+600	22+650	22+700	22+750	22+800	22+850	22+900	22+950	23+000	23+050	23+100	23+150	23+200	23+250	23+300	23+350	23+400	23+450	23+500	23+550	23+600	23+650	23+700

LEGEND

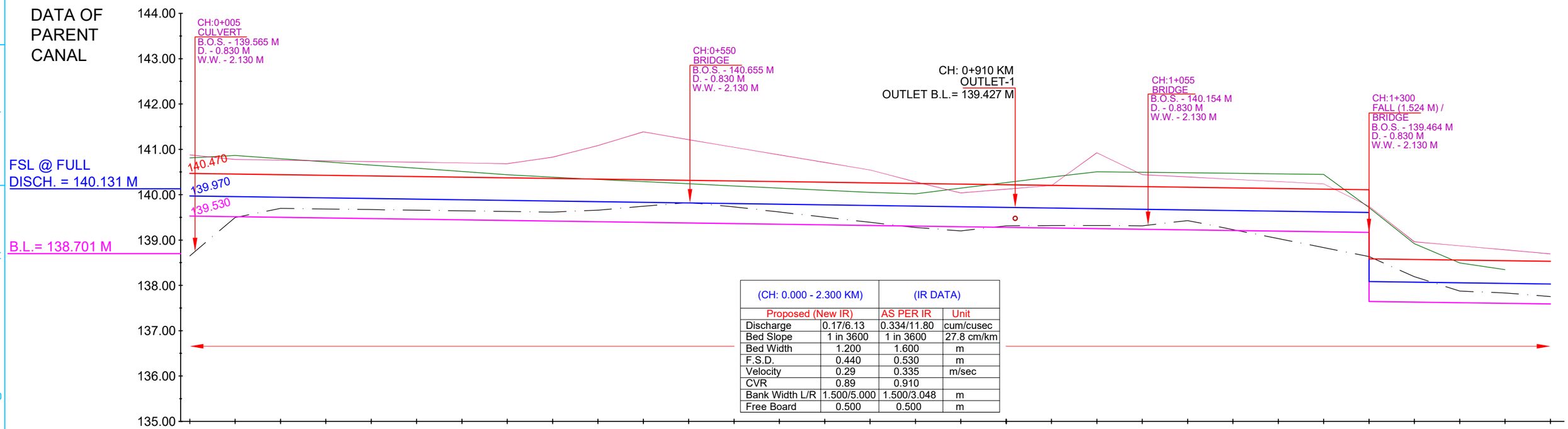
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ LSEC- 16 of 16

SHANKARPUR MINOR

L- SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 2.300 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.17/6.13	0.334/11.80	cum/cusec
Bed Slope	1 in 3600	1 in 3600	27.8 cm/km
Bed Width	1.200	1.600	m
F.S.D.	0.440	0.530	m
Velocity	0.29	0.335	m/sec
CVR	0.89	0.910	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL	140.470	140.456	140.442	140.428	140.414	140.401	140.387	140.373	140.359	140.345	140.331	140.317	140.303	140.289	140.276	140.262	140.248	140.234	140.220	140.206	140.192	140.178	140.164	140.151	140.137	140.123	140.109	138.585	138.571	138.557	138.543	138.529
	F.S.L.	139.970	139.956	139.942	139.928	139.914	139.901	139.887	139.873	139.859	139.845	139.831	139.817	139.803	139.789	139.776	139.762	139.748	139.734	139.720	139.706	139.692	139.678	139.664	139.651	139.637	139.623	139.609	138.085	138.071	138.057	138.043	138.029
	Proposed Bed Level	139.530	139.516	139.502	139.488	139.474	139.461	139.447	139.433	139.419	139.405	139.391	139.377	139.363	139.349	139.336	139.322	139.308	139.294	139.280	139.266	139.252	139.238	139.224	139.211	139.197	139.183	139.169	137.645	137.631	137.617	137.603	137.589
EXISTING DATA	Bed Level	138.650	139.497	139.698	139.685	139.671	139.657	139.644	139.630	139.616	139.660	139.744	139.825	139.732	139.618	139.504	139.390	139.275	139.202	139.314	139.318	139.321	139.312	139.429	139.231	139.030	138.833	138.634	138.192	137.873	137.832	137.753	
	TOP OF BANK LEVEL	140.878	140.777	140.762	140.746	140.731	140.715	140.700	140.684	140.827	141.084	141.387	141.212	141.046	140.878	140.712	140.545	140.285	140.038	140.120	140.203	140.925	140.441	140.391	140.340	140.289	140.238	139.745	138.960	138.873	138.784	138.694	
	NSL		140.811	140.866	140.795	140.724	140.654	140.583	140.512	140.442	140.385	140.337	140.288	140.241	140.193	140.145	140.097	140.050	140.018	140.144	140.267	140.390	140.504	140.493	140.482	140.471	140.460	140.448	139.715	138.918	138.496	138.345	
	Chainage IN KM	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500

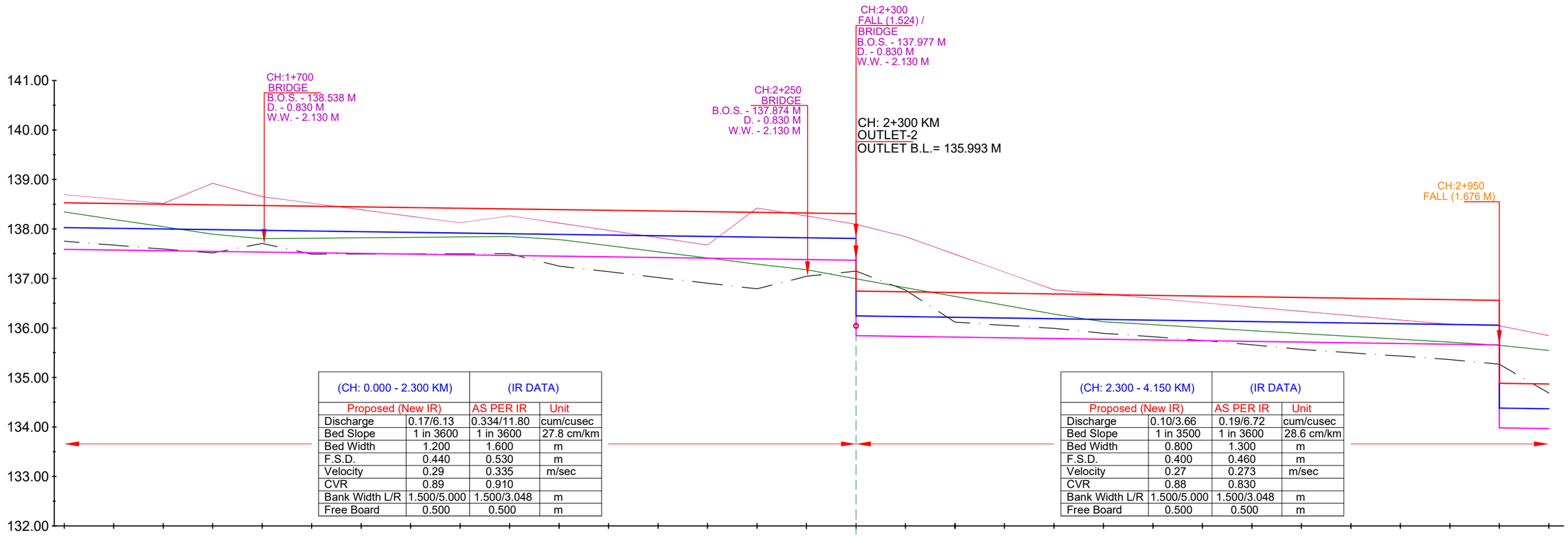
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ LSEC- 01 of 04

L- SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.000 - 2.300 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.17/6.13	0.334/11.80	cum/cusec
Bed Slope	1 in 3600	1 in 3600	27.8 cm/km
Bed Width	1.200	1.600	m
F.S.D.	0.440	0.530	m
Velocity	0.29	0.335	m/sec
CVR	0.89	0.910	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 2.300 - 4.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.10/3.66	0.19/6.72	cum/cusec
Bed Slope	1 in 3500	1 in 3600	28.6 cm/km
Bed Width	0.800	1.300	m
F.S.D.	0.400	0.460	m
Velocity	0.27	0.273	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	138.529	138.515	138.502	138.488	138.474	138.460	138.446	138.432	138.418	138.404	138.390	138.377	138.363	138.349	138.335	138.321	138.307	136.743	136.729	136.715	136.700	136.686	136.672	136.657	136.643	136.629	136.615	136.600	136.586	136.572	136.557
	F.S.L.	138.029	138.015	138.002	137.988	137.974	137.960	137.946	137.932	137.918	137.904	137.890	137.877	137.863	137.849	137.835	137.821	137.807	136.243	136.229	136.215	136.200	136.186	136.172	136.157	136.143	136.129	136.115	136.100	136.086	136.072	136.057
	Proposed Bed Level	137.589	137.575	137.562	137.548	137.534	137.520	137.506	137.492	137.478	137.464	137.450	137.437	137.423	137.409	137.395	137.381	137.367	135.843	135.829	135.815	135.800	135.786	135.772	135.757	135.743	135.729	135.715	135.700	135.686	135.672	135.657
EXISTING DATA	Bed Level	137.753	137.674	137.594	137.515	137.708	137.492	137.494	137.496	137.499	137.501	137.249	137.136	137.019	136.904	136.790	137.044	137.147	136.766	136.119	136.052	135.991	135.892	135.823	135.746	135.660	135.565	135.498	135.432	135.361	135.269	134.682
	TOP OF BANK LEVEL	138.694	138.605	138.515	138.922	138.653	138.521	138.389	138.257	138.125	138.266	138.119	137.972	137.825	137.678	138.422	138.263	138.094	137.846	137.488	137.131	136.773	136.685	136.598	136.511	136.423	136.335	136.248	136.160	136.077	136.045	135.847
	NSL	138.345	138.195	138.044	137.893	137.805	137.813	137.822	137.831	137.840	137.849	137.787	137.662	137.538	137.414	137.290	137.178	136.994	136.814	136.637	136.459	136.281	136.125	136.066	136.006	135.946	135.887	135.829	135.771	135.713	135.651	135.544
	Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

LEGEND

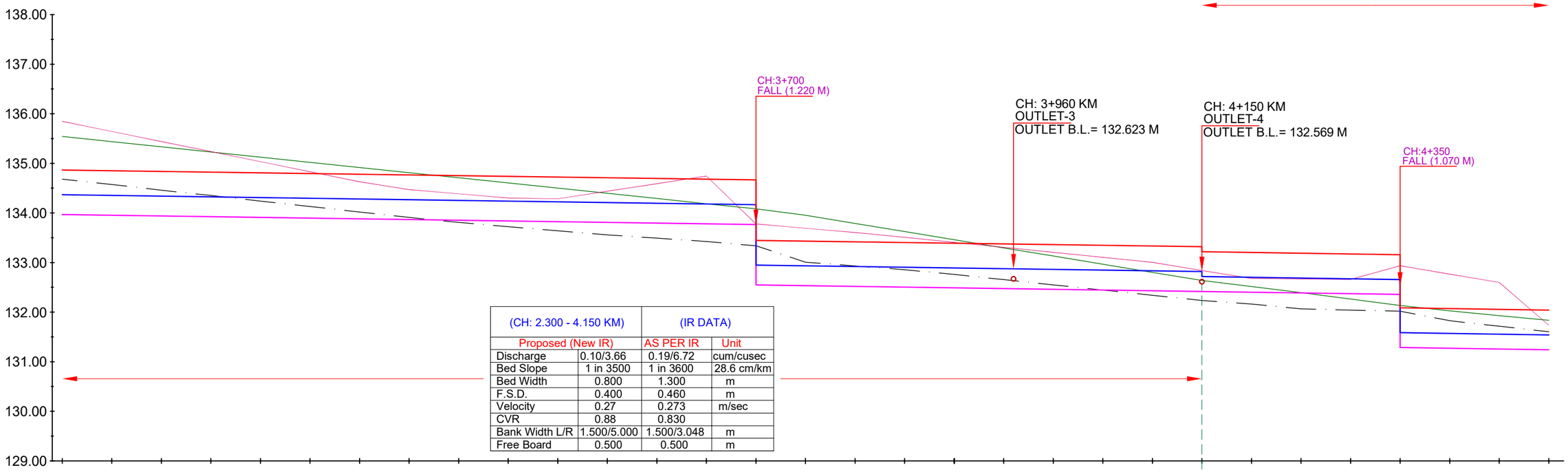
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ LSEC- 02 of 04

L- SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500

(CH: 4.150 - 4.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.03/1.20	0.19/6.72	cum/cusec
Bed Slope	1 in 3200	1 in 3600	31.3 cm/km
Bed Width	0.650	1.300	m
F.S.D.	0.300	0.460	m
Velocity	0.22	0.273	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m



(CH: 2.300 - 4.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.10/3.66	0.19/6.72	cum/cusec
Bed Slope	1 in 3500	1 in 3600	28.6 cm/km
Bed Width	0.800	1.300	m
F.S.D.	0.400	0.460	m
Velocity	0.27	0.273	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	134.867	134.853	134.839	134.824	134.810	134.796	134.781	134.767	134.753	134.739	134.724	134.710	134.696	134.681	134.667 133.447	133.433	133.419	133.404	133.390	133.376	133.361	133.347	133.333	133.319 133.219	133.203	133.187	133.172	133.156 132.086	132.070	132.055	132.039
	F.S.L.	134.367	134.353	134.339	134.324	134.310	134.296	134.281	134.267	134.253	134.239	134.224	134.210	134.196	134.181	134.167 132.947	132.933	132.919	132.904	132.890	132.876	132.861	132.847	132.833	132.819 132.719	132.703	132.687	132.672	132.656 131.586	131.570	131.555	131.539
	Proposed Bed Level	133.967	133.953	133.939	133.924	133.910	133.896	133.881	133.867	133.853	133.839	133.824	133.810	133.796	133.781	133.767 132.547	132.533	132.519	132.504	132.490	132.476	132.461	132.447	132.433	132.419	132.403	132.387	132.372	132.356 131.286	131.270	131.255	131.239
EXISTING DATA	Bed Level	134.682	134.574	134.459	134.352	134.239	134.131	134.019	133.909	133.808	133.724	133.641	133.558	133.491	133.424	133.339	133.006	132.932	132.856	132.760	132.655	132.550	132.445	132.340	132.235	132.164	132.066	132.042	132.018	131.827	131.715	131.605
	TOP OF BANK LEVEL	135.847	135.644	135.441	135.238	135.035	134.832	134.629	134.472	134.387	134.301	134.286	134.439	134.591	134.744	133.778	133.691	133.605	133.509	133.408	133.307	133.206	133.104	133.004	132.838	132.679	132.669	132.659	132.936	132.767	132.599	131.737
	NSL	135.544	135.437	135.333	135.229	135.124	135.020	134.916	134.811	134.711	134.607	134.502	134.396	134.291	134.186	134.082	133.952	133.789	133.626	133.460	133.295	133.131	132.966	132.802	132.639	132.515	132.393	132.264	132.135	132.026	131.930	131.834
	Chainage IN KM	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500

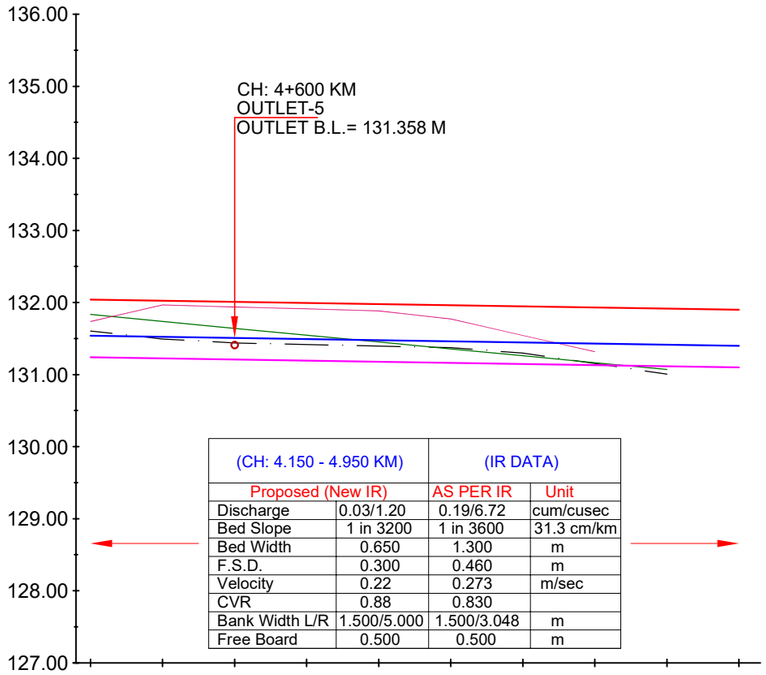
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ LSEC- 03 of 04

L- SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 4+950



(CH: 4.150 - 4.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.03/1.20	0.19/6.72	cum/cusec
Bed Slope	1 in 3200	1 in 3600	31.3 cm/km
Bed Width	0.650	1.300	m
F.S.D.	0.300	0.460	m
Velocity	0.22	0.273	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950
DESIGN DATA	TOP OF BANK LEVEL	132.039	132.024	132.008	131.992	131.977	131.961	131.945	131.930	131.914	131.899
	F.S.L.	131.539	131.524	131.508	131.492	131.477	131.461	131.445	131.430	131.414	131.399
	Proposed Bed Level	131.239	131.224	131.208	131.192	131.177	131.161	131.145	131.130	131.114	131.099
EXISTING DATA	Bed Level	131.605	131.494	131.438	131.417	131.395	131.374	131.298	131.153	131.007	
	TOP OF BANK LEVEL	131.737	131.966	131.938	131.912	131.884	131.771	131.544	131.318		
	NSL	131.834	131.739	131.642	131.547	131.452	131.357	131.262	131.166	131.070	
	Chainage IN KM	4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950

LEGEND

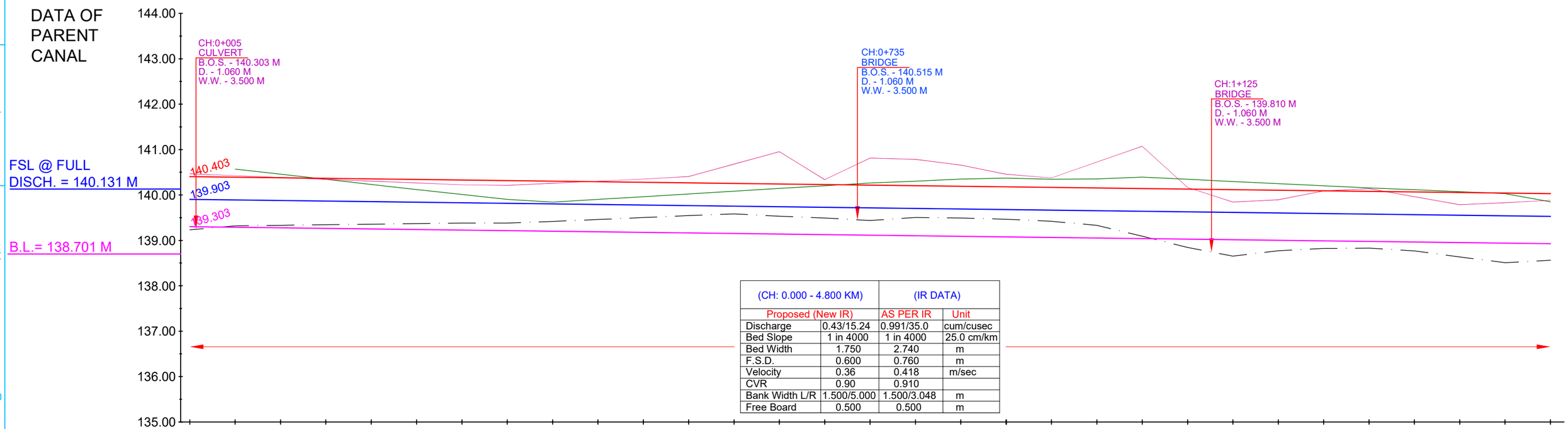
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ LSEC- 04 of 04

KHAIRA MINOR

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 4.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.43/15.24	0.991/35.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.750	2.740	m
F.S.D.	0.600	0.760	m
Velocity	0.36	0.418	m/sec
CVR	0.90	0.910	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL	140.403	140.391	140.378	140.366	140.353	140.341	140.328	140.316	140.303	140.291	140.278	140.266	140.253	140.241	140.228	140.216	140.203	140.191	140.178	140.166	140.153	140.141	140.128	140.116	140.103	140.091	140.078	140.066	140.053	140.041	140.028
	F.S.L.	139.903	139.891	139.878	139.866	139.853	139.841	139.828	139.816	139.803	139.791	139.778	139.766	139.753	139.741	139.728	139.716	139.703	139.691	139.678	139.666	139.653	139.641	139.628	139.616	139.603	139.591	139.578	139.566	139.553	139.541	139.528
	Proposed Bed Level	139.303	139.291	139.278	139.266	139.253	139.241	139.228	139.216	139.203	139.191	139.178	139.166	139.153	139.141	139.128	139.116	139.103	139.091	139.078	139.066	139.053	139.041	139.028	139.016	139.003	138.991	138.978	138.966	138.953	138.941	138.928
EXISTING DATA	Bed Level	139.234	139.320	139.332	139.345	139.357	139.370	139.382	139.395	139.417	139.459	139.502	139.546	139.584	139.531	139.493	139.438	139.505	139.492	139.465	139.420	139.331	139.094	138.845	138.654	138.773	138.821	138.828	138.769	138.635	138.509	138.562
	TOP OF BANK LEVEL	140.467	140.426	140.386	140.345	140.305	140.265	140.224	140.211	140.257	140.304	140.351	140.405	140.679	140.953	140.338	140.813	140.783	140.658	140.456	140.376	140.725	141.073	140.167	139.845	139.895	140.090	140.139	139.962	139.785	139.829	139.882
	NSL		140.570	140.458	140.345	140.233	140.120	140.011	139.902	139.842	139.902	139.962	140.023	140.083	140.143	140.203	140.263	140.305	140.349	140.372	140.346	140.352	140.393	140.346	140.297	140.248	140.202	140.157	140.117	140.073	140.029	139.848
	Chainage IN KM	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500

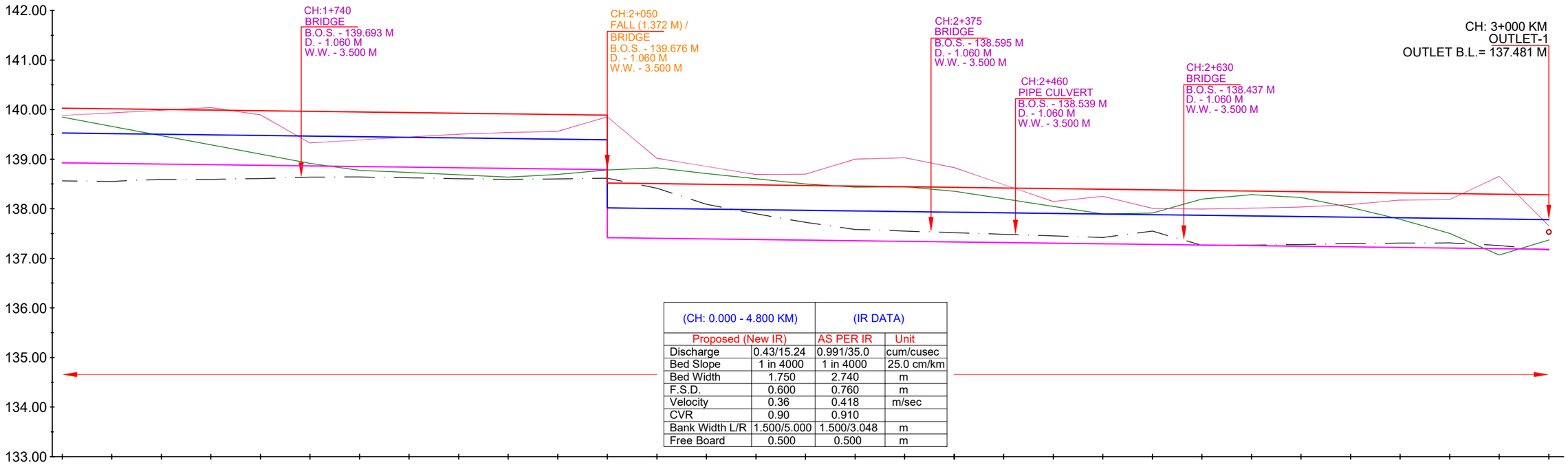
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ LSEC- 01 of 07

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.000 - 4.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.43/15.24	0.991/35.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.750	2.740	m
F.S.D.	0.600	0.760	m
Velocity	0.36	0.418	m/sec
CVR	0.90	0.910	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	140.028	140.016	140.003	139.991	139.978	139.966	139.953	139.941	139.928	139.916	139.903	139.891 138.519	138.506	138.494	138.481	138.469	138.456	138.444	138.431	138.419	138.406	138.394	138.381	138.369	138.356	138.344	138.331	138.319	138.306	138.294	138.281
	F.S.L.	139.528	139.516	139.503	139.491	139.478	139.466	139.453	139.441	139.428	139.416	139.403	139.391 138.019	138.006	137.994	137.981	137.969	137.956	137.944	137.931	137.919	137.906	137.894	137.881	137.869	137.856	137.844	137.831	137.819	137.806	137.794	137.781
	Proposed Bed Level	138.928	138.916	138.903	138.891	138.878	138.866	138.853	138.841	138.828	138.816	138.803	138.791 137.419	137.406	137.394	137.381	137.369	137.356	137.344	137.331	137.319	137.306	137.294	137.281	137.269	137.256	137.244	137.231	137.219	137.206	137.194	137.181
EXISTING DATA	Bed Level	138.562	138.553	138.593	138.593	138.609	138.639	138.641	138.625	138.607	138.592	138.602	138.616	138.415	138.092	137.899	137.726	137.584	137.551	137.518	137.485	137.453	137.420	137.550	137.262	137.267	137.278	137.299	137.309	137.311	137.260	137.167
	TOP OF BANK LEVEL	139.882	139.935	139.988	140.041	139.894	139.328	139.388	139.447	139.506	139.539	139.562	139.856	139.020	138.855	138.690	138.697	139.000	139.028	138.832	138.487	138.146	138.252	138.009	137.996	138.013	138.035	138.087	138.177	138.184	138.654	137.659
	NSL	139.848	139.662	139.476	139.291	139.105	138.917	138.777	138.731	138.685	138.639	138.694	138.781	138.827	138.711	138.606	138.500	138.437	138.445	138.353	138.201	138.049	137.896	137.915	138.195	138.285	138.226	138.025	137.788	137.504	137.066	137.371
	Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

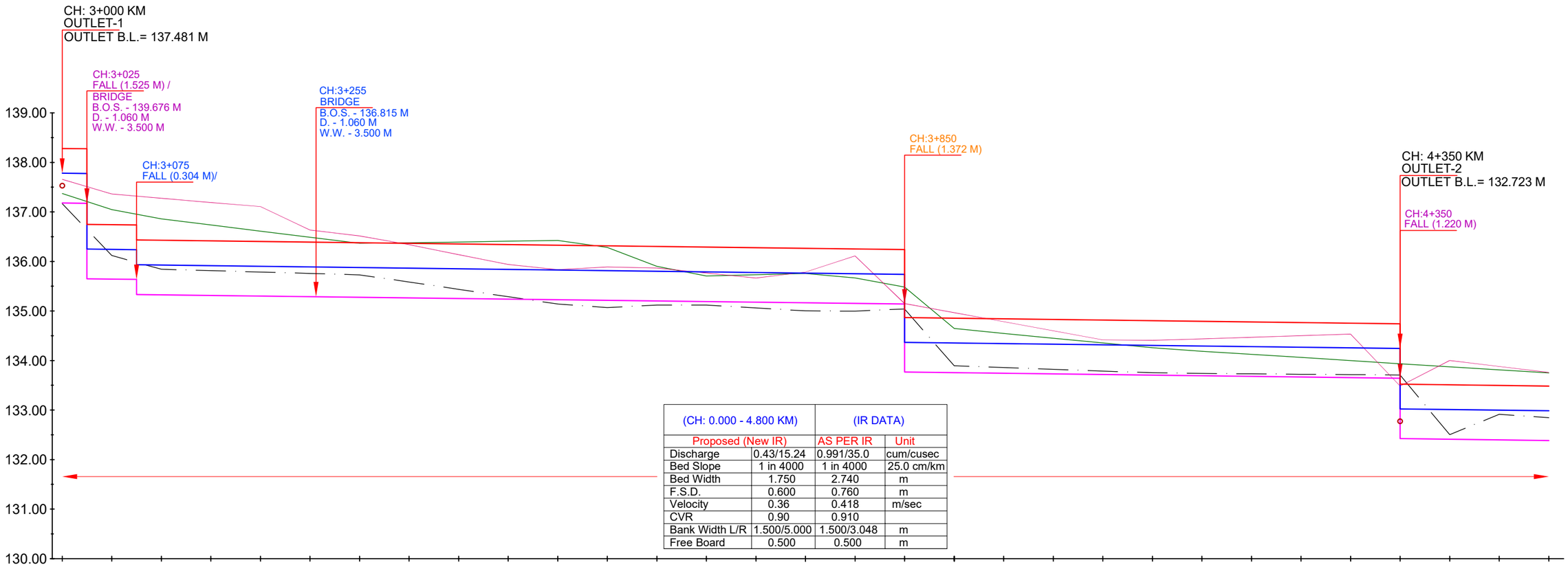
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ LSEC- 02 of 07

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500



(CH: 0.000 - 4.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.43/15.24	0.991/35.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.750	2.740	m
F.S.D.	0.600	0.760	m
Velocity	0.36	0.418	m/sec
CVR	0.90	0.910	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN DATA	TOP OF BANK LEVEL	138.281	138.275 136.750	136.744	136.737 136.433	136.427	136.415	136.402	136.390	136.377	136.365	136.352	136.340	136.327	136.315	136.302	136.290	136.277	136.265	136.252	136.240 134.868	134.855	134.843	134.830	134.818	134.805	134.793	134.780	134.768	134.755	134.743 133.523	133.510	133.498	133.485
	F.S.L.	137.781	137.775 136.250	136.244	136.237 135.933	135.927	135.915	135.902	135.890	135.877	135.865	135.852	135.840	135.827	135.815	135.802	135.790	135.777	135.765	135.752	135.740 134.368	134.355	134.343	134.330	134.318	134.305	134.293	134.280	134.268	134.255	134.243 133.023	133.010	132.998	132.985
	Proposed Bed Level	137.181	137.175 135.650	135.644	135.637 135.333	135.327	135.315	135.302	135.290	135.277	135.265	135.252	135.240	135.227	135.215	135.202	135.190	135.177	135.165	135.152	135.140 133.768	133.755	133.743	133.730	133.718	133.705	133.693	133.680	133.668	133.655	133.643 132.423	132.410	132.398	132.385
EXISTING DATA	Bed Level	137.167	136.121	135.842	135.815	135.786	135.758	135.730	135.586	135.437	135.289	135.140	135.068	135.119	135.121	135.061	135.003	134.996	135.042	133.893	133.858	133.821	133.787	133.753	133.739	133.731	133.723	133.715	133.708	132.503	132.913	132.846
	TOP OF BANK LEVEL	137.659	137.364	137.276	137.189	137.109	136.636	136.515	136.340	136.139	135.938	135.834	135.888	135.869	135.767	135.666	135.787	136.113	135.151	134.968	134.784	134.601	134.417	134.407	134.438	134.470	134.502	134.534	133.485	134.002	133.880	133.758
	NSL	137.371	137.049	136.859	136.736	136.613	136.490	136.367	136.377	136.392	136.408	136.424	136.285	135.900	135.707	135.732	135.756	135.667	135.482	134.646	134.548	134.451	134.354	134.257	134.188	134.125	134.062	133.999	133.935	133.873	133.811	133.751
	Chainage IN KM	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500

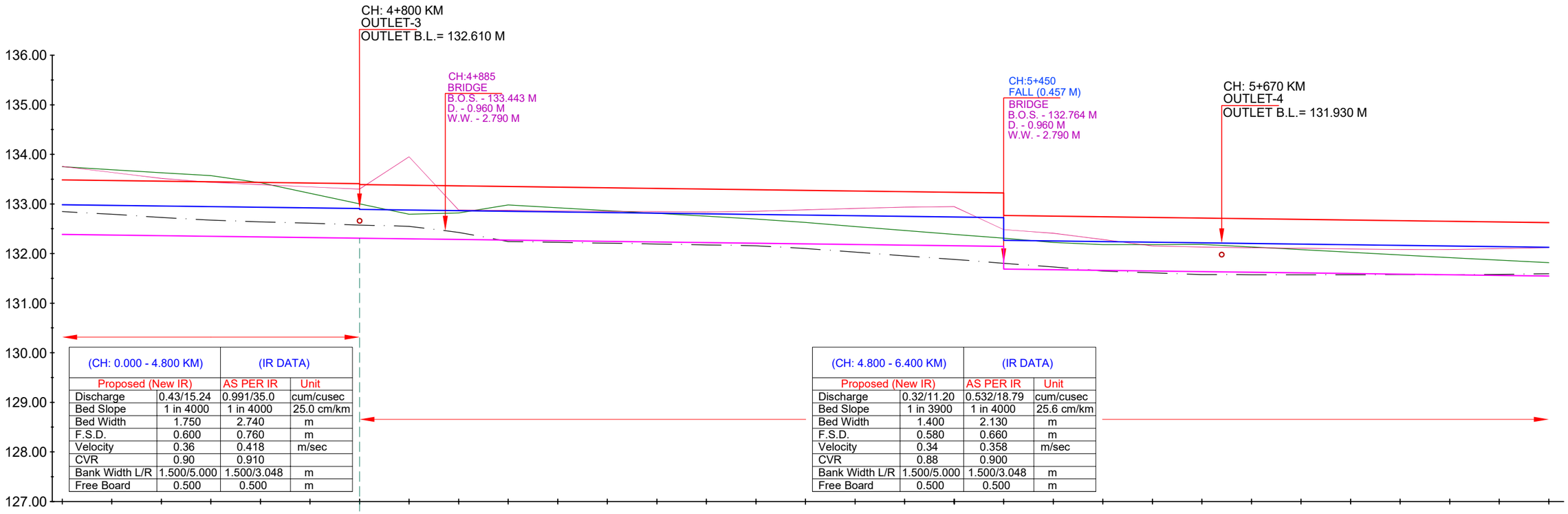
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ LSEC- 03 of 07

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 6+000

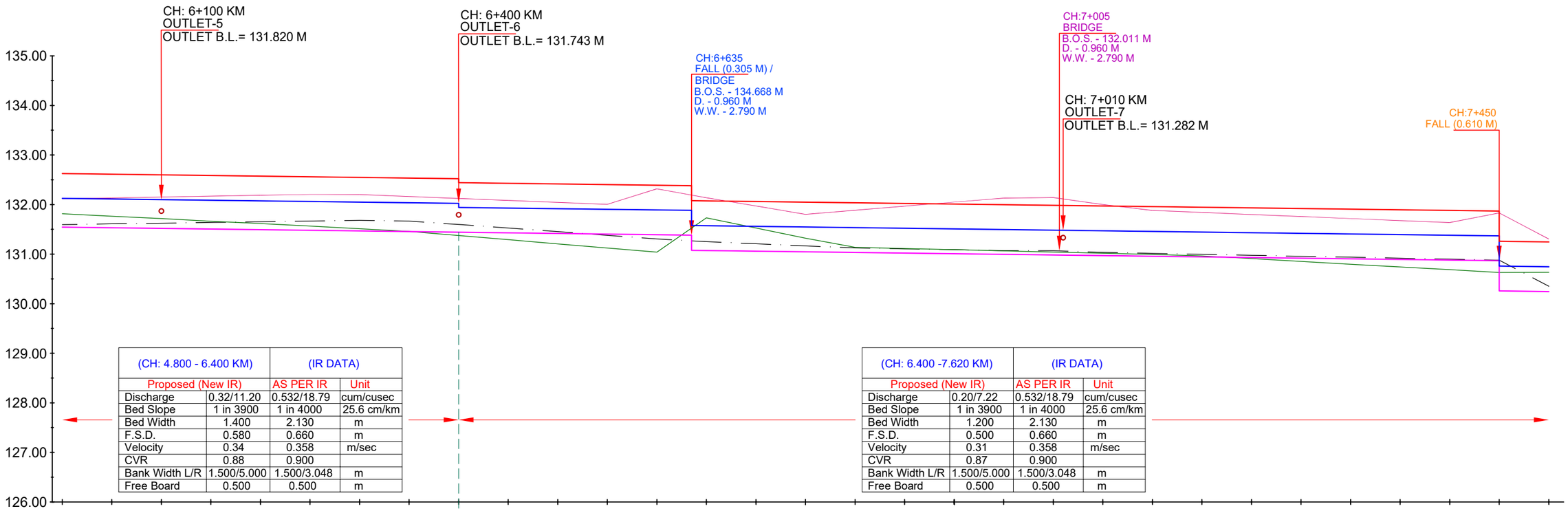


(CH: 0.000 - 4.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.43/15.24	0.991/35.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.750	2.740	m
F.S.D.	0.600	0.760	m
Velocity	0.36	0.418	m/sec
CVR	0.90	0.910	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 4.800 - 6.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.32/11.20	0.532/18.79	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.400	2.130	m
F.S.D.	0.580	0.660	m
Velocity	0.34	0.358	m/sec
CVR	0.88	0.900	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

| | | |

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 6+000 TO 7+500



(CH: 4.800 - 6.400 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.32/11.20	0.532/18.79	cum/cusec
Bed Slope 1 in 3900	1 in 4000	25.6 cm/km
Bed Width 1.400	2.130	m
F.S.D. 0.580	0.660	m
Velocity 0.34	0.358	m/sec
CVR 0.88	0.900	
Bank Width L/R 1.500/5.000	1.500/3.048	m
Free Board 0.500	0.500	m

(CH: 6.400 -7.620 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.20/7.22	0.532/18.79	cum/cusec
Bed Slope 1 in 3900	1 in 4000	25.6 cm/km
Bed Width 1.200	2.130	m
F.S.D. 0.500	0.660	m
Velocity 0.31	0.358	m/sec
CVR 0.87	0.900	
Bank Width L/R 1.500/5.000	1.500/3.048	m
Free Board 0.500	0.500	m

		6+000	6+050	6+100	6+150	6+200	6+250	6+300	6+350	6+400	6+450	6+500	6+550	6+600	6+650	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+200	7+250	7+300	7+350	7+400	7+450	7+500
DESIGN DATA	TOP OF BANK LEVEL	132.626	132.613	132.600	132.587	132.574	132.561	132.549	132.536	132.523	132.430	132.417	132.404	132.392	132.383	132.074	132.061	132.048	132.035	132.023	132.010	131.997	131.984	131.971	131.958	131.946	131.933	131.920	131.907	131.894	131.882	131.869
	F.S.L.	132.126	132.113	132.100	132.087	132.074	132.061	132.049	132.036	132.023	131.930	131.917	131.904	131.892	131.883	131.574	131.561	131.548	131.535	131.523	131.510	131.497	131.484	131.471	131.458	131.446	131.433	131.420	131.407	131.394	131.382	131.369
	Proposed Bed Level	131.546	131.533	131.520	131.507	131.494	131.481	131.469	131.456	131.443	131.430	131.417	131.404	131.392	131.383	131.074	131.061	131.048	131.035	131.023	131.010	130.997	130.984	130.971	130.958	130.946	130.933	130.920	130.907	130.894	130.882	130.869
EXISTING DATA	Bed Level	131.594	131.612	131.624	131.639	131.654	131.667	131.683	131.668	131.597	131.525	131.455	131.378	131.306	131.252	131.209	131.166	131.125	131.106	131.089	131.070	131.053	131.035	131.015	130.997	130.976	130.957	130.939	130.917	130.900	130.879	130.351
	TOP OF BANK LEVEL	132.117	132.134	132.152	132.170	132.187	132.205	132.203	132.163	132.124	132.084	132.045	132.005	132.317	132.137	131.957	131.804	131.885	131.967	132.050	132.132	132.140	132.001	131.882	131.841	131.800	131.759	131.718	131.677	131.637	131.831	131.306
	NSL	131.816	131.766	131.716	131.665	131.615	131.565	131.514	131.459	131.375	131.291	131.207	131.123	131.039	131.731	131.527	131.323	131.138	131.114	131.090	131.066	131.042	131.018	130.994	130.964	130.909	130.853	130.797	130.742	130.686	130.630	130.634
	Chainage IN KM	6+000	6+050	6+100	6+150	6+200	6+250	6+300	6+350	6+400	6+450	6+500	6+550	6+600	6+650	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+200	7+250	7+300	7+350	7+400	7+450	7+500

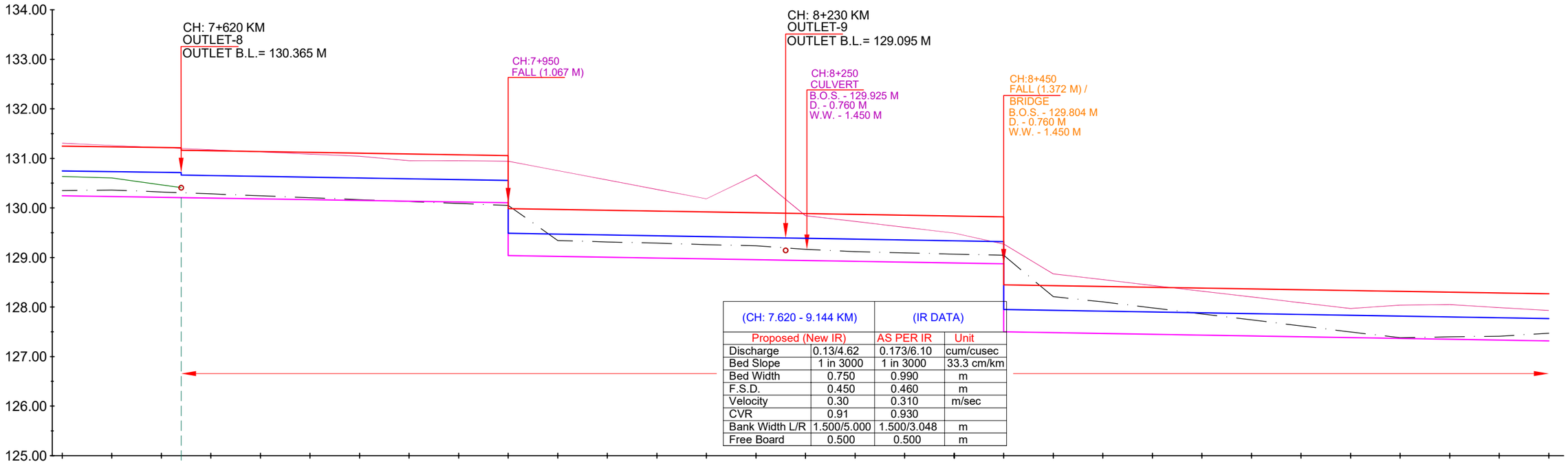
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ LSEC- 05 of 07

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 7+500 TO 9+000



(CH: 7.620 - 9.144 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.13/4.62	0.173/6.10	cum/cusec
Bed Slope	1 in 3000	1 in 3000	33.3 cm/km
Bed Width	0.750	0.990	m
F.S.D.	0.450	0.460	m
Velocity	0.30	0.310	m/sec
CVR	0.91	0.930	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		7+500	7+550	7+600	7+620	7+650	7+700	7+750	7+800	7+850	7+900	7+950	8+000	8+050	8+100	8+150	8+200	8+250	8+300	8+350	8+400	8+450	8+500	8+550	8+600	8+650	8+700	8+750	8+800	8+850	8+900	8+950	9+000
DESIGN DATA	TOP OF BANK LEVEL	131.246	131.233	131.220	131.215 / 131.165	131.155	131.138	131.122	131.105	131.088	131.072	131.055 / 129.988	129.971	129.955	129.938	129.921	129.905	129.888	129.871	129.855	129.838	129.821 / 128.449	128.433	128.416	128.399	128.383	128.366	128.349	128.333	128.316	128.299	128.283	128.266
	F.S.L.	130.746	130.733	130.720	130.715 / 130.665	130.655	130.638	130.622	130.605	130.588	130.572	130.555 / 129.488	129.471	129.455	129.438	129.421	129.405	129.388	129.371	129.355	129.338	129.321 / 127.949	127.933	127.916	127.899	127.883	127.866	127.849	127.833	127.816	127.799	127.783	127.766
	Proposed Bed Level	130.246	130.233	130.220	130.215 / 130.165	130.205	130.188	130.172	130.155	130.138	130.122	130.105 / 129.038	129.021	129.005	128.988	128.971	128.955	128.938	128.921	128.905	128.888	128.871 / 127.499	127.483	127.466	127.449	127.433	127.416	127.399	127.383	127.366	127.349	127.333	127.316
EXISTING DATA	Bed Level	130.351	130.361	130.323		130.284	130.245	130.206	130.168	130.129	130.090	130.051	129.342	129.313	129.290	129.259	129.237	129.165	129.116	129.092	129.068	129.044	128.209	128.104	127.982	127.861	127.740	127.620	127.497	127.380	127.398	127.411	127.470
	TOP OF BANK LEVEL	131.306	131.262	131.219		131.175	131.131	131.087	131.043	130.999	130.955	130.943	130.754	130.564	130.375	130.185	130.668	129.845	129.728	129.610	129.493	129.270	128.669	128.553	128.436	128.320	128.203	128.087	127.970	128.038	128.050	127.990	127.930
	NSL	130.634	130.606	130.466		130.326	130.186	130.046	129.907	129.767	129.627	129.487	129.398	129.461	129.525	129.589	129.652	129.411	129.175	129.071	128.967	128.863	128.759	128.692	128.629	128.566	128.504	128.441	128.379	128.316	128.252	128.663	128.126
	Chainage IN KM	7+500	7+550	7+600	7+620	7+650	7+700	7+750	7+800	7+850	7+900	7+950	8+000	8+050	8+100	8+150	8+200	8+250	8+300	8+350	8+400	8+450	8+500	8+550	8+600	8+650	8+700	8+750	8+800	8+850	8+900	8+950	9+000

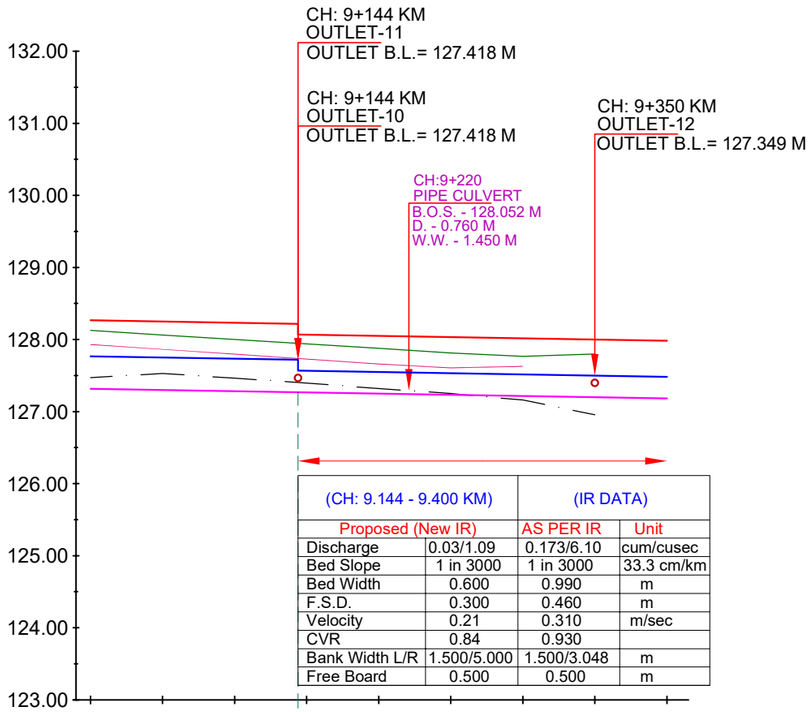
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ LSEC- 06 of 07

L- SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 9+000 TO 9+400



(CH: 9.144 - 9.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.03/1.09	0.173/6.10	cum/cusec
Bed Slope	1 in 3000	1 in 3000	33.3 cm/km
Bed Width	0.600	0.990	m
F.S.D.	0.300	0.460	m
Velocity	0.21	0.310	m/sec
CVR	0.84	0.930	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		9+000	9+050	9+100	9+144	9+150	9+200	9+250	9+300	9+350	9+400
DESIGN DATA	TOP OF BANK LEVEL	128.266	128.249	128.233	128.218	128.068	128.049	128.033	128.016	127.999	127.983
	F.S.L.	127.766	127.749	127.733	127.718	127.568	127.549	127.533	127.516	127.499	127.483
	Proposed Bed Level	127.316	127.299	127.283	127.268	127.266	127.249	127.233	127.216	127.199	127.183
EXISTING DATA	Bed Level	127.470	127.529	127.463		127.396	127.319	127.251	127.160	126.956	
	TOP OF BANK LEVEL	127.930	127.864	127.796		127.729	127.661	127.607	127.629		
	NSL	128.126	128.063	128.001		127.939	127.877	127.814	127.767	127.799	
	Chainage IN KM										

LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

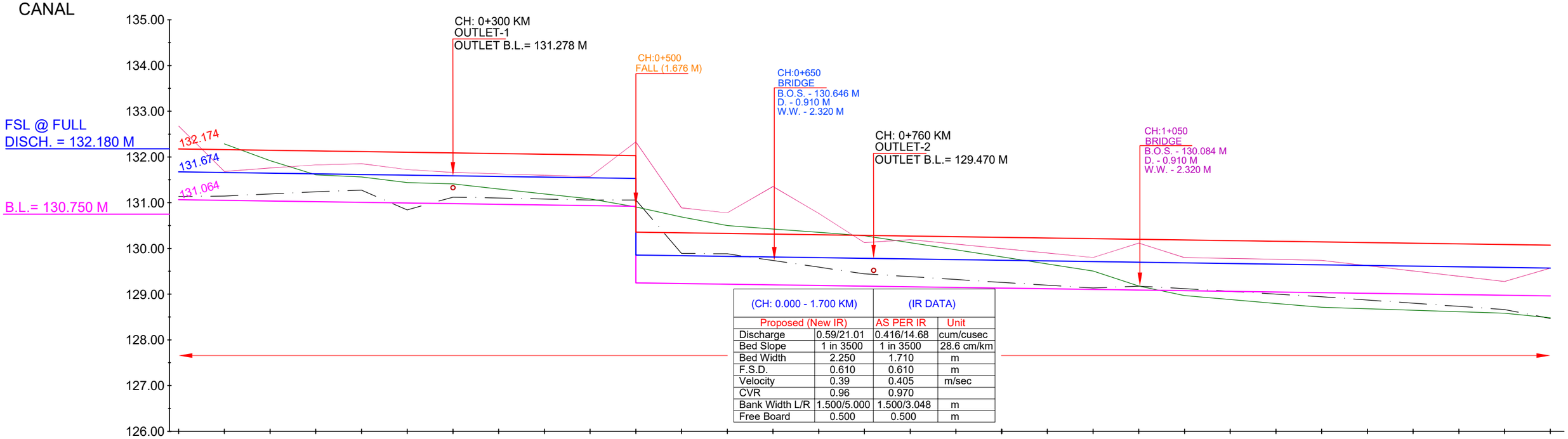
IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ LSEC- 07 of 07

GAMHARIYA MINOR

L- SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500

DATA OF PARENT CANAL



(CH: 0.000 - 1.700 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.59/21.01	0.416/14.68	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	2.250	1.710	m
F.S.D.	0.610	0.610	m
Velocity	0.39	0.405	m/sec
CVR	0.96	0.970	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		Chainage IN KM	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL		132.174	132.159	132.145	132.131	132.116	132.102	132.088	132.074	132.059	132.045	132.031 130.355	130.340	130.326	130.312	130.298	130.283	130.269	130.255	130.240	130.226	130.212	130.198	130.183	130.169	130.155	130.140	130.126	130.112	130.098	130.083	130.069
	F.S.L.		131.674	131.659	131.645	131.631	131.616	131.602	131.588	131.574	131.559	131.545	131.531 129.855	129.840	129.826	129.812	129.798	129.783	129.769	129.755	129.740	129.726	129.712	129.698	129.683	129.669	129.655	129.640	129.626	129.612	129.598	129.583	129.569
	Proposed Bed Level		131.064	131.049	131.035	131.021	131.006	130.992	130.978	130.964	130.949	130.935	130.921 129.245	129.230	129.216	129.202	129.188	129.173	129.159	129.145	129.130	129.116	129.102	129.088	129.073	129.059	129.045	129.030	129.016	129.002	128.988	128.973	128.959
EXISTING DATA	Bed Level		131.136	131.144	131.193	131.237	131.273	130.841	131.121	131.101	131.080	131.060	130.772	129.892	129.882	129.736	129.590	129.444	129.384	129.320	129.256	129.196	129.134	129.174	129.121	129.062	129.002	128.942	128.872	128.802	128.733	128.663	128.468
	TOP OF BANK LEVEL		132.676	131.685	131.760	131.826	131.854	131.725	131.663	131.631	131.600	131.569	132.330	130.887	130.777	131.354	130.766	130.127	130.191	130.094	129.996	129.899	129.801	130.116	129.798	129.781	129.764	129.738	129.622	129.507	129.391	129.275	
	NSL			132.287	131.919	131.610	131.561	131.439	131.411	131.301	131.192	131.082	130.908	130.687	130.498	130.423	130.352	130.278	130.124	129.970	129.816	129.661	129.507	129.179	128.968	128.882	128.795	128.712	128.680	128.647	128.615	128.582	128.481

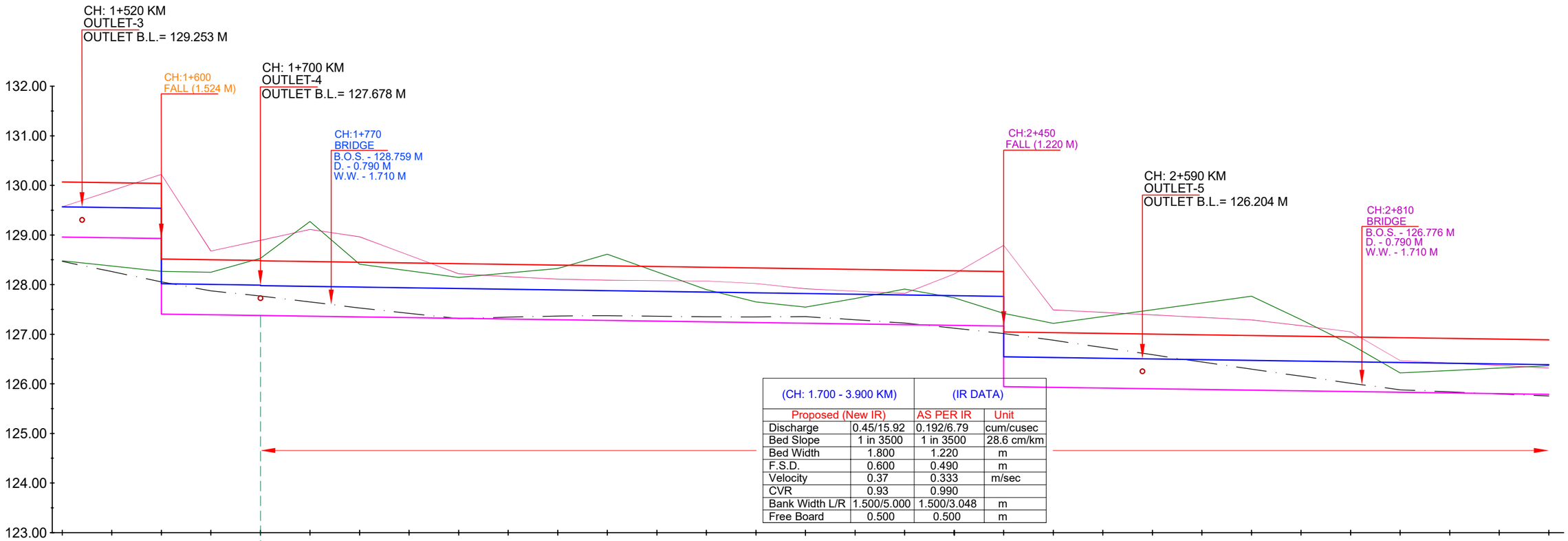
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ LSEC- 01 of 05

L- SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 1.700 - 3.900 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.45/15.92	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.800	1.220	m
F.S.D.	0.600	0.490	m
Velocity	0.37	0.333	m/sec
CVR	0.93	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	130.069	130.055	130.040 128.516	128.502	128.488 128.478	128.464	128.449	128.435	128.421	128.406	128.392	128.378	128.364	128.349	128.335	128.321	128.306	128.292	128.278	128.264 127.044	127.029	127.015	127.001	126.986	126.972	126.958	126.944	126.929	126.915	126.901	126.886
	F.S.L.	129.569	129.555	129.540 128.016	128.002	127.988 127.978	127.964	127.949	127.935	127.921	127.906	127.892	127.878	127.864	127.849	127.835	127.821	127.806	127.792	127.778	127.764 126.544	126.529	126.515	126.501	126.486	126.472	126.458	126.444	126.429	126.415	126.401	126.386
	Proposed Bed Level	128.959	128.945	128.930 127.406	127.392	127.378	127.364	127.349	127.335	127.321	127.306	127.292	127.278	127.264	127.249	127.235	127.221	127.206	127.192	127.178	127.164 125.944	125.929	125.915	125.901	125.886	125.872	125.858	125.844	125.829	125.815	125.801	125.786
EXISTING DATA	Bed Level	128.468	128.262	128.056	127.873	127.770	127.650	127.529	127.421	127.315	127.343	127.368	127.375	127.363	127.351	127.349	127.354	127.292	127.225	127.121	127.013	126.879	126.733	126.587	126.441	126.295	126.154	126.013	125.880	125.838	125.795	125.754
	TOP OF BANK LEVEL	129.568	129.895	130.222	128.676	128.894	129.112	128.964	128.592	128.219	128.162	128.110	128.088	128.080	128.073	128.022	127.915	127.867	127.823	128.214	128.791	127.490	127.440	127.389	127.339	127.288	127.173	127.050	126.469	126.419	126.370	
	NSL	128.481	128.374	128.267	128.249	128.530	129.274	128.413	128.279	128.144	128.235	128.324	128.614	128.257	127.899	127.651	127.546	127.719	127.910	127.734	127.419	127.219	127.356	127.493	127.630	127.767	127.295	126.793	126.219	126.268	126.318	126.365
	Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

LEGEND

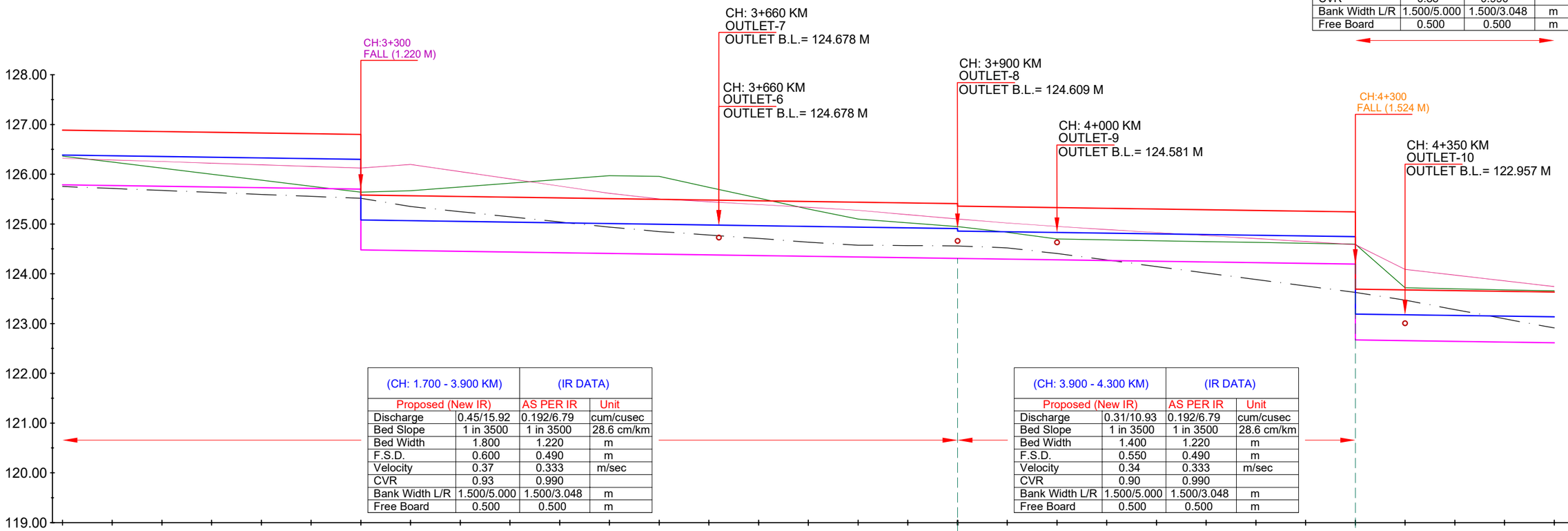
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ LSEC- 02 of 05

L- SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500

(CH: 4.300 - 4.570 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.23/8.18	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.200	1.220	m
F.S.D.	0.520	0.490	m
Velocity	0.32	0.333	m/sec
CVR	0.88	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m



(CH: 1.700 - 3.900 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.45/15.92	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.800	1.220	m
F.S.D.	0.600	0.490	m
Velocity	0.37	0.333	m/sec
CVR	0.93	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 3.900 - 4.300 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.31/10.93	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.400	1.220	m
F.S.D.	0.550	0.490	m
Velocity	0.34	0.333	m/sec
CVR	0.90	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN DATA	TOP OF BANK LEVEL	126.886	126.872	126.858	126.844	126.829	126.815	126.801	125.581	125.566	125.552	125.538	125.524	125.509	125.495	125.481	125.466	125.452	125.438	125.424	125.409	125.359	125.345	125.331	125.316	125.302	125.288	125.274	125.259	125.245	123.691	123.677	123.662	123.648	123.634
	F.S.L.	126.386	126.372	126.358	126.344	126.329	126.315	126.301	125.081	125.066	125.052	125.038	125.024	125.009	124.995	124.981	124.966	124.952	124.938	124.924	124.909	124.859	124.845	124.831	124.816	124.802	124.788	124.774	124.759	124.745	123.191	123.177	123.162	123.148	123.134
	Proposed Bed Level	125.786	125.772	125.758	125.744	125.729	125.715	125.701	124.481	124.466	124.452	124.438	124.424	124.409	124.395	124.381	124.366	124.352	124.338	124.324	124.309	124.295	124.281	124.266	124.252	124.238	124.224	124.209	124.195	122.671	122.657	122.642	122.628	122.614	
EXISTING DATA	Bed Level	125.754	125.715	125.675	125.635	125.595	125.556	125.516	125.352	125.248	125.145	125.042	124.937	124.849	124.778	124.709	124.636	124.574	124.567	124.560	124.521	124.407	124.277	124.146	124.016	123.886	123.756	123.626	123.470	123.281	123.096	122.912			
	TOP OF BANK LEVEL	126.321	126.288	126.256	126.223	126.191	126.158	126.126	126.198	126.053	125.908	125.763	125.618	125.504	125.448	125.392	125.336	125.277	125.189	125.102	125.021	124.952	124.890	124.830	124.769	124.708	124.647	124.586	124.090	123.974	123.858				
	NSL	126.365	126.244	126.123	126.002	125.881	125.760	125.639	125.670	125.746	125.821	125.897	125.973	125.957	125.739	125.520	125.302	125.100	125.025	124.950	124.832	124.701	124.683	124.665	124.647	124.630	124.612	124.594	123.719	123.699	123.678	123.658			
	Chainage IN KM	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500

LEGEND

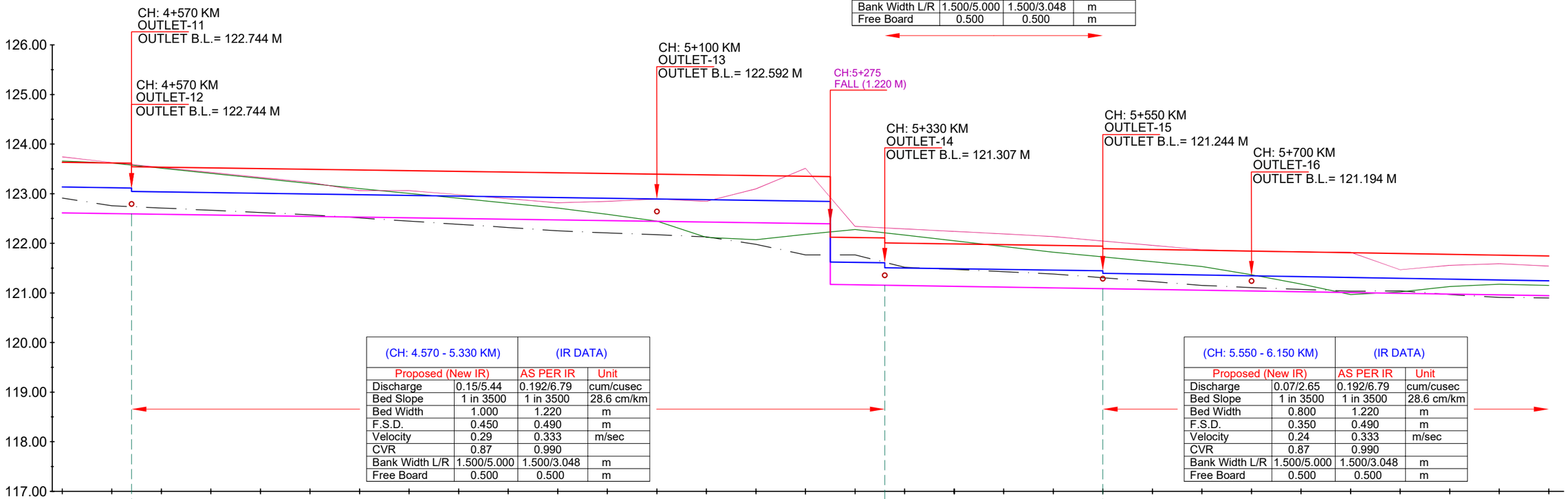
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ LSEC- 03 of 05

L- SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 6+000

(CH: 5.330 - 5.550 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.07/2.65	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.800	1.220	m
F.S.D.	0.350	0.490	m
Velocity	0.24	0.333	m/sec
CVR	0.87	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

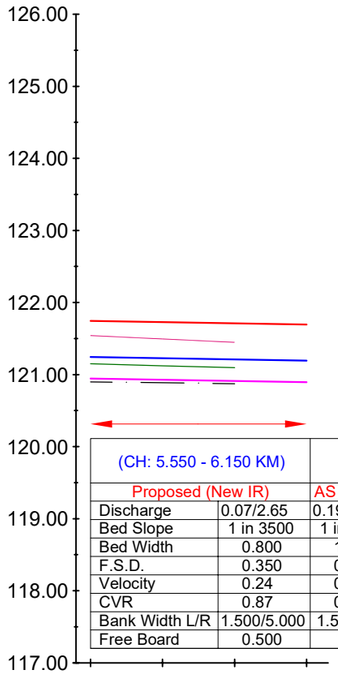


(CH: 4.570 - 5.330 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.15/5.44	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.000	1.220	m
F.S.D.	0.450	0.490	m
Velocity	0.29	0.333	m/sec
CVR	0.87	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 5.550 - 6.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.07/2.65	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.800	1.220	m
F.S.D.	0.350	0.490	m
Velocity	0.24	0.333	m/sec
CVR	0.87	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

| | | |

L- SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 6+000 TO 6+150



(CH: 5.550 - 6.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.07/2.65	0.192/6.79	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.800	1.220	m
F.S.D.	0.350	0.490	m
Velocity	0.24	0.333	m/sec
CVR	0.87	0.990	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DESIGN DATA	TOP OF BANK LEVEL	121.744	121.727	121.711	121.694
	F.S.L.	121.244	121.227	121.211	121.194
	Proposed Bed Level	120.944	120.927	120.911	120.894
EXISTING DATA	Bed Level	120.898	120.886	120.874	
	TOP OF BANK LEVEL	121.541	121.495	121.448	
	NSL	121.150	121.123	121.095	
	Chainage IN KM	6+000	6+050	6+100	6+150

LEGEND

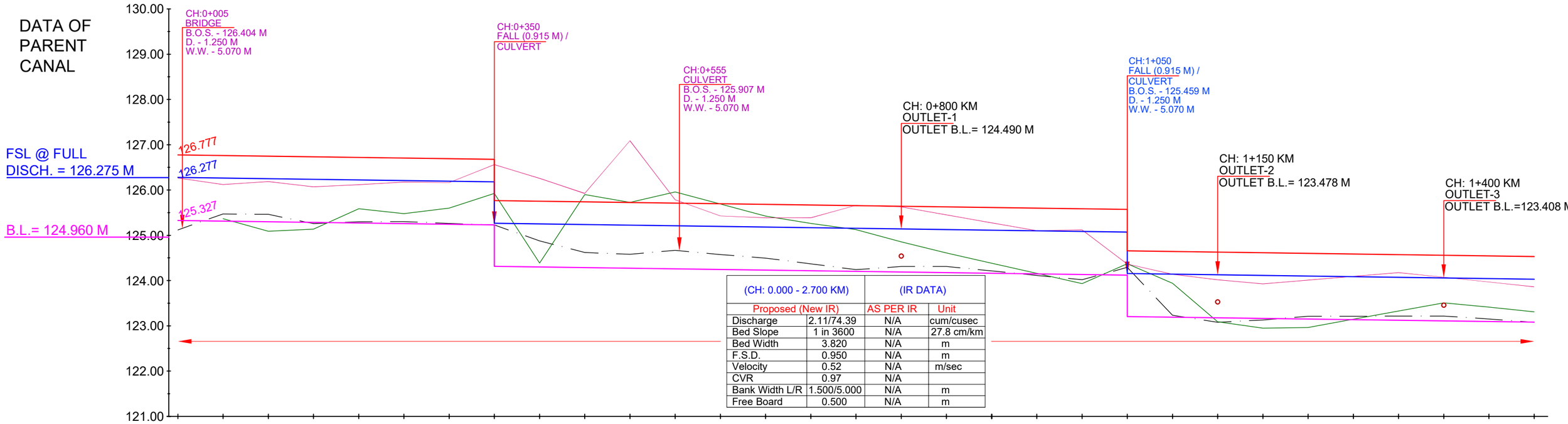
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ LSEC- 05 of 05

PRITAMPURA SUB DY.

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 2.700 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	2.11/74.39	N/A	cum/cusec
Bed Slope	1 in 3600	N/A	27.8 cm/km
Bed Width	3.820	N/A	m
F.S.D.	0.950	N/A	m
Velocity	0.52	N/A	m/sec
CVR	0.97	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

DESIGN DATA	TOP OF BANK LEVEL	126.777	126.763	126.749	126.735	126.721	126.708	126.694	126.680	126.765	125.751	125.737	125.723	125.709	125.695	125.681	125.668	125.654	125.640	125.626	125.612	125.598	125.584	125.570	124.655	124.641	124.628	124.614	124.600	124.586	124.572	124.558	124.544	124.530
	F.S.L.	126.277	126.263	126.249	126.235	126.221	126.208	126.194	126.180	125.265	125.251	125.237	125.223	125.209	125.195	125.181	125.168	125.154	125.140	125.126	125.112	125.098	125.084	125.070	124.155	124.141	124.128	124.114	124.100	124.086	124.072	124.058	124.044	124.030
	Proposed Bed Level	125.327	125.313	125.299	125.285	125.271	125.258	125.244	125.230	124.315	124.301	124.287	124.273	124.259	124.245	124.231	124.218	124.204	124.190	124.176	124.162	124.148	124.134	124.120	123.205	123.191	123.178	123.164	123.150	123.136	123.122	123.108	123.094	123.080
EXISTING DATA	Bed Level	125.119	125.471	125.462	125.257	125.298	125.301	125.263	125.228	124.878	124.619	124.582	124.666	124.574	124.496	124.370	124.241	124.310	124.312	124.214	124.114	124.018	124.291	123.232	123.078	123.130	123.211	123.213	123.214	123.216	123.152	123.080		
	TOP OF BANK LEVEL	126.267	126.122	126.187	126.071	126.117	126.176	126.163	126.560	126.258	125.925	127.089	125.784	125.428	125.387	125.386	125.662	125.628	125.452	125.276	125.101	125.121	124.365	124.141	124.016	123.926	124.009	124.092	124.176	124.073	123.968	123.863		
	NSL		125.368	125.088	125.136	125.585	125.479	125.601	125.926	124.388	125.900	125.725	125.956	125.692	125.423	125.263	125.125	124.854	124.609	124.383	124.158	123.933	124.373	123.939	123.089	122.947	122.964	123.145	123.326	123.507	123.415	123.310		
	Chainage IN KM	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500		

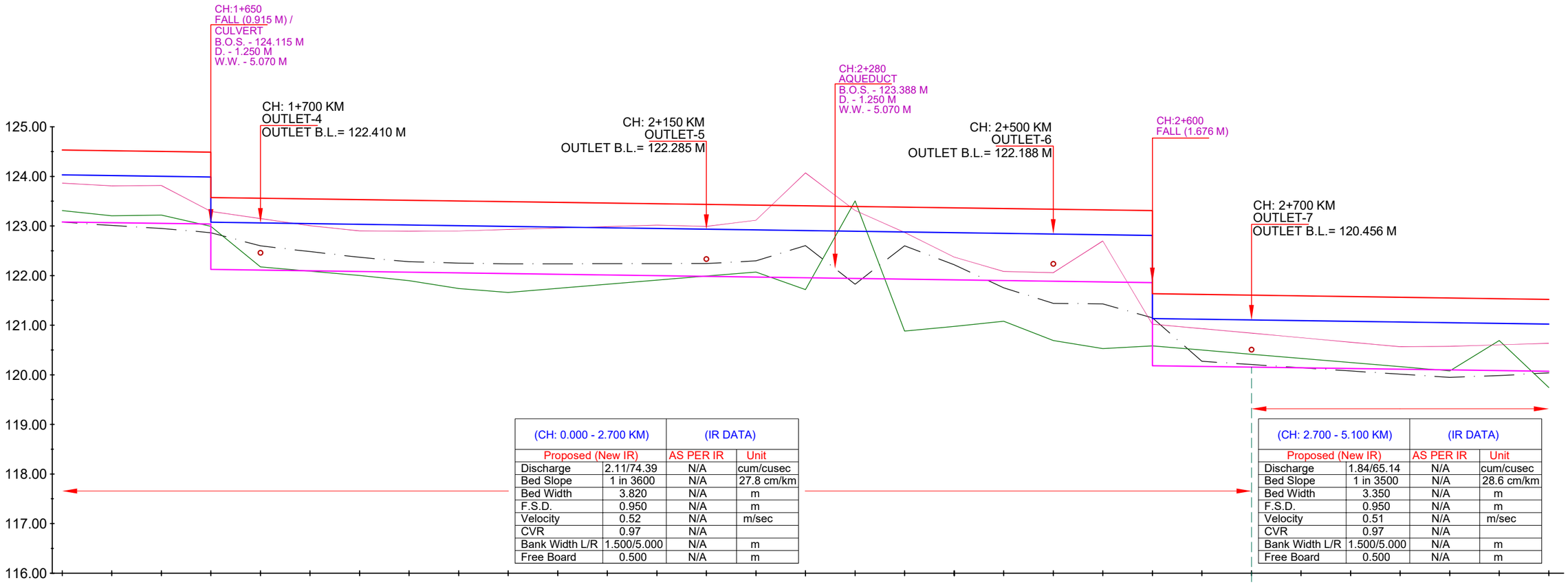
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 01 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.000 - 2.700 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	2.11/74.39	N/A	cum/cusec
Bed Slope	1 in 3600	N/A	27.8 cm/km
Bed Width	3.820	N/A	m
F.S.D.	0.950	N/A	m
Velocity	0.52	N/A	m/sec
CVR	0.97	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 2.700 - 5.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.84/65.14	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	3.350	N/A	m
F.S.D.	0.950	N/A	m
Velocity	0.51	N/A	m/sec
CVR	0.97	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	124.530	124.516	124.503	124.489 123.574	123.560	123.546	123.532	123.518	123.504	123.490	123.476	123.463	123.449	123.435	123.421	123.407	123.393	123.379	123.365	123.351	123.338	123.324	123.310 121.634	121.620	121.606	121.592	121.577	121.563	121.549	121.535	121.520
	F.S.L.	124.030	124.016	124.003	123.989 123.074	123.060	123.046	123.032	123.018	123.004	122.990	122.976	122.963	122.949	122.935	122.921	122.907	122.893	122.879	122.865	122.851	122.838	122.824	122.810 121.134	121.120	121.106	121.092	121.077	121.063	121.049	121.035	121.020
	Proposed Bed Level	123.080	123.066	123.053	123.039 122.124	122.110	122.096	122.082	122.068	122.054	122.040	122.026	122.013	121.999	121.985	121.971	121.957	121.943	121.929	121.915	121.901	121.888	121.874	121.860 120.184	120.170	120.156	120.142	120.127	120.113	120.099	120.085	120.070
EXISTING DATA	Bed Level	123.080	123.010	122.951	122.865	122.600	122.484	122.369	122.280	122.252	122.235	122.237	122.239	122.240	122.244	122.297	122.604	121.827	122.602	122.217	121.755	121.440	121.431	121.150	120.271	120.207	120.142	120.077	120.013	119.949	119.983	120.040
	TOP OF BANK LEVEL	123.863	123.810	123.818	123.293	123.149	123.005	122.902	122.895	122.900	122.929	122.958	122.987	123.016	122.991	123.116	124.071	123.314	122.872	122.373	122.085	122.058	122.698	121.021	120.931	120.839	120.748	120.657	120.566	120.574	120.605	120.636
	NSL	123.310	123.205	123.220	122.993	122.174	122.088	122.003	121.899	121.739	121.661	121.744	121.827	121.910	121.990	122.072	121.718	123.505	120.880	120.977	121.081	120.691	120.528	120.583	120.498	120.414	120.330	120.246	120.163	120.079	120.689	119.742
	Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

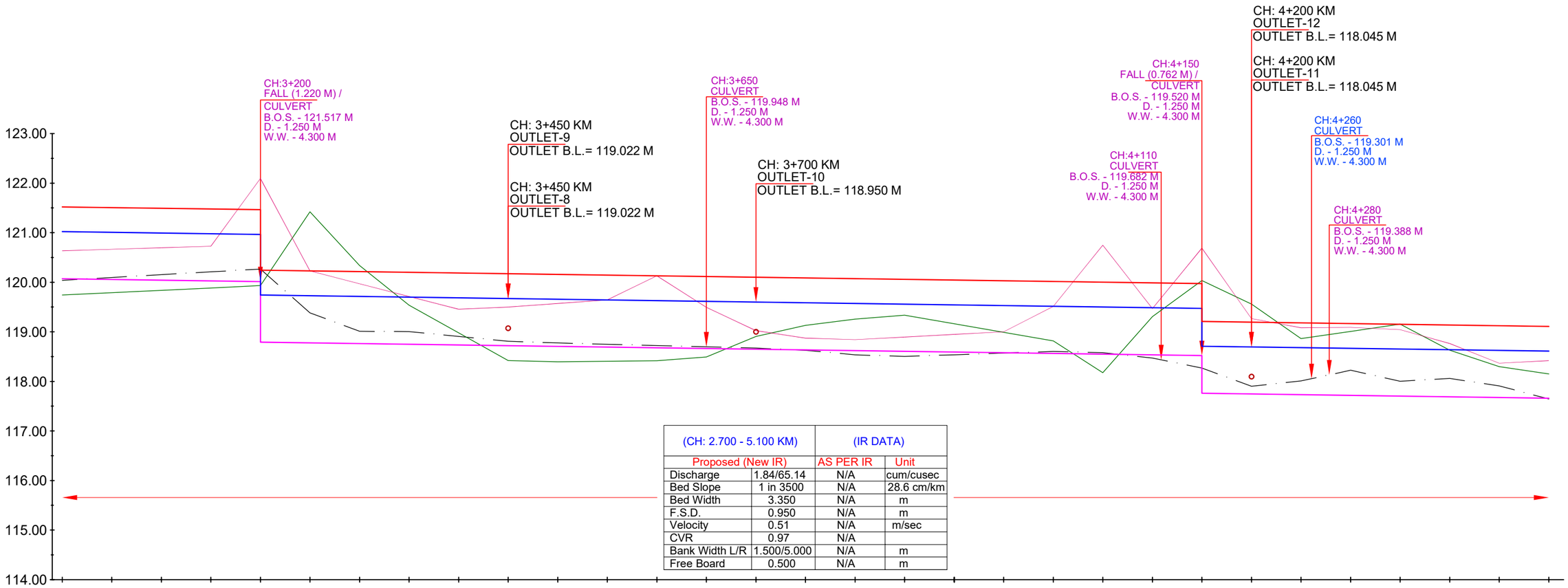
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 02 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500



(CH: 2.700 - 5.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.84/65.14	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	3.350	N/A	m
F.S.D.	0.950	N/A	m
Velocity	0.51	N/A	m/sec
CVR	0.97	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

		3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN DATA	TOP OF BANK LEVEL	121.520	121.506	121.492	121.477	121.463 120.243	120.229	120.215	120.200	120.186	120.172	120.157	120.143	120.129	120.115	120.100	120.086	120.072	120.057	120.043	120.029	120.015	120.000	119.986	119.972 119.210	119.195	119.181	119.167	119.153	119.138	119.124	119.110
	F.S.L.	121.020	121.006	120.992	120.977	120.963 119.743	119.729	119.715	119.700	119.686	119.672	119.657	119.643	119.629	119.615	119.600	119.586	119.572	119.557	119.543	119.529	119.515	119.500	119.486	119.472 118.710	118.695	118.681	118.667	118.653	118.638	118.624	118.610
	Proposed Bed Level	120.070	120.056	120.042	120.027	120.013 118.793	118.779	118.765	118.750	118.736	118.722	118.707	118.693	118.679	118.665	118.650	118.636	118.622	118.607	118.593	118.579	118.565	118.550	118.536	118.522 117.760	117.745	117.731	117.717	117.703	117.688	117.674	117.660
EXISTING DATA	Bed Level	120.040	120.096	120.153	120.210	120.267	119.382	119.010	119.006	118.908	118.809	118.776	118.749	118.723	118.698	118.672	118.627	118.536	118.504	118.537	118.571	118.605	118.579	118.472	118.270	117.901	118.008	118.225	118.004	118.060	117.910	117.644
	TOP OF BANK LEVEL	120.636	120.666	120.696	120.727	122.096	120.230	119.970	119.713	119.456	119.499	119.571	119.645	120.130	119.494	119.023	118.873	118.842	118.895	118.948	119.001	119.512	120.749	119.469	120.690	119.268	119.082	119.091	119.044	118.765	118.367	118.420
	NSL	119.742	119.790	119.837	119.885	119.933	121.423	120.337	119.537	118.979	118.422	118.395	118.406	118.418	118.492	118.907	119.132	119.257	119.337	119.164	118.990	118.817	118.176	119.306	120.034	119.560	118.864	119.007	119.155	118.630	118.299	118.152
	Chainage IN KM																															

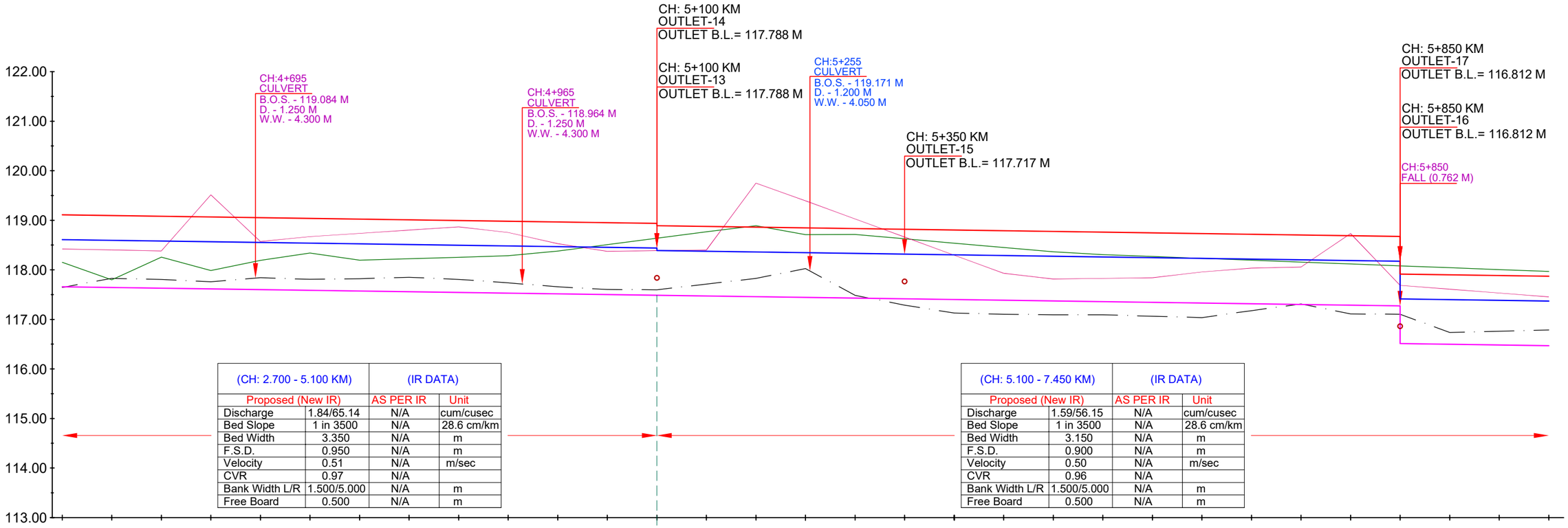
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 03 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 6+000



(CH: 2.700 - 5.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.84/65.14	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	3.350	N/A	m
F.S.D.	0.950	N/A	m
Velocity	0.51	N/A	m/sec
CVR	0.97	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 5.100 - 7.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.59/56.15	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	3.150	N/A	m
F.S.D.	0.900	N/A	m
Velocity	0.50	N/A	m/sec
CVR	0.96	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

		4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950	5+000	5+050	5+100	5+150	5+200	5+250	5+300	5+350	5+400	5+450	5+500	5+550	5+600	5+650	5+700	5+750	5+800	5+850	5+900	5+950	6+000
DESIGN DATA	TOP OF BANK LEVEL	119.110	119.095	119.081	119.067	119.053	119.038	119.024	119.010	118.995	118.981	118.967	118.953	118.938 / 118.888	118.874	118.860	118.845	118.831	118.817	118.803	118.788	118.774	118.760	118.745	118.731	118.717	118.703	118.688	118.674 / 117.912	117.898	117.883	117.869
	F.S.L.	118.610	118.595	118.581	118.567	118.553	118.538	118.524	118.510	118.495	118.481	118.467	118.453	118.438 / 118.388	118.374	118.360	118.345	118.331	118.317	118.303	118.288	118.274	118.260	118.245	118.231	118.217	118.203	118.188	118.174 / 117.412	117.398	117.383	117.369
	Proposed Bed Level	117.660	117.645	117.631	117.617	117.603	117.588	117.574	117.560	117.545	117.531	117.517	117.503	117.488	117.474	117.460	117.445	117.431	117.417	117.403	117.388	117.374	117.360	117.345	117.331	117.317	117.303	117.288	117.274 / 116.512	116.498	116.483	116.469
EXISTING DATA	Bed Level	117.644	117.828	117.805	117.759	117.842	117.808	117.822	117.850	117.807	117.738	117.658	117.603	117.598	117.712	117.827	118.025	117.486	117.288	117.129	117.104	117.093	117.092	117.064	117.036	117.177	117.311	117.110	117.105	116.735	116.760	116.786
	TOP OF BANK LEVEL	118.420	118.401	118.382	119.513	118.572	118.671	118.736	118.802	118.868	118.754	118.529	118.374	118.387	118.400	119.751	119.394	119.028	118.663	118.296	117.931	117.815	117.828	117.842	117.968	118.035	118.056	118.733	117.687	117.610	117.532	117.455
	NSL	118.152	117.799	118.257	117.987	118.192	118.338	118.195	118.224	118.254	118.284	118.379	118.509	118.638	118.767	118.891	118.710	118.713	118.626	118.539	118.452	118.363	118.308	118.270	118.232	118.194	118.155	118.118	118.080	118.043	118.005	117.967
	Chainage IN KM	4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950	5+000	5+050	5+100	5+150	5+200	5+250	5+300	5+350	5+400	5+450	5+500	5+550	5+600	5+650	5+700	5+750	5+800	5+850	5+900	5+950	6+000

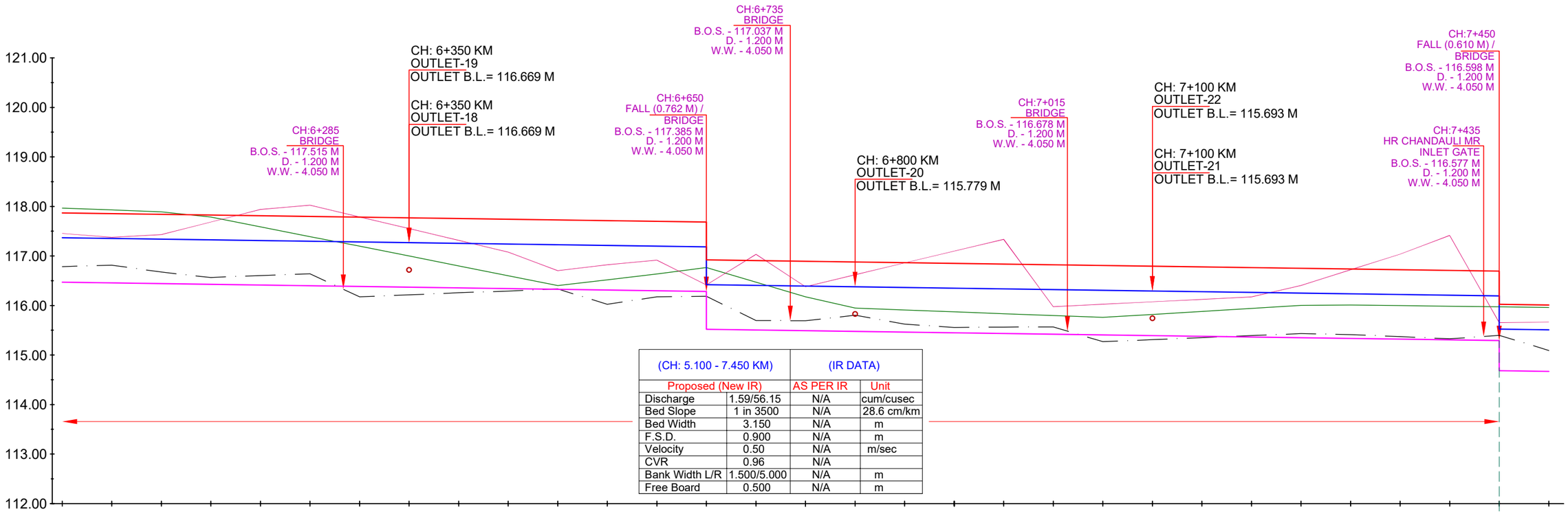
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 04 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 6+000 TO 7+500



(CH: 5.100 - 7.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.59/56.15	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	3.150	N/A	m
F.S.D.	0.900	N/A	m
Velocity	0.50	N/A	m/sec
CVR	0.96	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

		6+000	6+050	6+100	6+150	6+200	6+250	6+300	6+350	6+400	6+450	6+500	6+550	6+600	6+650	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+200	7+250	7+300	7+350	7+400	7+450	7+500
DESIGN DATA	TOP OF BANK LEVEL	117.869	117.855	117.841	117.826	117.812	117.798	117.783	117.769	117.755	117.741	117.726	117.712	117.698	117.683 / 116.921	116.907	116.893	116.879	116.864	116.850	116.836	116.821	116.807	116.793	116.779	116.764	116.750	116.736	116.721	116.707	116.697 / 116.693	116.009
	F.S.L.	117.369	117.355	117.341	117.326	117.312	117.298	117.283	117.269	117.255	117.241	117.226	117.212	117.198	117.183 / 116.421	116.407	116.393	116.379	116.364	116.350	116.336	116.321	116.307	116.293	116.279	116.264	116.250	116.236	116.221	116.207	116.197 / 116.193 / 115.523	115.509
	Proposed Bed Level	116.469	116.455	116.441	116.426	116.412	116.398	116.383	116.369	116.355	116.341	116.326	116.312	116.298	116.283 / 115.521	115.507	115.493	115.479	115.464	115.450	115.436	115.421	115.407	115.393	115.379	115.364	115.350	115.336	115.321	115.307	115.297 / 115.293 / 114.683	114.669
EXISTING DATA	Bed Level	116.786	116.814	116.675	116.565	116.606	116.641	116.175	116.215	116.257	116.292	116.334	116.024	116.174	116.185	115.697	115.693	115.803	115.624	115.556	115.564	115.567	115.270	115.310	115.351	115.392	115.432	115.413	115.372	115.327	115.398	115.092
	TOP OF BANK LEVEL	117.455	117.377	117.432	117.685	117.939	118.026	117.789	117.553	117.316	117.079	116.702	116.822	116.917	116.416	117.033	116.380	116.620	116.860	117.098	117.336	115.975	116.025	116.075	116.125	116.175	116.405	116.721	117.037	117.415	115.655	115.664
	NSL	117.967	117.929	117.892	117.785	117.587	117.388	117.199	116.999	116.800	116.600	116.402	116.516	116.636	116.766	116.471	116.177	115.947	115.909	115.871	115.834	115.798	115.760	115.819	115.880	115.941	116.002	116.011	115.998	115.986	115.974	115.961
	Chainage IN KM	6+000	6+050	6+100	6+150	6+200	6+250	6+300	6+350	6+400	6+450	6+500	6+550	6+600	6+650	6+700	6+750	6+800	6+850	6+900	6+950	7+000	7+050	7+100	7+150	7+200	7+250	7+300	7+350	7+400	7+450	7+500

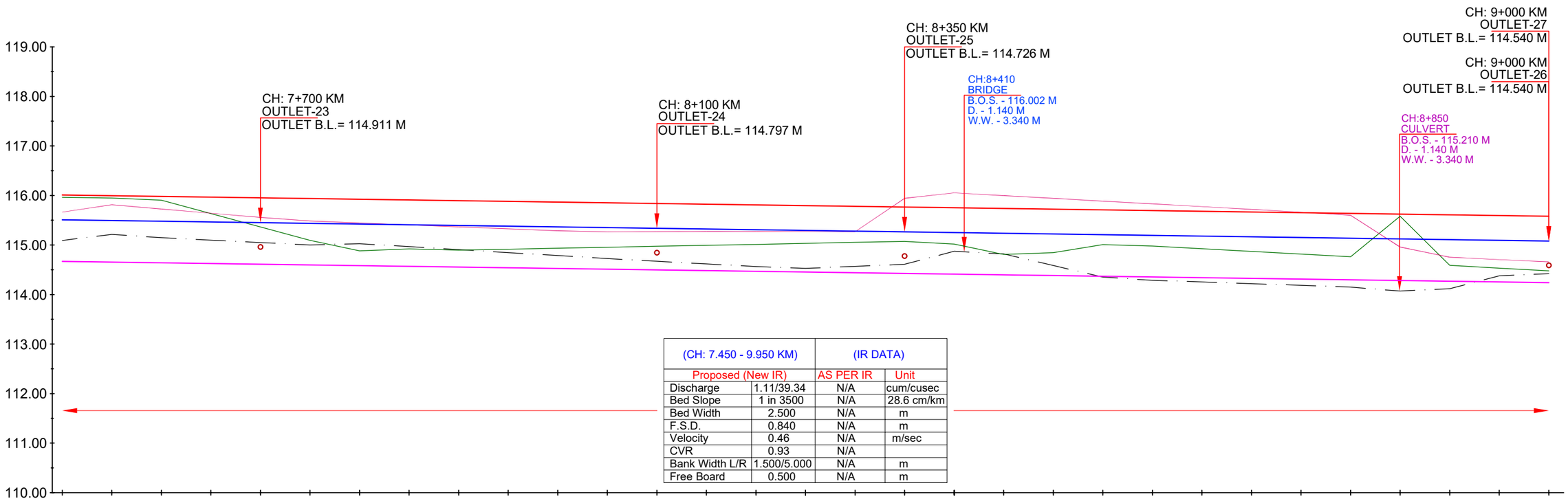
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 05 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 7+500 TO 9+000



(CH: 7.450 - 9.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.11/39.34	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	2.500	N/A	m
F.S.D.	0.840	N/A	m
Velocity	0.46	N/A	m/sec
CVR	0.93	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

		7+500	7+550	7+600	7+650	7+700	7+750	7+800	7+850	7+900	7+950	8+000	8+050	8+100	8+150	8+200	8+250	8+300	8+350	8+400	8+450	8+500	8+550	8+600	8+650	8+700	8+750	8+800	8+850	8+900	8+950	9+000
DESIGN DATA	TOP OF BANK LEVEL	116.009	115.994	115.980	115.966	115.951	115.937	115.923	115.909	115.894	115.880	115.866	115.851	115.837	115.823	115.809	115.794	115.780	115.766	115.751	115.737	115.723	115.709	115.694	115.680	115.666	115.651	115.637	115.623	115.609	115.594	115.580
	F.S.L.	115.509	115.494	115.480	115.466	115.451	115.437	115.423	115.409	115.394	115.380	115.366	115.351	115.337	115.323	115.309	115.294	115.280	115.266	115.251	115.237	115.223	115.209	115.194	115.180	115.166	115.151	115.137	115.123	115.109	115.094	115.080
	Proposed Bed Level	114.669	114.654	114.640	114.626	114.611	114.597	114.583	114.569	114.554	114.540	114.526	114.511	114.497	114.483	114.469	114.454	114.440	114.426	114.411	114.397	114.383	114.369	114.354	114.340	114.326	114.311	114.297	114.283	114.269	114.254	114.240
EXISTING DATA	Bed Level	115.092	115.215	115.148	115.098	115.049	115.002	115.026	114.967	114.907	114.847	114.788	114.727	114.671	114.618	114.566	114.528	114.570	114.611	114.873	114.820	114.586	114.353	114.287	114.256	114.218	114.187	114.149	114.070	114.116	114.379	114.421
	TOP OF BANK LEVEL	115.664	115.813	115.728	115.642	115.557	115.485	115.446	115.406	115.367	115.328	115.288	115.265	115.269	115.272	115.274	115.271	115.268	115.943	116.053	115.997	115.942	115.886	115.831	115.776	115.720	115.664	115.601	114.960	114.755	114.706	114.659
	NSL	115.961	115.950	115.904	115.635	115.365	115.096	114.882	114.922	114.895	114.914	114.934	114.954	114.974	114.993	115.013	115.033	115.053	115.073	115.020	114.809	114.846	115.009	114.979	114.925	114.871	114.816	114.762	115.580	114.590	114.533	114.477
	Chainage IN KM	7+500	7+550	7+600	7+650	7+700	7+750	7+800	7+850	7+900	7+950	8+000	8+050	8+100	8+150	8+200	8+250	8+300	8+350	8+400	8+450	8+500	8+550	8+600	8+650	8+700	8+750	8+800	8+850	8+900	8+950	9+000

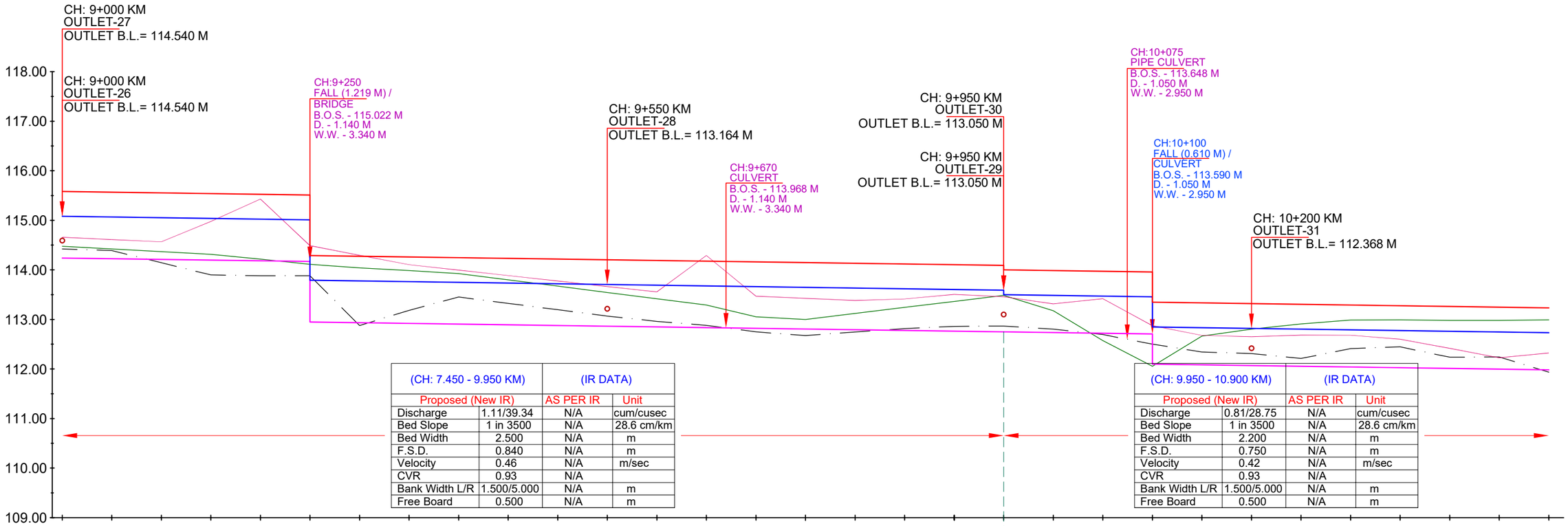
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 06 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 9+000 TO 10+500

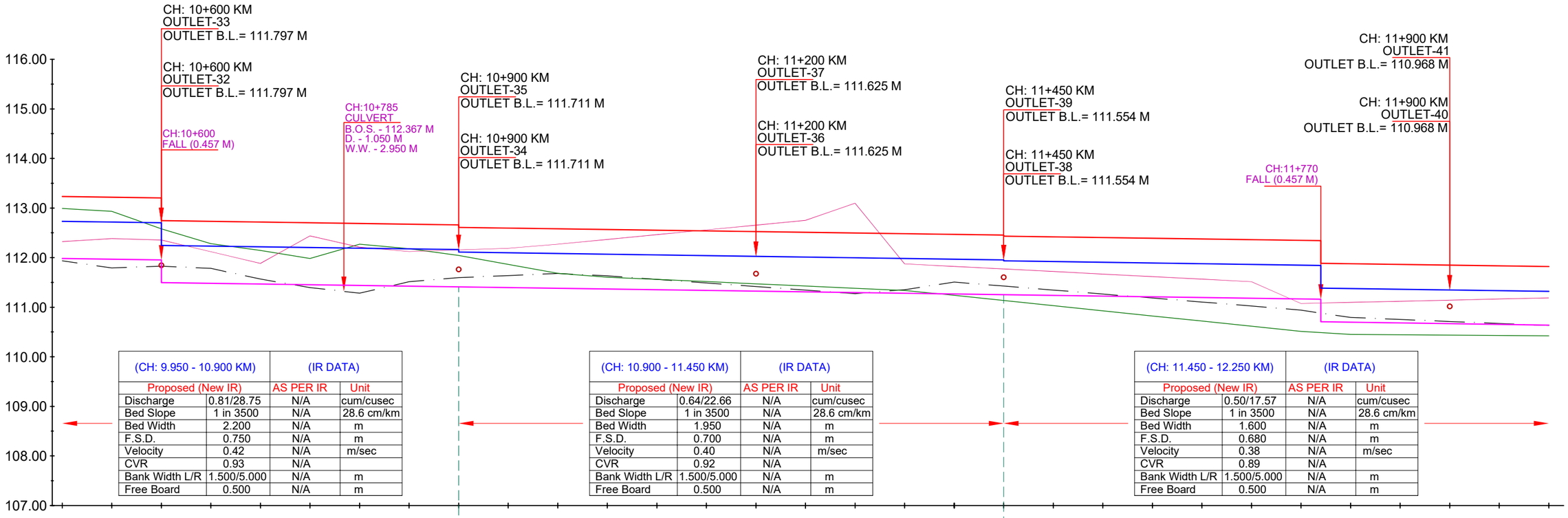


(CH: 7.450 - 9.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.11/39.34	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	2.500	N/A	m
F.S.D.	0.840	N/A	m
Velocity	0.46	N/A	m/sec
CVR	0.93	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 9.950 - 10.900 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.81/28.75	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	2.200	N/A	m
F.S.D.	0.750	N/A	m
Velocity	0.42	N/A	m/sec
CVR	0.93	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

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L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 10+500 TO 12+000



(CH: 9.950 - 10.900 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.81/28.75	N/A	cum/cusec
Bed Slope 1 in 3500	N/A	28.6 cm/km
Bed Width 2.200	N/A	m
F.S.D. 0.750	N/A	m
Velocity 0.42	N/A	m/sec
CVR 0.93	N/A	
Bank Width L/R 1.500/5.000	N/A	m
Free Board 0.500	N/A	m

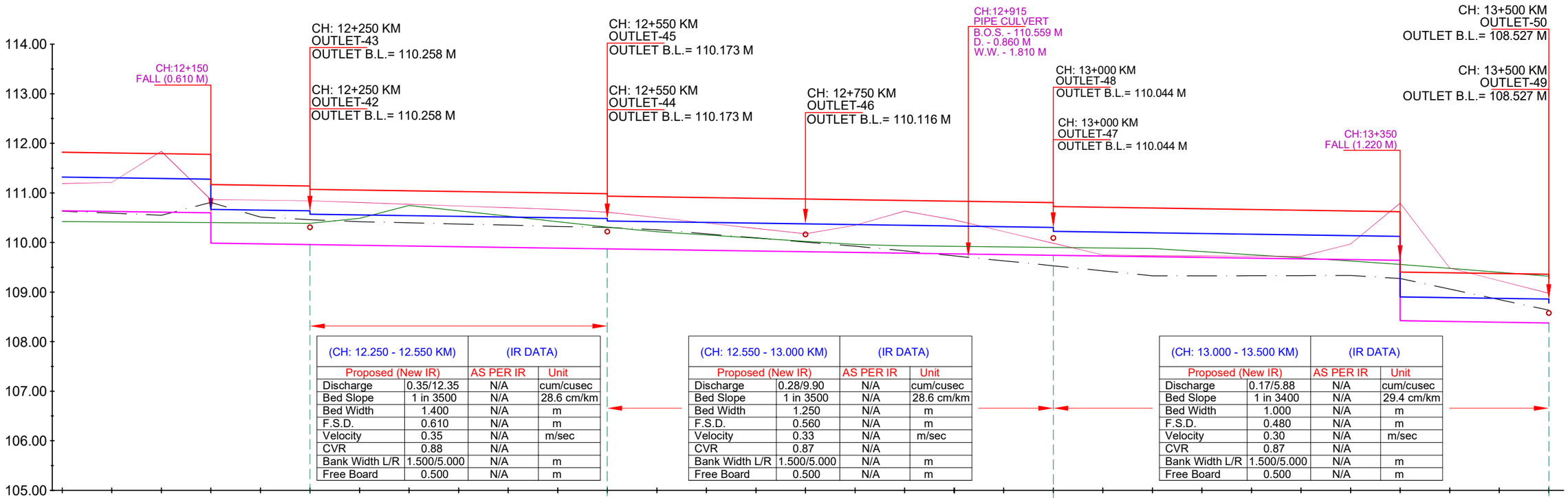
(CH: 10.900 - 11.450 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.64/22.66	N/A	cum/cusec
Bed Slope 1 in 3500	N/A	28.6 cm/km
Bed Width 1.950	N/A	m
F.S.D. 0.700	N/A	m
Velocity 0.40	N/A	m/sec
CVR 0.92	N/A	
Bank Width L/R 1.500/5.000	N/A	m
Free Board 0.500	N/A	m

(CH: 11.450 - 12.250 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.50/17.57	N/A	cum/cusec
Bed Slope 1 in 3500	N/A	28.6 cm/km
Bed Width 1.600	N/A	m
F.S.D. 0.680	N/A	m
Velocity 0.38	N/A	m/sec
CVR 0.89	N/A	
Bank Width L/R 1.500/5.000	N/A	m
Free Board 0.500	N/A	m

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L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 12+000 TO 13+500

(CH: 11.450 - 12.250 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.50/17.57	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	1.600	N/A	m
F.S.D.	0.680	N/A	m
Velocity	0.38	N/A	m/sec
CVR	0.89	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m



(CH: 12.250 - 12.550 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.35/12.35	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	1.400	N/A	m
F.S.D.	0.610	N/A	m
Velocity	0.35	N/A	m/sec
CVR	0.88	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 12.550 - 13.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.28/9.90	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	1.250	N/A	m
F.S.D.	0.560	N/A	m
Velocity	0.33	N/A	m/sec
CVR	0.87	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 13.000 - 13.500 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.17/5.88	N/A	cum/cusec
Bed Slope	1 in 3400	N/A	29.4 cm/km
Bed Width	1.000	N/A	m
F.S.D.	0.480	N/A	m
Velocity	0.30	N/A	m/sec
CVR	0.87	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

DESIGN DATA	TOP OF BANK LEVEL	111.820	111.806	111.791	111.777 111.167	111.153	111.138 111.088	111.054	111.040	111.026	111.011	110.997	110.983 110.933	110.918	110.904	110.890	110.876	110.861	110.847	110.833	110.818	110.804 110.724	110.709	110.695	110.680	110.665	110.651	110.636	110.621 110.401	110.386	110.372	110.357 108.777	109.277
	F.S.L.	111.320	111.306	111.291	111.277 110.667	110.653	110.638 110.568	110.554	110.540	110.526	110.511	110.497	110.483 110.433	110.418	110.404	110.390	110.376	110.361	110.347	110.333	110.318	110.304 110.224	110.209	110.195	110.180	110.165	110.151	110.136	110.121 108.901	108.886	108.872	108.857 108.777	
	Proposed Bed Level	110.640	110.626	110.611	110.597 109.987	109.973	109.958	109.944	109.930	109.916	109.901	109.887	109.873	109.858	109.844	109.830	109.816	109.801	109.787	109.773	109.758	109.744	109.729	109.715	109.700	109.685	109.671	109.656	109.641 108.421	108.406	108.392	108.377	
EXISTING DATA	Bed Level	110.630	110.590	110.549	110.809	110.511	110.460	110.419	110.398	110.370	110.351	110.322	110.304	110.257	110.174	110.093	110.009	109.926	109.830	109.729	109.630	109.529	109.428	109.328	109.326	109.329	109.332	109.335	109.273	109.059	108.848	108.636	
	TOP OF BANK LEVEL	111.189	111.211	111.839	110.864	110.855	110.841	110.806	110.771	110.736	110.701	110.666	110.611	110.502	110.393	110.285	110.176	110.347	110.634	110.456	110.220	109.984	109.748	109.734	109.729	109.724	109.719	109.968	110.793	109.485	109.230	108.976	
	NSL	110.421	110.414	110.406	110.399	110.392	110.385	110.486	110.746	110.637	110.529	110.420	110.312	110.217	110.153	110.088	110.024	109.960	109.933	109.922	109.911	109.900	109.889	109.878	109.817	109.753	109.690	109.626	109.558	109.479	109.399	109.320	
	Chainage IN KM	12+000	12+050	12+100	12+150	12+200	12+250	12+300	12+350	12+400	12+450	12+500	12+550	12+600	12+650	12+700	12+750	12+800	12+850	12+900	12+950	13+000	13+050	13+100	13+150	13+200	13+250	13+300	13+350	13+400	13+450	13+500		

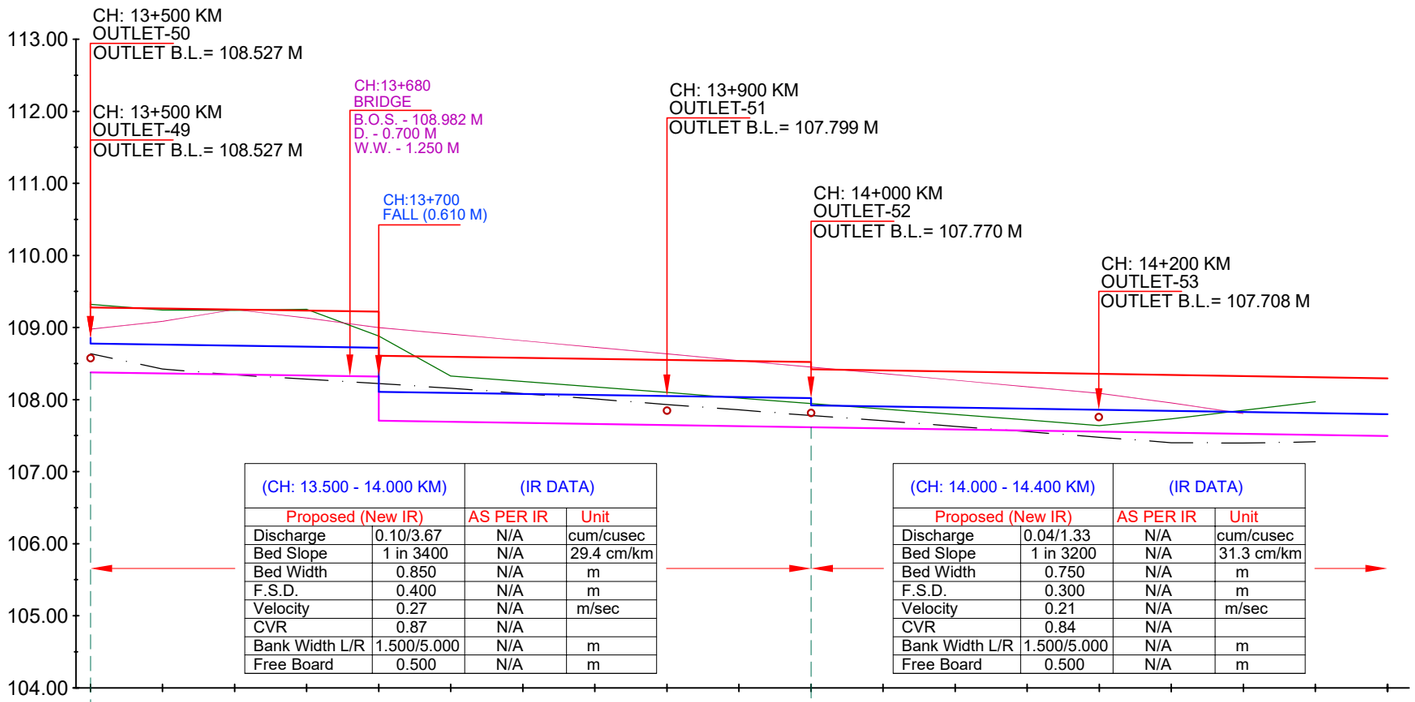
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 09 of 10

L- SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 13+500 TO 14+400



(CH: 13.500 - 14.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.10/3.67	N/A	cum/cusec
Bed Slope	1 in 3400	N/A	29.4 cm/km
Bed Width	0.850	N/A	m
F.S.D.	0.400	N/A	m
Velocity	0.27	N/A	m/sec
CVR	0.87	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 14.000 - 14.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.04/1.33	N/A	cum/cusec
Bed Slope	1 in 3200	N/A	31.3 cm/km
Bed Width	0.750	N/A	m
F.S.D.	0.300	N/A	m
Velocity	0.21	N/A	m/sec
CVR	0.84	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

DESIGN DATA	TOP OF BANK LEVEL	109.357	109.262	109.248	109.233	109.218	108.594	108.579	108.564	108.549	108.535	108.520	108.404	108.389	108.373	108.358	108.342	108.326	108.311	108.295
		109.277				108.608						108.420								
	F.S.L.	108.857	108.762	108.748	108.733	108.718	108.094	108.079	108.064	108.049	108.035	108.020	107.904	107.889	107.873	107.858	107.842	107.826	107.811	107.795
		108.777				108.108						107.920								
	Proposed Bed Level	108.377	108.362	108.348	108.333	108.318	107.694	107.679	107.664	107.649	107.635	107.620	107.604	107.589	107.573	107.558	107.542	107.526	107.511	107.495
						107.708														
EXISTING DATA	Bed Level	108.636	108.424	108.343	108.282	108.222	108.158	108.083	108.008	107.931	107.857	107.779	107.706	107.629	107.554	107.478	107.402	107.396	107.414	
	TOP OF BANK LEVEL	108.976	109.085	109.249	109.131	108.999	108.908	108.817	108.725	108.634	108.543	108.451	108.361	108.269	108.178	108.087	107.953	107.807		
	NSL	109.320	109.241	109.240	109.253	108.881	108.326	108.250	108.174	108.098	108.021	107.945	107.869	107.793	107.717	107.640	107.734	107.851	107.969	
	Chainage IN KM	13+500	13+550	13+600	13+650	13+700	13+750	13+800	13+850	13+900	13+950	14+000	14+050	14+100	14+150	14+200	14+250	14+300	14+350	14+400

LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

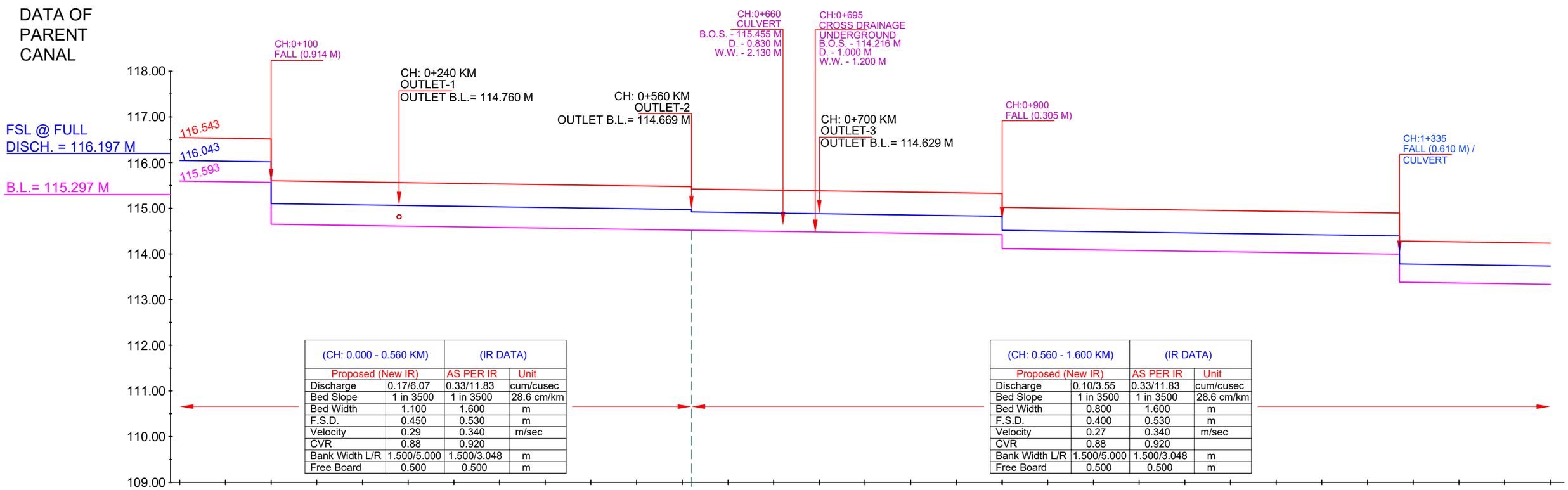
PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ LSEC- 10 of 10

L- SECTION OF CHANDAULI MINOR
(OFFTAKE FROM RD - 7+435 KM. (RT), PRITAMPURA SUB-DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500

DATA OF PARENT CANAL

FSL @ FULL DISCH. = 116.197 M

B.L.= 115.297 M



(CH: 0.000 - 0.560 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.17/6.07	0.33/11.83	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.100	1.600	m
F.S.D.	0.450	0.530	m
Velocity	0.29	0.340	m/sec
CVR	0.88	0.920	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 0.560 - 1.600 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.10/3.55	0.33/11.83	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.800	1.600	m
F.S.D.	0.400	0.530	m
Velocity	0.27	0.340	m/sec
CVR	0.88	0.920	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

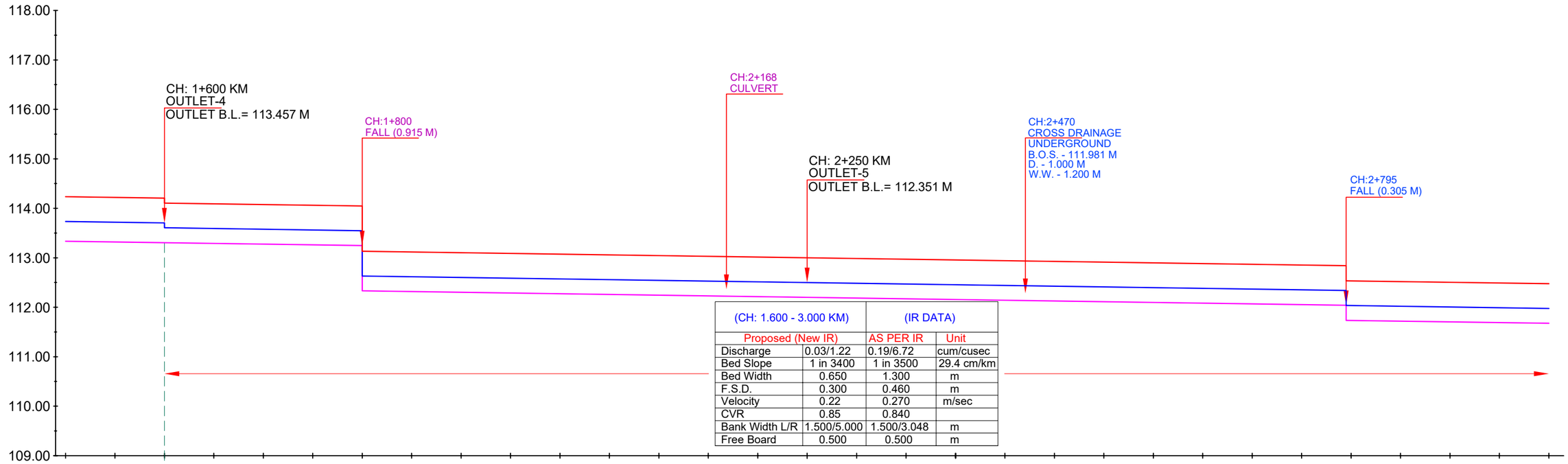
DESIGN DATA	TOP OF BANK LEVEL	116.543	116.529	116.514 / 115.600	115.586	115.572	115.558	115.543	115.529	115.515	115.500	115.486	115.472 / 115.460	115.419	115.408	115.393	115.379	115.365	115.350	115.336	115.322 / 115.017	115.003	114.988	114.974	114.960	114.945	114.931	114.917	114.903	114.893 / 114.283	114.278	114.264	114.250	114.235
	F.S.L.	116.043	116.029	116.014 / 115.100	115.086	115.072	115.058	115.043	115.029	115.015	115.000	114.986	114.972 / 114.960	114.919	114.908	114.893	114.879	114.865	114.850	114.836	114.822 / 114.517	114.503	114.488	114.474	114.460	114.445	114.431	114.417	114.403	114.393 / 113.783	113.778	113.764	113.750	113.735
	Proposed Bed Level	115.593	115.579	115.564 / 114.650	114.636	114.622	114.608	114.593	114.579	114.565	114.550	114.536	114.522 / 114.510		114.508	114.493	114.479	114.465	114.450	114.436	114.422 / 114.117	114.103	114.088	114.074	114.060	114.045	114.031	114.017	114.003	113.993 / 113.383	113.378	113.364	113.350	113.335
EXISTING DATA																																		
	Chainage IN KM	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+560	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500		

	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHANDAULI MR. (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB-DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ LSEC- 01 of 02

L- SECTION OF CHANDAULI MINOR
(OFFTAKE FROM RD - 7+435 KM. (RT), PRITAMPURA SUB-DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 1.600 - 3.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.03/1.22	0.19/6.72	cum/cusec
Bed Slope	1 in 3400	1 in 3500	29.4 cm/km
Bed Width	0.650	1.300	m
F.S.D.	0.300	0.460	m
Velocity	0.22	0.270	m/sec
CVR	0.85	0.840	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA — TOP OF BANK LEVEL	114.235	114.221	114.207	114.092	114.077	114.063	114.048	113.133	113.118	113.104	113.089	113.074	113.060	113.045	113.030	113.015	113.001	112.986	112.971	112.957	112.942	112.927	112.912	112.898	112.883	112.868	112.854	112.840	112.535	112.519	112.505	112.490	112.475
DESIGN DATA — F.S.L.	113.735	113.721	113.707 / 113.607	113.592	113.577	113.563	113.548 / 112.633	112.618	112.604	112.589	112.574	112.560	112.545	112.530	112.515	112.501	112.486	112.471	112.457	112.442	112.427	112.412	112.398	112.383	112.368	112.354	112.340 / 112.035	112.034	111.990	111.975	
DESIGN DATA — Proposed Bed Level	113.335	113.321	113.307	113.292	113.277	113.263	113.248 / 112.333	112.318	112.304	112.289	112.274	112.260	112.245	112.230	112.215	112.201	112.186	112.171	112.157	112.142	112.127	112.112	112.098	112.083	112.068	112.054	112.040 / 111.735 / 111.734	111.719	111.705	111.690	111.675
EXISTING DATA																															
Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHANDAULI MR. (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB-DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ LSEC- 02 of 02

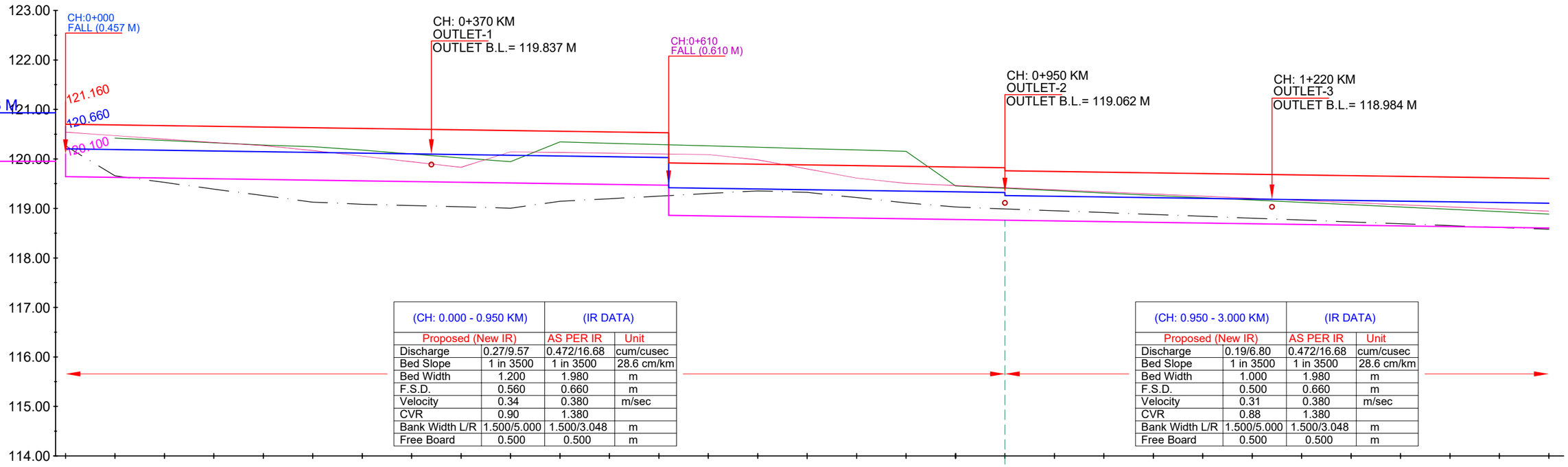
SIMRA MINOR

L- SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500

DATA OF PARENT CANAL

FSL @ FULL DISCH. = 120.933 M

B.L.= 119.953 M

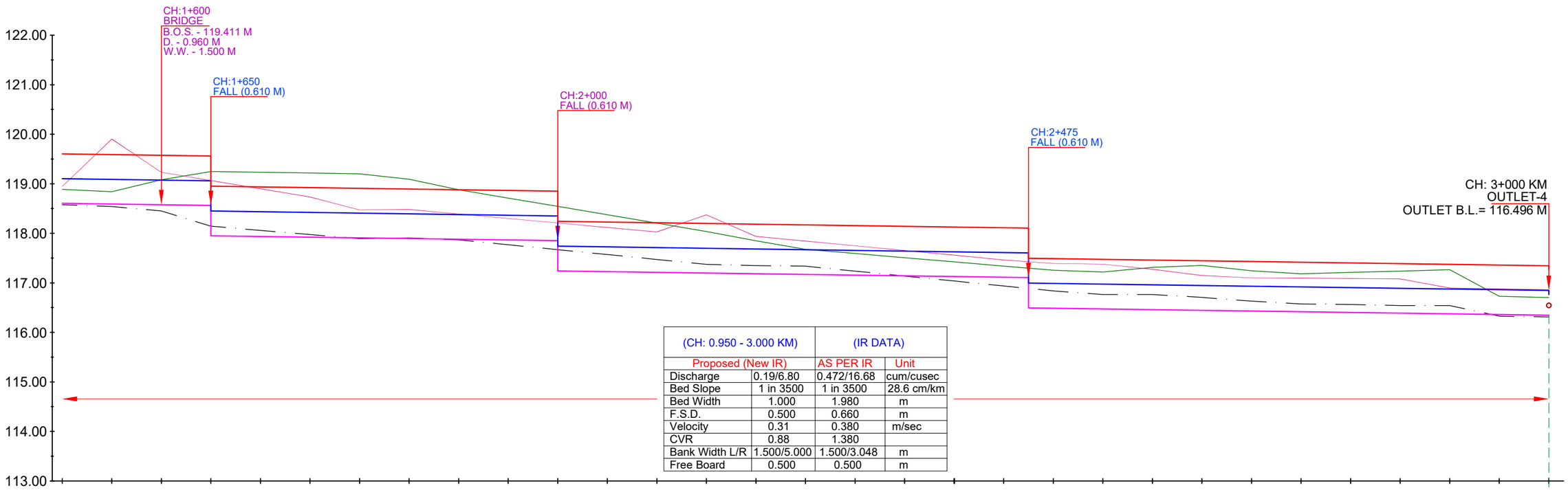


(CH: 0.000 - 0.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.27/9.57	0.472/16.68	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.200	1.980	m
F.S.D.	0.560	0.660	m
Velocity	0.34	0.380	m/sec
CVR	0.90	1.380	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 0.950 - 3.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.19/6.80	0.472/16.68	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.000	1.980	m
F.S.D.	0.500	0.660	m
Velocity	0.31	0.380	m/sec
CVR	0.88	1.380	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

| | | |

L- SECTION OF SIMRA MR.
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.950 - 3.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.19/6.80	0.472/16.68	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.000	1.980	m
F.S.D.	0.500	0.660	m
Velocity	0.31	0.380	m/sec
CVR	0.88	1.380	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	119.604	119.590	119.576	119.562 118.952	118.937	118.923	118.909	118.894	118.880	118.866	118.852 118.242	118.227	118.213	118.199	118.184	118.170	118.156	118.142	118.127	118.113	118.106 117.496	117.489	117.474	117.460	117.446	117.432	117.417	117.403	117.389	117.374	117.360	117.346 117.266
	F.S.L.	119.104	119.090	119.076	119.062 118.452	118.437	118.423	118.409	118.394	118.380	118.366	118.352 117.742	117.727	117.713	117.699	117.684	117.670	117.656	117.642	117.627	117.613	117.606 116.996	116.989	116.974	116.960	116.946	116.932	116.917	116.903	116.889	116.874	116.860	116.846 116.766
	Proposed Bed Level	118.604	118.590	118.576	118.562 117.952	117.937	117.923	117.909	117.894	117.880	117.866	117.852 117.242	117.227	117.213	117.199	117.184	117.170	117.156	117.142	117.127	117.113	117.106 116.496	116.489	116.474	116.460	116.446	116.432	116.417	116.403	116.389	116.374	116.360	116.346
EXISTING DATA	Bed Level	118.578	118.541	118.451	118.144	118.058	117.975	117.891	117.907	117.868	117.769	117.670	117.571	117.472	117.373	117.350	117.337	117.236	117.137	117.037	116.936	116.838	116.765	116.765	116.706	116.631	116.574	116.564	116.542	116.540	116.327	116.312
	TOP OF BANK LEVEL	118.944	119.903	119.233	119.067	118.901	118.735	118.473	118.481	118.390	118.300	118.210	118.119	118.029	118.374	117.938	117.843	117.748	117.653	117.559	117.463	117.392	117.377	117.275	117.149	117.100	117.094	117.088	117.081	116.895	116.878	116.861
	NSL	118.887	118.840	119.082	119.248	119.233	119.217	119.202	119.092	118.881	118.712	118.543	118.374	118.205	118.036	117.850	117.676	117.592	117.507	117.423	117.339	117.255	117.220	117.311	117.352	117.244	117.182	117.210	117.237	117.264	116.729	116.704
	Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

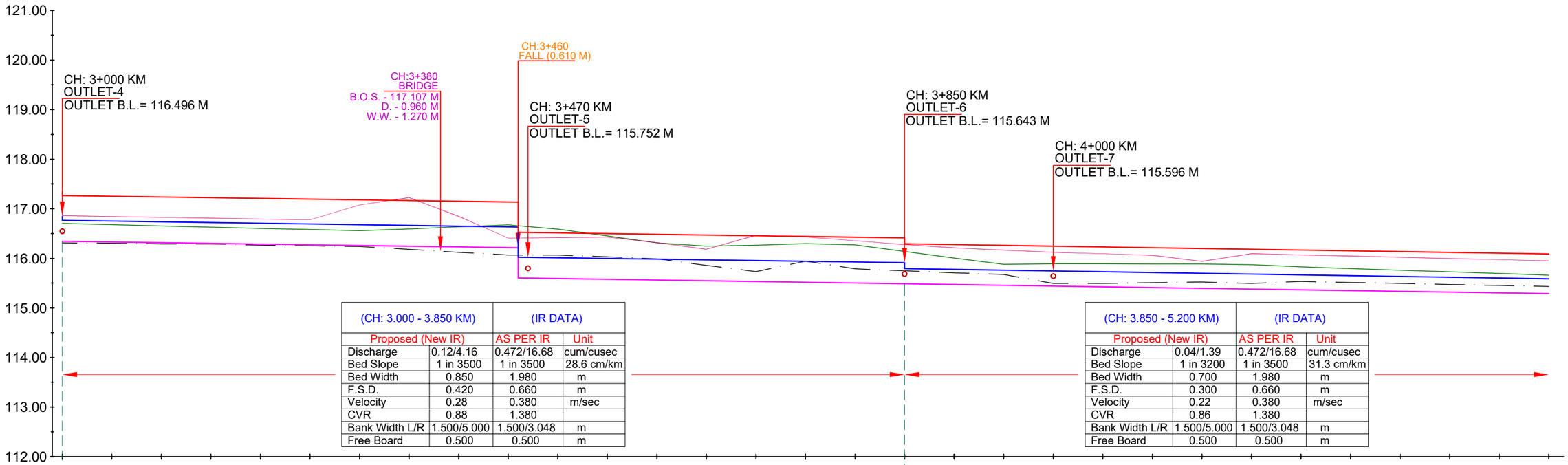
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ LSEC- 02 of 04

L- SECTION OF SIMRA MR.
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500



(CH: 3.000 - 3.850 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.12/4.16	0.472/16.68	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.850	1.980	m
F.S.D.	0.420	0.660	m
Velocity	0.28	0.380	m/sec
CVR	0.88	1.380	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

(CH: 3.850 - 5.200 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.04/1.39	0.472/16.68	cum/cusec
Bed Slope	1 in 3200	1 in 3500	31.3 cm/km
Bed Width	0.700	1.980	m
F.S.D.	0.300	0.660	m
Velocity	0.22	0.380	m/sec
CVR	0.86	1.380	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN DATA	TOP OF BANK LEVEL	117.346 117.266	117.252	117.237	117.223	117.209	117.194	117.180	117.166	117.152	117.137 117.134 116.524	116.513	116.499	116.484	116.470	116.456	116.442	116.427	116.413 116.293	116.277	116.262	116.246	116.231	116.215	116.199	116.184	116.168	116.152	116.137	116.121	116.106	116.090
	F.S.L.	116.946 116.766	116.752	116.737	116.723	116.709	116.694	116.680	116.666	116.652	116.637 116.634 116.024	116.013	115.999	115.984	115.970	115.956	115.942	115.927	115.913 115.793	115.777	115.762	115.746	115.731	115.715	115.699	115.684	115.668	115.652	115.637	115.621	115.606	115.590
	Proposed Bed Level	116.346	116.332	116.317	116.303	116.289	116.274	116.260	116.246	116.232	116.217 116.214 115.604	115.593	115.579	115.564	115.550	115.536	115.522	115.507	115.493	115.477	115.462	115.446	115.431	115.415	115.399	115.384	115.368	115.352	115.337	115.321	115.306	115.290
EXISTING DATA	Bed Level	116.312	116.306	116.292	116.279	116.265	116.253	116.239	116.182	116.123	116.067	116.068	116.033	115.990	115.859	115.732	115.943	115.789	115.749	115.708	115.675	115.494	115.493	115.510	115.522	115.493	115.534	115.514	115.494	115.474	115.454	115.434
	TOP OF BANK LEVEL	116.861	116.845	116.828	116.811	116.794	116.777	117.077	117.227	116.847	116.410	116.420	116.429	116.317	116.184	116.466	116.432	116.356	116.278	116.212	116.167	116.125	116.093	116.061	115.940	116.095	116.071	116.047	116.022	115.998	115.974	115.949
	NSL	116.704	116.680	116.655	116.631	116.606	116.582	116.557	116.595	116.636	116.677	116.590	116.452	116.314	116.249	116.264	116.297	116.271	116.138	116.006	115.880	115.889	115.889	115.887	115.886	115.872	115.828	115.795	115.761	115.728	115.695	115.661
	Chainage IN KM	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500

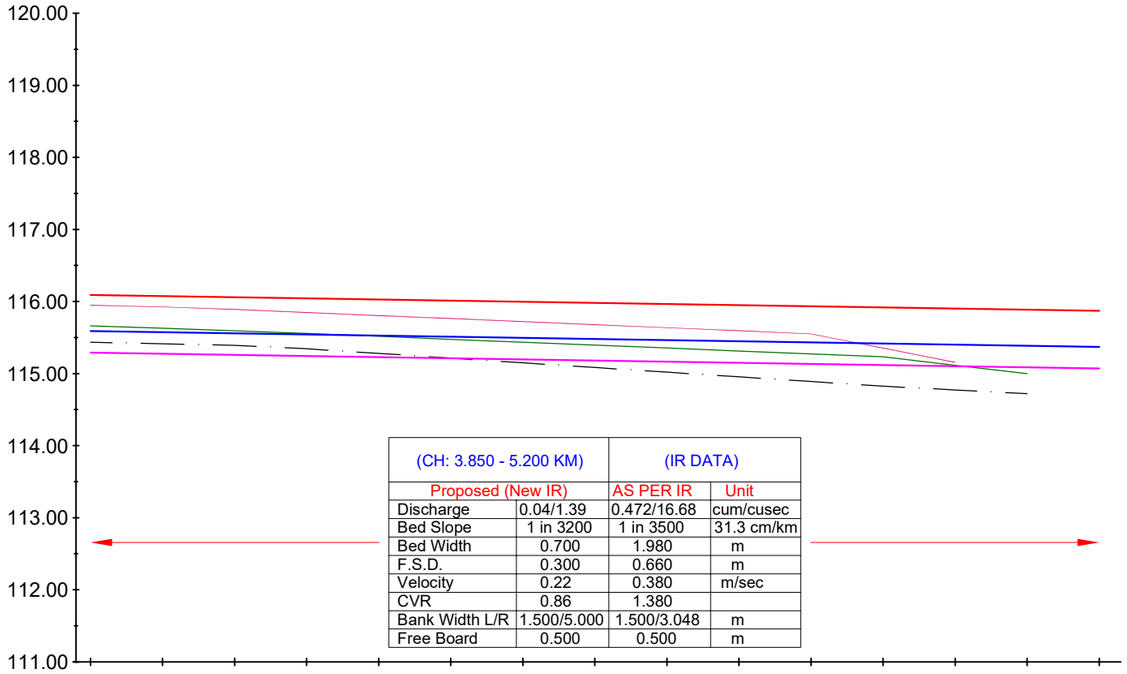
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ LSEC- 03 of 04

L- SECTION OF SIMRA MR.
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 5+200



(CH: 3.850 - 5.200 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.04/1.39	0.472/16.68	cum/cusec
Bed Slope	1 in 3200	1 in 3500	31.3 cm/km
Bed Width	0.700	1.980	m
F.S.D.	0.300	0.660	m
Velocity	0.22	0.380	m/sec
CVR	0.86	1.380	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950	5+000	5+050	5+100	5+150	5+200
DESIGN DATA	TOP OF BANK LEVEL	116.090	116.074	116.059	116.043	116.027	116.012	115.996	115.981	115.965	115.949	115.934	115.918	115.902	115.887	115.871
	F.S.L.	115.590	115.574	115.559	115.543	115.527	115.512	115.496	115.481	115.465	115.449	115.434	115.418	115.402	115.387	115.371
	Proposed Bed Level	115.290	115.274	115.259	115.243	115.227	115.212	115.196	115.181	115.165	115.149	115.134	115.118	115.102	115.087	115.071
EXISTING DATA	Bed Level	115.434	115.413	115.393	115.344	115.280	115.214	115.150	115.084	115.019	114.954	114.889	114.825	114.773	114.721	
	TOP OF BANK LEVEL	115.949	115.925	115.890	115.848	115.806	115.764	115.721	115.679	115.637	115.595	115.551	115.353	115.156		
	NSL	115.661	115.628	115.595	115.557	115.517	115.476	115.436	115.395	115.355	115.314	115.274	115.232	115.115	114.999	
	Chainage IN KM															

LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ LSEC- 04 of 04

SALEMPUR MINOR

L- SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 15+950 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500

(CH: 1.250 - 3.050 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.19/6.72	0.651/23.0	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.000	2.290	m
F.S.D.	0.500	0.760	m
Velocity	0.31	0.418	m/sec
CVR	0.88	0.900	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

DATA OF PARENT CANAL

FSL @ FULL DISCH. = 116.122 M

B.L.= 115.176 M

CH:0+000
FALL (0.914 M)

CH:0+020
CROSS DRAINAGE
UNDERGROUND
B.O.S. - 115.016 M
D. - 0.900 M
W.W. - 1.800 M

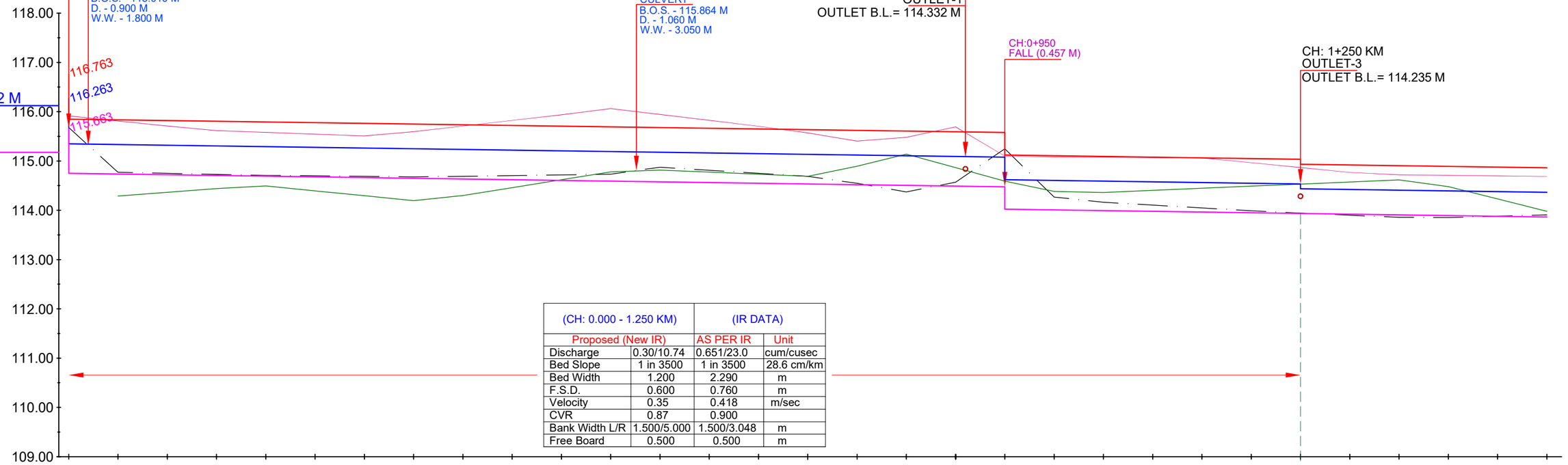
CH:0+575
CULVERT
B.O.S. - 115.864 M
D. - 1.060 M
W.W. - 3.050 M

CH: 0+910 KM
OUTLET-2
OUTLET B.L.= 114.332 M

CH: 0+910 KM
OUTLET-1
OUTLET B.L.= 114.332 M

CH:0+950
FALL (0.457 M)

CH: 1+250 KM
OUTLET-3
OUTLET B.L.= 114.235 M



(CH: 0.000 - 1.250 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.30/10.74	0.651/23.0	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.200	2.290	m
F.S.D.	0.600	0.760	m
Velocity	0.35	0.418	m/sec
CVR	0.87	0.900	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL	116.763 115.849	115.835	115.820	115.806	115.792	115.778	115.763	115.749	115.735	115.720	115.706	115.692	115.678	115.663	115.649	115.635	115.620	115.606	115.592	115.578 115.121	115.106	115.092	115.078	115.063	115.049	115.035 114.935	114.921	114.906	114.892	114.878	114.863
	F.S.L.	116.263 115.349	115.335	115.320	115.306	115.292	115.278	115.263	115.249	115.235	115.220	115.206	115.192	115.178	115.163	115.149	115.135	115.120	115.106	115.092	115.078 114.621	114.606	114.592	114.578	114.563	114.549	114.535 114.435	114.421	114.406	114.392	114.378	114.363
	Proposed Bed Level	115.663 114.749	114.735	114.720	114.706	114.692	114.678	114.663	114.649	114.635	114.620	114.606	114.592	114.578	114.563	114.549	114.535	114.520	114.506	114.492	114.478 114.021	114.006	113.992	113.978	113.963	113.949	113.935	113.921	113.906	113.892	113.878	113.863
EXISTING DATA	Bed Level	115.678	114.773	114.750	114.729	114.708	114.699	114.689	114.679	114.688	114.704	114.717	114.733	114.874	114.812	114.750	114.688	114.547	114.372	114.570	115.246	114.269	114.163	114.105	114.046	113.989	113.943	113.900	113.856	113.852	113.881	113.908
	TOP OF BANK LEVEL	115.915	115.813	115.711	115.616	115.580	115.545	115.509	115.594	115.709	115.824	115.939	116.064	115.945	115.825	115.705	115.569	115.405	115.479	115.693	115.100	115.081	115.075	115.069	115.062	114.966	114.867	114.768	114.721	114.709	114.697	114.685
	NSL		114.290	114.366	114.442	114.494	114.395	114.295	114.196	114.299	114.459	114.619	114.779	114.816	114.774	114.731	114.689	114.894	115.138	114.865	114.591	114.381	114.362	114.404	114.447	114.490	114.532	114.574	114.616	114.480	114.230	113.980
	Chainage IN KM	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500

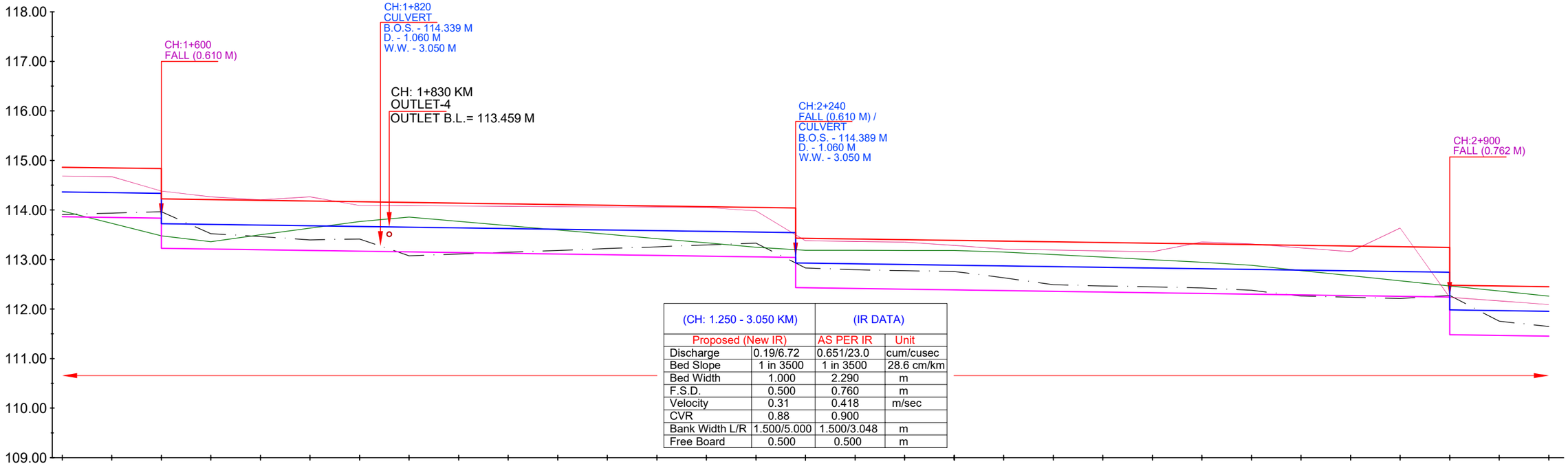
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 15+950 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ LSEC- 01 of 04

L- SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 15+950 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 1.250 - 3.050 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.19/6.72	0.651/23.0	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.000	2.290	m
F.S.D.	0.500	0.760	m
Velocity	0.31	0.418	m/sec
CVR	0.88	0.900	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	114.863	114.849	114.835 114.225	114.211	114.196	114.182	114.168	114.153	114.139	114.125	114.111	114.096	114.082	114.068	114.053	114.042 113.432 113.429	113.415	113.401	113.386	113.372	113.358	113.343	113.329	113.315	113.301	113.286	113.272	113.258	113.243 112.481	112.467	112.453
	F.S.L.	114.363	114.349	114.335 113.725	113.711	113.696	113.682	113.668	113.653	113.639	113.625	113.611	113.596	113.582	113.568	113.553	113.542 112.932 112.929	112.915	112.901	112.886	112.872	112.858	112.843	112.829	112.815	112.801	112.786	112.772	112.758	112.743 111.981	111.967	111.953
	Proposed Bed Level	113.863	113.849	113.835 113.225	113.211	113.196	113.182	113.168	113.153	113.139	113.125	113.111	113.096	113.082	113.068	113.053	113.042 112.432 112.429	112.415	112.401	112.386	112.372	112.358	112.343	112.329	112.315	112.301	112.286	112.272	112.258	112.243 111.481	111.467	111.453
EXISTING DATA	Bed Level	113.908	113.937	113.964	113.520	113.464	113.396	113.415	113.076	113.111	113.148	113.183	113.221	113.256	113.294	113.329	112.831	112.793	112.775	112.758	112.632	112.490	112.467	112.447	112.425	112.379	112.262	112.238	112.212	112.276	111.754	111.646
	TOP OF BANK LEVEL	114.685	114.673	114.383	114.266	114.203	114.266	114.091	114.085	114.080	114.074	114.068	114.062	114.057	114.051	113.983	113.379	113.365	113.351	113.284	113.209	113.191	113.174	113.156	113.354	113.313	113.236	113.159	113.634	112.238	112.165	112.091
	NSL	113.980	113.729	113.479	113.361	113.499	113.634	113.766	113.855	113.769	113.682	113.596	113.509	113.422	113.336	113.249	113.188	113.186	113.184	113.181	113.152	113.100	113.049	112.997	112.945	112.884	112.777	112.674	112.570	112.465	112.363	112.259
	Chainage IN KM	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+850	1+900	1+950	2+000	2+050	2+100	2+150	2+200	2+250	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000

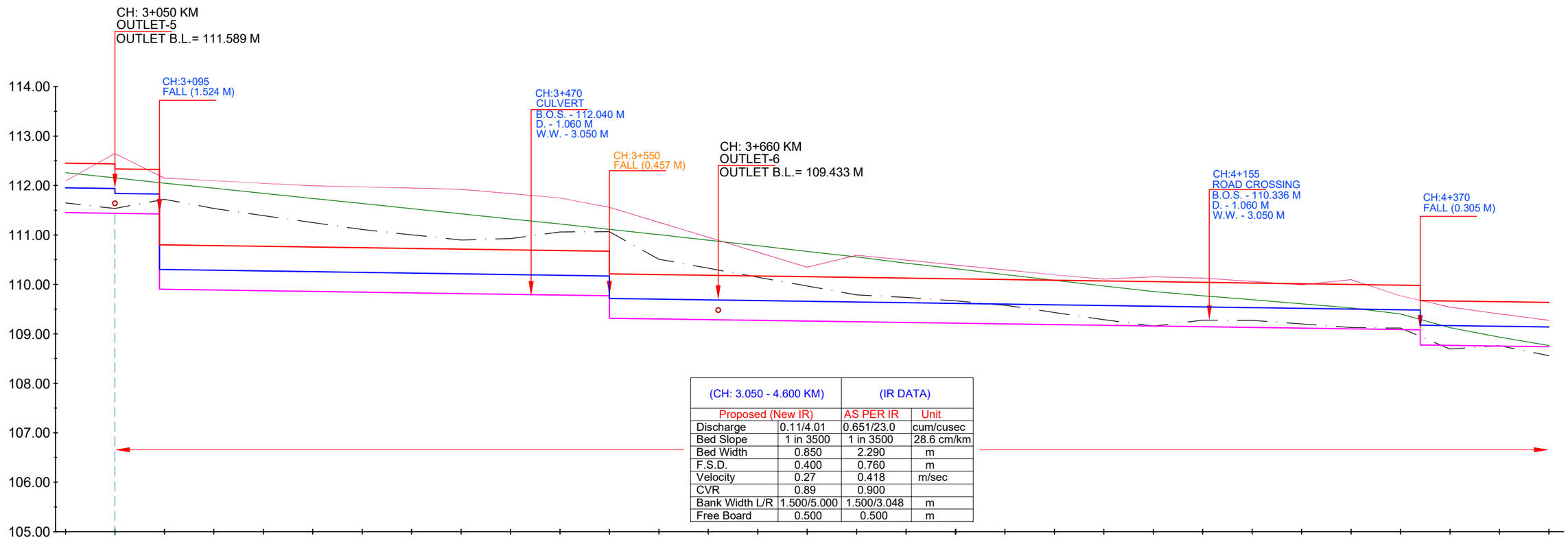
LEGEND

NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING STRUCTURE		PROPOSED FSL	
MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL	
NEW STRUCTURE			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 15+950 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ LSEC- 02 of 04

L- SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 15+950 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500



(CH: 3.050 - 4.600 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.11/4.01	0.651/23.0	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.850	2.290	m
F.S.D.	0.400	0.760	m
Velocity	0.27	0.418	m/sec
CVR	0.89	0.900	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN DATA	TOP OF BANK LEVEL	112.453	112.439	112.326	110.786	110.772	110.757	110.743	110.729	110.715	110.700	110.686	110.672	110.200	110.186	110.172	110.158	110.143	110.129	110.115	110.100	110.086	110.072	110.058	110.043	110.029	110.015	110.000	109.986	109.990	109.990	109.667
	F.S.L.	111.953	111.939	111.826	110.286	110.272	110.257	110.243	110.229	110.215	110.200	110.186	110.172	109.700	109.686	109.672	109.658	109.643	109.629	109.615	109.600	109.586	109.572	109.558	109.543	109.529	109.515	109.500	109.486	109.480	109.175	109.167	109.153	109.138
	Proposed Bed Level	111.453	111.439	111.426	109.886	109.872	109.857	109.843	109.829	109.815	109.800	109.786	109.772	109.300	109.286	109.272	109.258	109.243	109.229	109.215	109.200	109.186	109.172	109.158	109.143	109.129	109.115	109.100	109.086	109.080	108.775	108.767	108.753	108.738
EXISTING DATA	Bed Level	111.646	111.537	111.720	111.536	111.390	111.252	111.111	111.004	110.897	110.927	111.060	111.067	110.508	110.327	110.146	109.967	109.788	109.737	109.668	109.579	109.433	109.288	109.158	109.277	109.271	109.200	109.127	109.116	108.990	108.694	108.762	108.558	
	TOP OF BANK LEVEL	112.091	112.648	112.151	112.098	112.044	111.996	111.972	111.948	111.924	111.836	111.748	111.559	111.256	110.954	110.651	110.348	110.591	110.492	110.393	110.294	110.196	110.107	110.154	110.128	110.060	109.991	110.097	109.771	109.542	109.404	109.275		
	NSL	112.259	112.155	112.049	111.945	111.841	111.738	111.635	111.531	111.426	111.322	111.221	111.113	111.007	110.894	110.781	110.668	110.555	110.431	110.316	110.199	110.084	109.969	109.855	109.771	109.691	109.608	109.525	109.402	109.125	108.934	108.764		
	Chainage IN KM																															

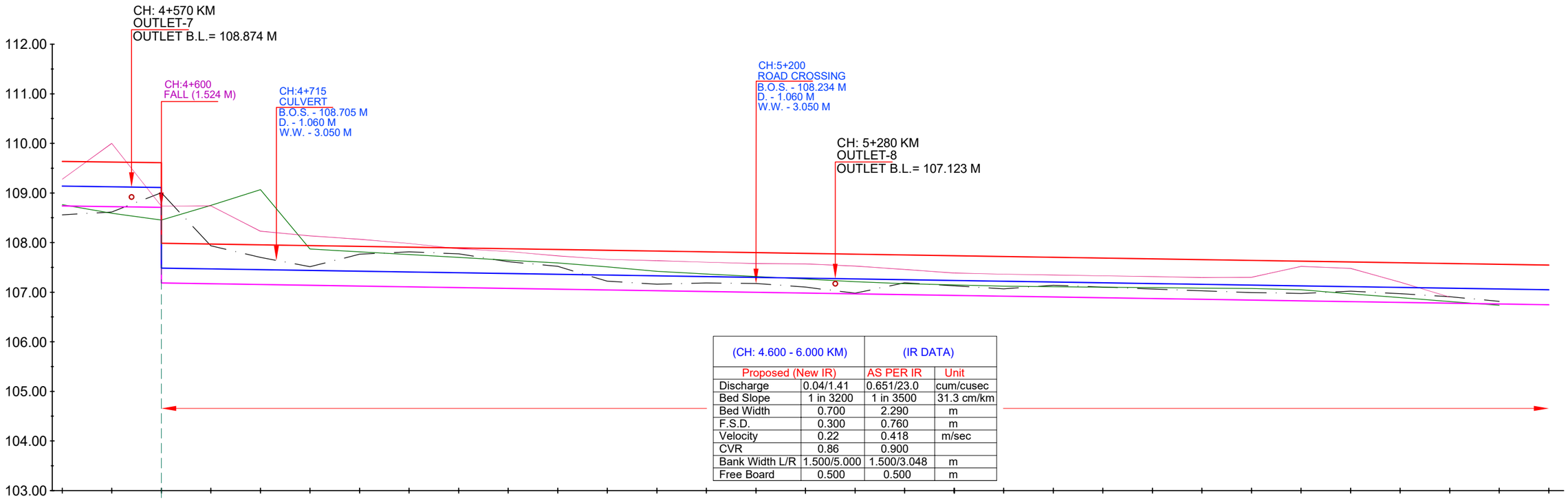
LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 15+950 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ LSEC- 03 of 04

L- SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 15+950 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 6+000



(CH: 4.600 - 6.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.04/1.41	0.651/23.0	cum/cusec
Bed Slope	1 in 3200	1 in 3500	31.3 cm/km
Bed Width	0.700	2.290	m
F.S.D.	0.300	0.760	m
Velocity	0.22	0.418	m/sec
CVR	0.86	0.900	
Bank Width L/R	1.500/5.000	1.500/3.048	m
Free Board	0.500	0.500	m

		4+500	4+550	4+600	4+650	4+700	4+750	4+800	4+850	4+900	4+950	5+000	5+050	5+100	5+150	5+200	5+250	5+300	5+350	5+400	5+450	5+500	5+550	5+600	5+650	5+700	5+750	5+800	5+850	5+900	5+950	6+000
DESIGN DATA	TOP OF BANK LEVEL	109.638	109.624	109.610	107.970	107.954	107.939	107.923	107.908	107.892	107.876	107.861	107.845	107.829	107.814	107.798	107.783	107.767	107.751	107.736	107.720	107.704	107.689	107.673	107.658	107.642	107.626	107.611	107.595	107.579	107.564	107.548
	F.S.L.	109.138	109.124	109.110	107.470	107.454	107.439	107.423	107.408	107.392	107.376	107.361	107.345	107.329	107.314	107.298	107.283	107.267	107.251	107.236	107.220	107.204	107.189	107.173	107.158	107.142	107.126	107.111	107.095	107.079	107.064	107.048
	Proposed Bed Level	108.738	108.724	108.710	107.170	107.154	107.139	107.123	107.108	107.092	107.076	107.061	107.045	107.029	107.014	106.998	106.983	106.967	106.951	106.936	106.920	106.904	106.889	106.873	106.858	106.842	106.826	106.811	106.795	106.779	106.764	106.748
EXISTING DATA	Bed Level	108.558	108.618	109.006	107.936	107.700	107.515	107.765	107.814	107.774	107.615	107.522	107.221	107.161	107.185	107.174	107.102	106.980	107.189	107.128	107.067	107.138	107.102	107.065	107.029	106.992	106.974	107.020	106.969	106.907	106.816	
	TOP OF BANK LEVEL	109.275	110.002	108.736	108.742	108.231	108.137	108.069	107.983	107.876	107.821	107.734	107.662	107.634	107.605	107.577	107.571	107.528	107.457	107.387	107.363	107.346	107.330	107.314	107.298	107.301	107.520	107.481	107.202	106.902		
	NSL	108.764	108.591	108.453	108.750	109.068	107.870	107.814	107.758	107.702	107.645	107.591	107.511	107.420	107.368	107.317	107.266	107.210	107.172	107.147	107.122	107.110	107.101	107.091	107.082	107.073	107.050	106.968	106.891	106.813	106.736	
	Chainage IN KM																															

LEGEND

	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING STRUCTURE		PROPOSED FSL
	MODIFIED STRUCTURE		PROPOSED TOP OF BANK LEVEL
	NEW STRUCTURE		

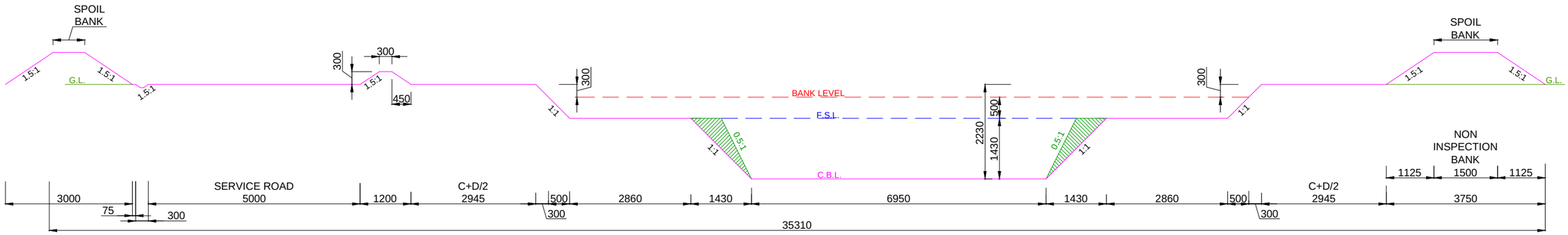
IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 15+950 KM. (R), BASDIHA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ LSEC- 04 of 04

TYPICAL X-SECTION

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.520 KM

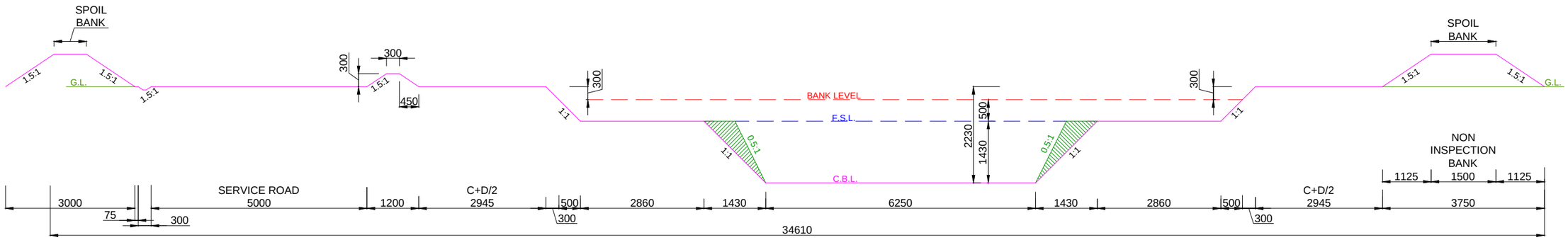
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 1 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 0.520 KM TO CH: 4.580 KM

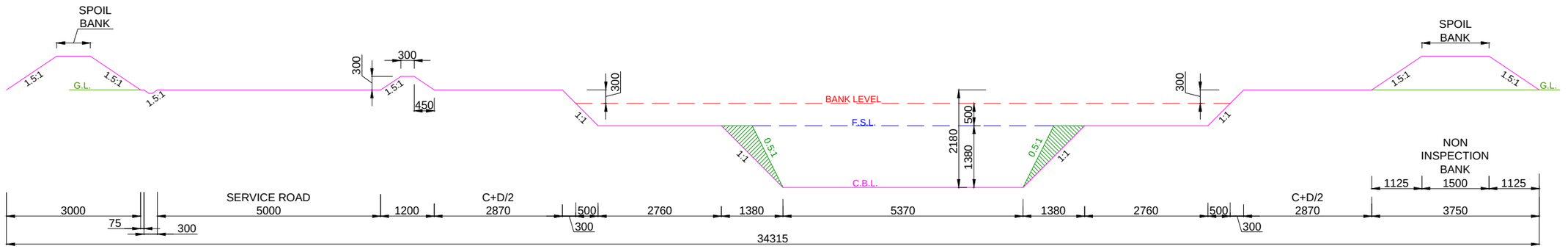
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 2 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 4.580 KM TO CH: 9.450 KM

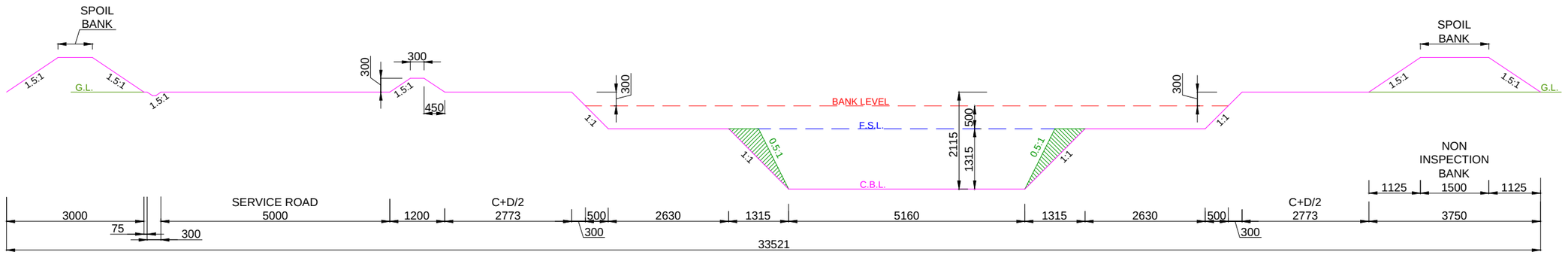
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 3 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 9.450 KM TO CH: 10.060 KM

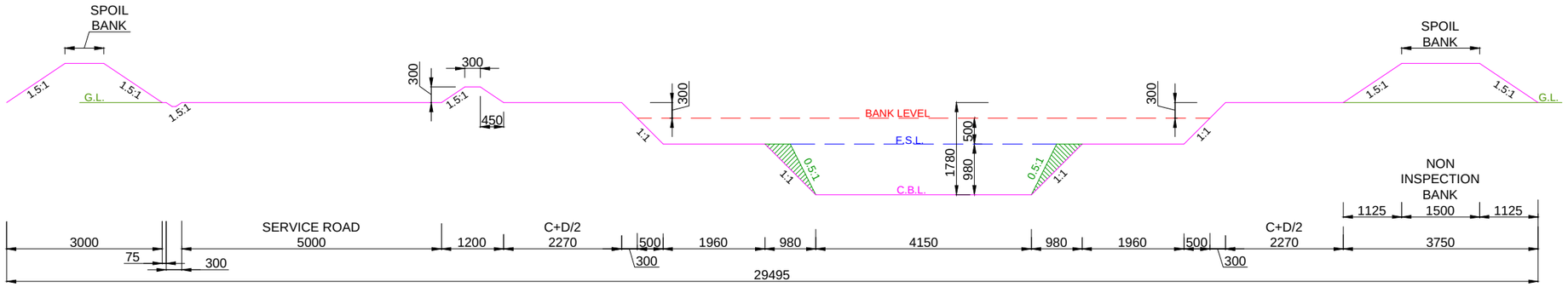
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
CUT AREA			Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
FILL AREA			Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 4 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 10.060 KM TO CH: 12.530 KM

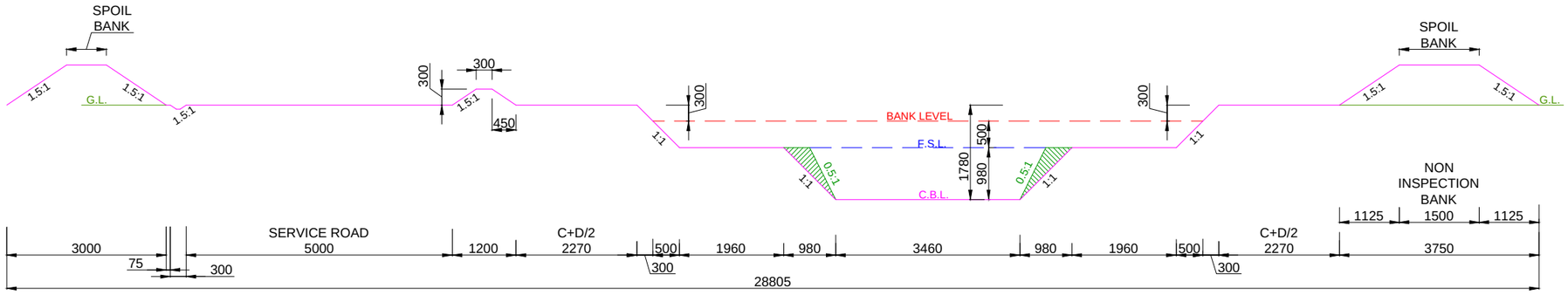
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 5 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 12.530 KM TO CH: 12.685 KM

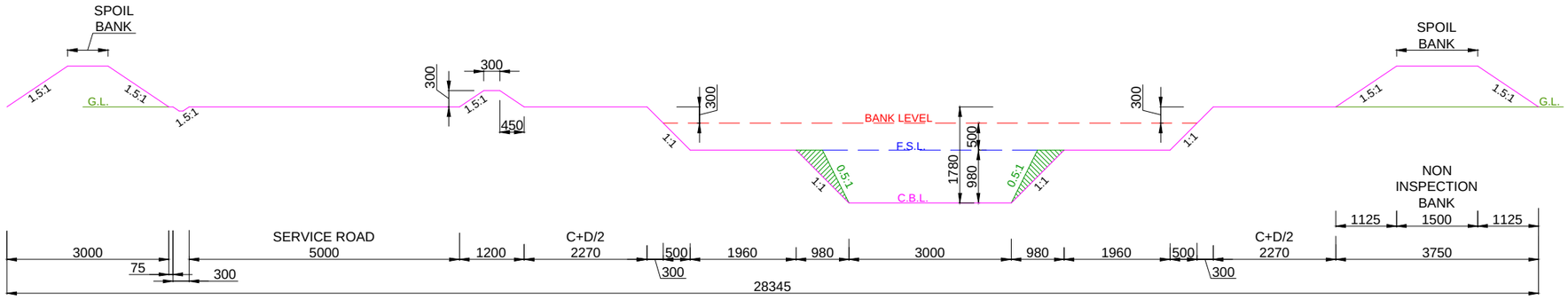
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 6 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 12.685 KM TO CH: 14.200 KM

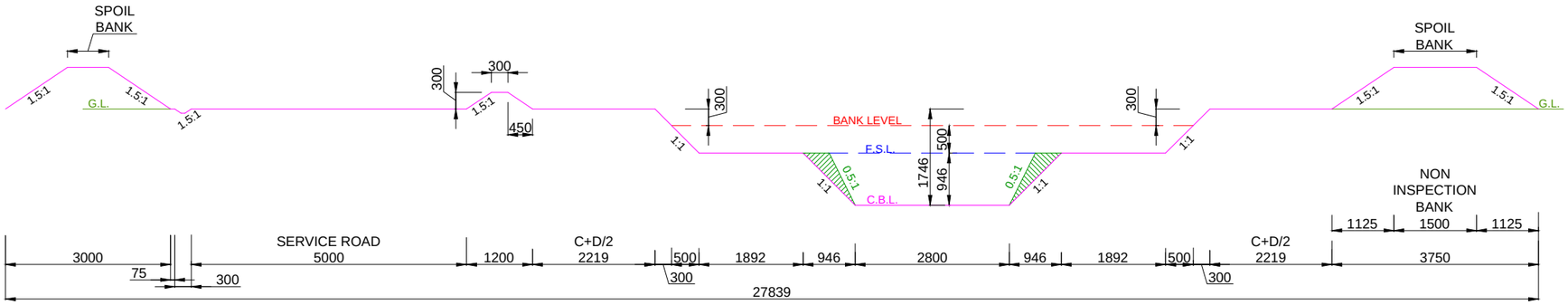
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 7 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 14.200 KM TO CH: 16.000 KM

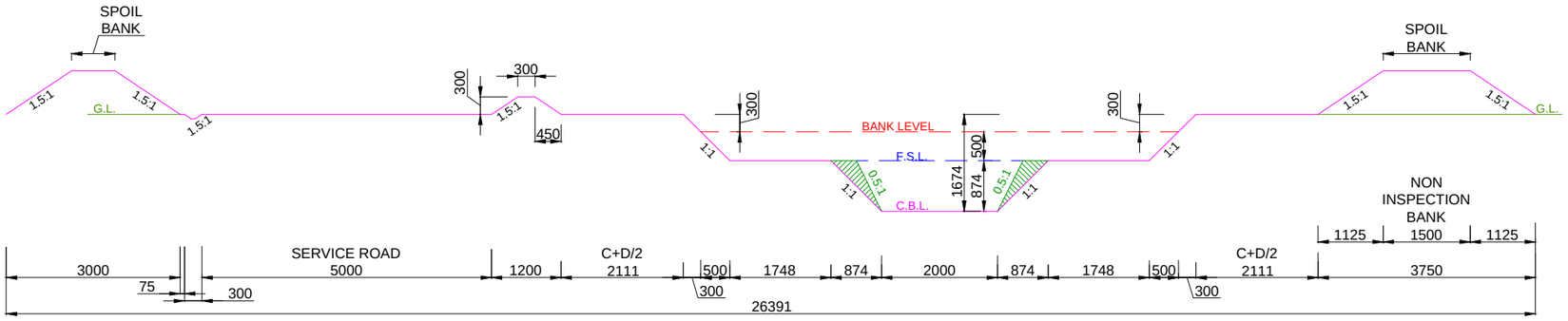
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 8 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 16.000 KM TO CH: 18.100 KM

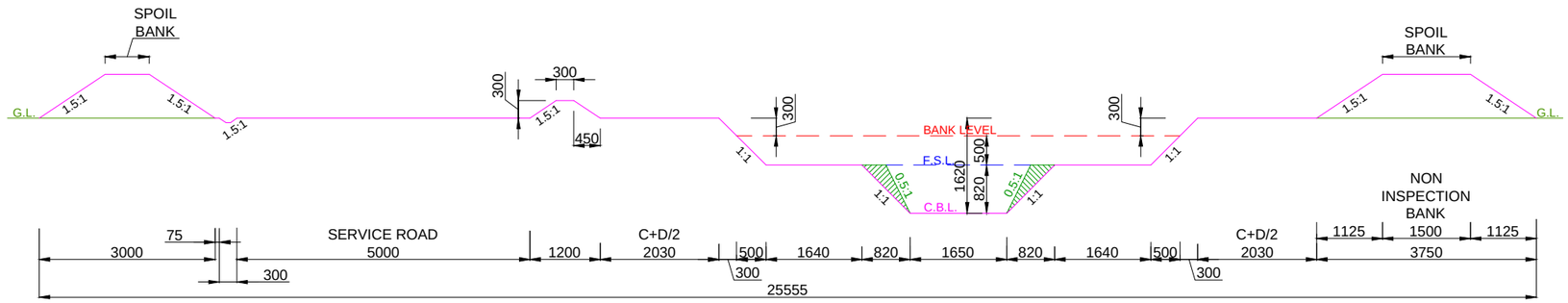
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 9 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 18.100 KM TO CH: 19.250 KM

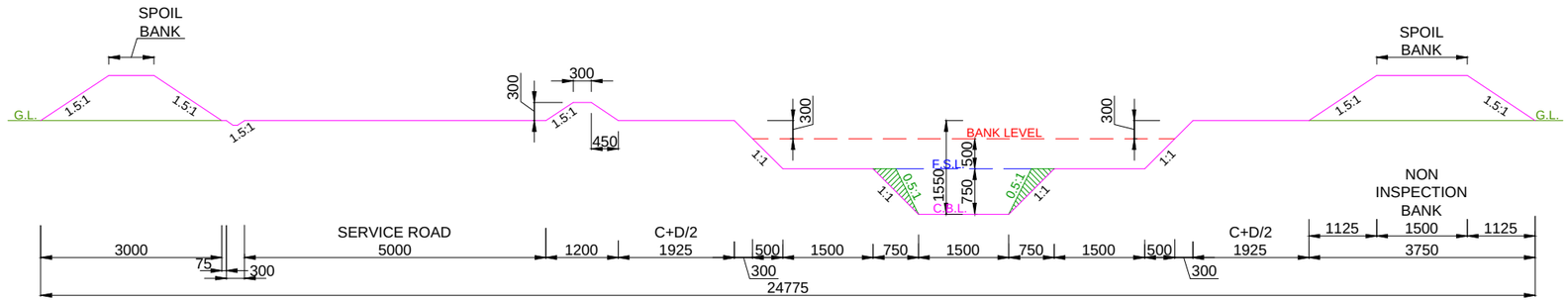
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 19.250 KM TO CH: 20.100 KM

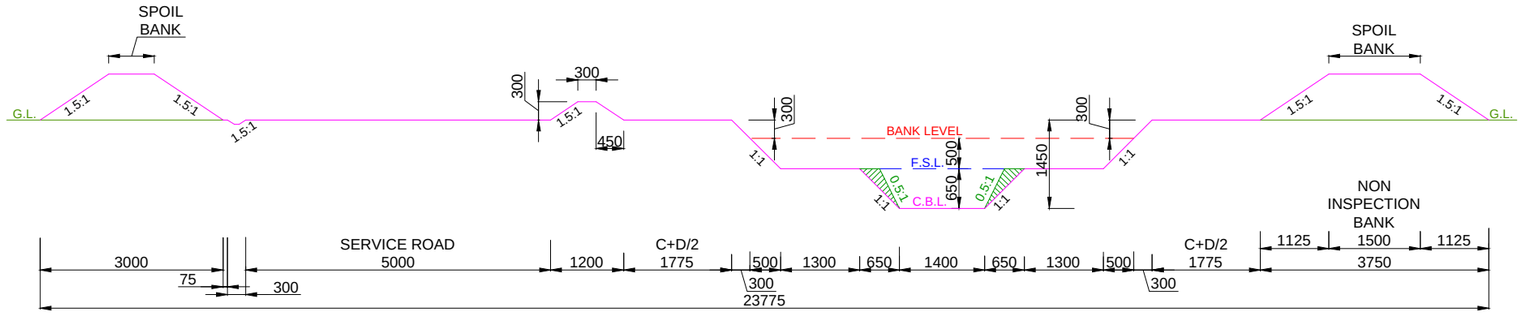
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 11 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 20.100 KM TO CH: 21.580 KM

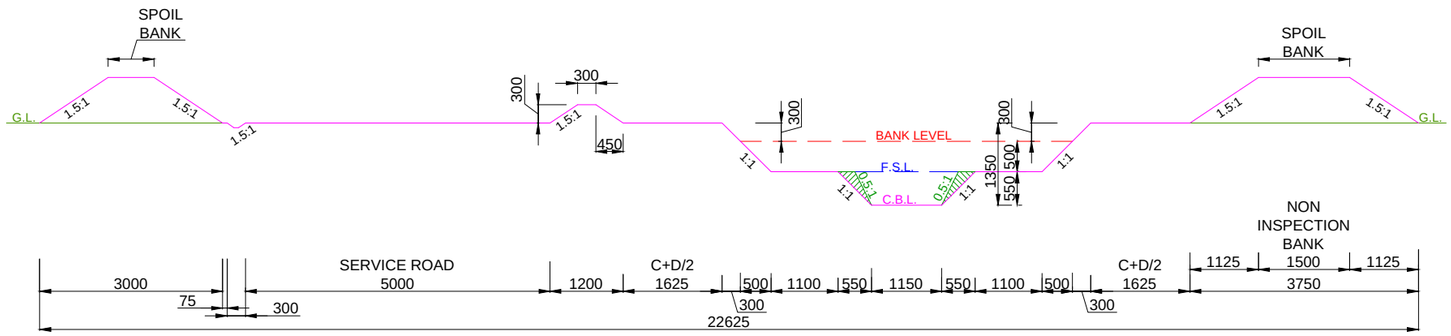
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 21.580 KM TO CH: 22.400 KM

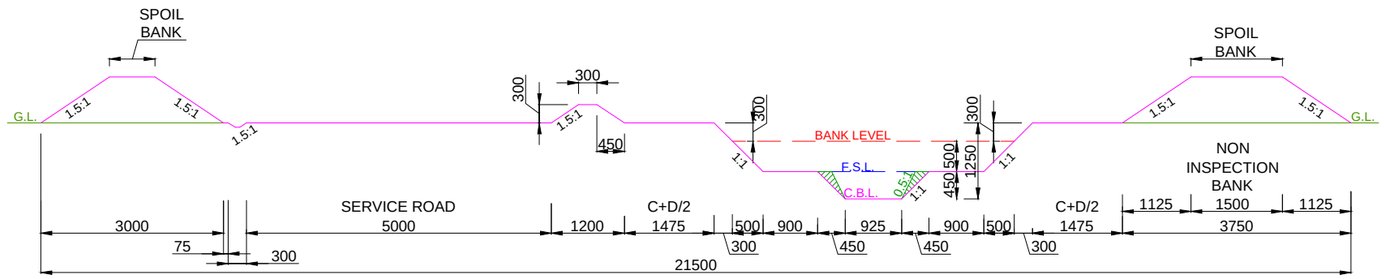
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 13 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 22.400 KM TO CH: 22.800 KM

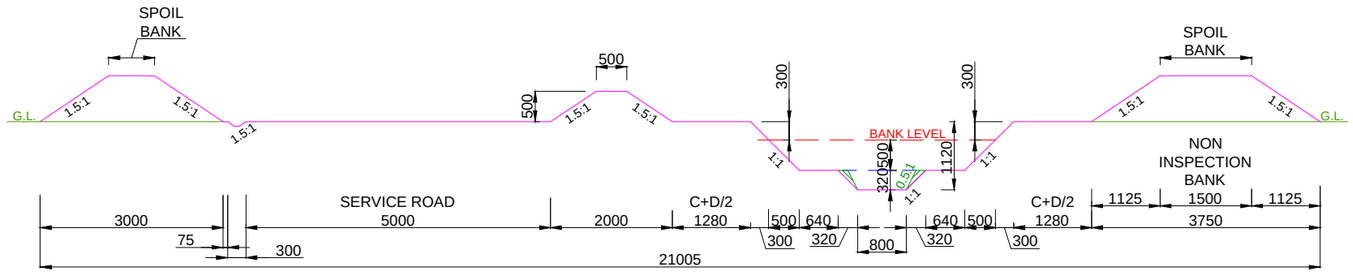
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC) 14 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 22.800 KM TO CH: 23.700 KM

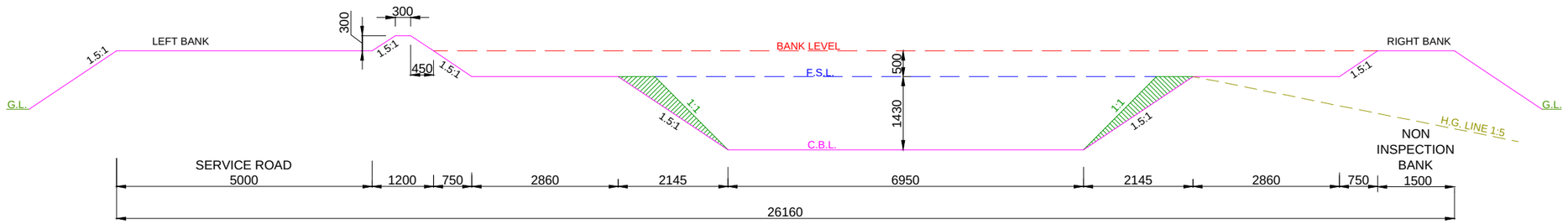
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FC)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.520 KM

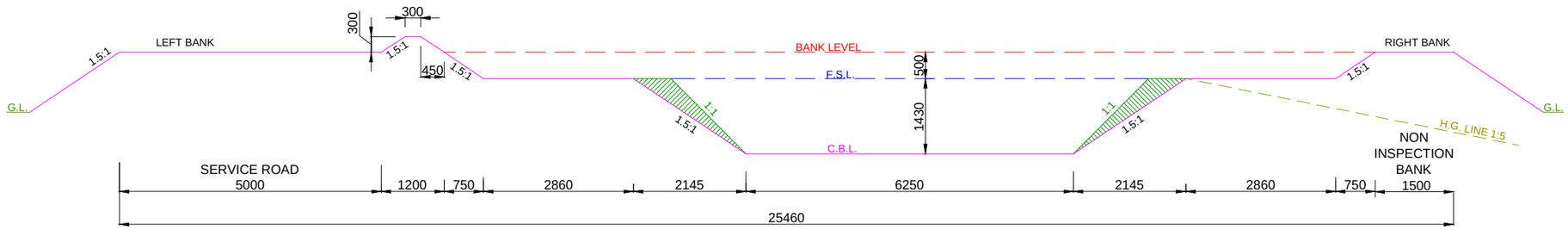
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 1 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 0.520 KM TO CH: 4.580 KM

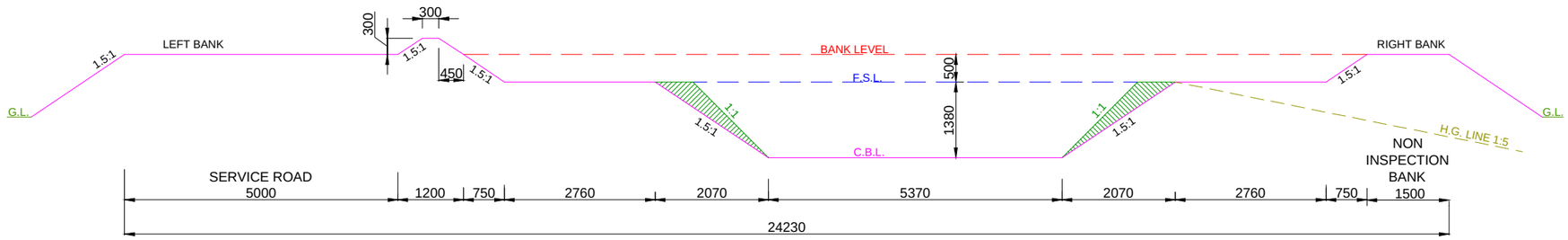
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 2 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 4.580 KM TO CH: 9.450 KM

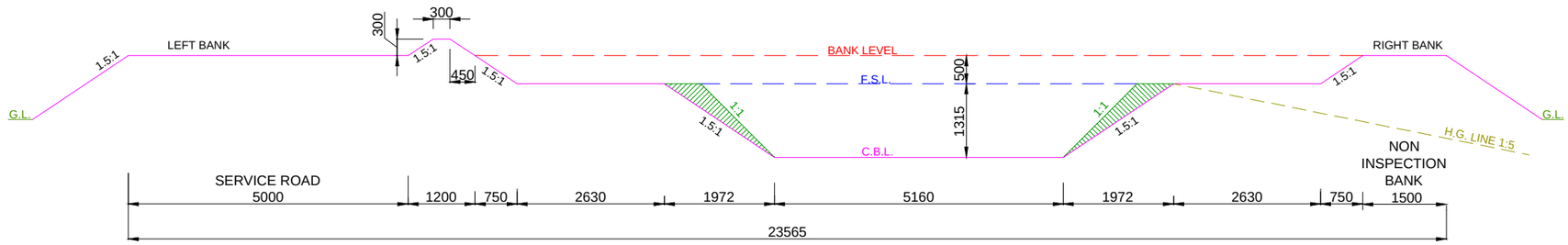
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 3 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 9.450 KM TO CH: 10.060 KM

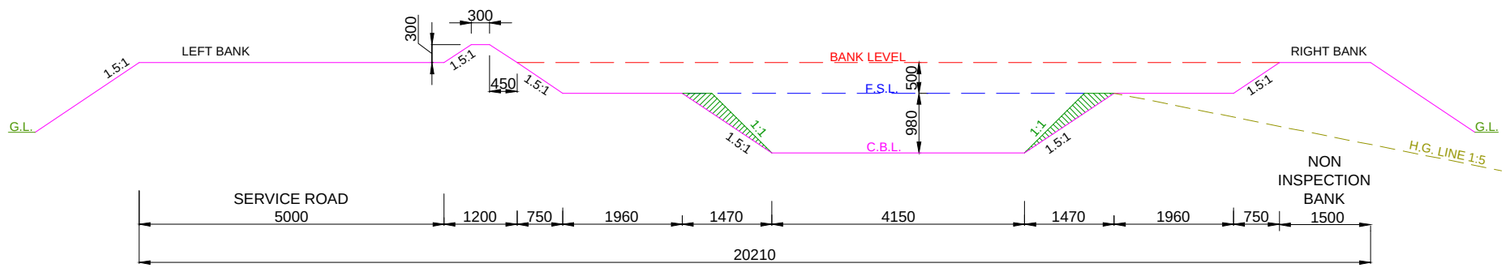
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 4 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 10.060 KM TO CH: 12.530 KM

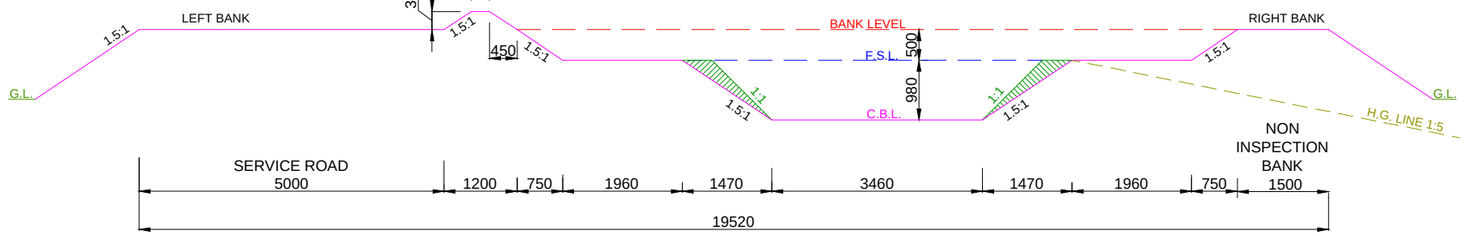
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 5 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 12.530 KM TO CH: 12.685 KM

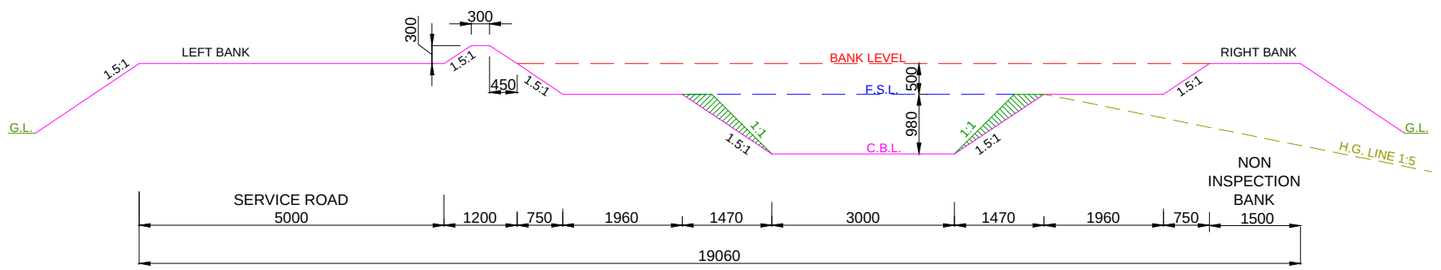
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 6 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 12.685 KM TO CH: 14.200 KM

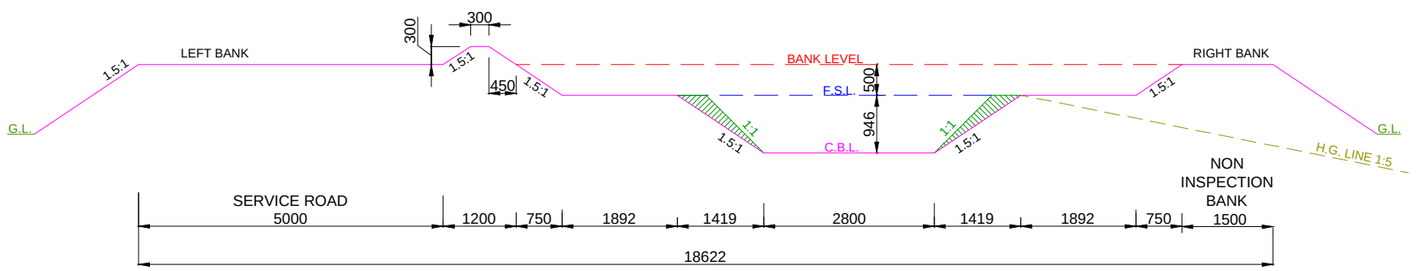
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 7 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 14.200 KM TO CH: 16.000 KM

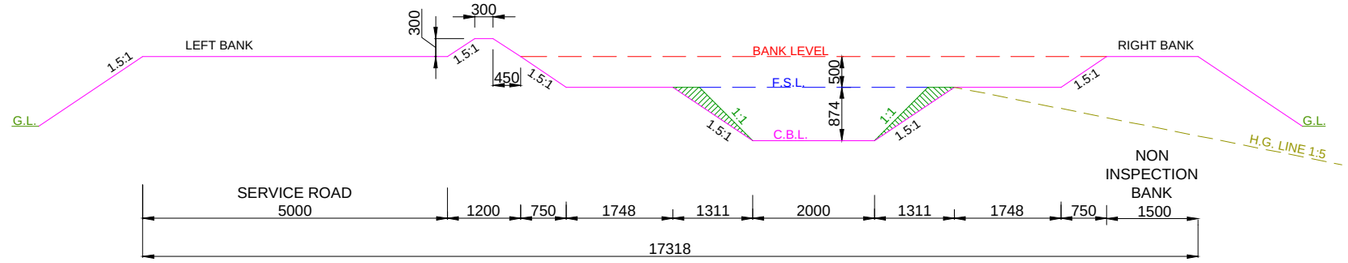
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 8 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 16.000 KM TO CH: 18.100 KM

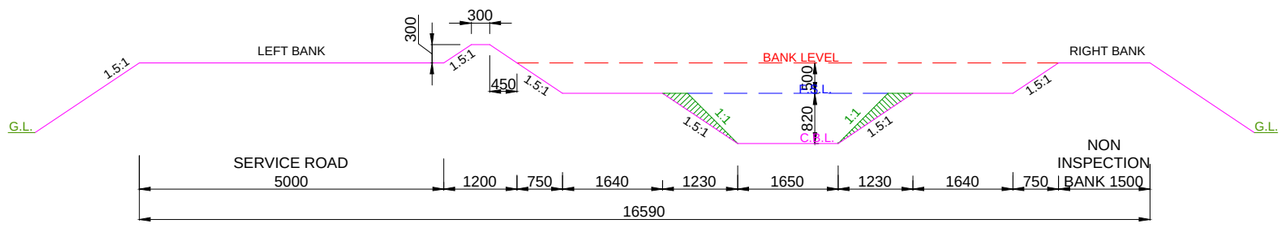
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 9 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 18.100 KM TO CH: 19.250 KM

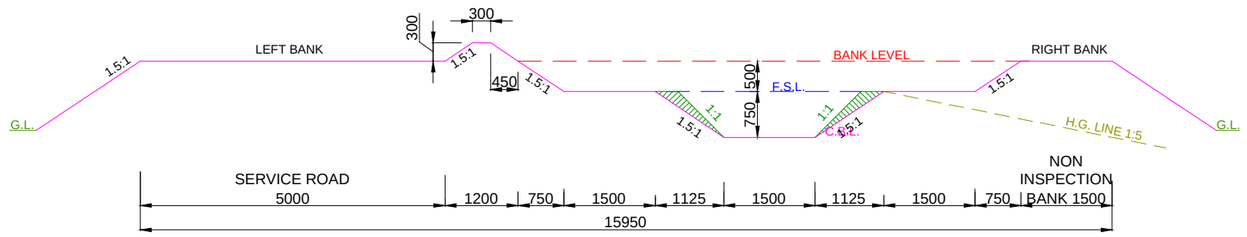
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 10 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 19.250 KM TO CH: 20.100 KM

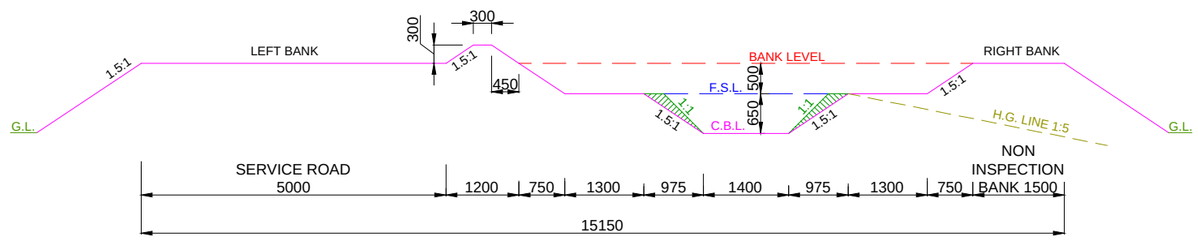
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 20.100 KM TO CH: 21.580 KM

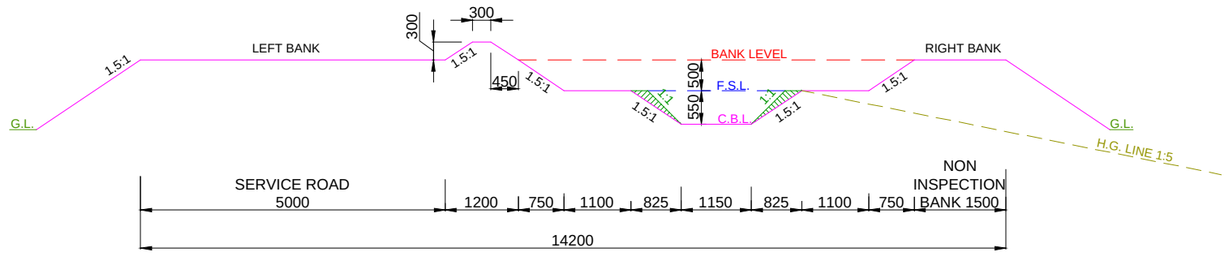
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF) 12 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 21.580 KM TO CH: 22.400 KM

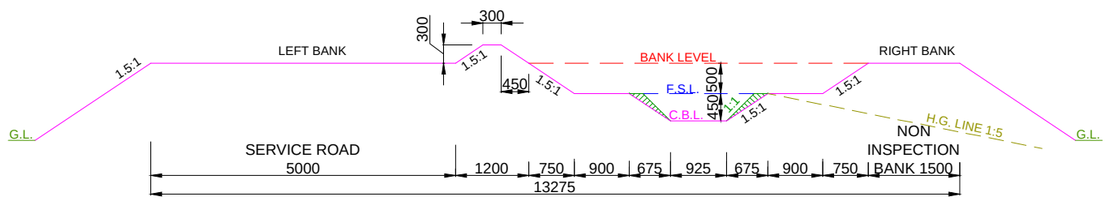
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 22.400 KM TO CH: 22.800 KM

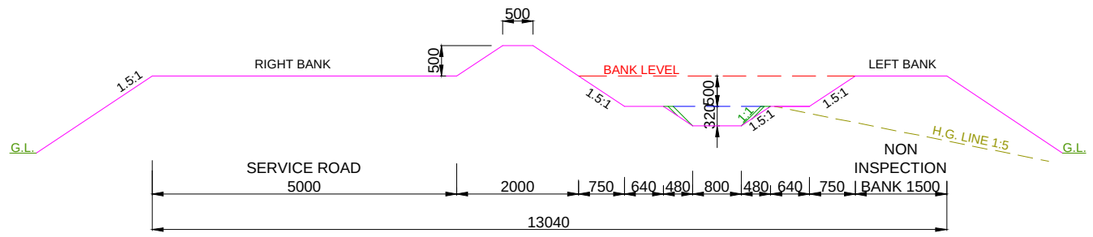
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 22.800 KM TO CH: 23.700 KM

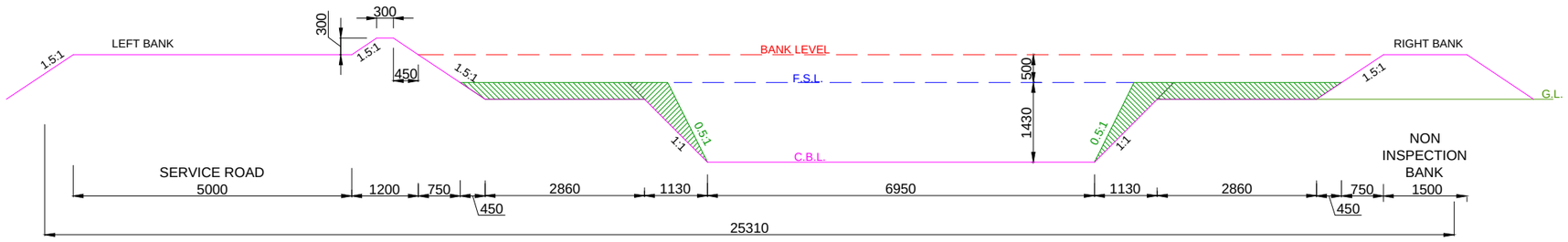
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(FF)

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.520 KM

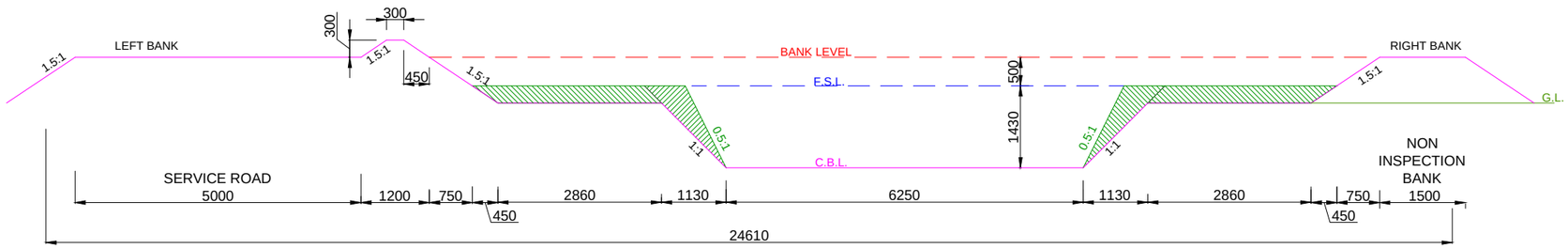
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 1 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 0.520 KM TO CH: 4.580 KM

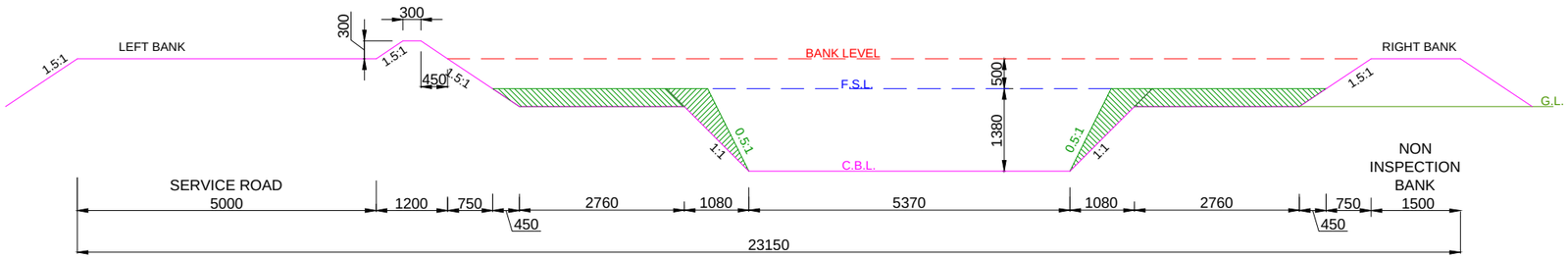
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 2 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 4.580 KM TO CH: 9.450 KM

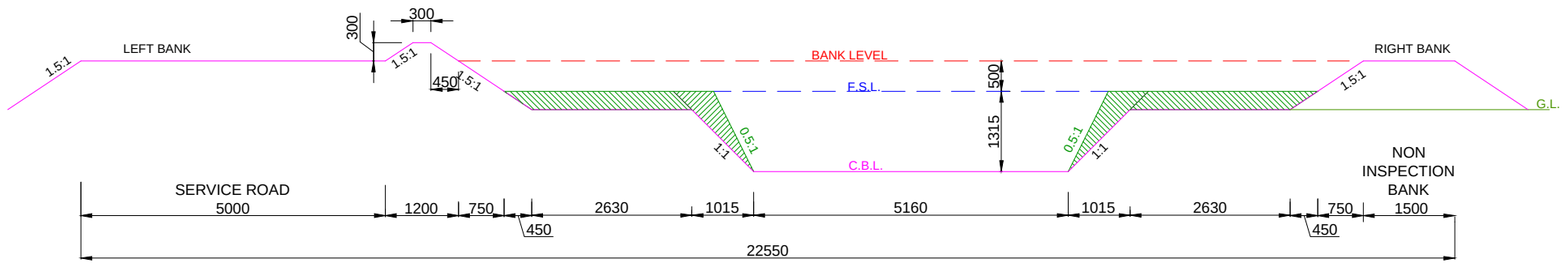
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 3 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 9.450 KM TO CH: 10.060 KM

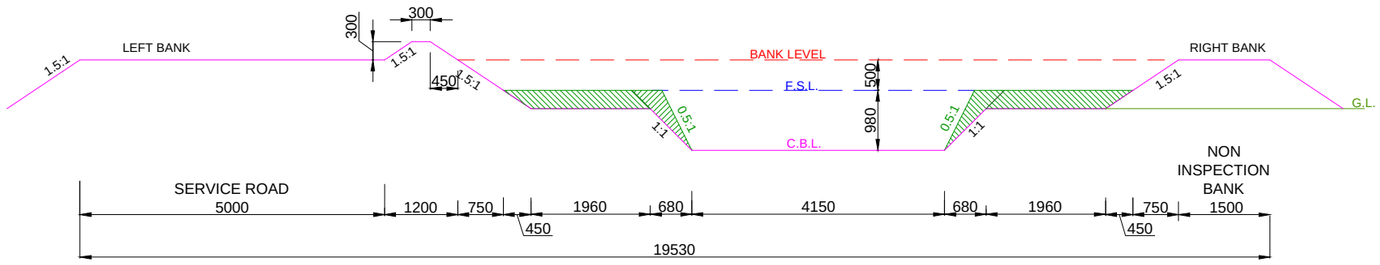
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
CUT AREA			Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
FILL AREA			Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 4 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 10.060 KM TO CH: 12.530 KM

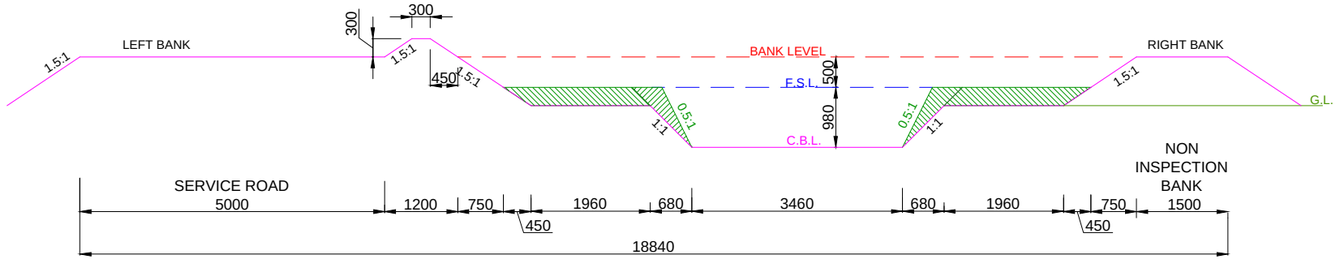
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 5 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 12.530 KM TO CH: 12.685 KM

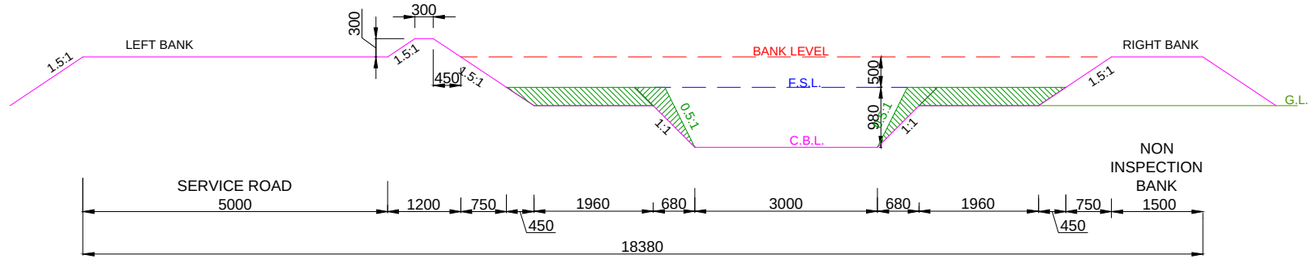
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 6 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 12.685 KM TO CH: 14.200 KM

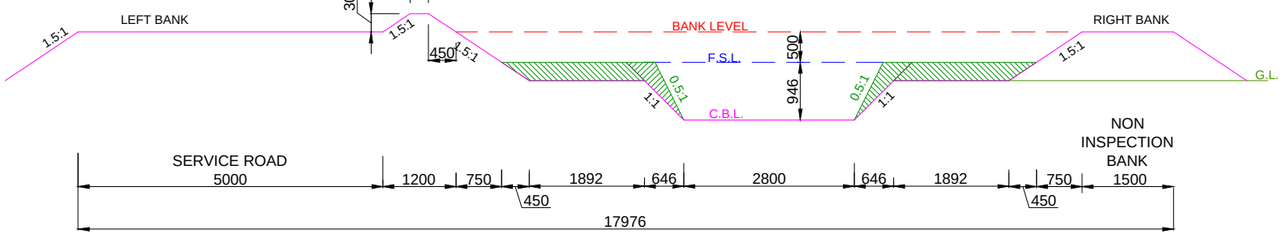
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 7 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 14.200 KM TO CH: 16.000 KM

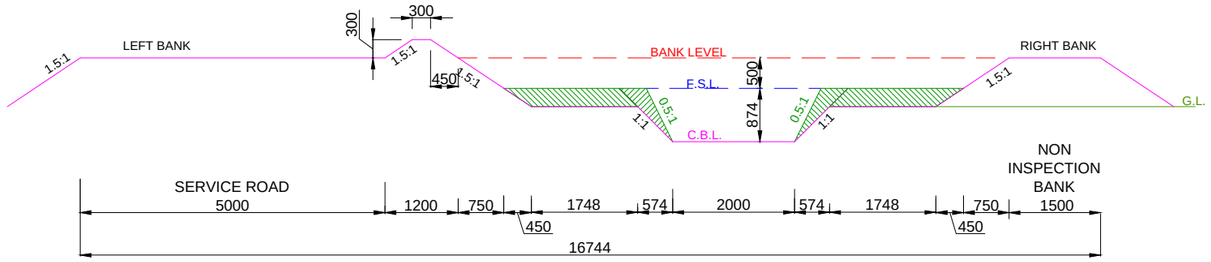
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 8 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 16.000 KM TO CH: 18.100 KM

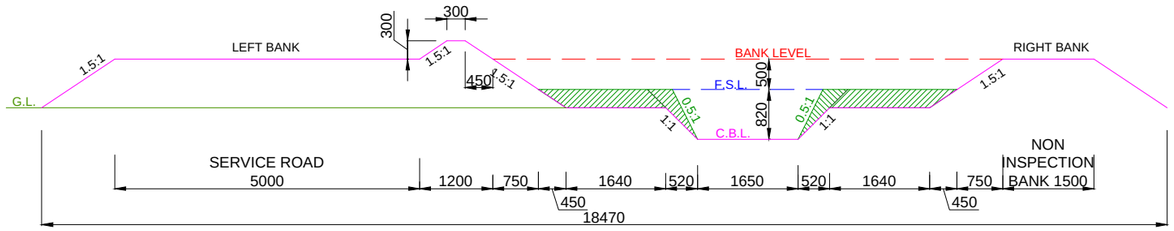
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 9 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 18.100 KM TO CH: 19.250 KM

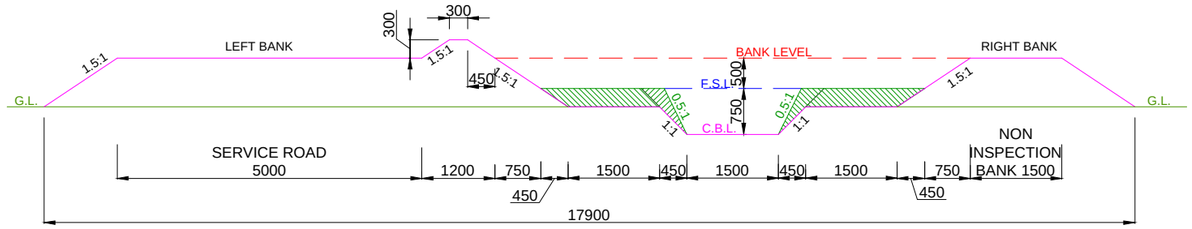
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 10 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 19.250 KM TO CH: 20.100 KM

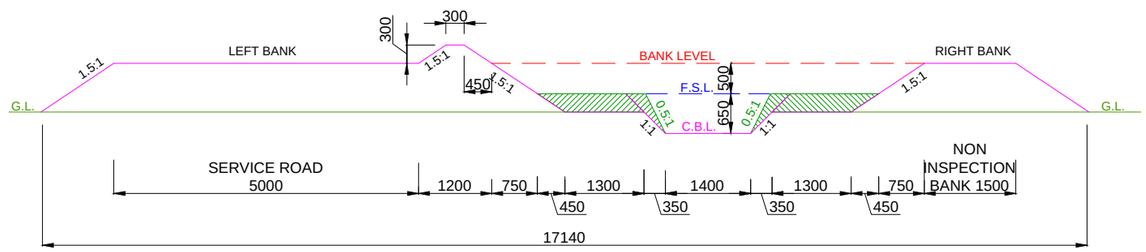
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 11 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 20.100 KM TO CH: 21.580 KM

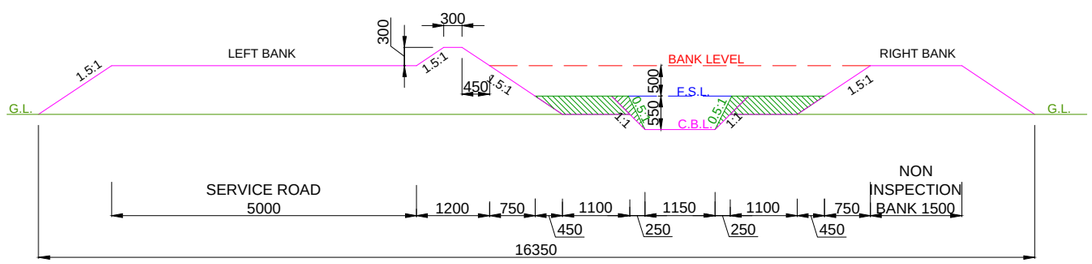
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 12 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 21.580 KM TO CH: 22.400 KM

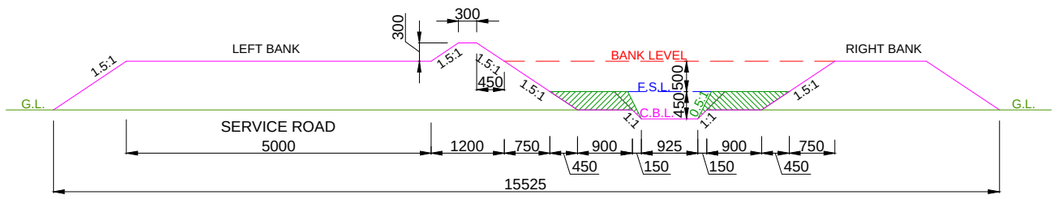
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 13 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



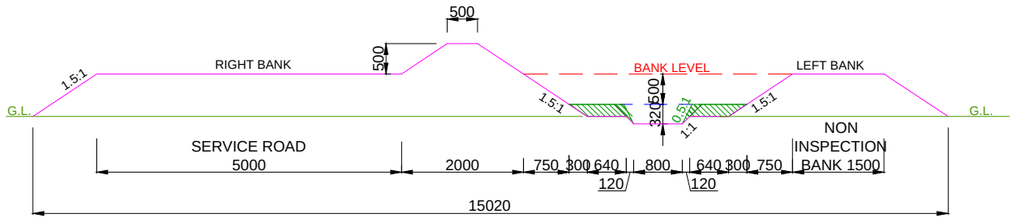
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 14 of 15

TYPICAL X - SECTION OF BASDIHA DISTRIBUTARY
(OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 22.800 KM TO CH: 23.700 KM

NOTE:-

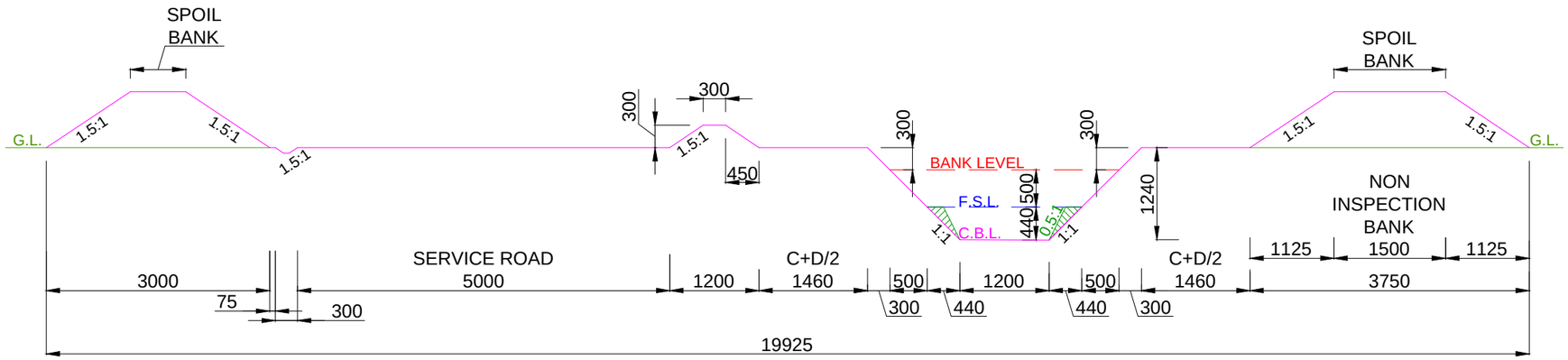
1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC /TYP-(PCF) 15 of 15

SHANKARPUR MINOR

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 0.000 M TO CH: 2.300 M

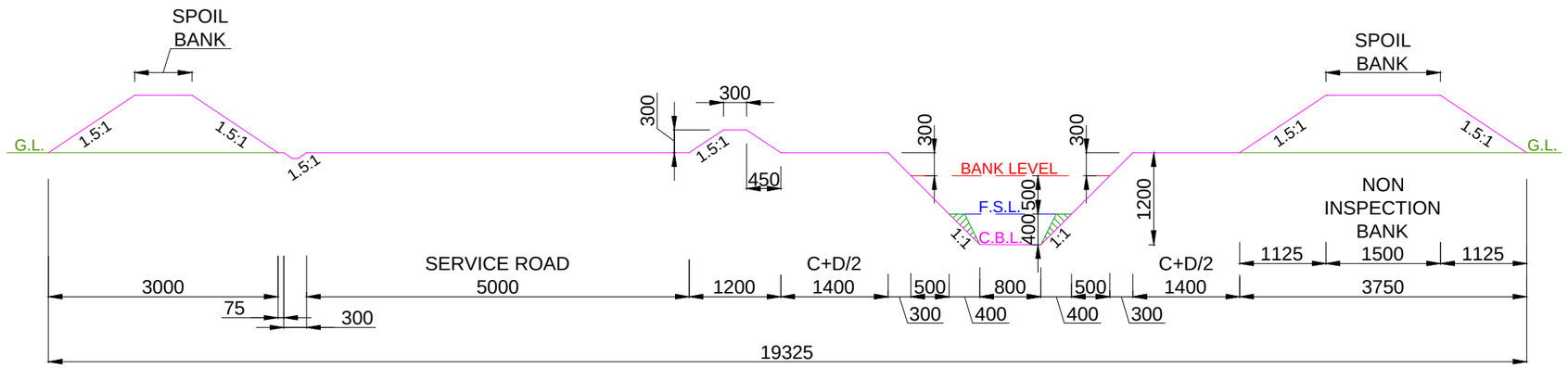
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(FC) 1 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 2.300 M TO CH: 4.150 M

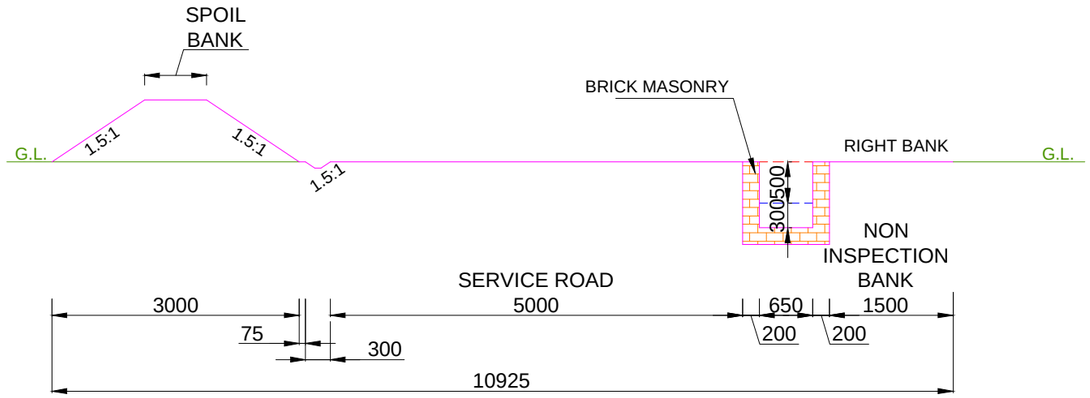
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
CUT AREA			Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
FILL AREA			Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(FC) 2 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



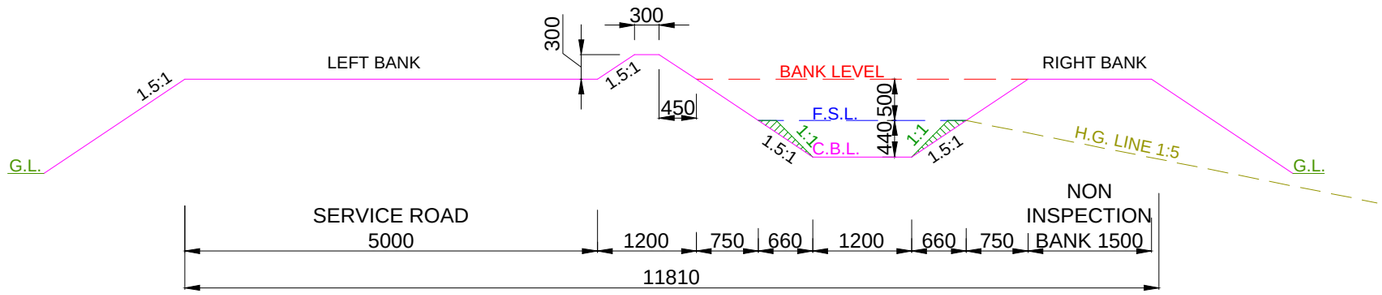
DESIGN SECTION FROM CH: 4.150 M TO CH: 4.950 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(FC) 3 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 0.000 M TO CH: 2.300 M

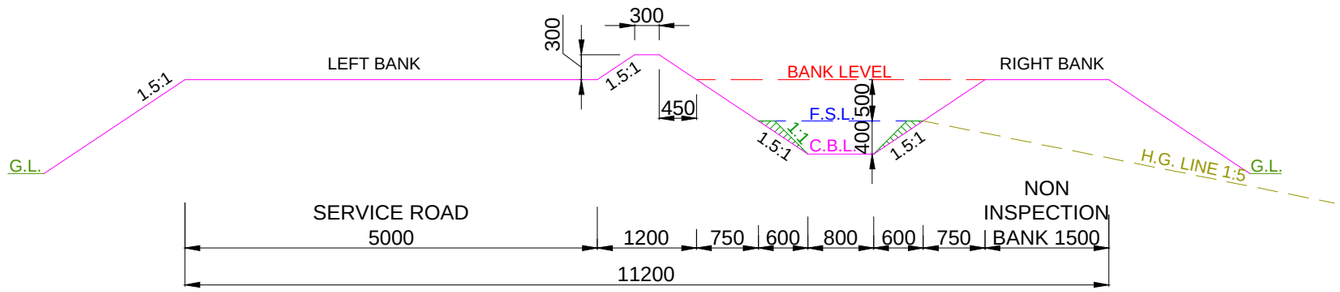
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(FF) 1 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 2.300 M TO CH: 4.150 M

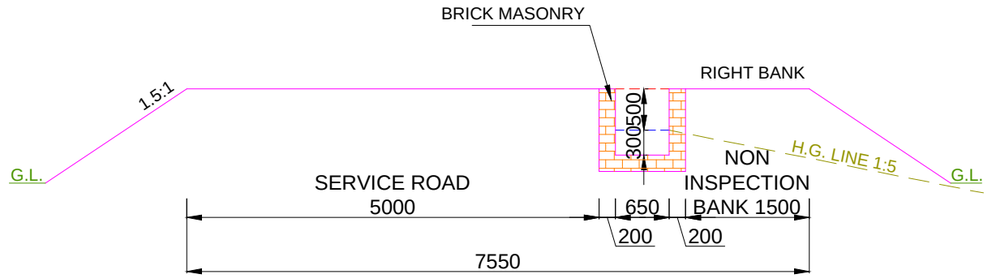
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(FF) 2 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



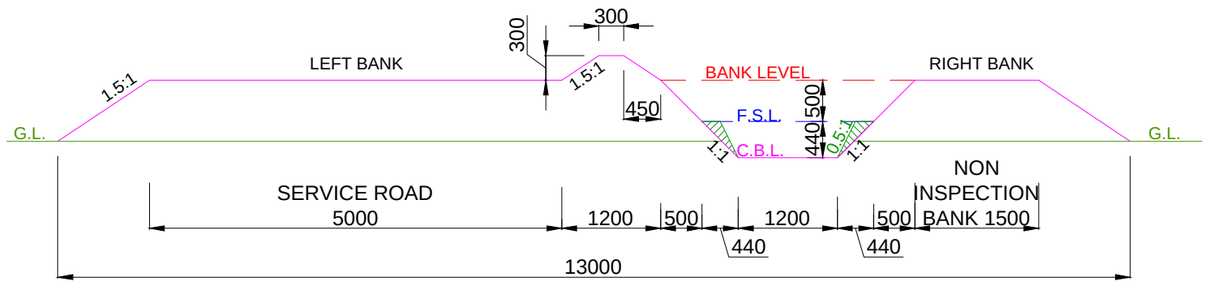
DESIGN SECTION FROM CH: 4.150 M TO CH: 4.950 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(FF) 3 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



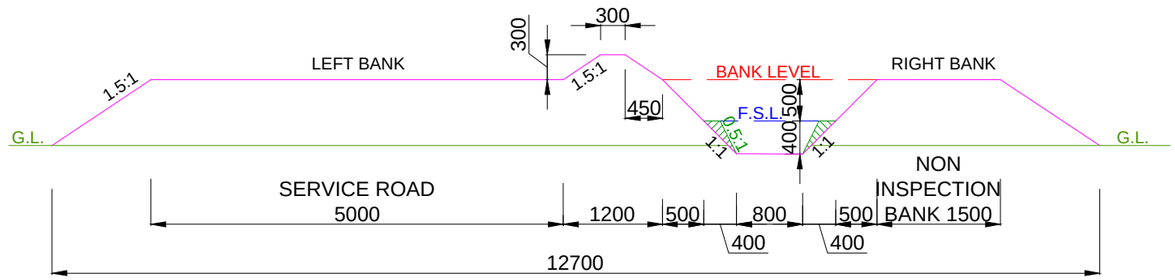
DESIGN SECTION FROM CH: 0.000 M TO CH: 2.300 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(PCF) 1 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 2.300 M TO CH: 4.150 M

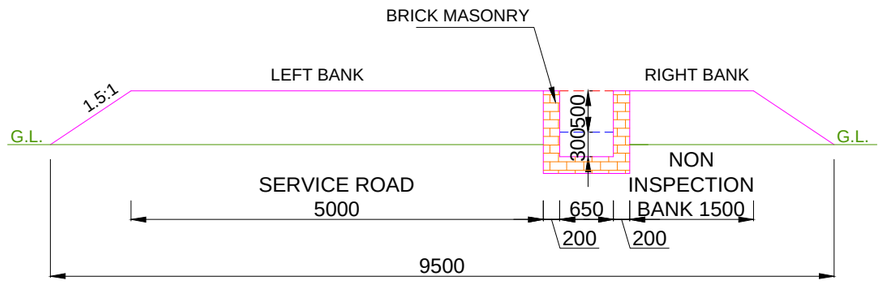
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(PCF) 2 of 3

TYPICAL X - SECTION OF SHANKARPUR MINOR
(OFFTAKE FROM RD - 0+345 KM. (LT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 4.150 M TO CH: 4.950 M

NOTE:-

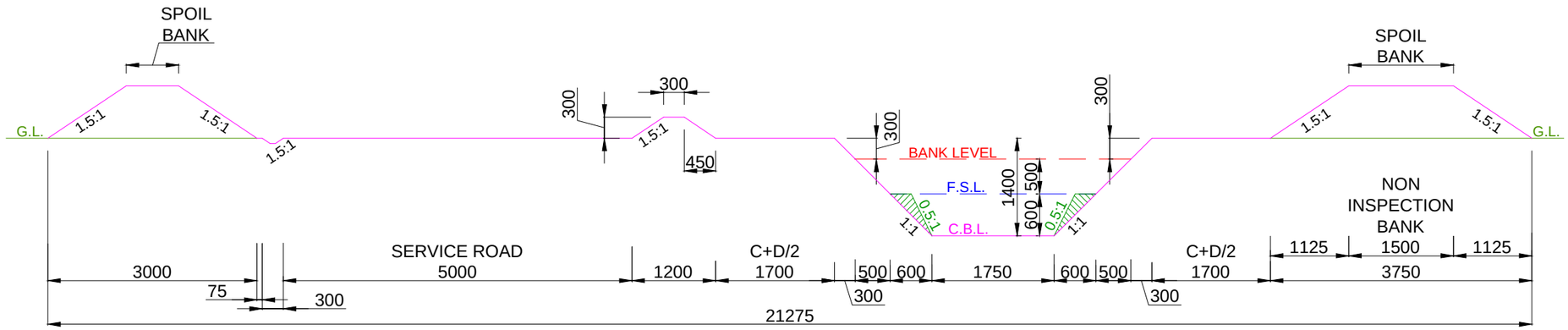
1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC /TYP-(PCF) 3 of 3

KHAIRA MINOR

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 4.800 KM

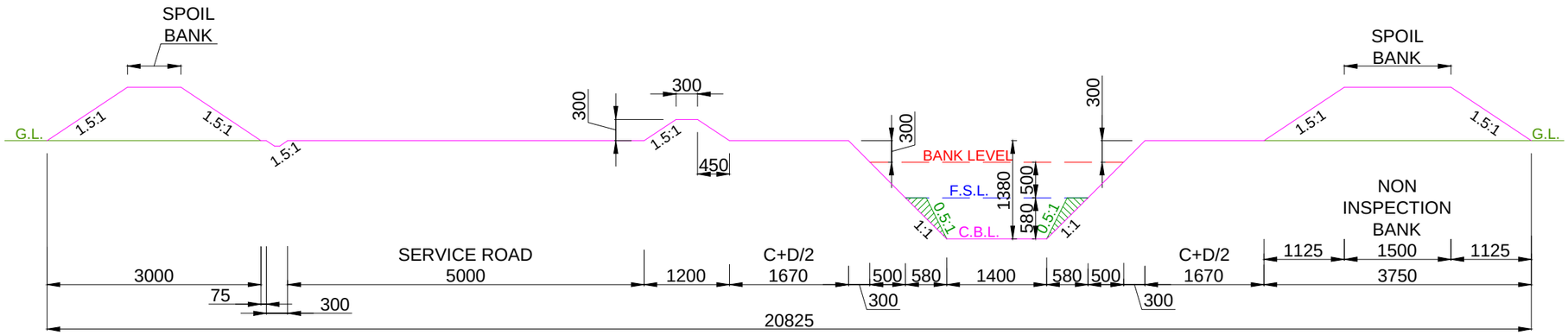
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FC) 1 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 4.800 KM TO CH: 6.400 KM

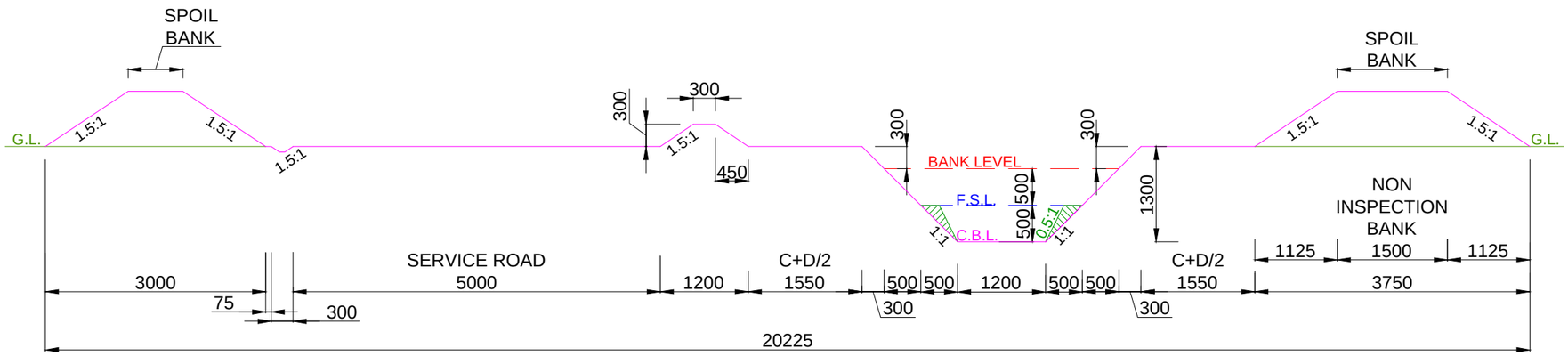
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FC) 2 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 6.400 KM TO CH: 7.620 KM

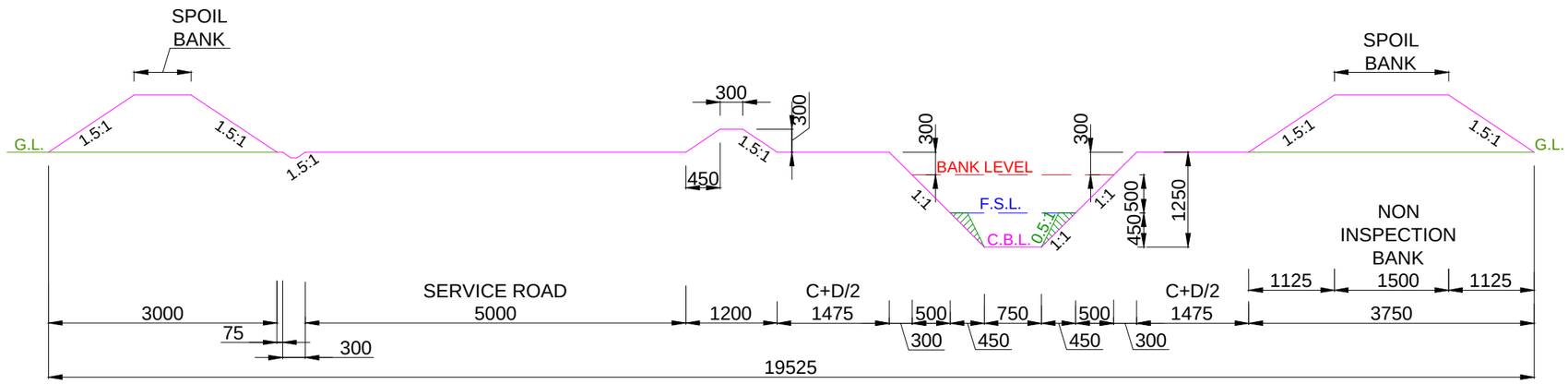
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FC) 3 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 7.620 KM TO CH: 9.144 KM

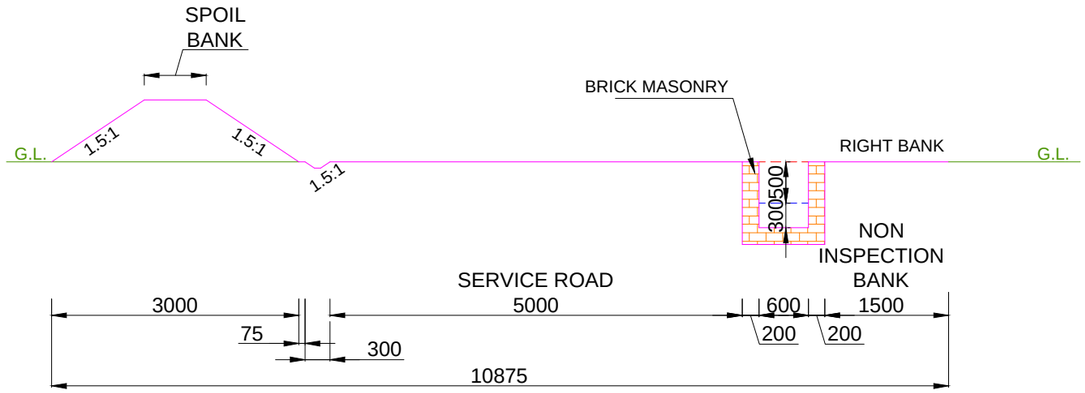
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FC) 4 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 9.144 KM TO CH: 9.400 KM

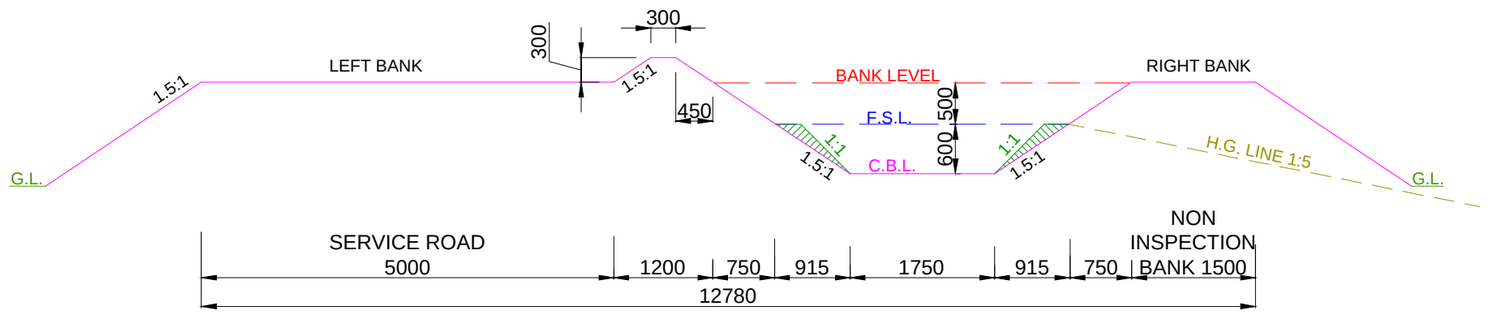
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FC) 5 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 4.800 KM

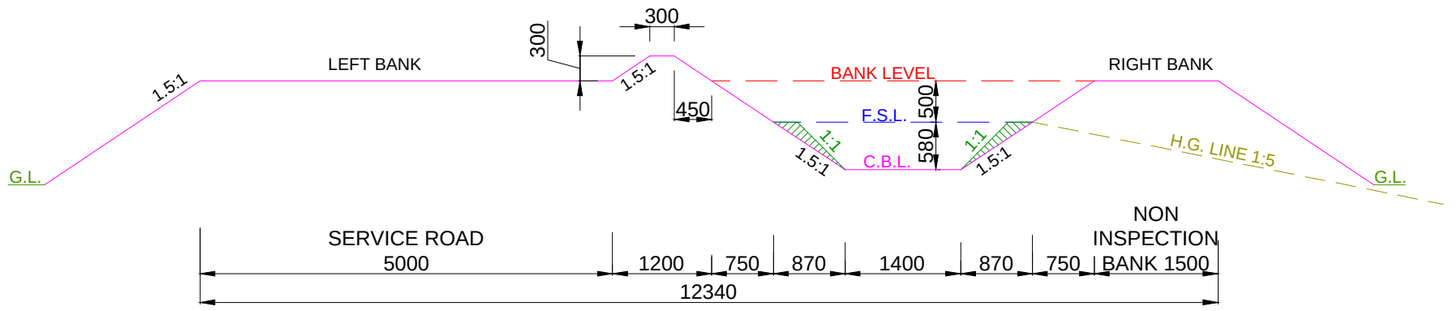
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FF) 1 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 4.800 KM TO CH: 6.400 KM

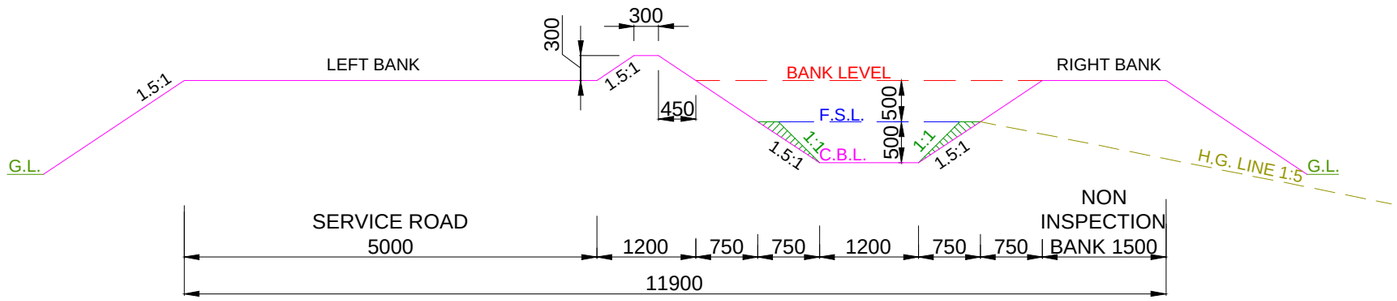
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FF) 2 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 6.400 KM TO CH: 7.620 KM

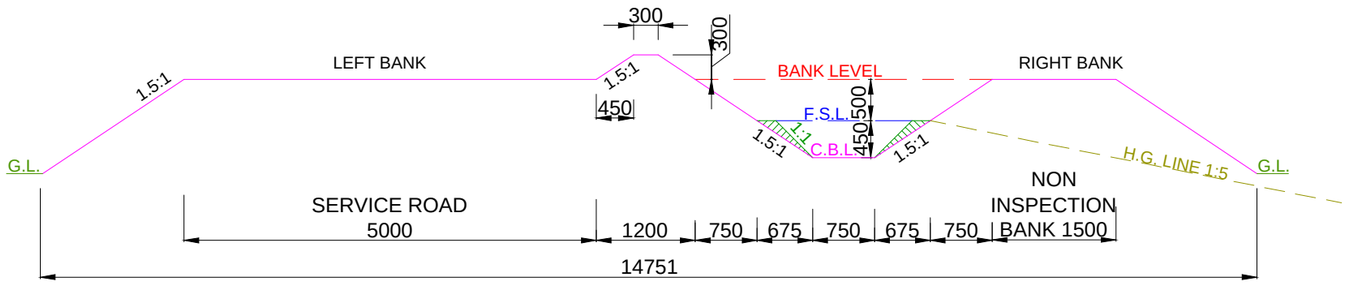
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FF) 3 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 7.620 KM TO CH: 9.144 KM

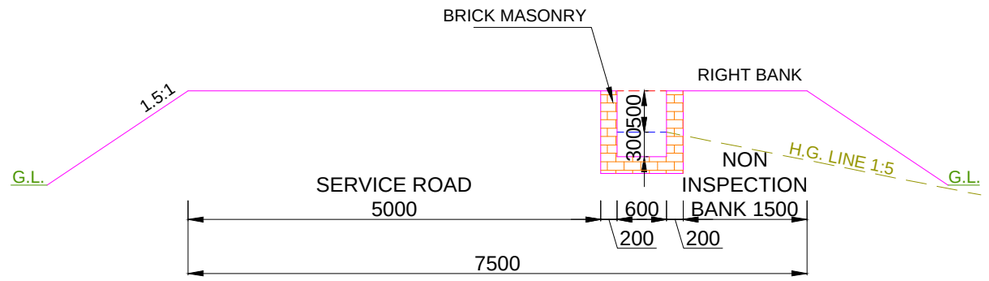
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FF) 4 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 9.144 KM TO CH: 9.400 KM

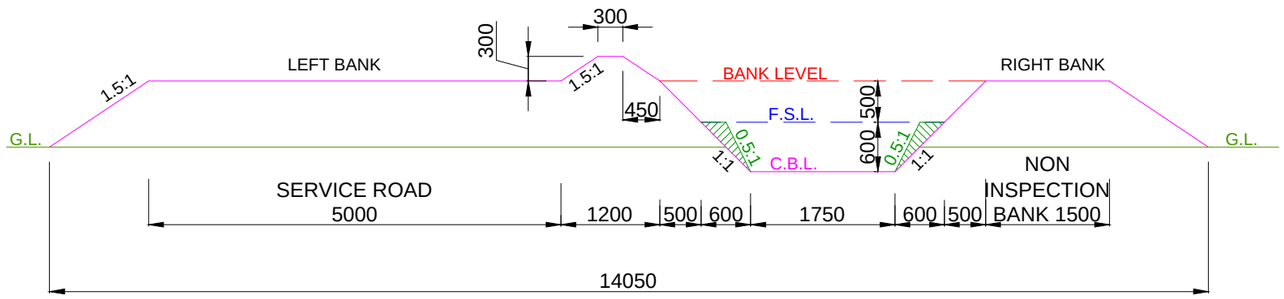
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(FF) 5 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 4.800 KM

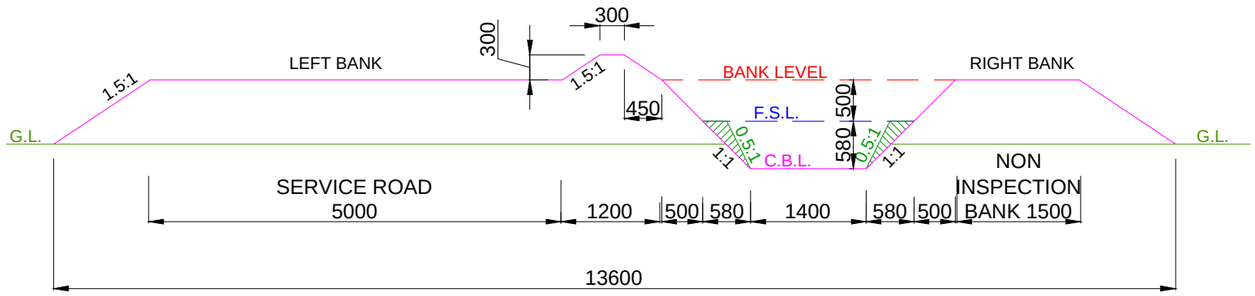
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(PCF) 1 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 4.800 KM TO CH: 6.400 KM

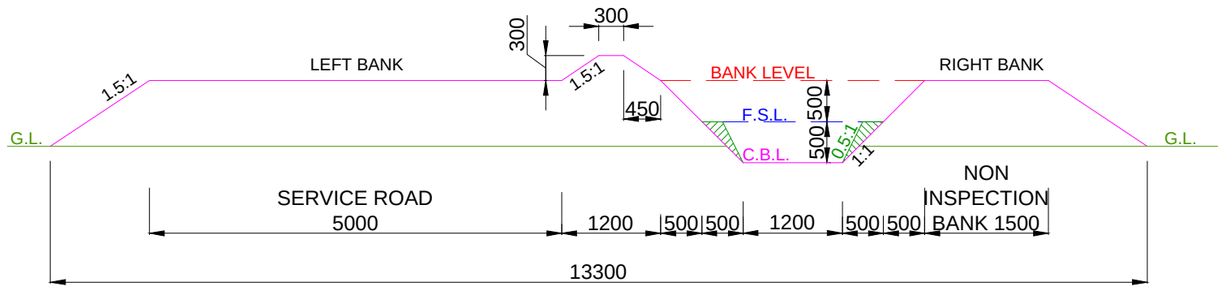
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(PCF) 2 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 6.400 KM TO CH: 7.620 KM

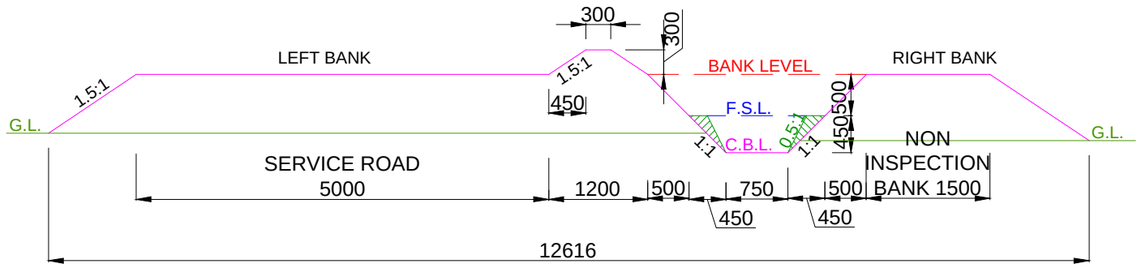
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(PCF) 3 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 7.620 KM TO CH: 9.144 KM

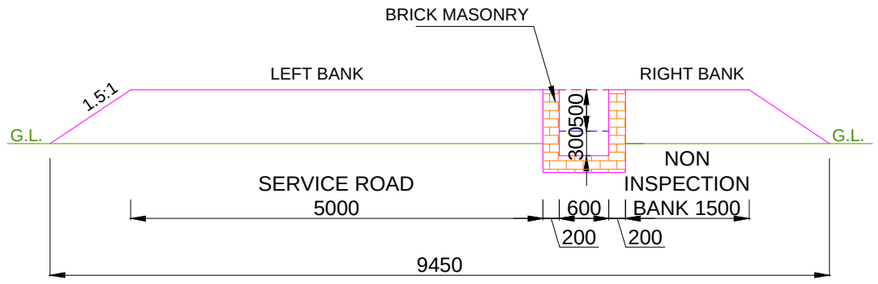
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(PCF) 4 of 5

TYPICAL X - SECTION OF KHAIRA MINOR
(OFFTAKE FROM RD - 0+345 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 9.144 KM TO CH: 9.400 KM

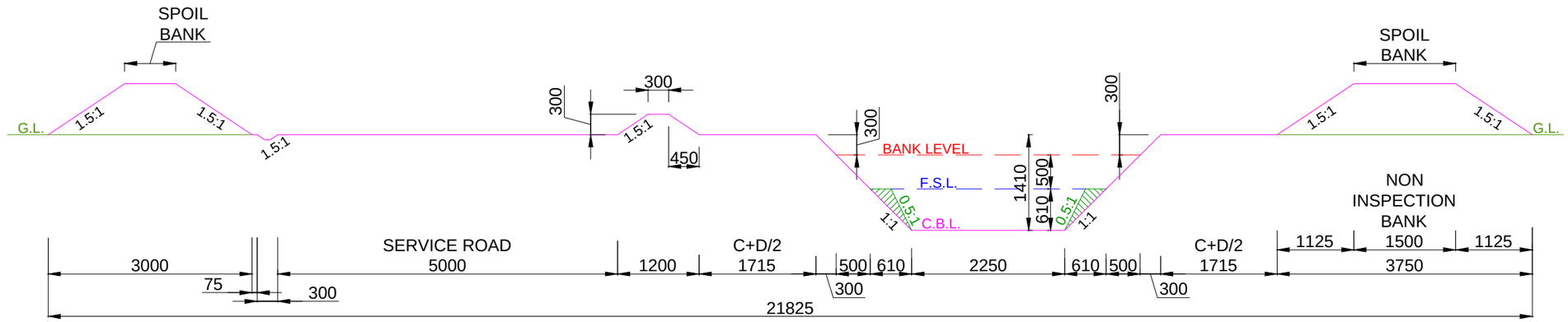
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC /TYP-(PCF) 5 of 5

GAMHARIYA MINOR

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



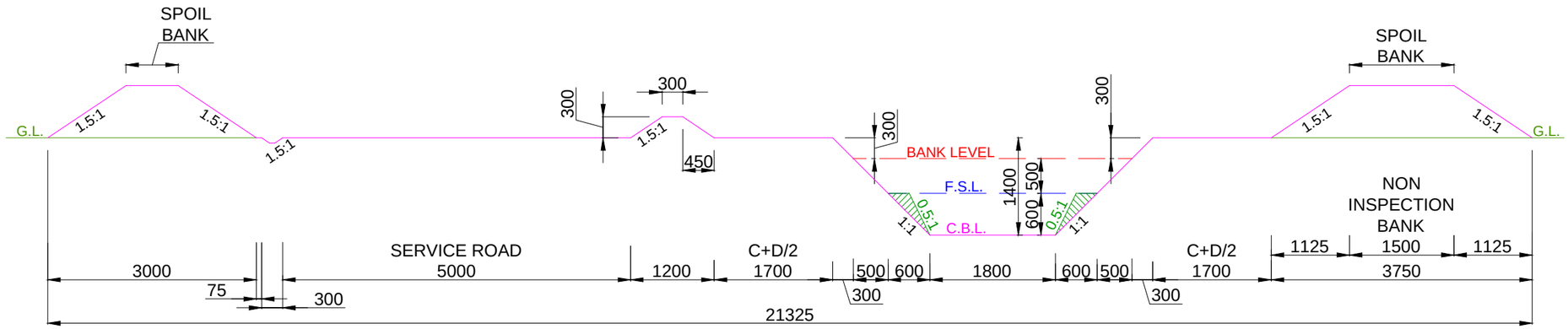
DESIGN SECTION FROM CH: 0.000 M TO CH: 1.700 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 1 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



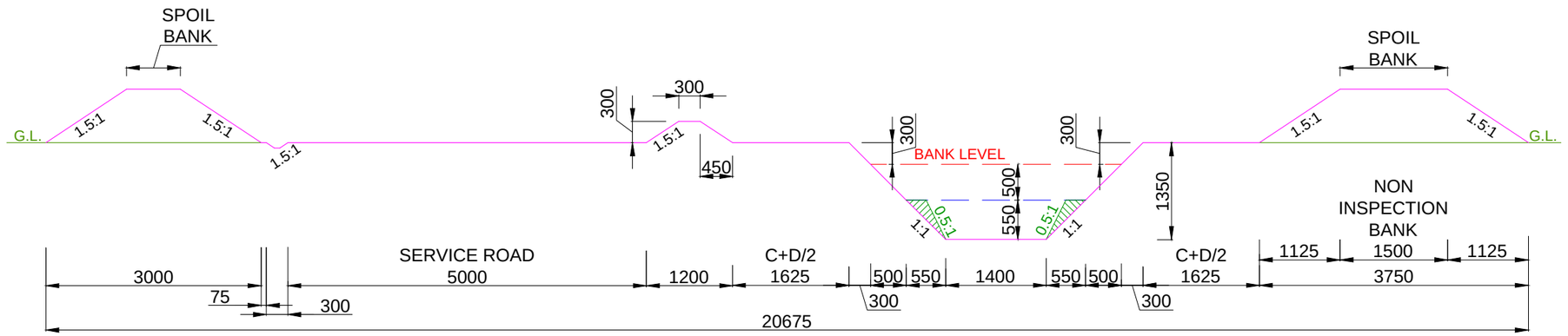
DESIGN SECTION FROM CH: 1.700 M TO CH: 3.900 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 2 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



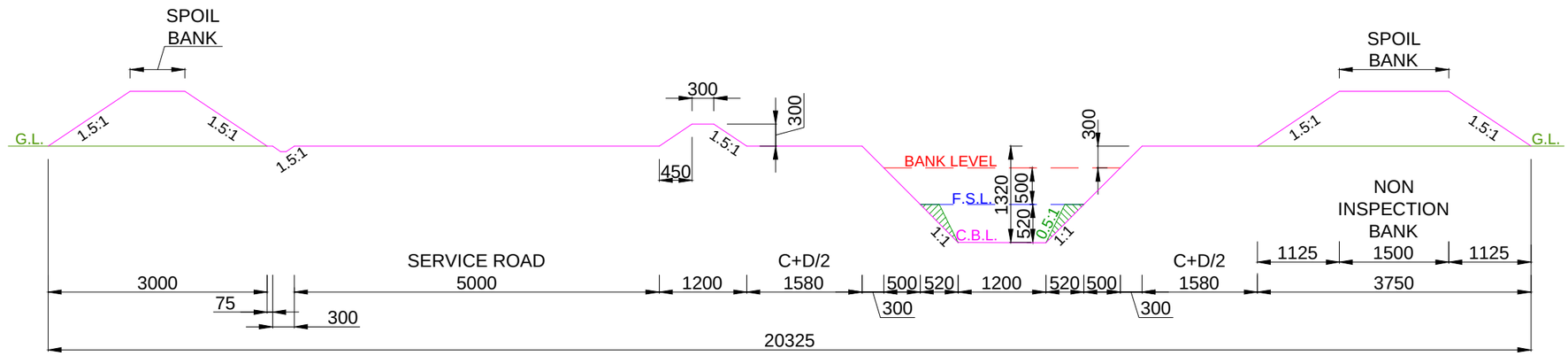
DESIGN SECTION FROM CH: 3.900 M TO CH: 4.300 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 3 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



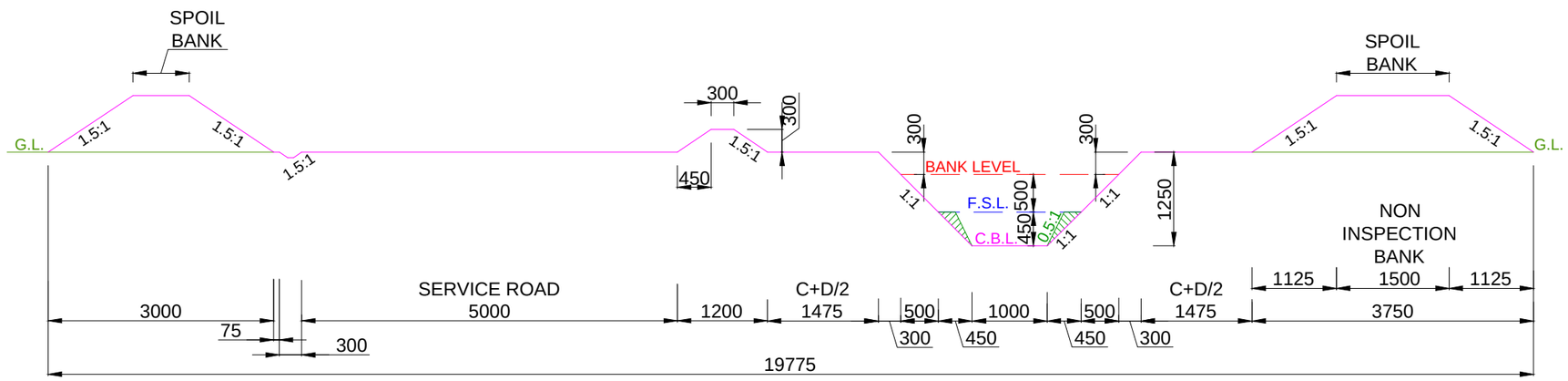
DESIGN SECTION FROM CH: 4.300 M TO CH: 4.570 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 4 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



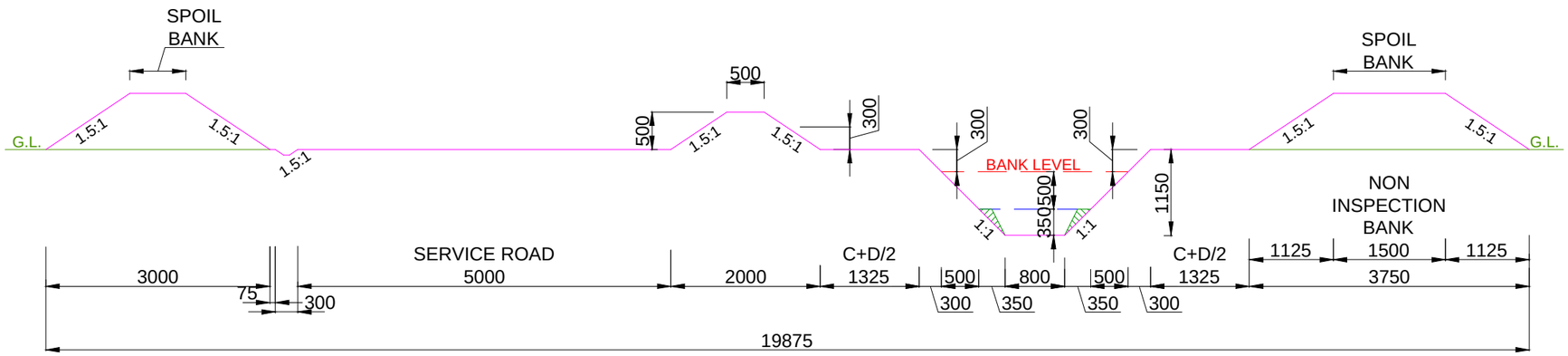
DESIGN SECTION FROM CH: 4.570 M TO CH: 5.330 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 5 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



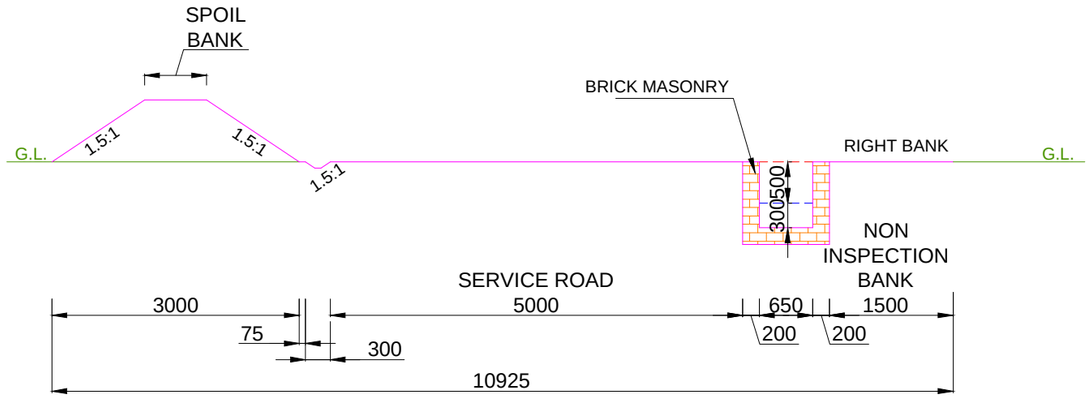
DESIGN SECTION FROM CH: 5.330 M TO CH: 5.550 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 6 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



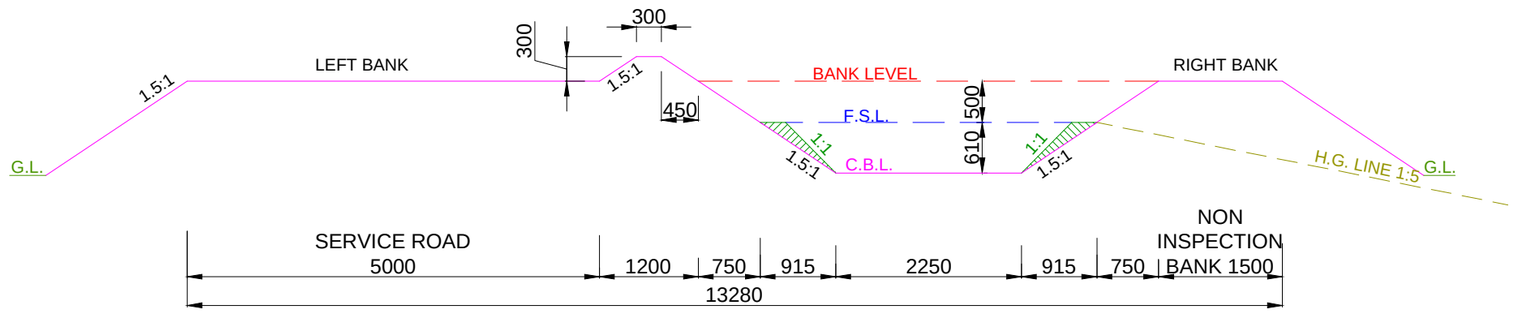
DESIGN SECTION FROM CH: 5.550 M TO CH: 6.150 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FC) 7 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



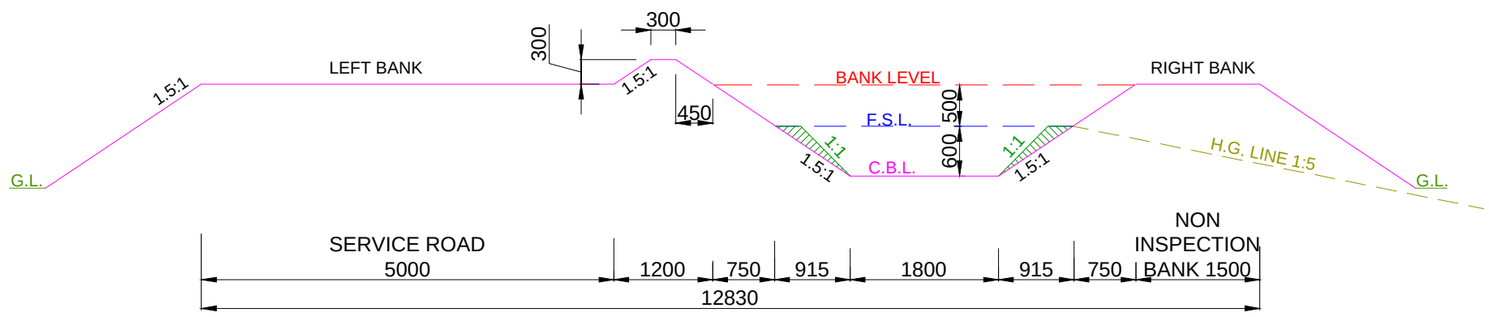
DESIGN SECTION FROM CH: 0.000 M TO CH: 1.700 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 1 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



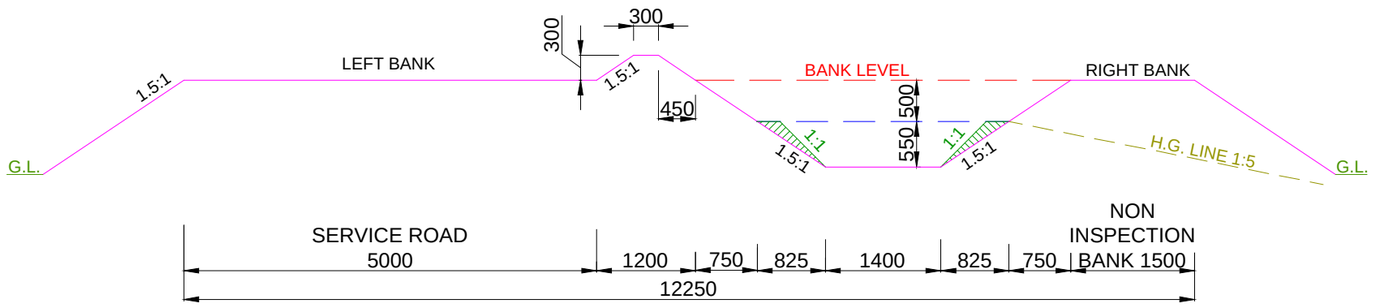
DESIGN SECTION FROM CH: 1.700 M TO CH: 3.900 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 2 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



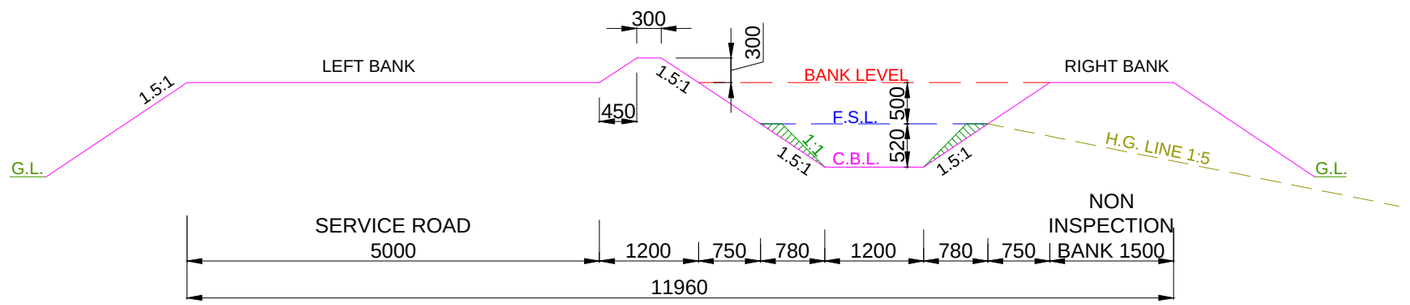
DESIGN SECTION FROM CH: 3.900 M TO CH: 4.300 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 3 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



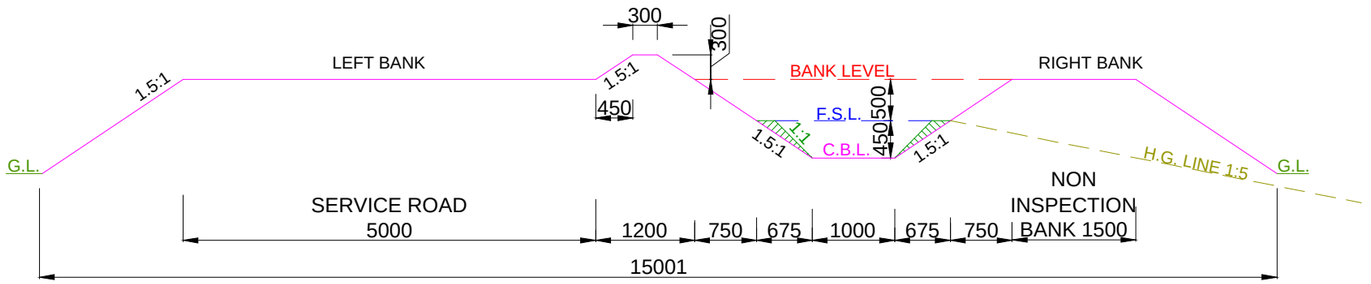
DESIGN SECTION FROM CH: 4.300 M TO CH: 4.570 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 4 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



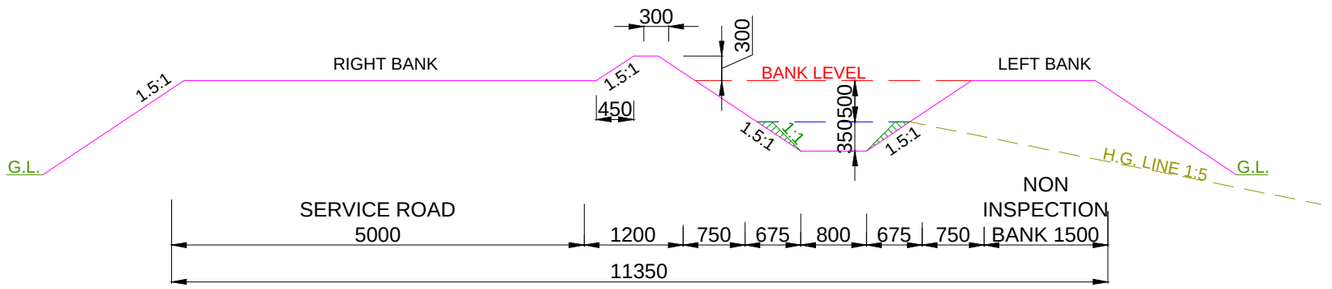
DESIGN SECTION FROM CH: 4.570 M TO CH: 5.330 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 5 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



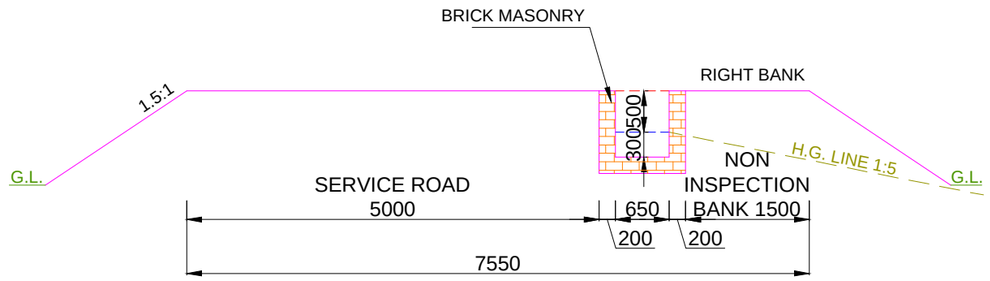
DESIGN SECTION FROM CH: 5.330 M TO CH: 5.550 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 6 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



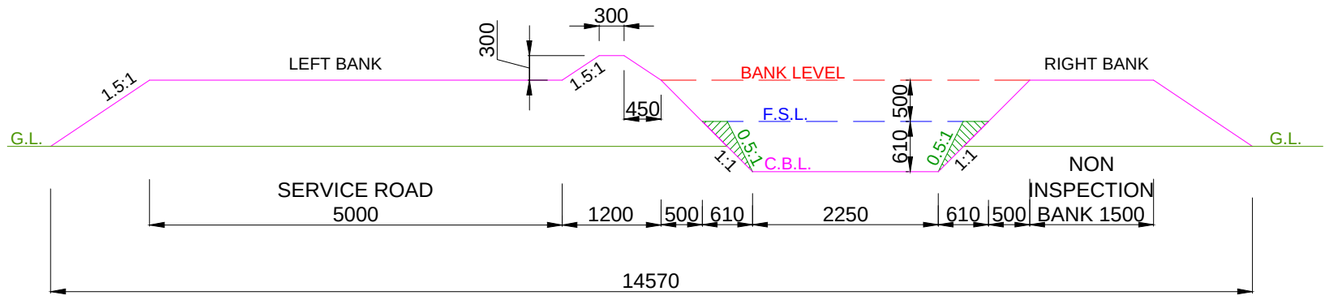
DESIGN SECTION FROM CH: 5.550 M TO CH: 6.150 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(FF) 7 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



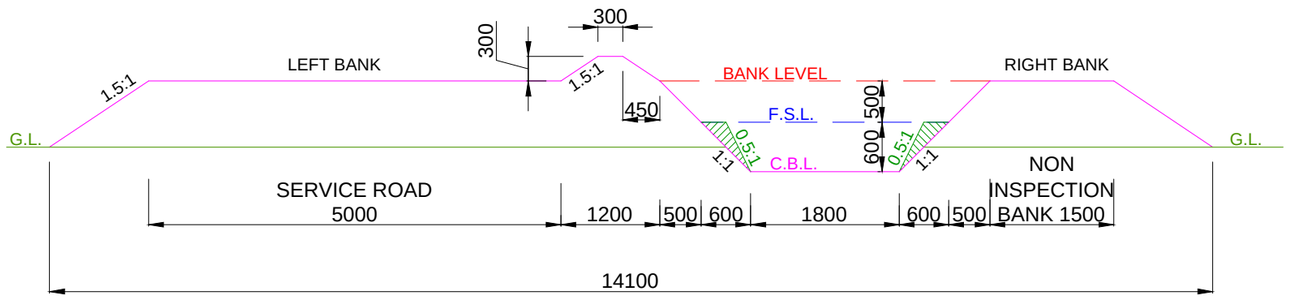
DESIGN SECTION FROM CH: 0.000 M TO CH: 1.700 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 1 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



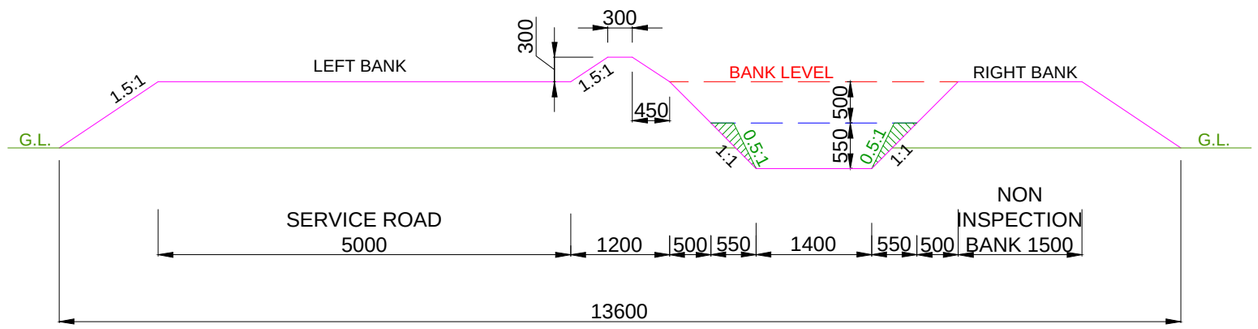
DESIGN SECTION FROM CH: 1.700 M TO CH: 3.900 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 2 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



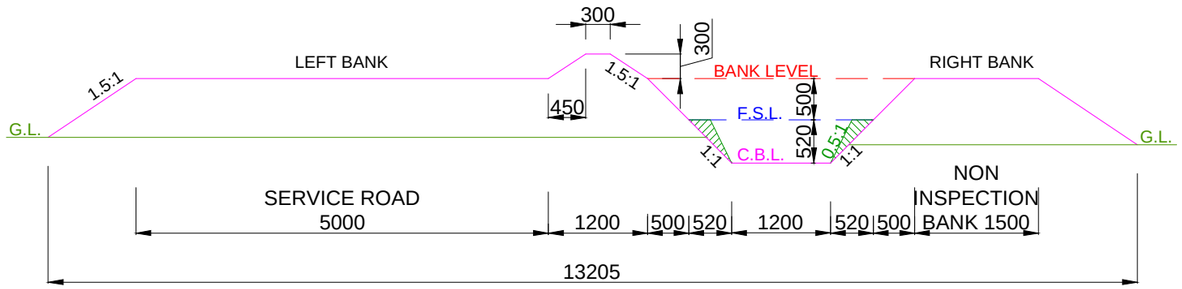
DESIGN SECTION FROM CH: 3.900 M TO CH: 4.300 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 3 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



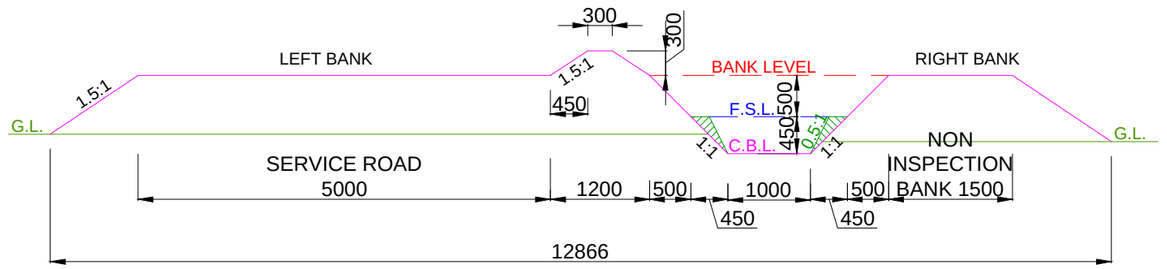
DESIGN SECTION FROM CH: 4.300 M TO CH: 4.570 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 4 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



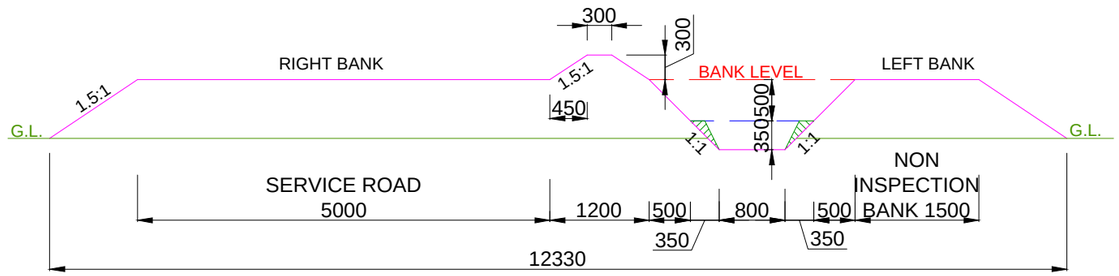
DESIGN SECTION FROM CH: 4.570 M TO CH: 5.330 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 5 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



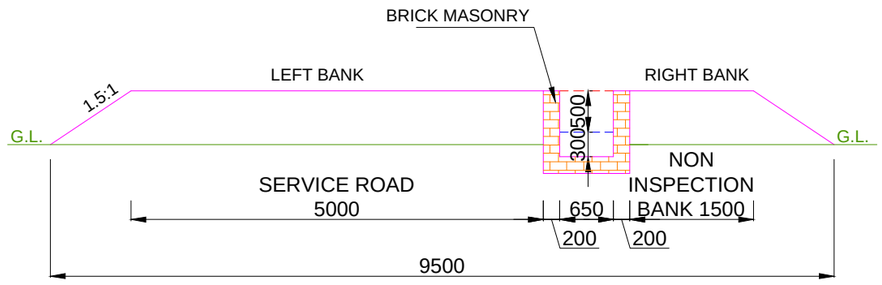
DESIGN SECTION FROM CH: 5.330 M TO CH: 5.550 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 6 of 7

TYPICAL X - SECTION OF GAMHARIA MINOR
(OFFTAKE FROM RD - 4+580 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 5.550 M TO CH: 6.150 M

NOTE:-

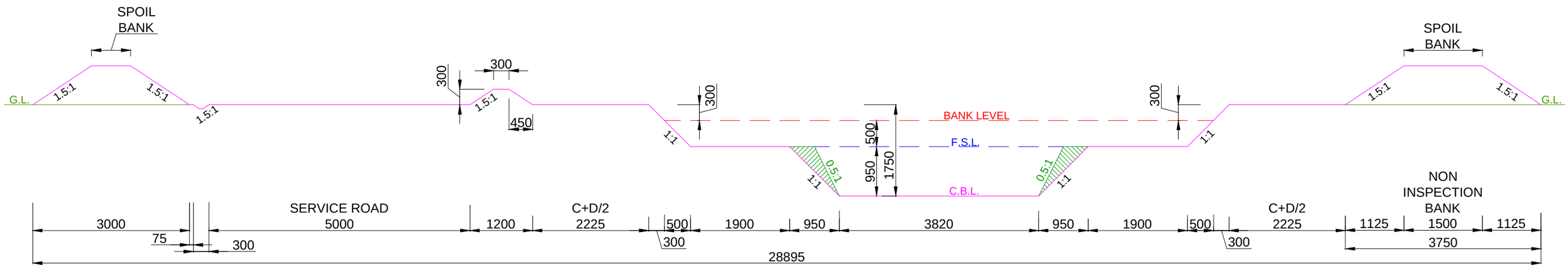
1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC /TYP-(PCF) 7 of 7

PRITAMPURA SUB DY.

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.700 KM

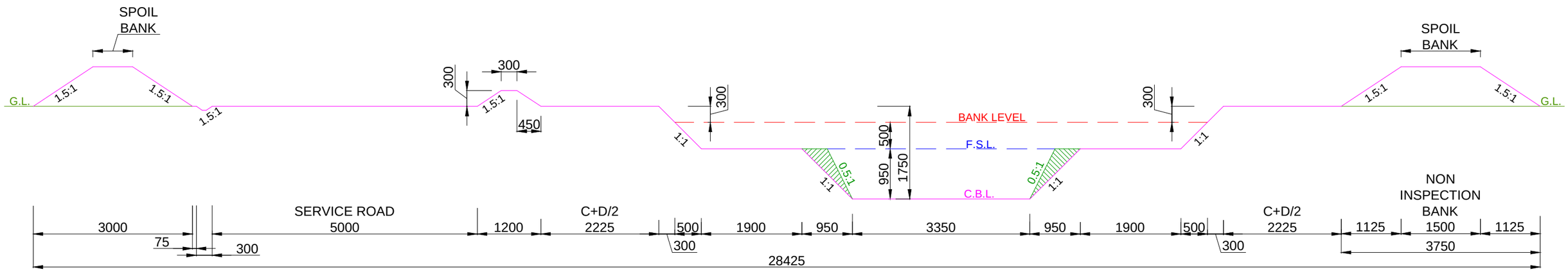
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 1 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 2.700 KM TO CH: 5.100 KM

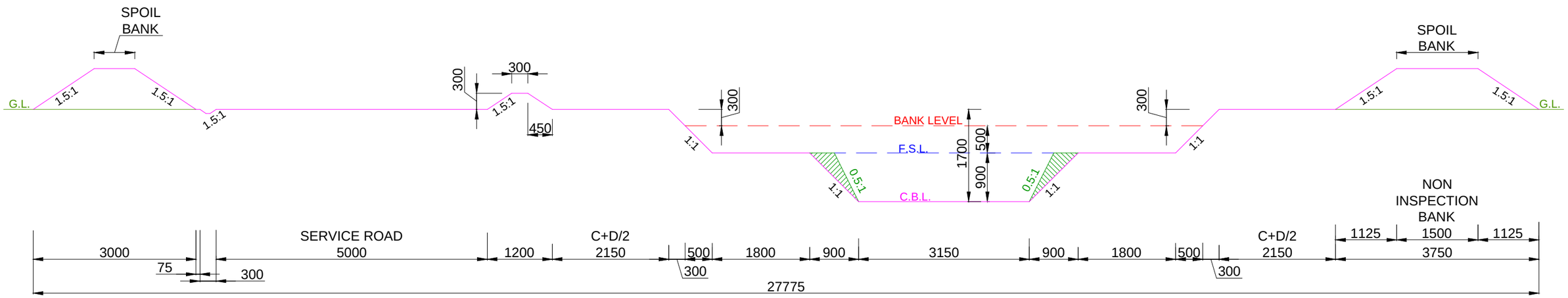
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 2 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 5.100 KM TO CH: 7.450 KM

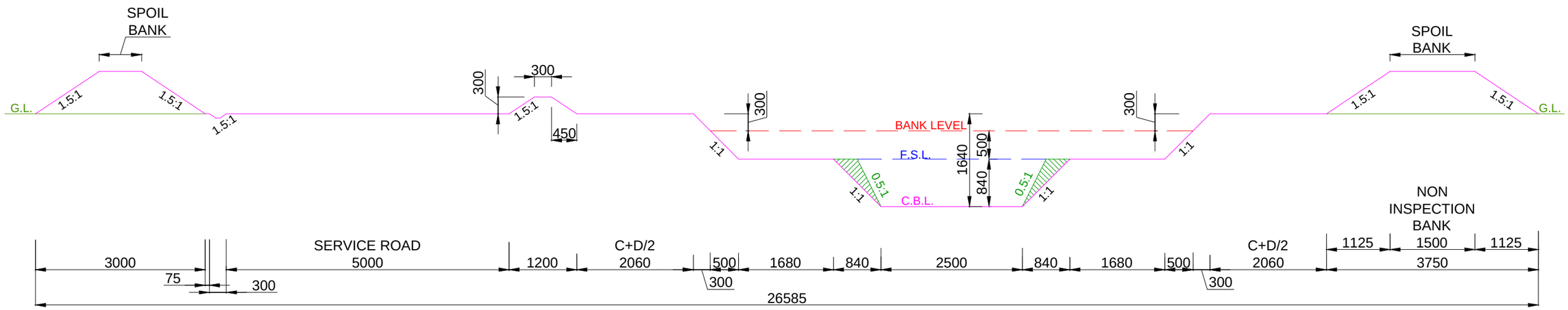
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 3 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 7.450 KM TO CH: 9.950 KM

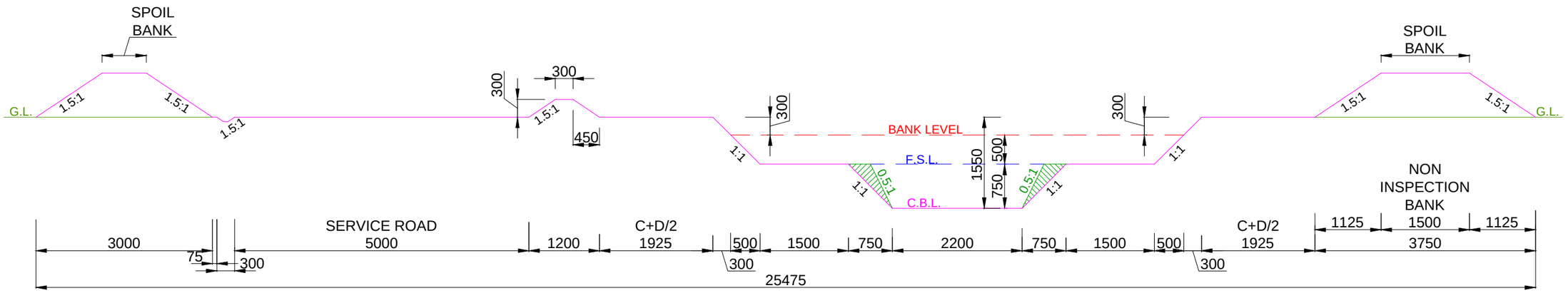
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 4 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 9.950 KM TO CH: 10.900 KM

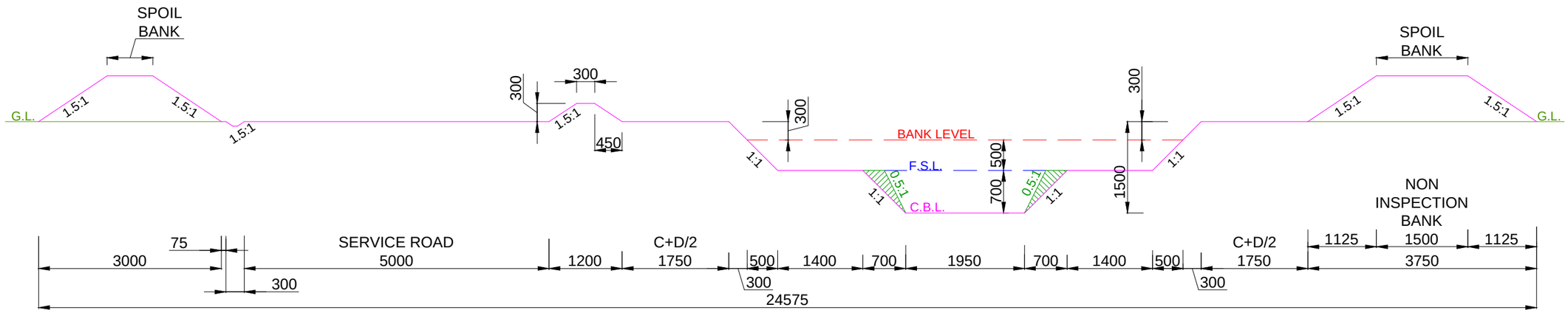
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 5 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 10.900 KM TO CH: 11.450 KM

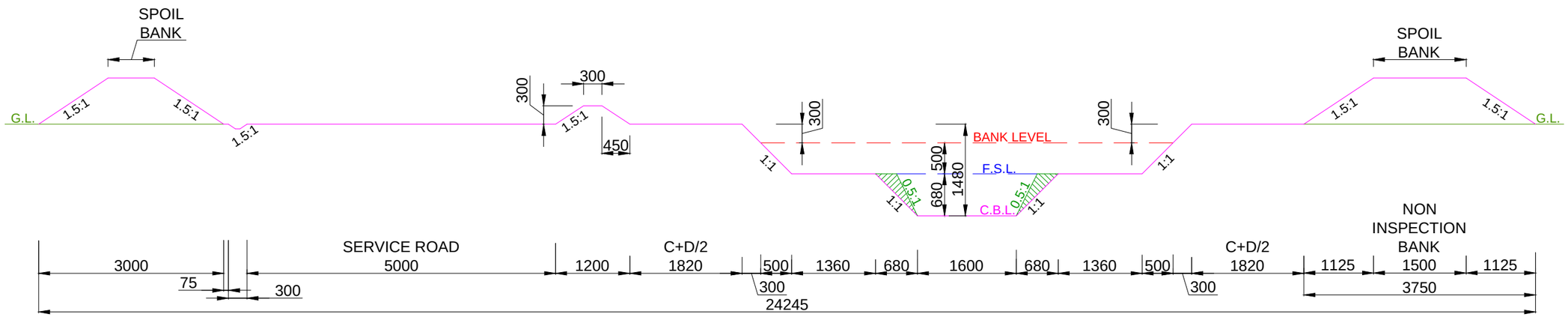
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 6 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 11.450 KM TO CH: 12.250 KM

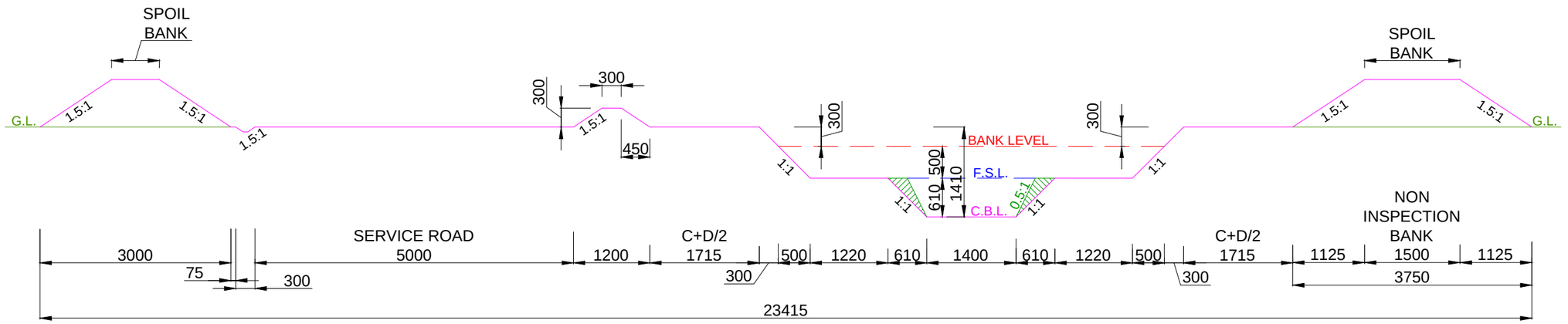
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
CUT AREA			Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
FILL AREA			Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 7 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 12.250 KM TO CH: 12.550 KM

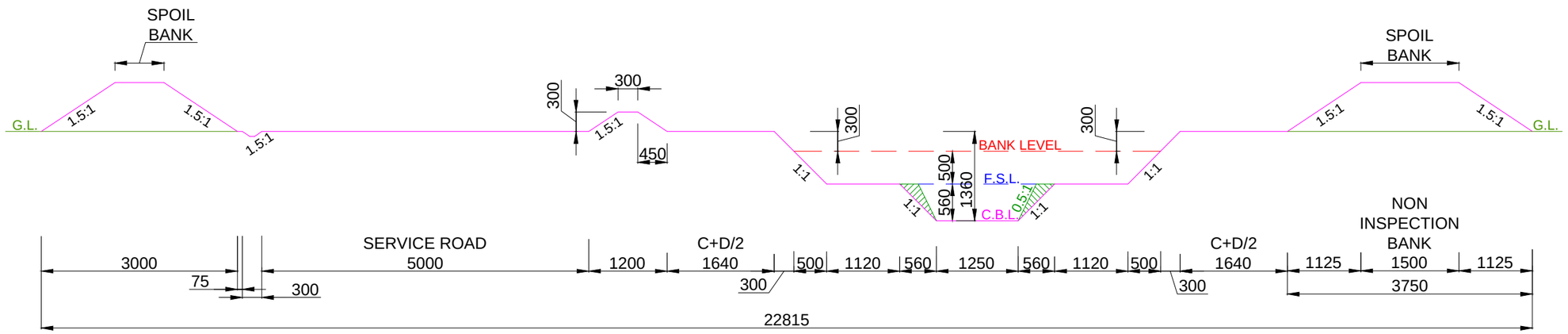
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 8 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 12.550 KM TO CH: 13.000 KM

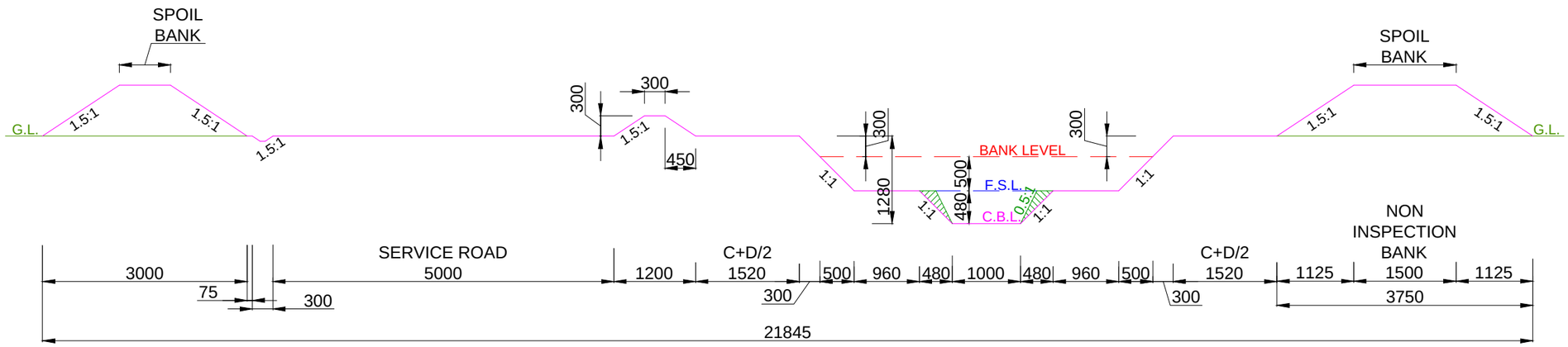
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 9 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 13.000 KM TO CH: 13.500 KM

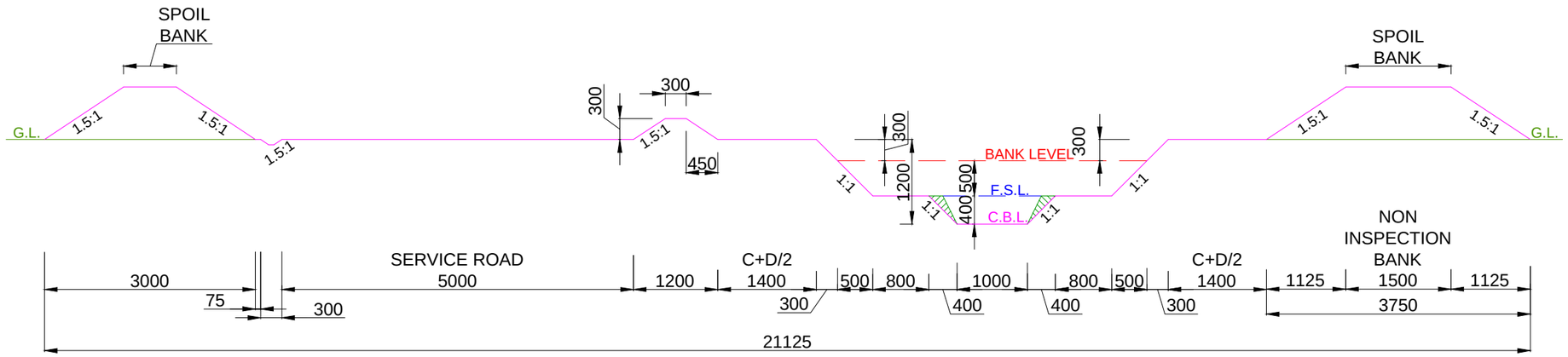
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 10 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 13.500 KM TO CH: 14.000 KM

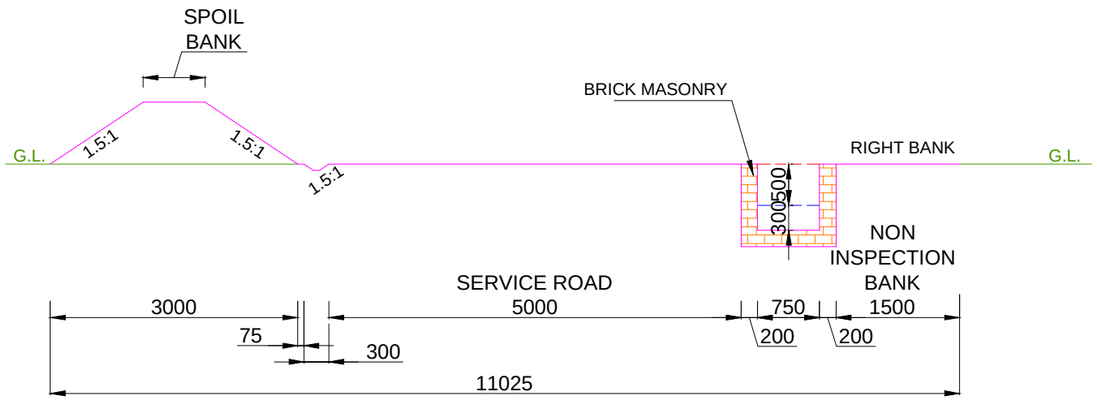
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 11 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 14.000 KM TO CH: 14.400 KM

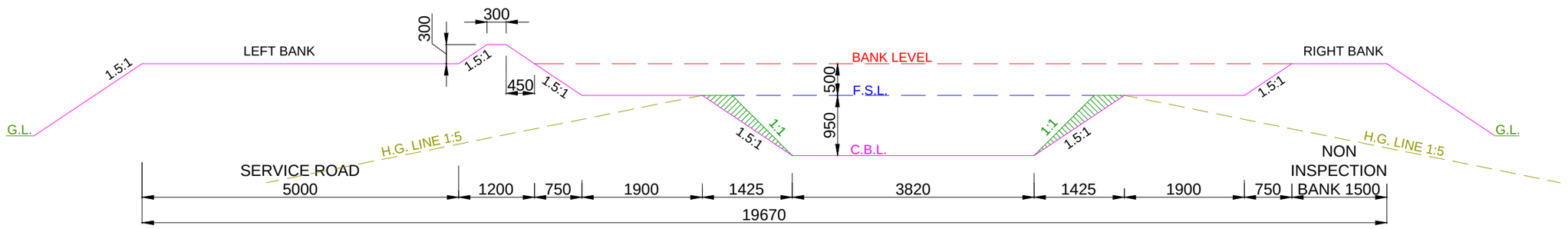
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FC) 12 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.700 KM

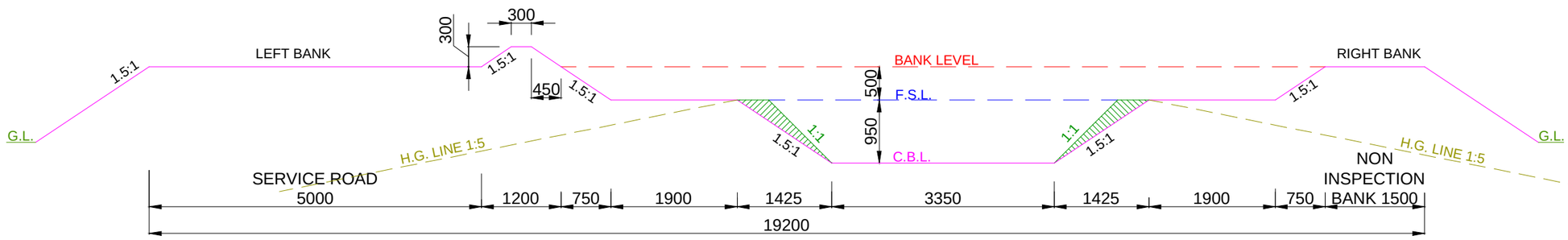
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 1 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 2.700 KM TO CH: 5.100 KM

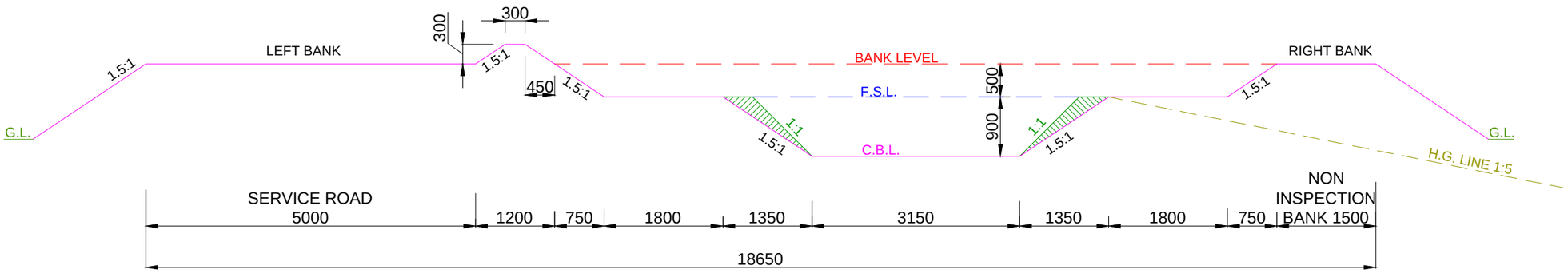
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 2 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 5.100 KM TO CH: 7.450 KM

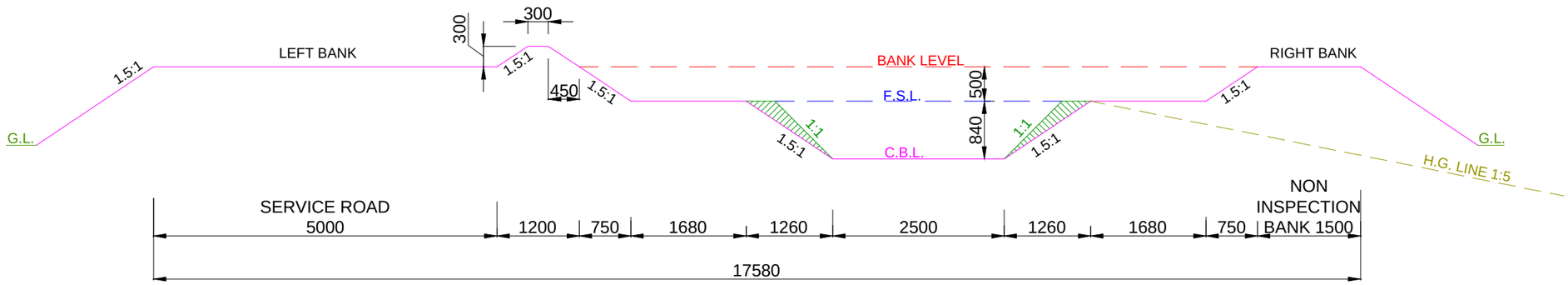
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 3 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 7.450 KM TO CH: 9.950 KM

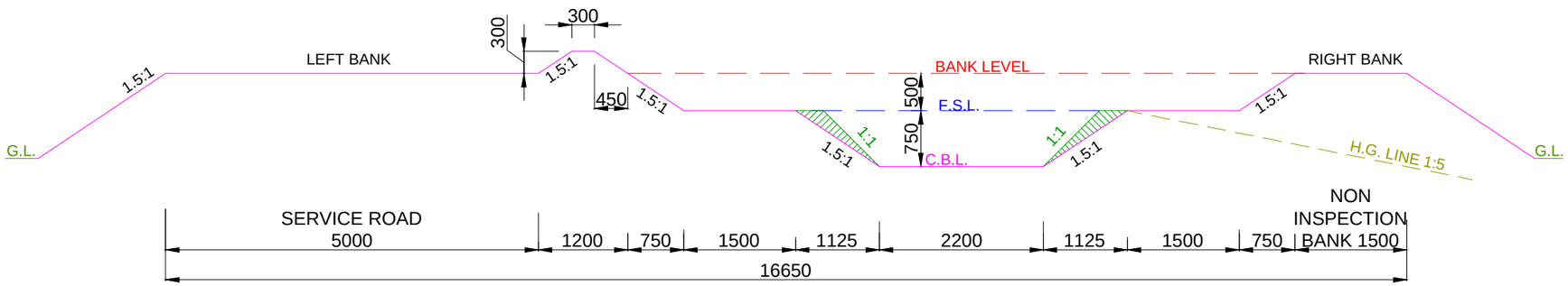
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 4 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 9.950 KM TO CH: 10.900 KM

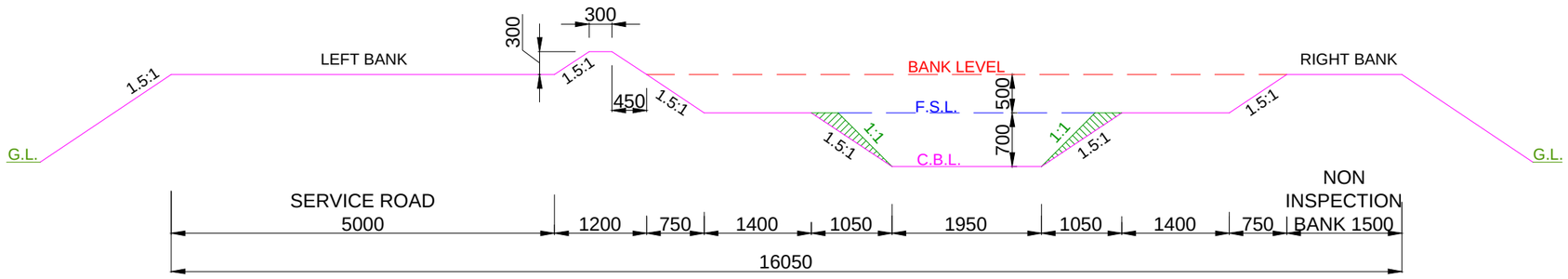
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 5 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 10.900 KM TO CH: 11.450 KM

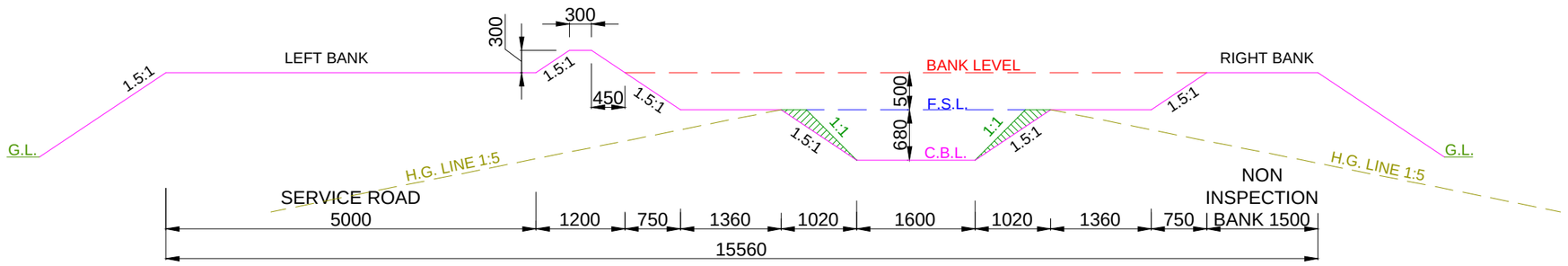
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 6 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 11.450 KM TO CH: 12.250 KM

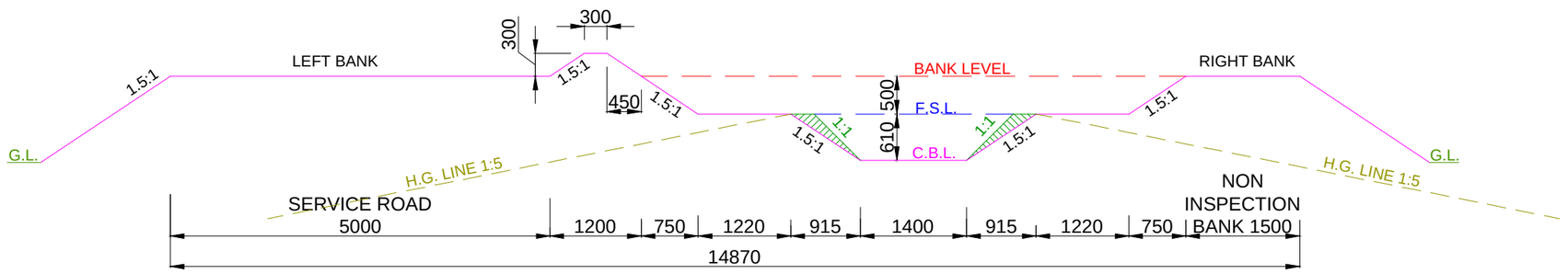
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 7 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 12.250 KM TO CH: 12.550 KM

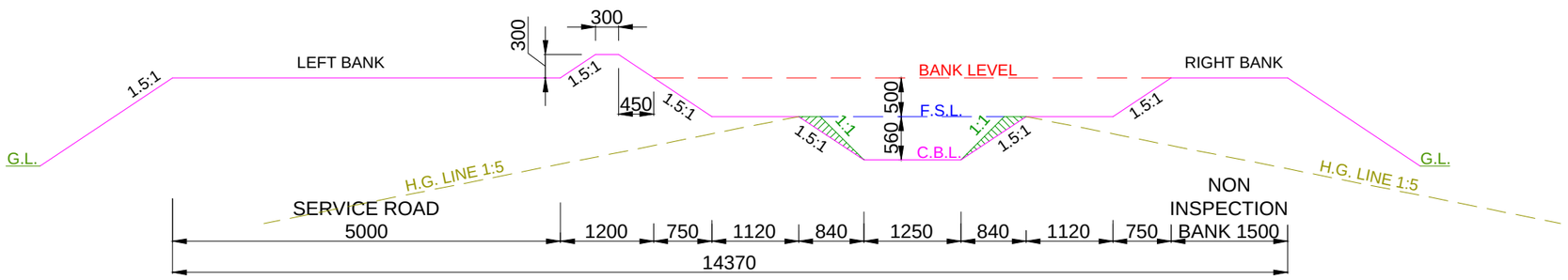
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 8 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 12.550 KM TO CH: 13.000 KM

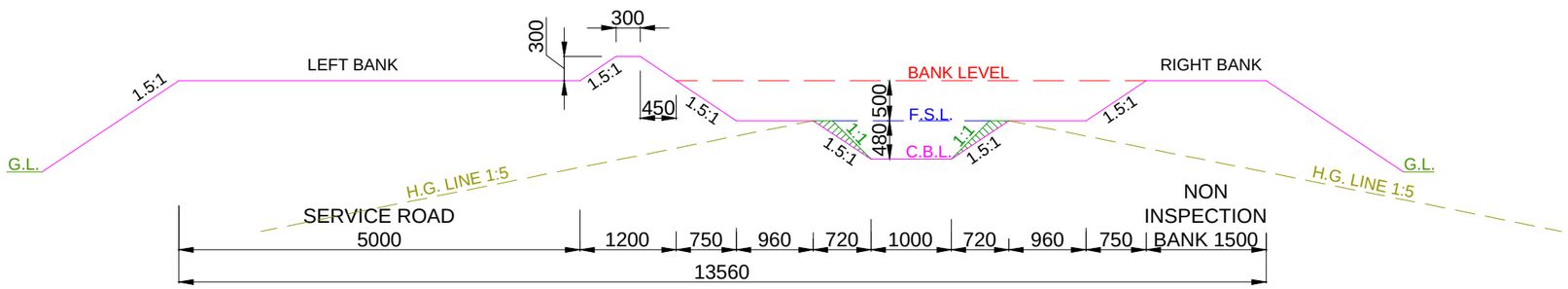
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 9 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 13.000 KM TO CH: 13.500 KM

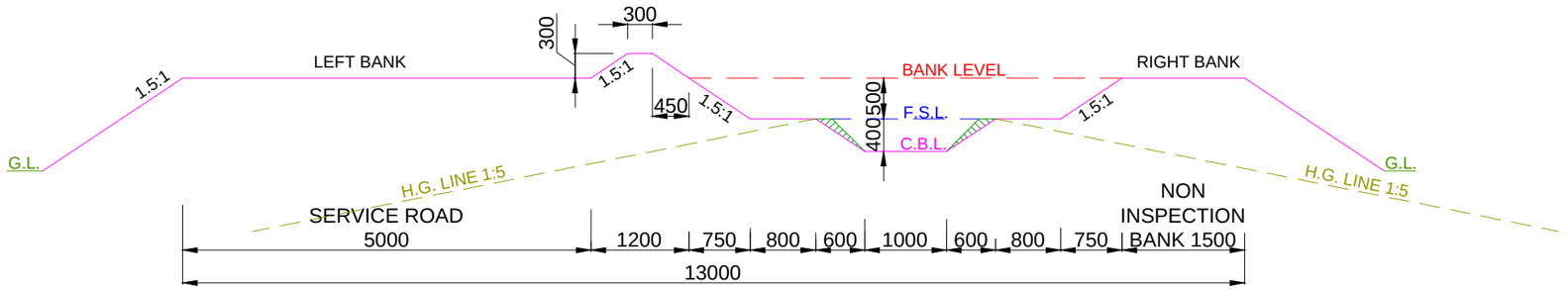
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 10 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 13.500 KM TO CH: 14.000 KM

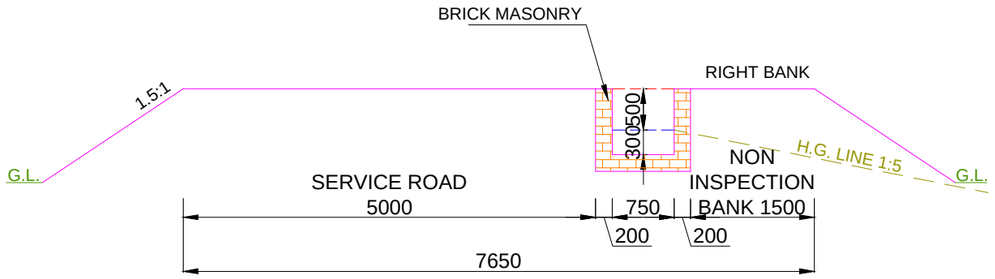
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 11 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 14.000 KM TO CH: 14.400 KM

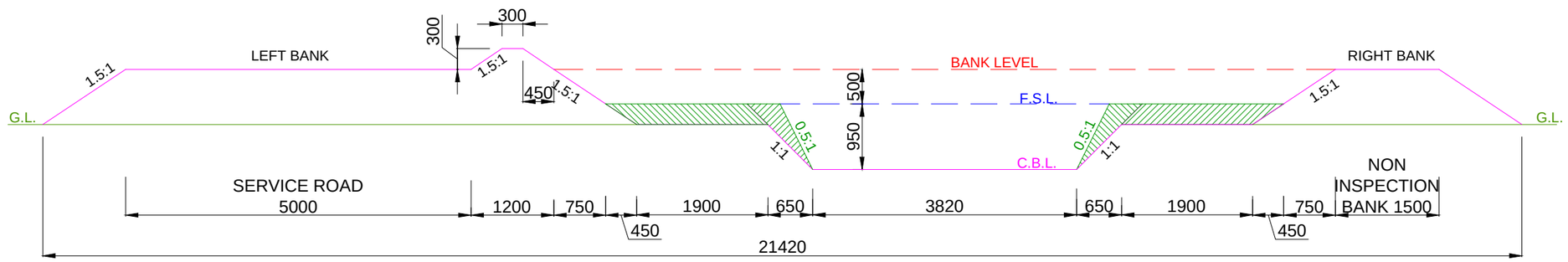
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(FF) 12 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.700 KM

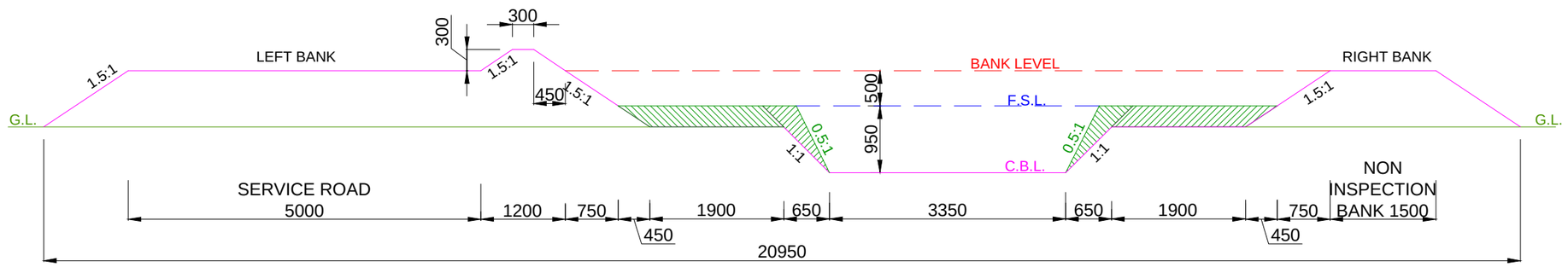
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 1 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 2.700 KM TO CH: 5.100 KM

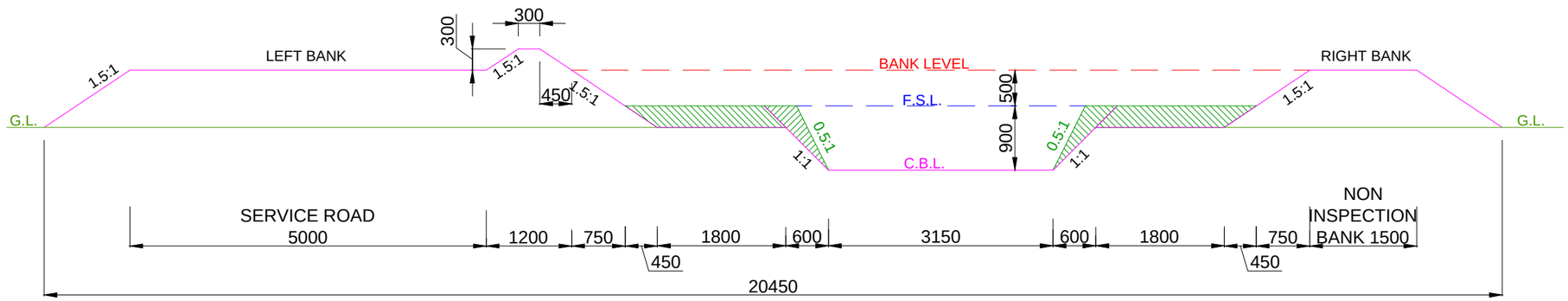
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 2 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 5.100 KM TO CH: 7.450 KM

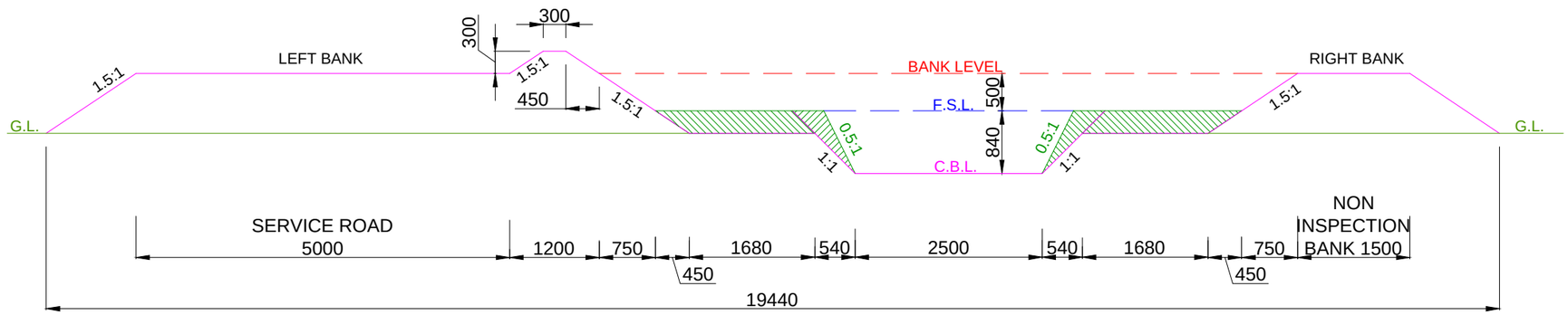
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 3 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 7.450 KM TO CH: 9.950 KM

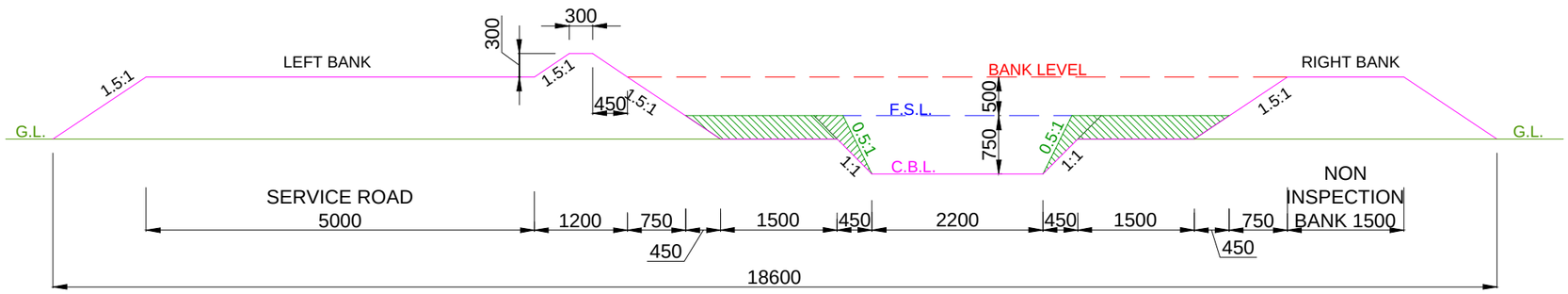
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 4 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 9.950 KM TO CH: 10.900 KM

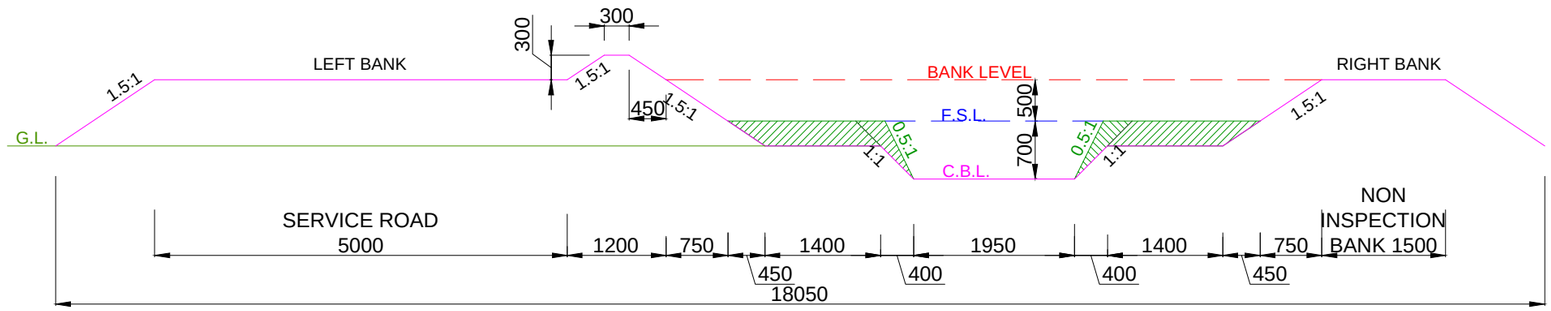
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
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3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 5 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 10.900 KM TO CH: 11.450 KM

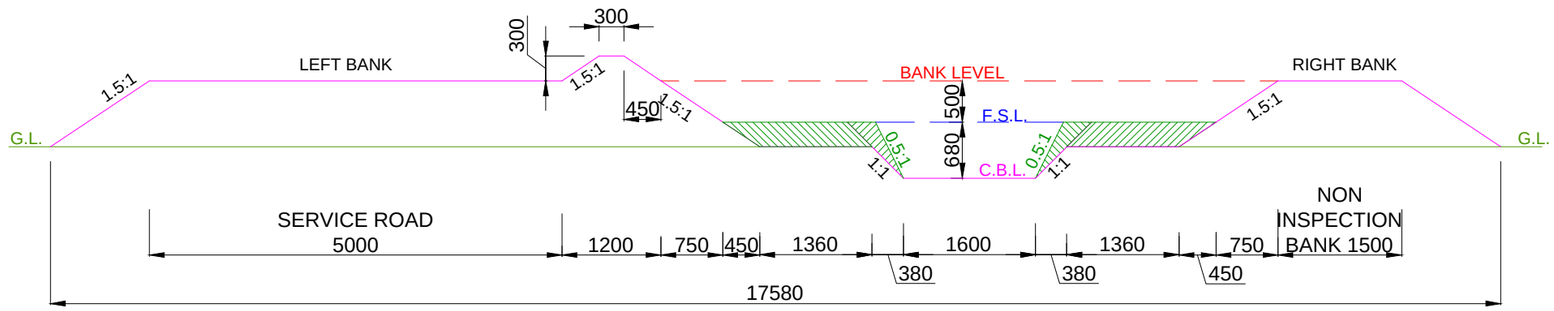
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 6 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 11.450 KM TO CH: 12.250 KM

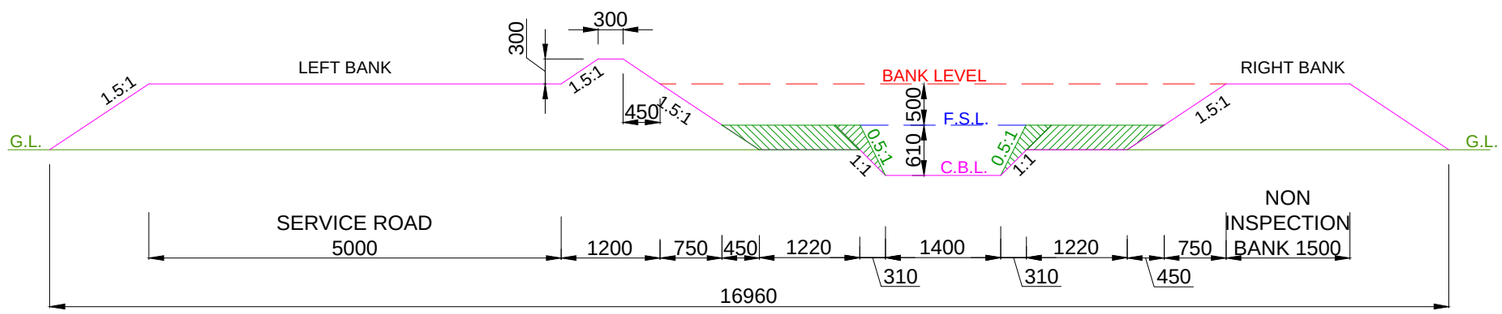
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 7 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 12.250 KM TO CH: 12.550 KM

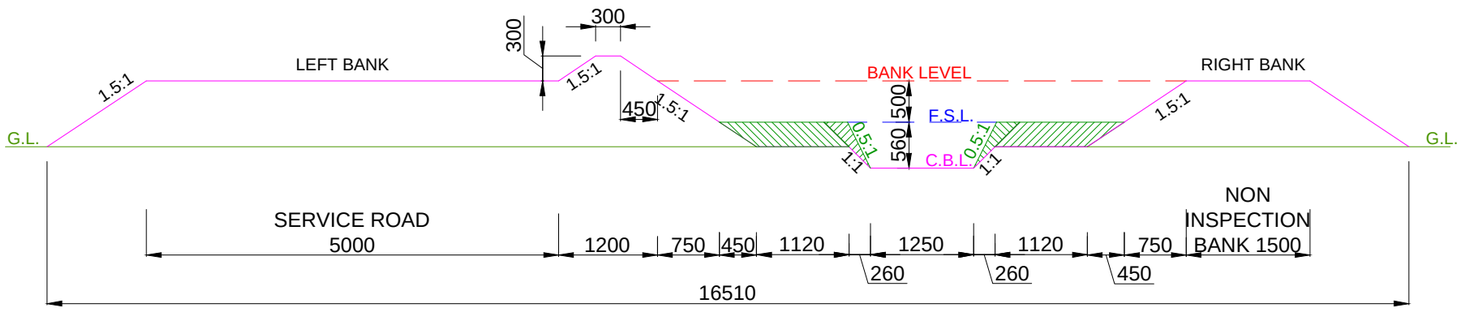
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 8 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 12.550 KM TO CH: 13.000 KM

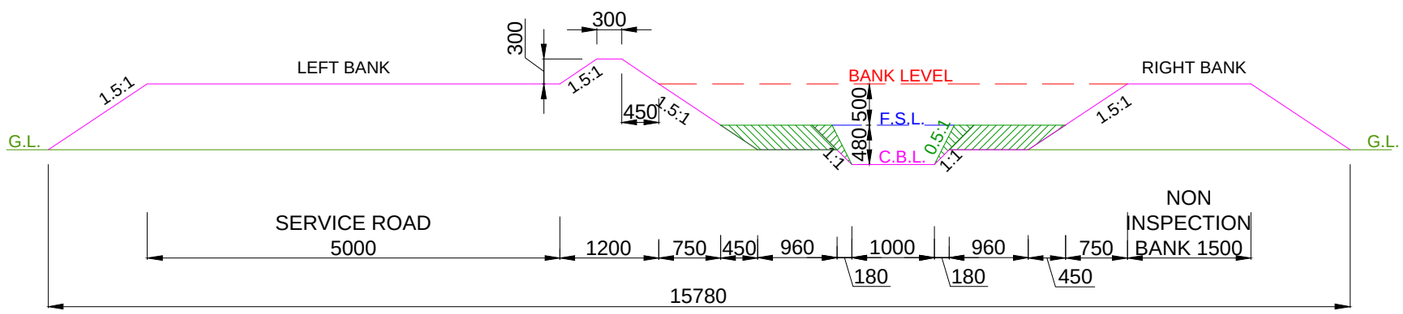
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 9 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 13.000 KM TO CH: 13.500 KM

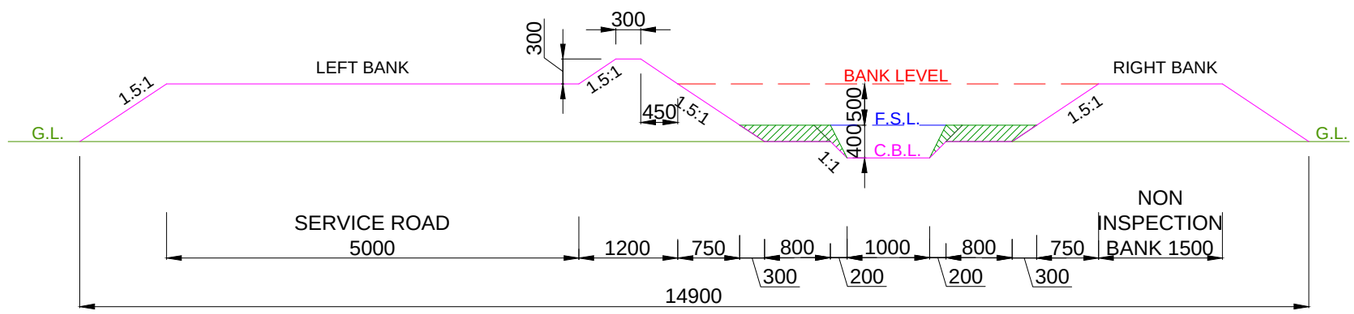
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 10 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 13.500 KM TO CH: 14.000 KM

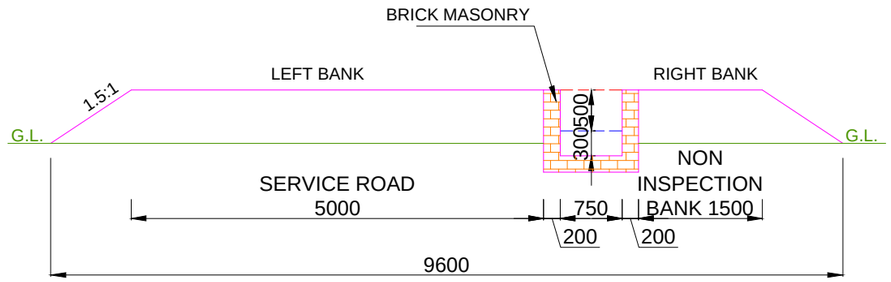
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 11 of 12

TYPICAL X - SECTION OF PRITAMPURA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 10+060 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 14.000 KM TO CH: 14.400 KM

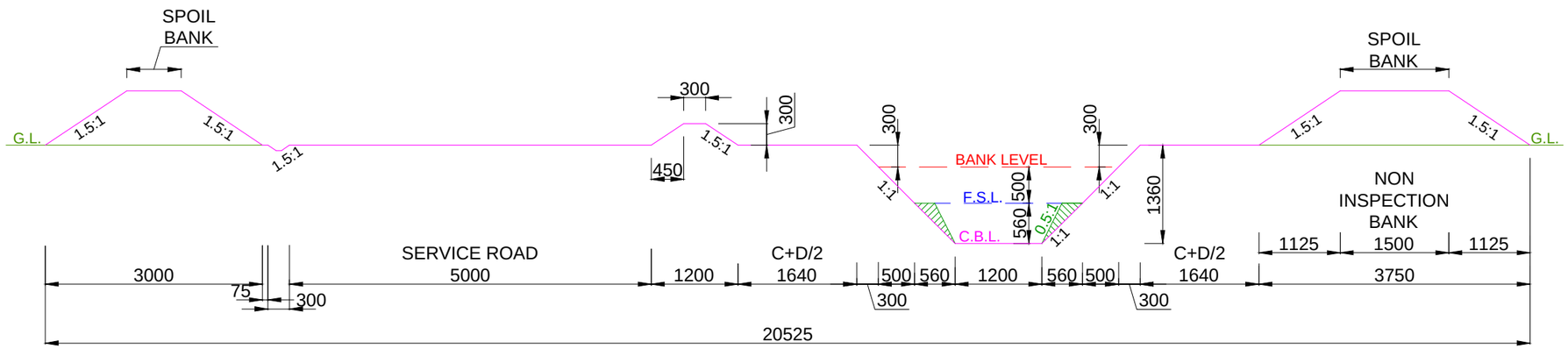
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF PRITAMPURA SUB-DY.(OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC /TYP-(PCF) 12 of 12

SIMRA MINOR

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



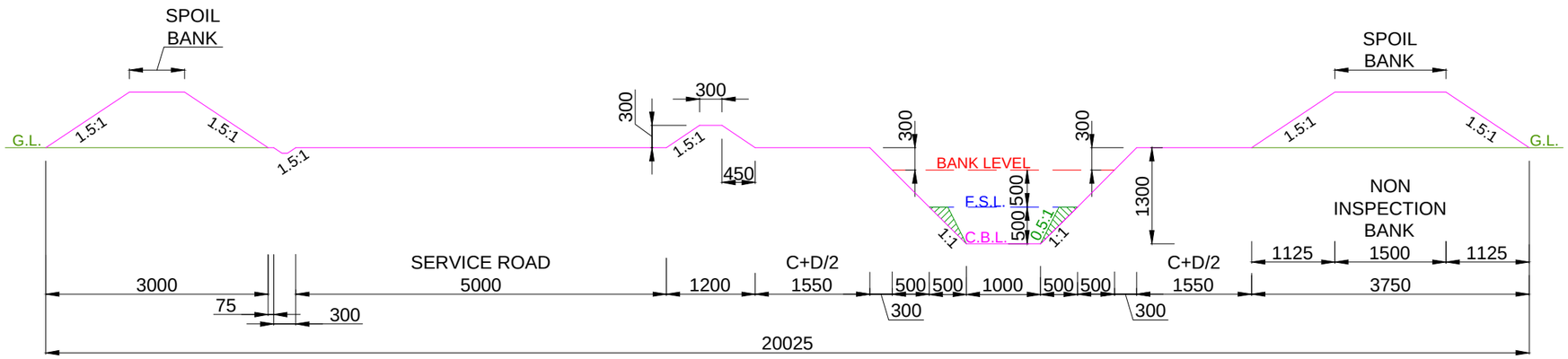
DESIGN SECTION FROM CH: 0.000 M TO CH: 0.950 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FC) 1 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



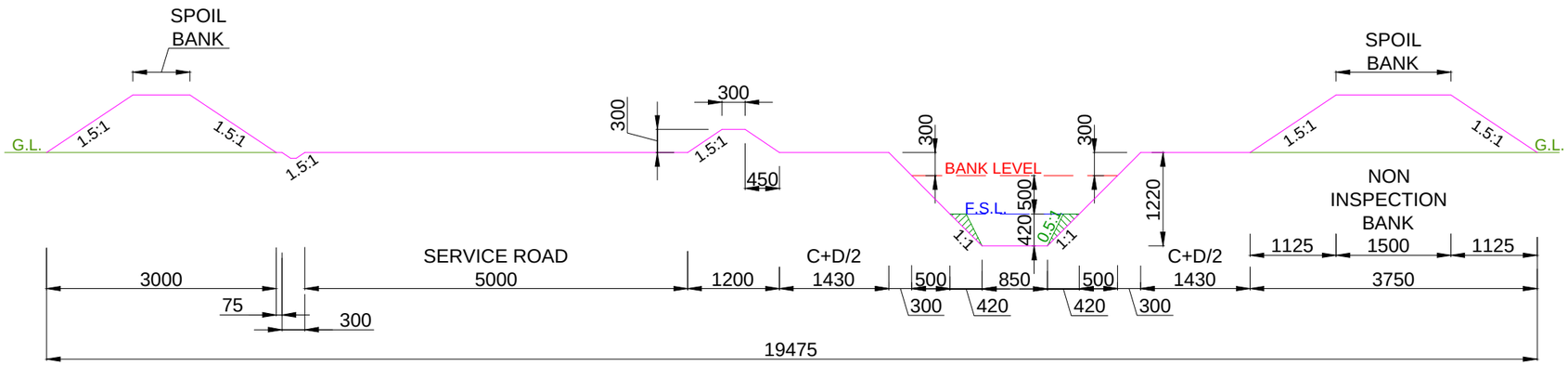
DESIGN SECTION FROM CH: 0.950 M TO CH: 3.000 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FC) 2 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



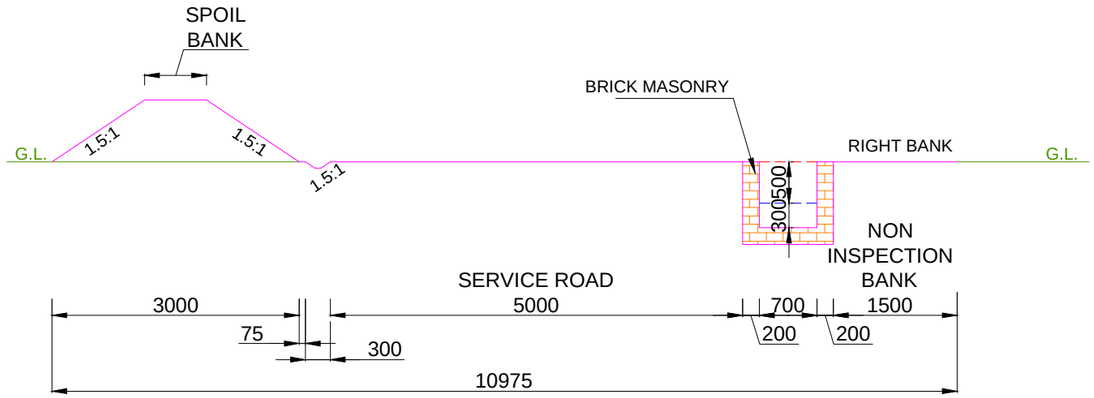
DESIGN SECTION FROM CH: 3.000 M TO CH: 3.850 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FC) 3 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



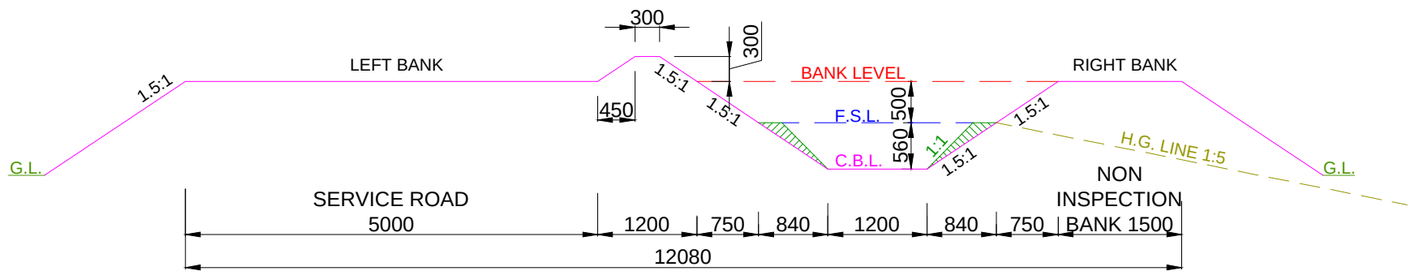
DESIGN SECTION FROM CH: 3.850 M TO CH: 5.200 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FC) 4 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



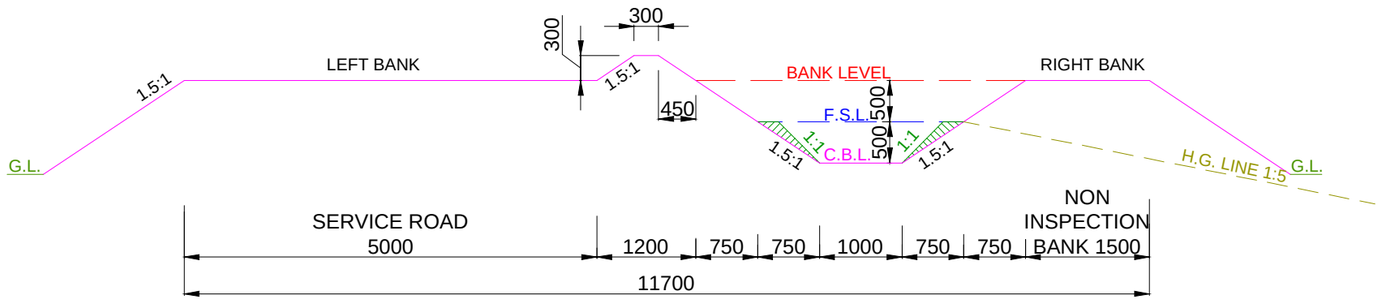
DESIGN SECTION FROM CH: 0.000 M TO CH: 0.950 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FF) 1 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



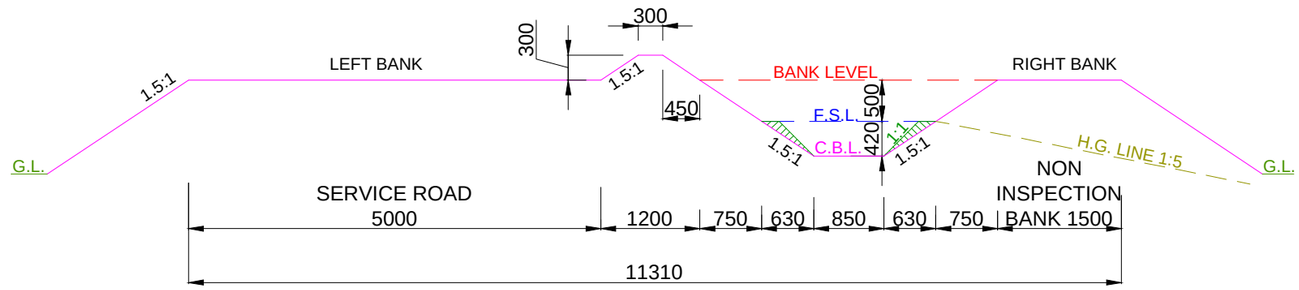
DESIGN SECTION FROM CH: 0.950 M TO CH: 3.000 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FF) 2 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



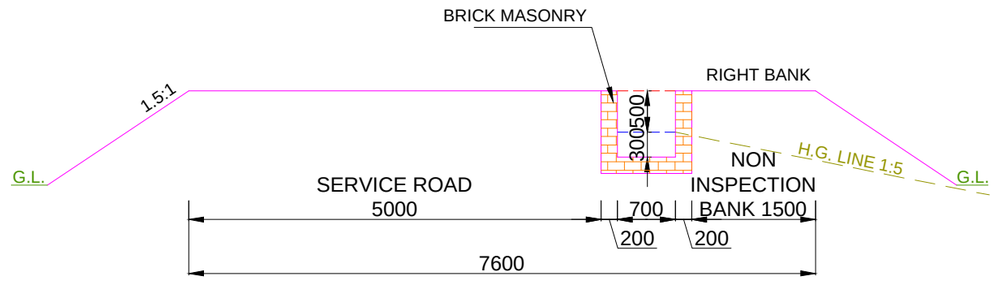
DESIGN SECTION FROM CH: 3.000 M TO CH: 3.850 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FF) 3 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



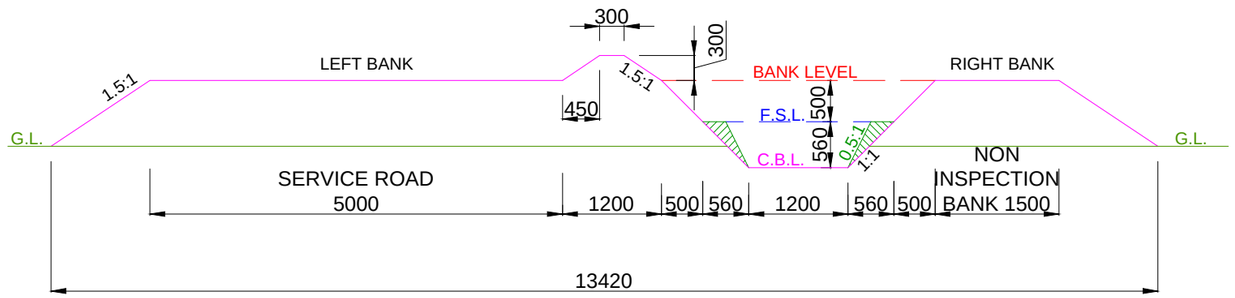
DESIGN SECTION FROM CH: 3.850 M TO CH: 5.200 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(FF) 4 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



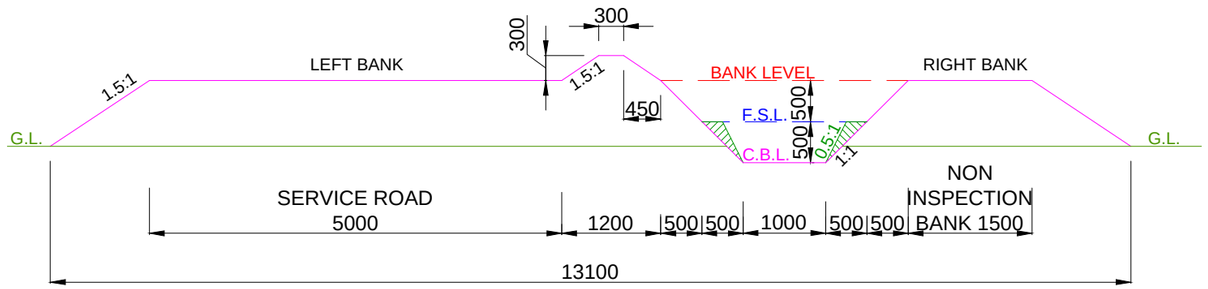
DESIGN SECTION FROM CH: 0.000 M TO CH: 0.950 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(PCF) 1 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



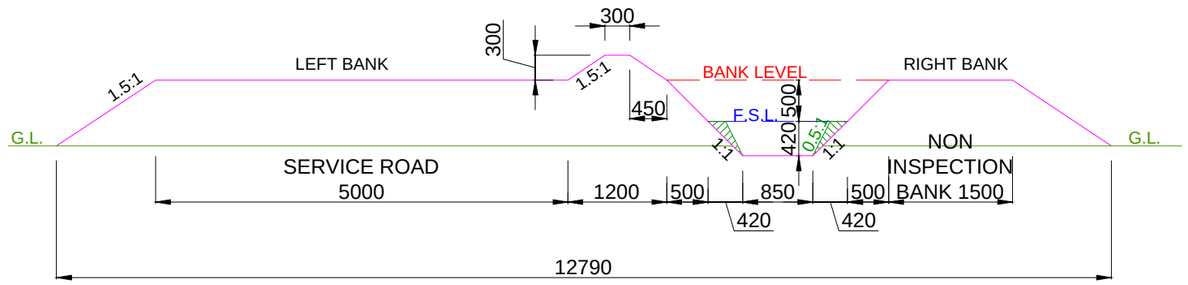
DESIGN SECTION FROM CH: 0.950 M TO CH: 3.000 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(PCF) 2 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



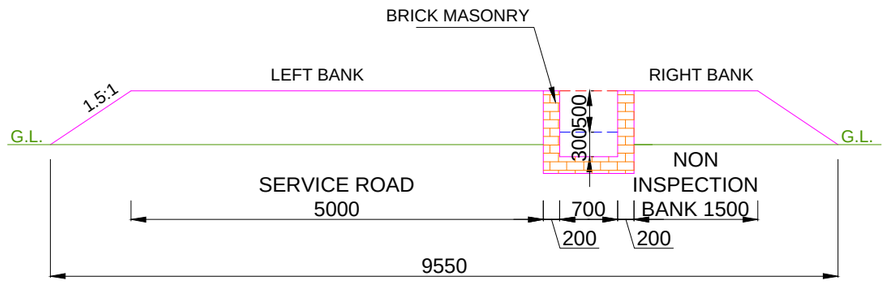
DESIGN SECTION FROM CH: 3.000 M TO CH: 3.850 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(PCF) 3 of 4

TYPICAL X - SECTION OF SIMRA MINOR
(OFFTAKE FROM RD - 12+685 KM. (LT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 3.850 M TO CH: 5.200 M

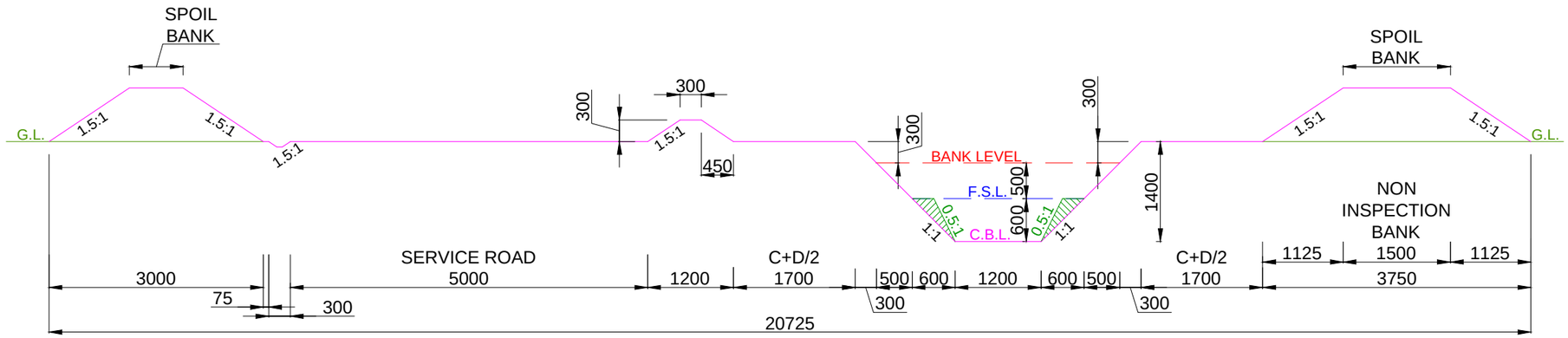
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ XSEC /TYP-(PCF) 4 of 4

SALEMPUR MINOR

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



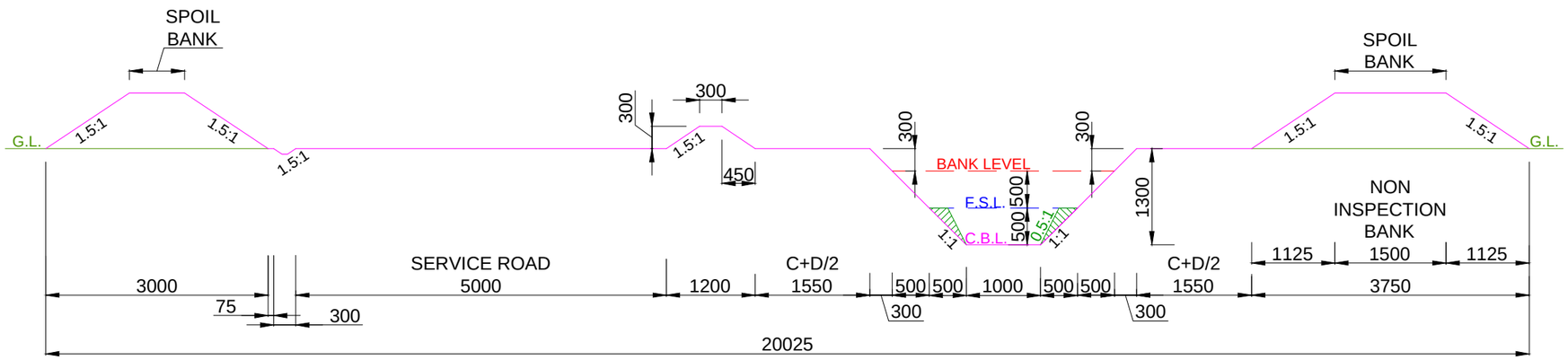
DESIGN SECTION FROM CH: 0.000 M TO CH: 1.250 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FC) 1 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



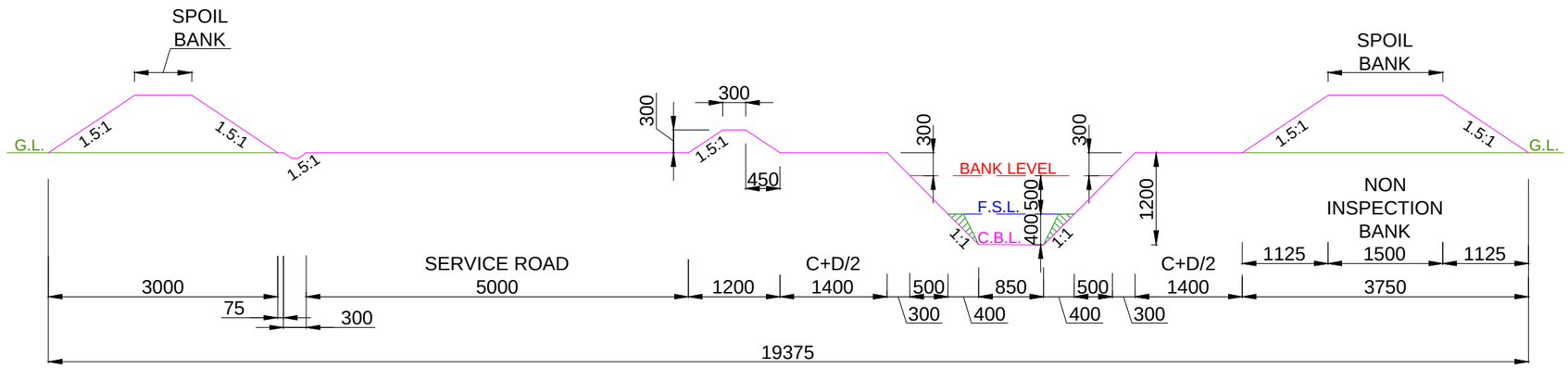
DESIGN SECTION FROM CH: 1.250 M TO CH: 3.050 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
CUT AREA			Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
FILL AREA			Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FC) 2 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 3.050 M TO CH: 4.600 M

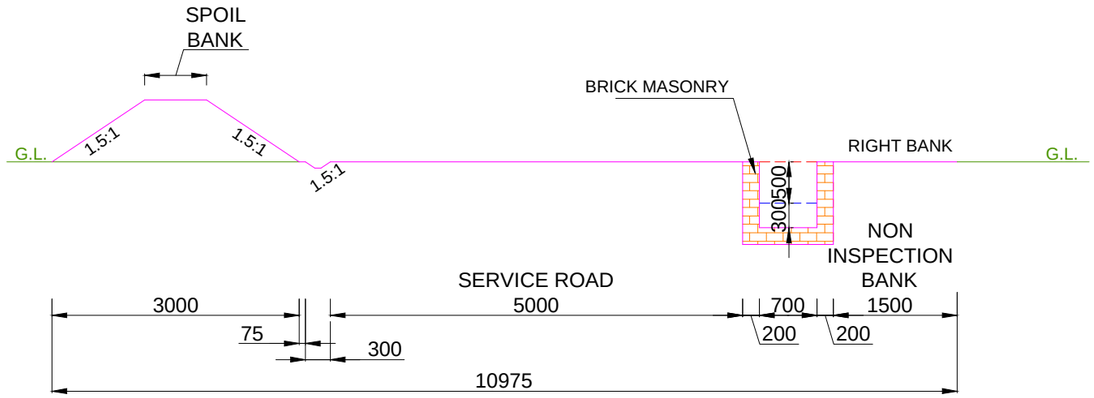
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
CUT AREA			Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
FILL AREA			Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FC) 3 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL CUTTING



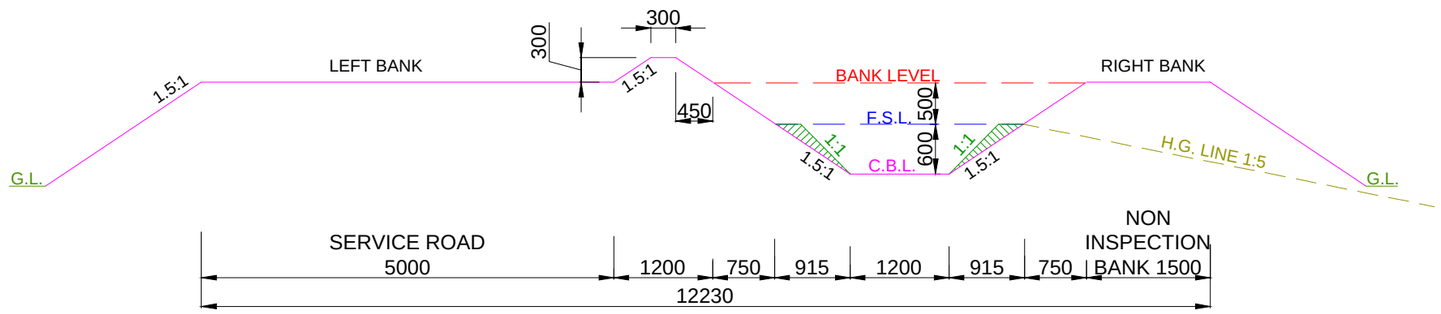
DESIGN SECTION FROM CH: 4.600 M TO CH: 6.000 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FC) 4 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



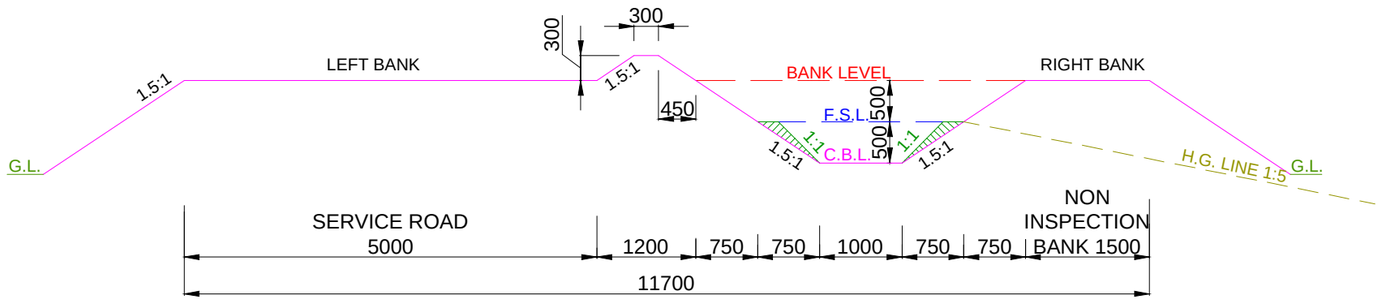
DESIGN SECTION FROM CH: 0.000 M TO CH: 1.250 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FF) 1 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



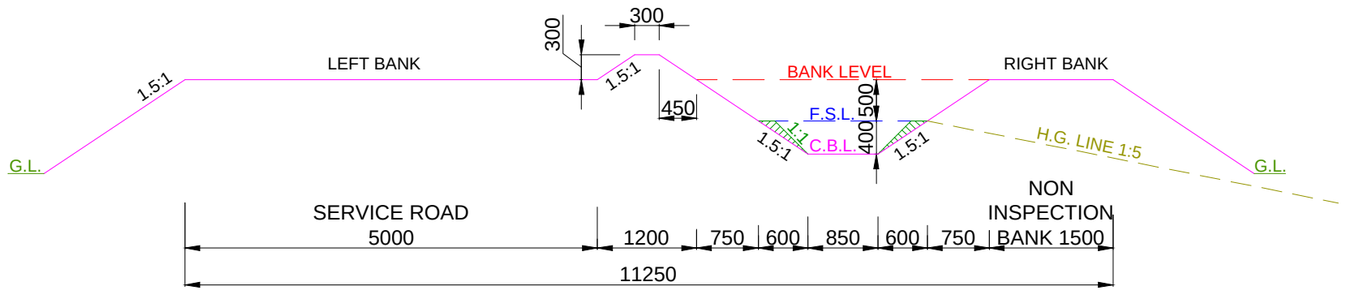
DESIGN SECTION FROM CH: 1.250 M TO CH: 3.050 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FF) 2 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 3.050 M TO CH: 4.600 M

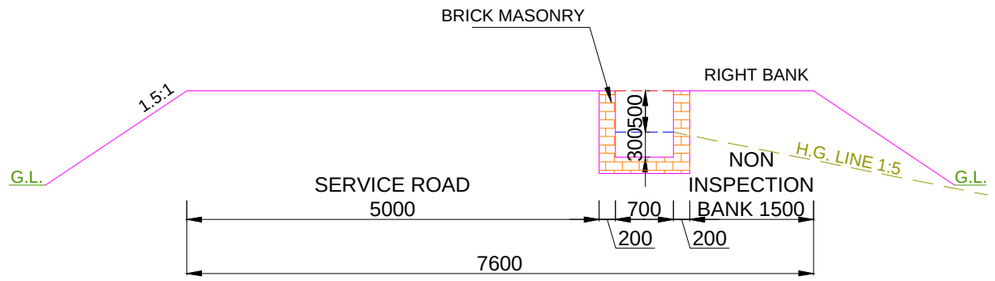
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FF) 3 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)

DESIGN SECTION FOR FULL FILLING



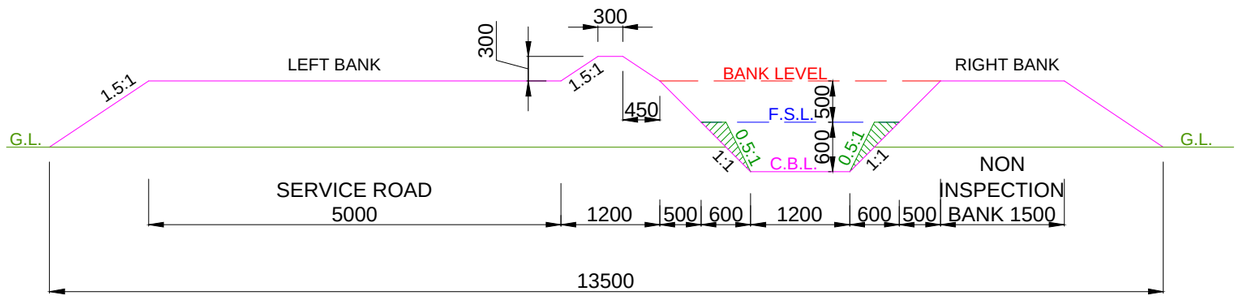
DESIGN SECTION FROM CH: 4.600 M TO CH: 6.000 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(FF) 4 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



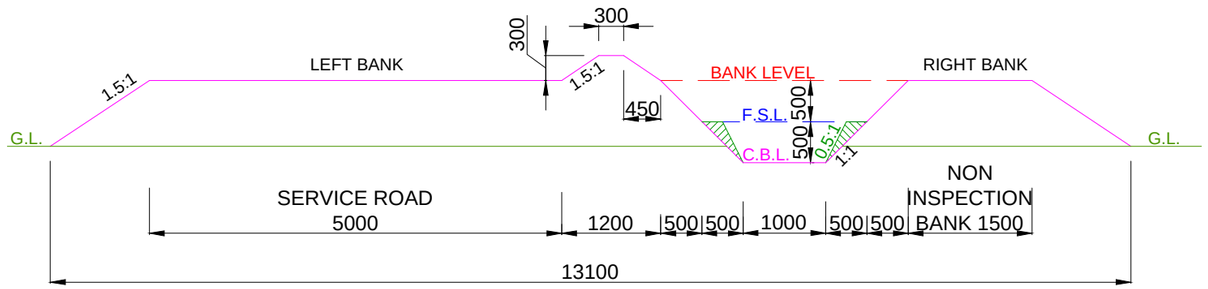
DESIGN SECTION FROM CH: 0.000 M TO CH: 1.250 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(PCF) 1 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



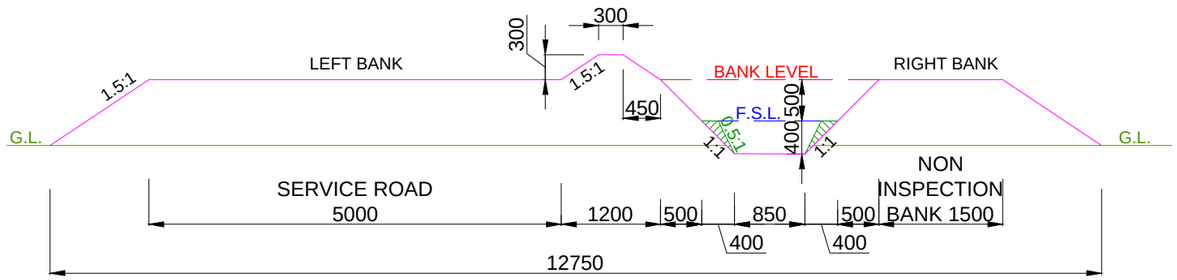
DESIGN SECTION FROM CH: 1.250 M TO CH: 3.050 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(PCF) 2 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



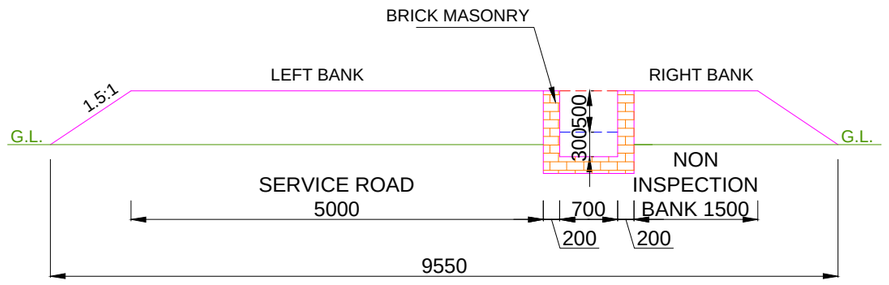
DESIGN SECTION FROM CH: 3.050 M TO CH: 4.600 M

NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(PCF) 3 of 4

TYPICAL X - SECTION OF SALEMPUR MINOR
(OFFTAKE FROM RD - 16+015 KM. (RT), BASDIHA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 4.600 M TO CH: 6.000 M

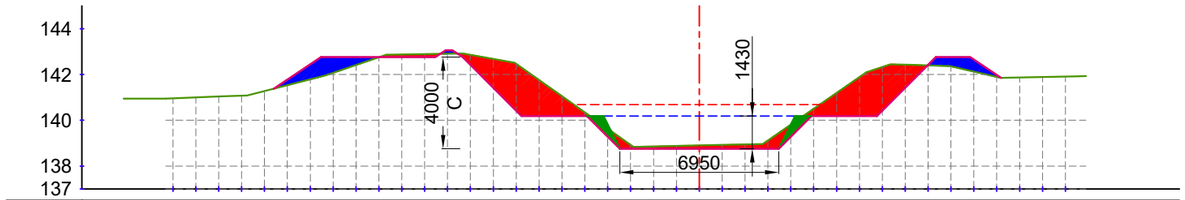
NOTE:-

1. THE BANK WIDTH HAS BEEN ADOPTED AS PER IS 7112 : 2002 (TABLE-1).
2. THE OFFTAKING CHAINAGE AND LENGTH OF THE CANAL HAS BEEN TAKEN AS PER ACTUAL SURVEY.
3. THIS IS A TYPICAL DRAWING, INSPECTION & NON-INSPECTION BANK SHALL BE TAKEN AS PER SITE CONDITIONS.

LEGEND		Prepared by :- WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC /TYP-(PCF) 4 of 4

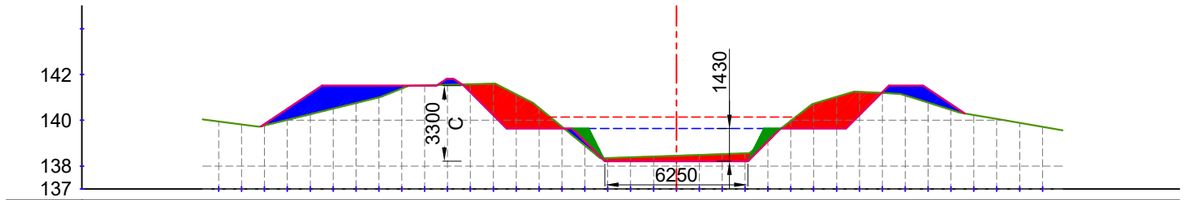
CROSS-SECTION

X SECTION OF BASDIHA DY.



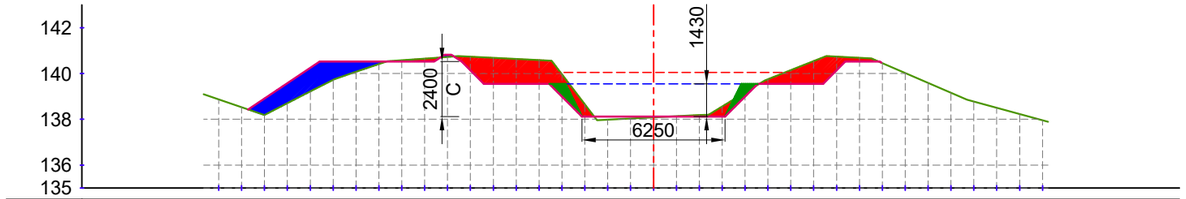
| | | |

X SECTION OF BASDIHA DY.



| | | |

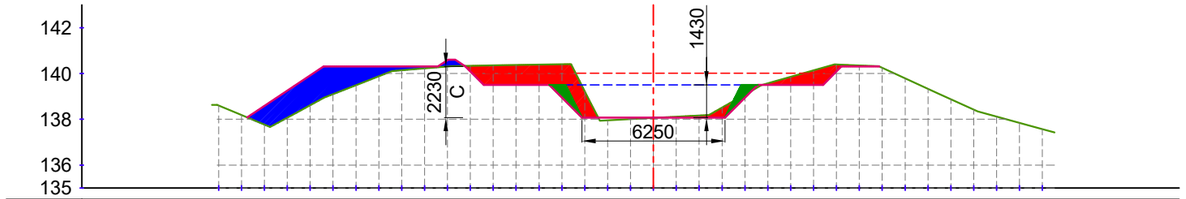
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	138.869	138.525	138.185	138.699	139.213	139.727	140.073	140.409	140.578	140.651	140.724	140.731	140.683	140.634	140.586	139.965	138.654	137.977	138.028	138.079	138.130	138.181	138.562	139.170	139.749	140.147	140.545	140.740	140.686	140.455	140.023	139.592	139.161	138.776	138.501	138.227	137.952
OFFSET (M)	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 7.937
FILLING AREA (SQ.M) = 3.975

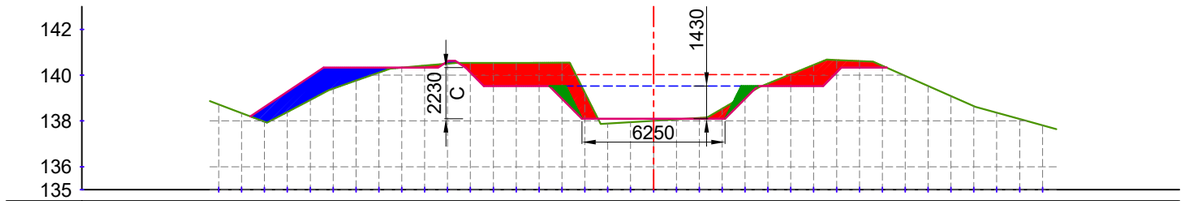
CH. (KM):- 0+900
DESIGNED BED LEVEL = 138.121 M



EXIST. LEVEL (M)	138.603	138.184	137.765	138.065	138.609	139.094	139.488	139.881	140.141	140.224	140.307	140.334	140.352	140.368	140.385	140.402	139.229	137.950	138.005	138.059	138.114	138.168	138.516	139.084	139.571	139.853	140.137	140.392	140.350	140.246	139.789	139.332	138.875	138.419	138.114	137.841	137.568
OFFSET (M)	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 6.717
FILLING AREA (SQ.M) = 6.248

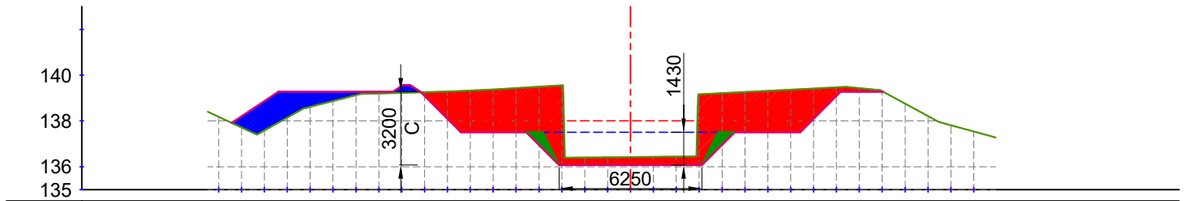
CH. (KM):- 1+100
DESIGNED BED LEVEL = 138.077 M



EXIST. LEVEL (M)	138.719	138.340	137.960	138.392	138.918	139.413	139.762	140.110	140.328	140.416	140.505	140.539	140.540	140.541	140.542	140.543	139.235	137.885	137.947	138.009	138.070	138.132	138.538	139.120	139.636	140.041	140.446	140.662	140.621	140.415	139.972	139.530	139.087	138.645	138.359	138.084	137.810
OFFSET (M)	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 8.567
FILLING AREA (SQ.M) = 4.255

CH. (KM):- 1+000
DESIGNED BED LEVEL = 138.099 M



EXIST. LEVEL (M)	138.178	137.714	137.581	138.147	138.615	138.870	139.124	139.204	139.229	139.257	139.287	139.327	139.375	139.437	139.498	139.560	136.405	136.413	136.422	136.431	136.439	139.166	139.217	139.268	139.318	139.369	139.420	139.468	139.432	139.297	138.755	138.212	137.814	137.540
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

CUTTING AREA (SQ.M) = 24.014
FILLING AREA (SQ.M) = 4.444

CH. (KM):- 1+200
DESIGNED BED LEVEL = 136.073 M

LEGEND

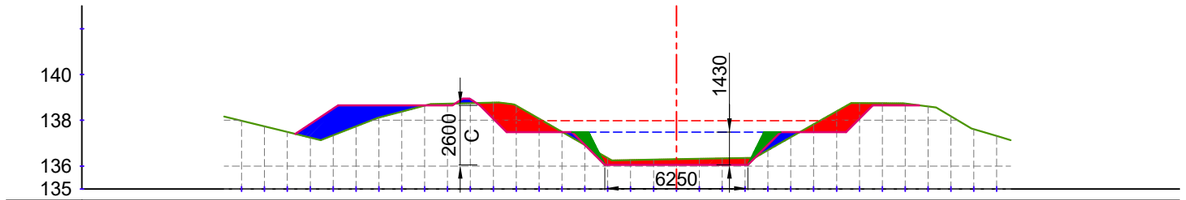
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

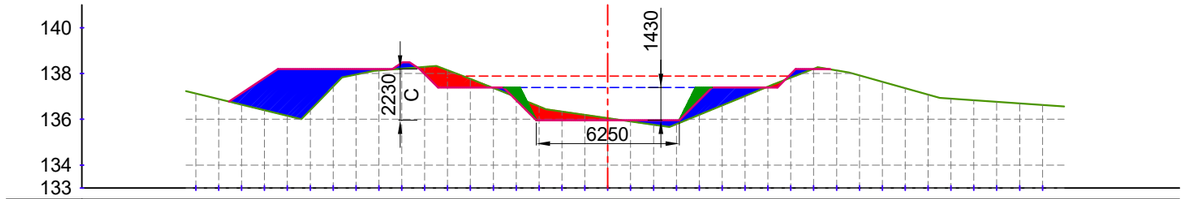
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 3 of 59

X SECTION OF BASDIHA DY.



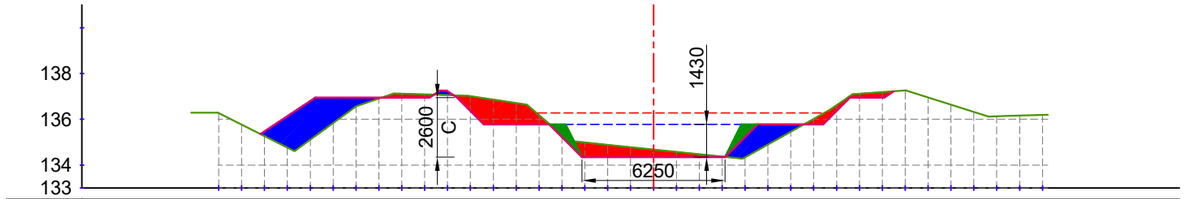
| | | |

X SECTION OF BASDIHA DY.



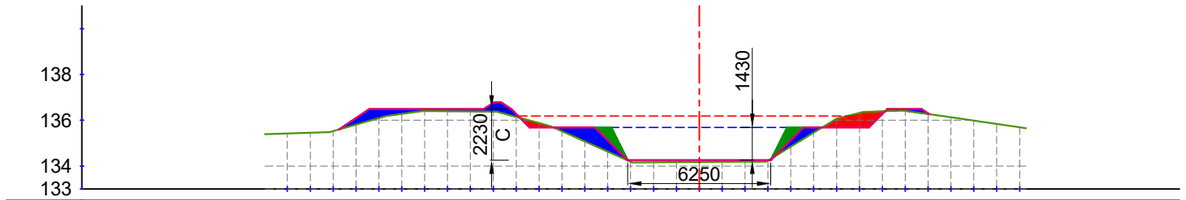
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X SECTION OF BASDIHA DY.



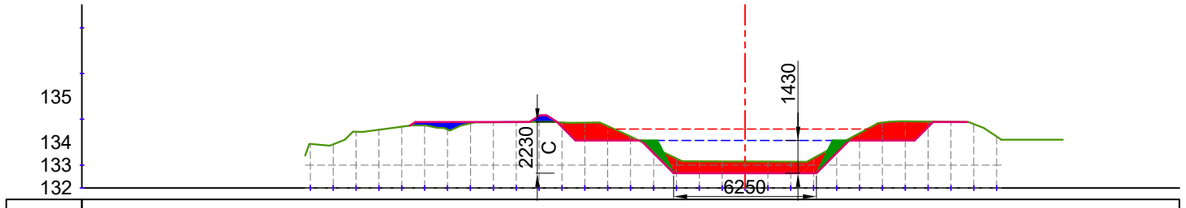
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X SECTION OF BASDIHA DY.



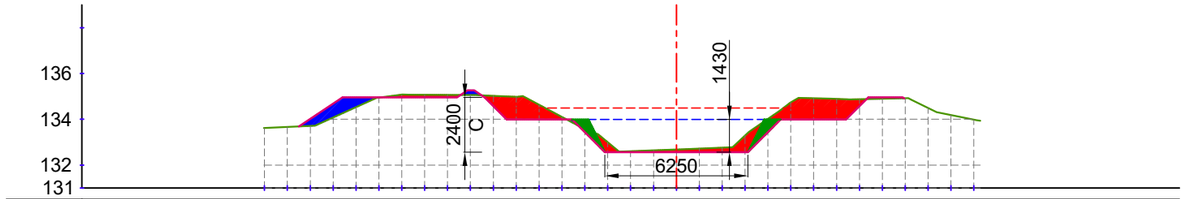
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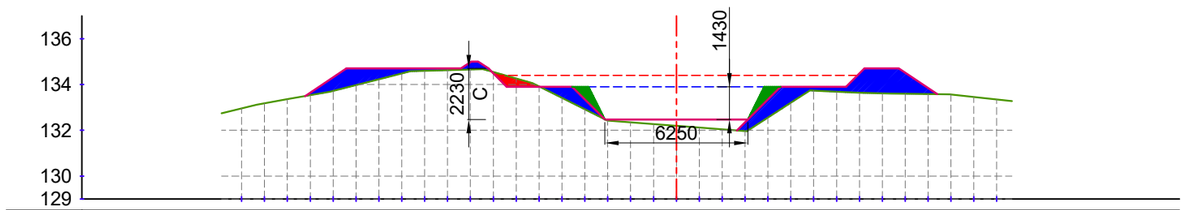
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X SECTION OF BASDIHA DY.



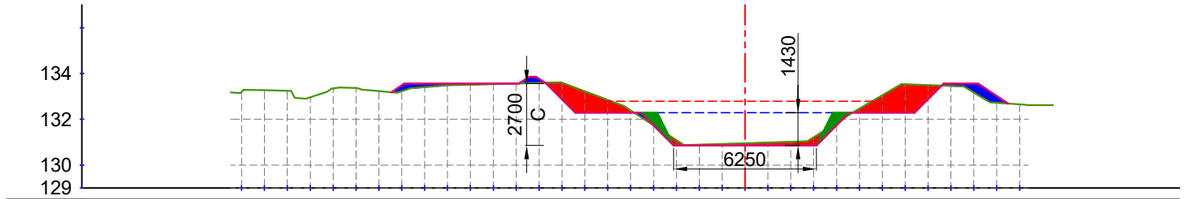
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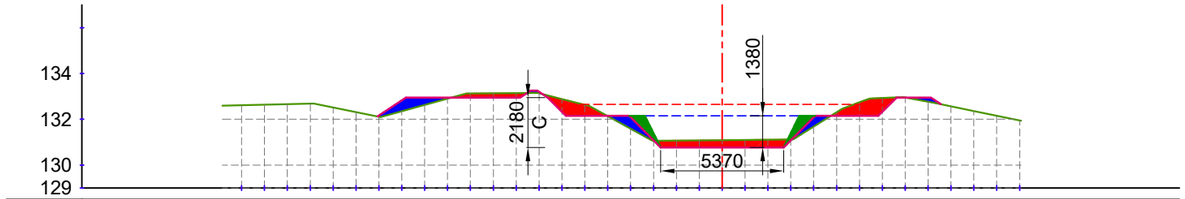
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X SECTION OF BASDIHA DY.



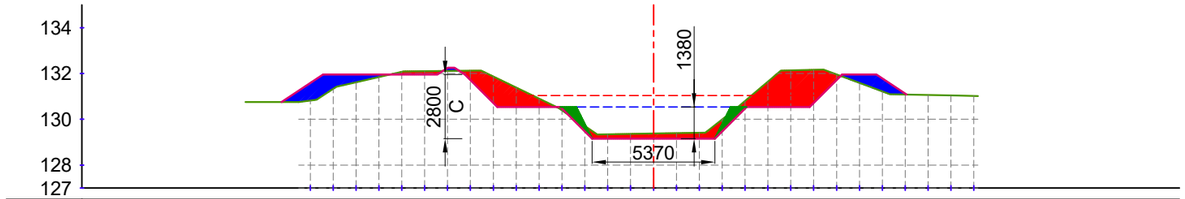
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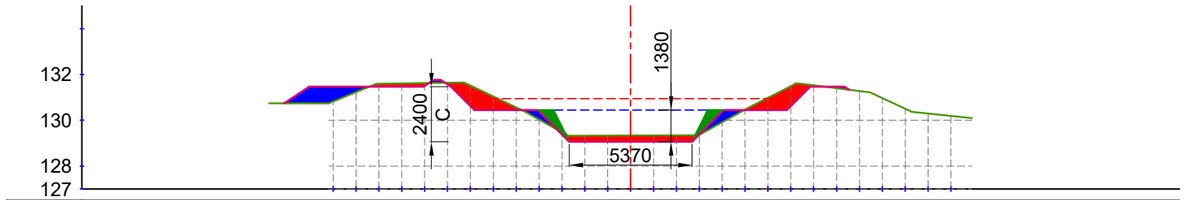
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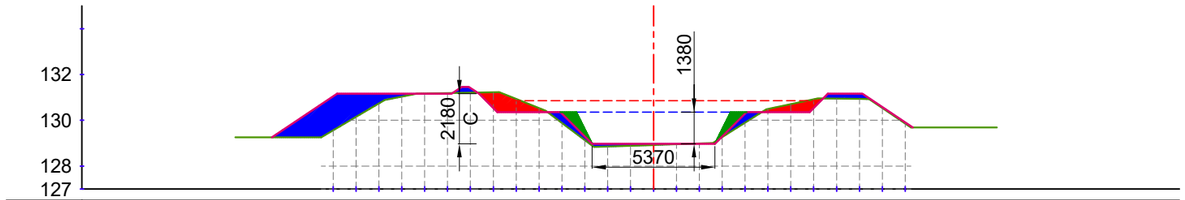
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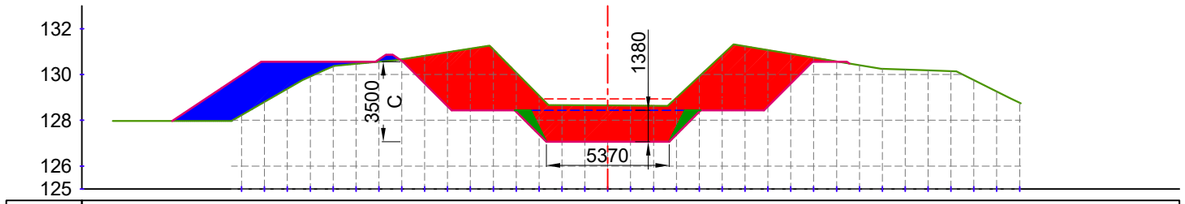
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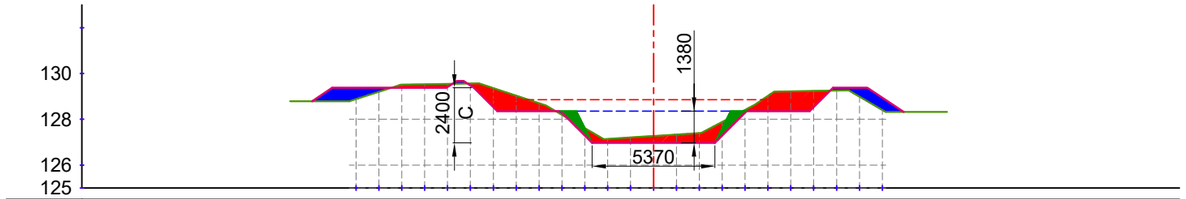
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X SECTION OF BASDIHA DY.



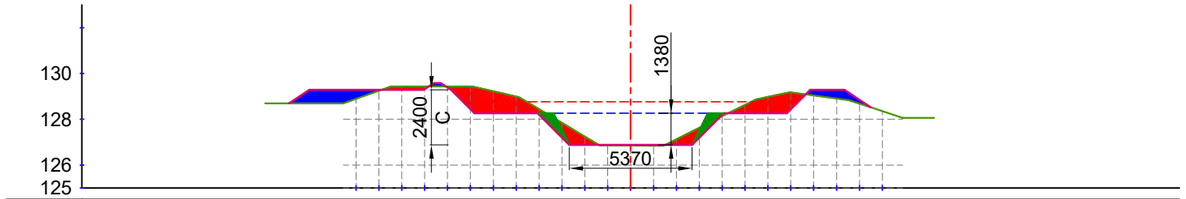
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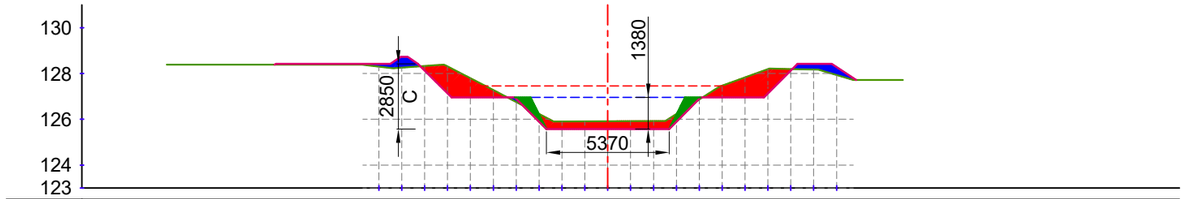
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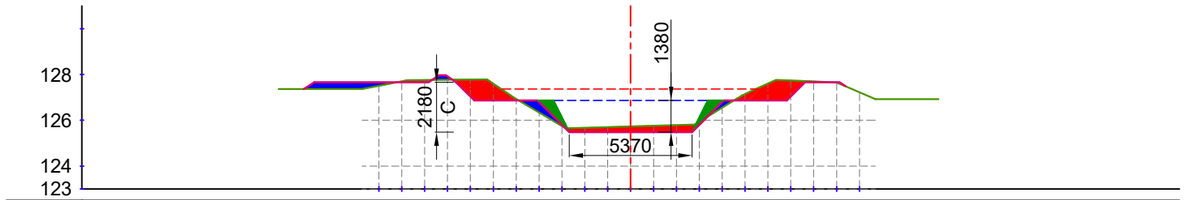
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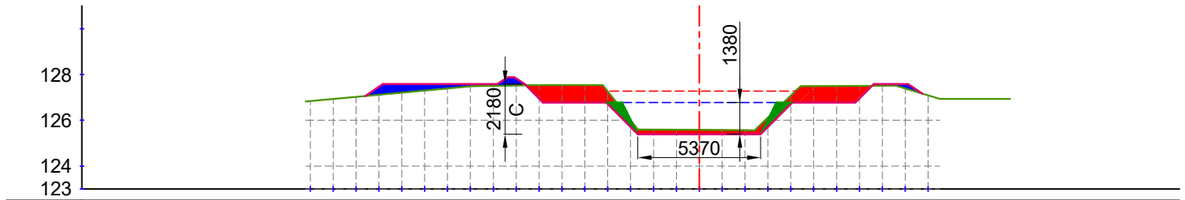
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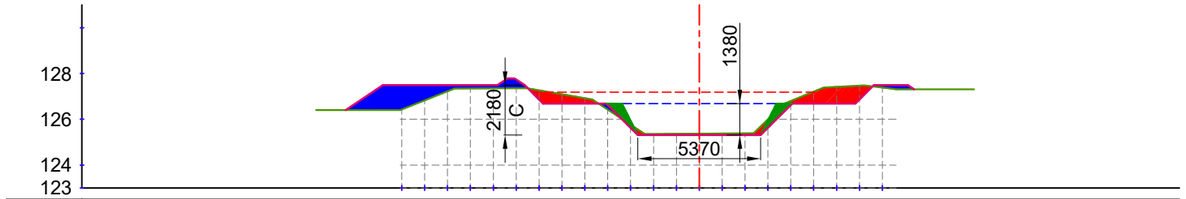
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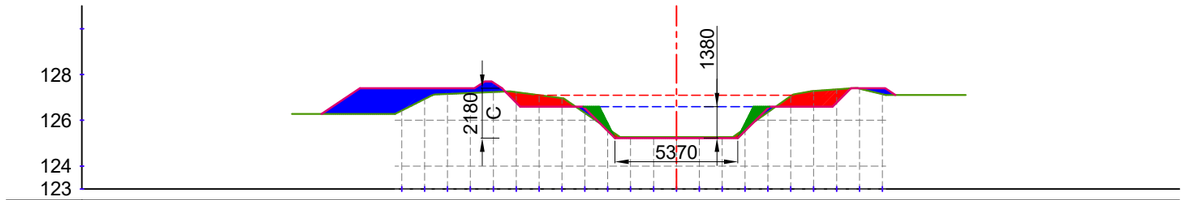
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X SECTION OF BASDIHA DY.



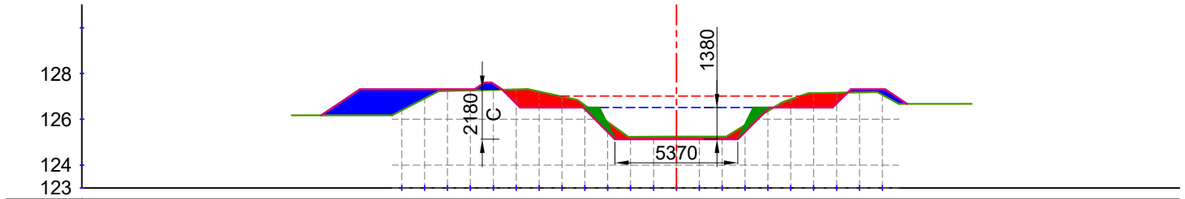
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X SECTION OF BASDIHA DY.



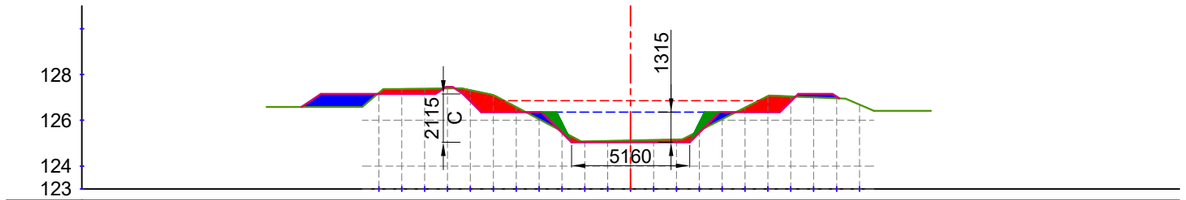
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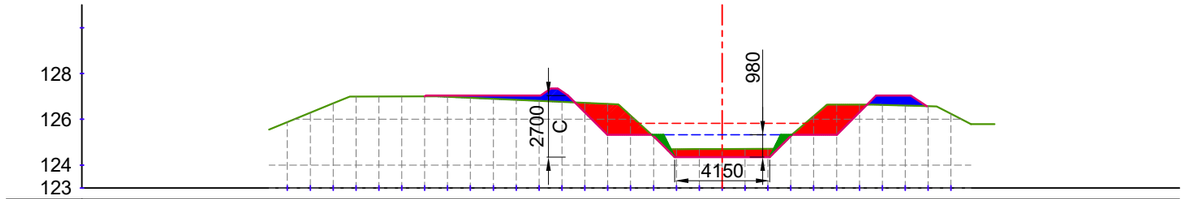
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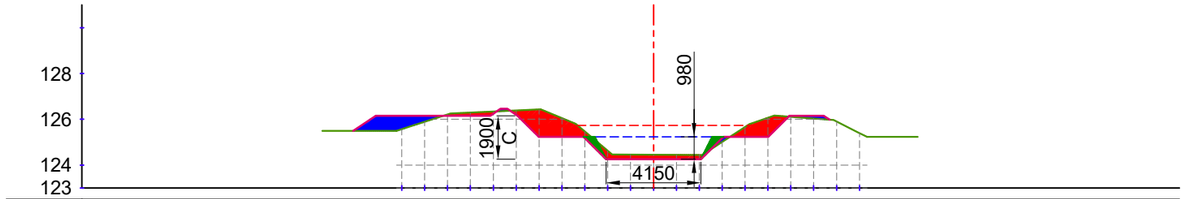
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X SECTION OF BASDIHA DY.



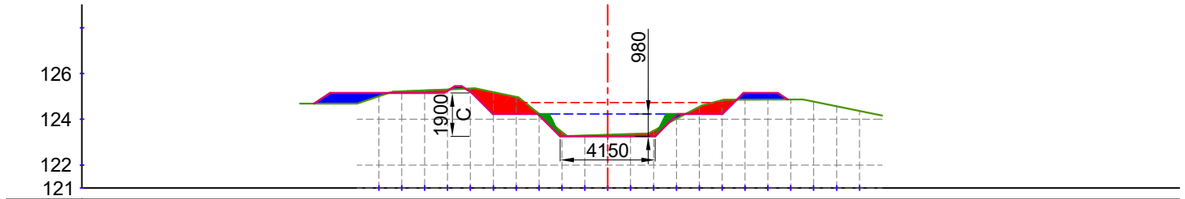
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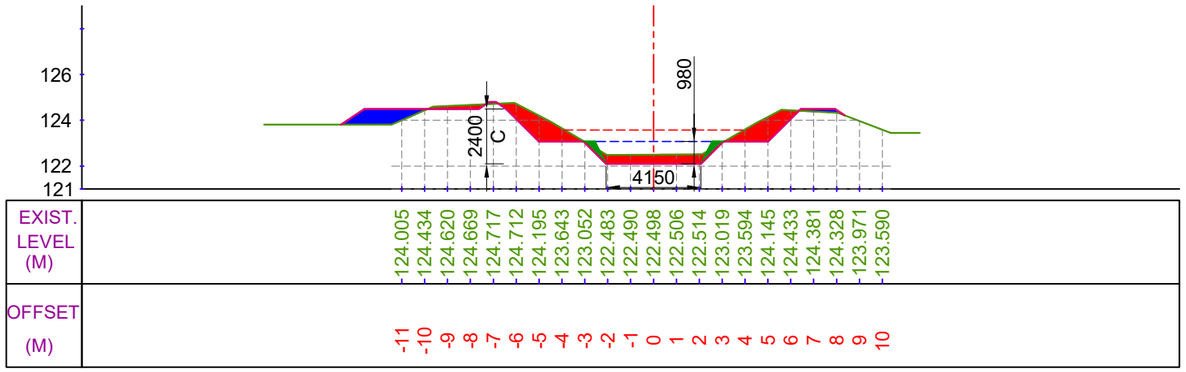
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X SECTION OF BASDIHA DY.



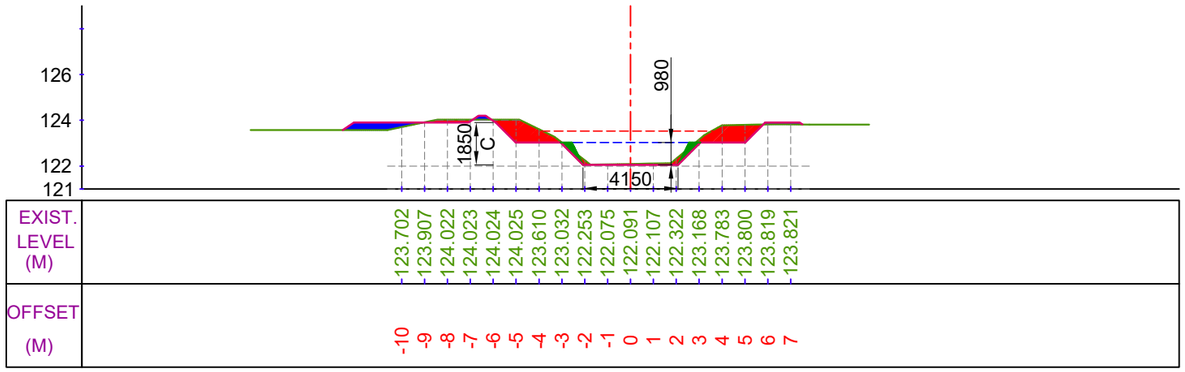
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X SECTION OF BASDIHA DY.



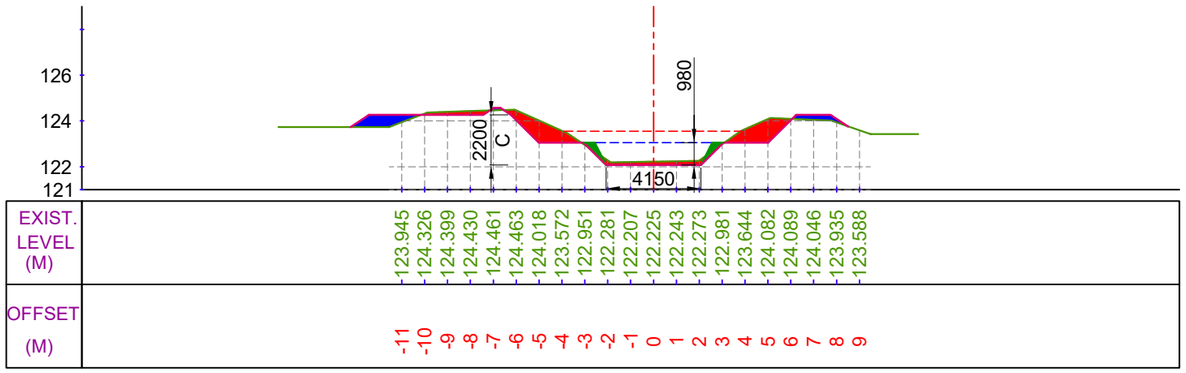
CUTTING AREA (SQ.M) = 6.297
FILLING AREA (SQ.M) = 1.938

CH. (KM):- 11+300
DESIGNED BED LEVEL = 122.094 M



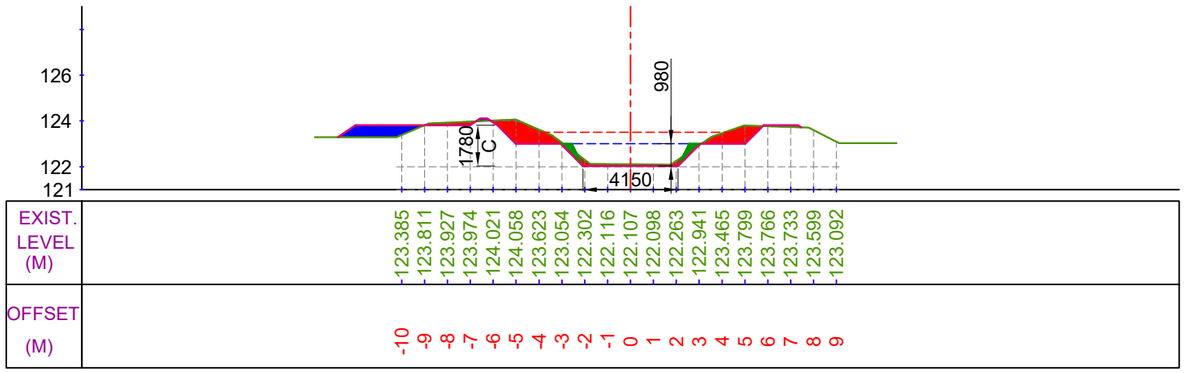
CUTTING AREA (SQ.M) = 3.753
FILLING AREA (SQ.M) = 1.041

CH. (KM):- 11+500
DESIGNED BED LEVEL = 122.050 M



CUTTING AREA (SQ.M) = 4.535
FILLING AREA (SQ.M) = 1.571

CH. (KM):- 11+400
DESIGNED BED LEVEL = 122.072 M



CUTTING AREA (SQ.M) = 3.678
FILLING AREA (SQ.M) = 1.589

CH. (KM):- 11+600
DESIGNED BED LEVEL = 122.028 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

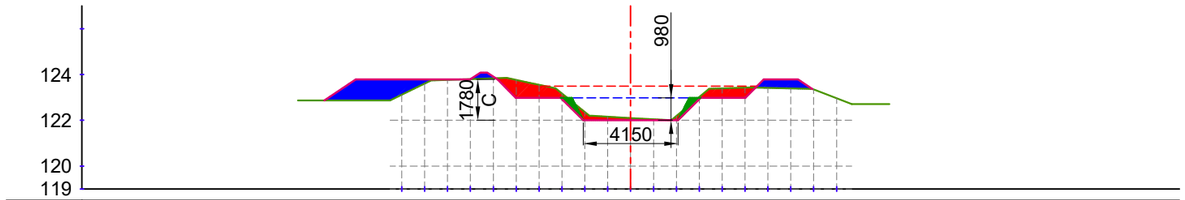
H.G. LINE

Prepared by :-

WAPCOS LTD.

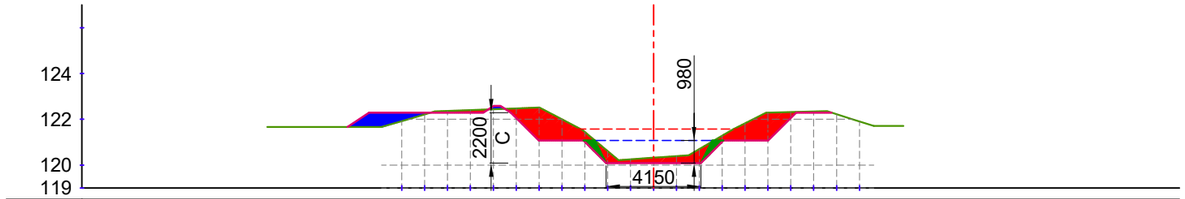
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 29 of 59

X SECTION OF BASDIHA DY.



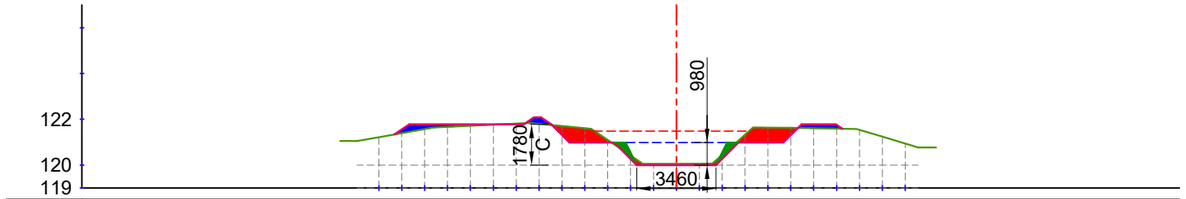
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X SECTION OF BASDIHA DY.



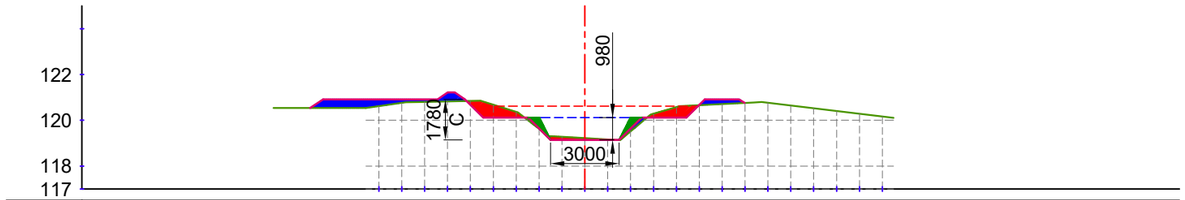
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X SECTION OF BASDIHA DY.



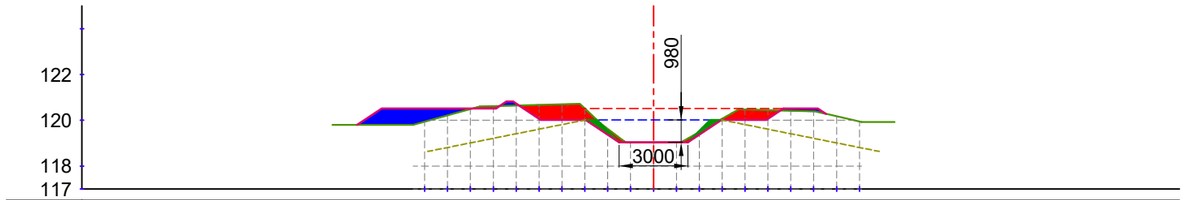
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X SECTION OF BASDIHA DY.



| | | |

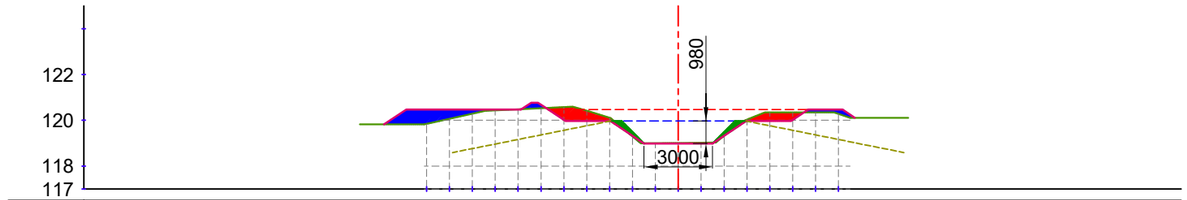
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	119.942	120.216	120.491	120.621	120.646	120.672	120.697	120.514	119.624	119.024	119.029	119.035	119.490	120.066	120.476	120.446	120.417	120.387	120.174	119.949
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 2.868
FILLING AREA (SQ.M) = 2.598

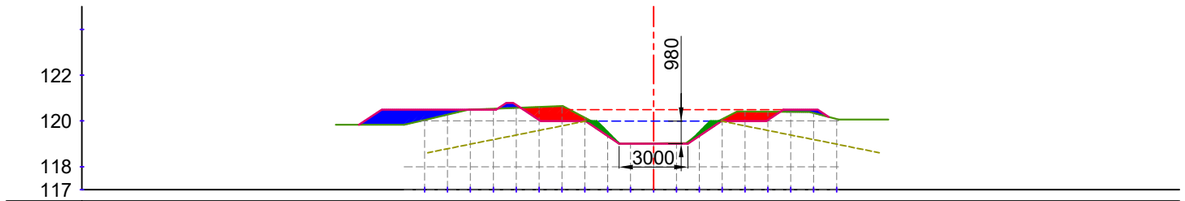
CH. (KM):- 13+300
DESIGNED BED LEVEL = 119.037 M



EXIST. LEVEL (M)	119.839	120.063	120.287	120.434	120.483	120.531	120.580	120.415	120.110	119.293	118.997	119.007	119.017	119.323	120.030	120.341	120.343	120.345	120.279
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 1.884
FILLING AREA (SQ.M) = 2.298

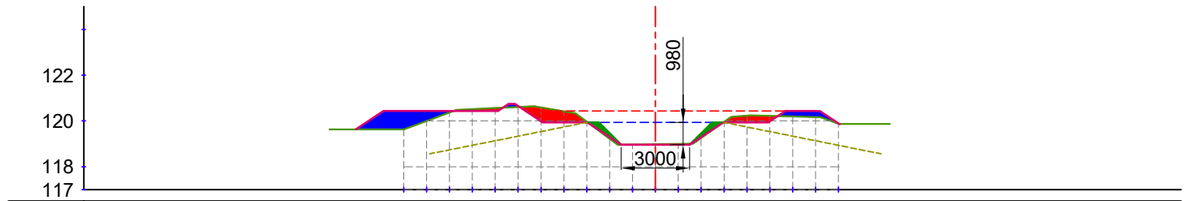
CH. (KM):- 13+500
DESIGNED BED LEVEL = 118.987 M



EXIST. LEVEL (M)	120.043	120.278	120.495	120.533	120.570	120.608	120.646	120.143	119.432	119.012	119.020	119.028	119.449	120.074	120.413	120.404	120.395	120.342	120.086
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 2.192
FILLING AREA (SQ.M) = 2.274

CH. (KM):- 13+400
DESIGNED BED LEVEL = 119.012 M



EXIST. LEVEL (M)	119.632	120.000	120.367	120.514	120.562	120.611	120.595	120.424	119.967	119.221	118.967	118.981	118.995	119.255	119.959	120.229	120.221	120.197	120.173	119.877
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 1.964
FILLING AREA (SQ.M) = 2.829

CH. (KM):- 13+600
DESIGNED BED LEVEL = 118.962 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

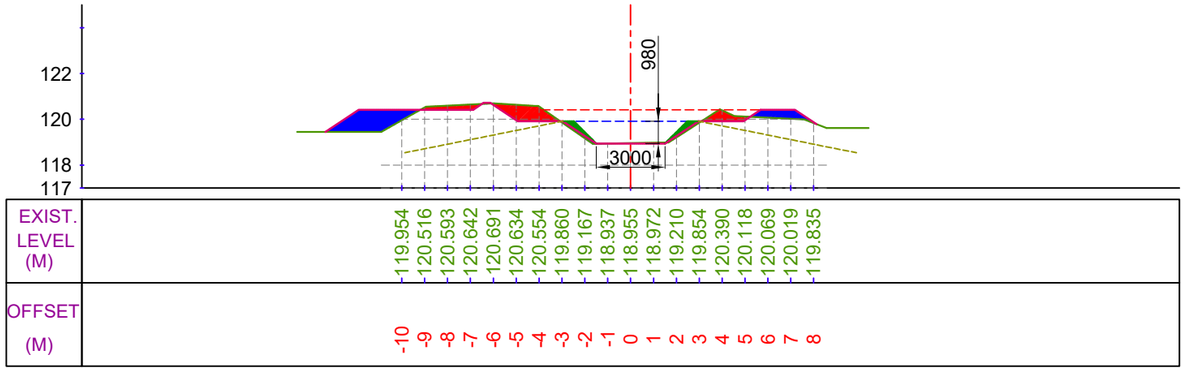
H.G. LINE

Prepared by :-

WAPCOS LTD.

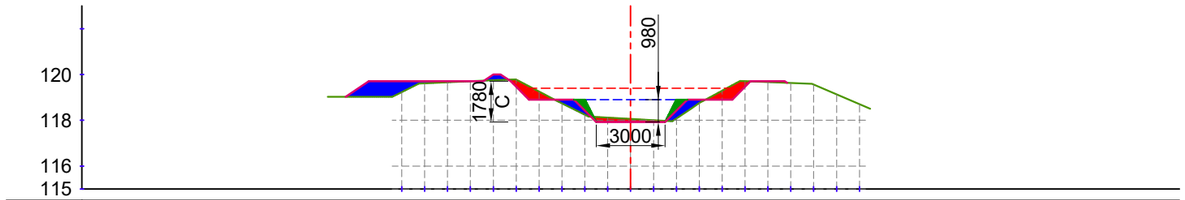
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 34 of 59

X SECTION OF BASDIHA DY.



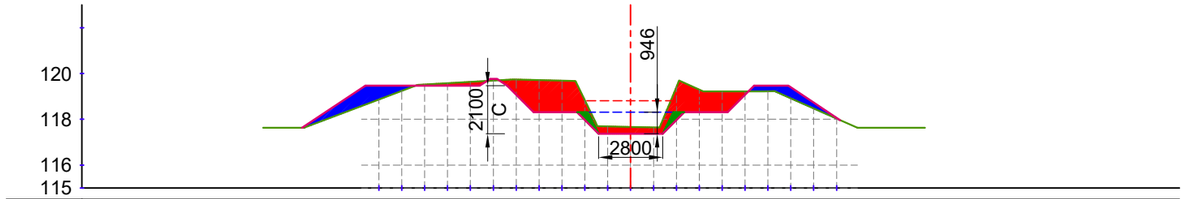
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X SECTION OF BASDIHA DY.



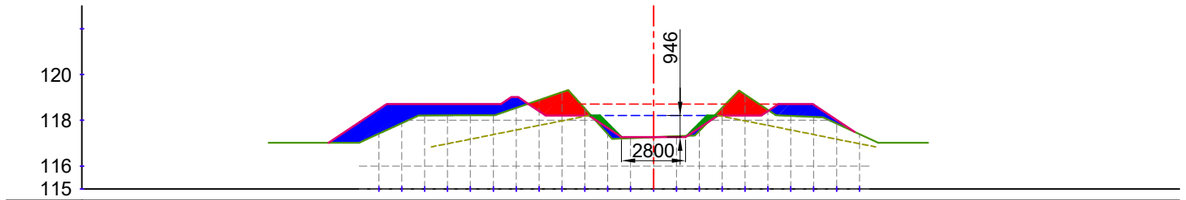
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X SECTION OF BASDIHA DY.



| | | |

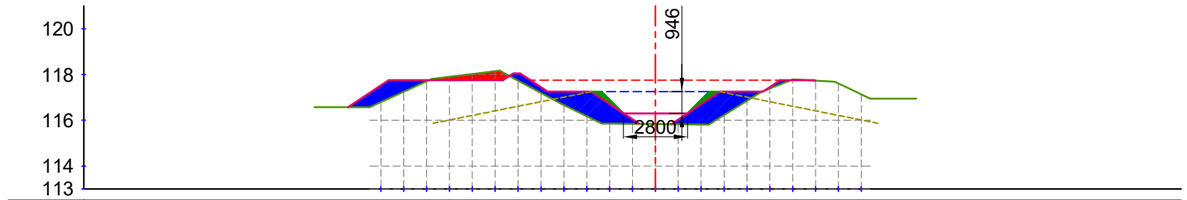
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	117.417	117.873	118.210	118.213	118.216	118.220	118.542	118.887	119.231	118.517	117.405	117.220	117.259	117.299	117.529	118.552	119.122	118.452	118.189	118.145	117.855	117.397
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 3.208
FILLING AREA (SQ.M) = 6.856

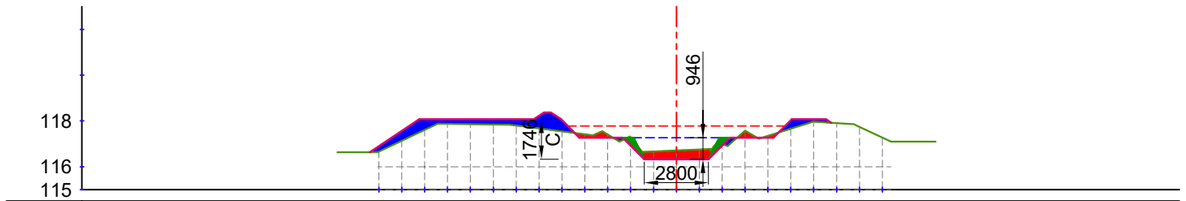
CH. (KM):- 14+900
DESIGNED BED LEVEL = 117.266 M



EXIST. LEVEL (M)	116.789	117.244	117.699	117.899	118.022	118.144	117.731	117.195	116.667	116.179	115.854	115.844	115.834	115.825	115.815	116.227	116.848	117.386	117.781	117.733	117.611	117.133
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 0.827
FILLING AREA (SQ.M) = 7.358

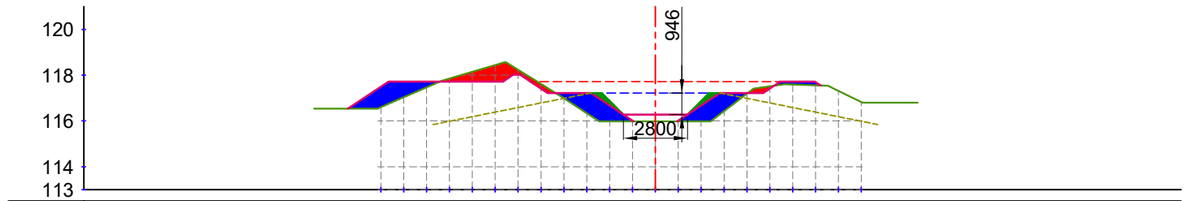
CH. (KM):- 15+100
DESIGNED BED LEVEL = 116.302 M



EXIST. LEVEL (M)	116.659	117.134	117.609	117.878	117.864	117.849	117.801	117.674	117.545	117.416	117.407	117.287	116.668	116.709	116.749	116.985	117.577	117.353	117.664	117.968	117.903	117.745	117.278
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 1.589
FILLING AREA (SQ.M) = 3.566

CH. (KM):- 15+000
DESIGNED BED LEVEL = 116.327 M



EXIST. LEVEL (M)	116.600	117.033	117.465	117.851	118.147	118.442	118.232	117.614	116.993	116.341	115.983	115.982	115.981	115.980	115.979	116.427	117.188	117.513	117.594	117.557	117.315	116.825
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 1.915
FILLING AREA (SQ.M) = 5.898

CH. (KM):- 15+200
DESIGNED BED LEVEL = 116.277 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

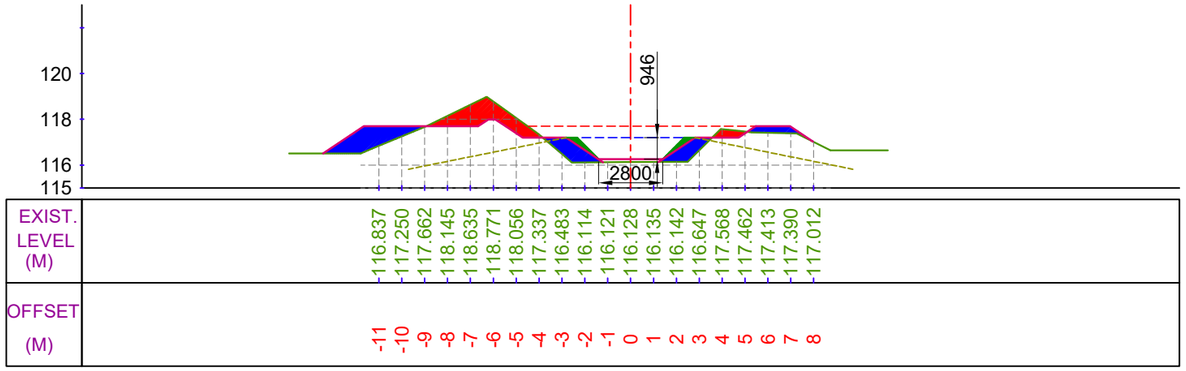
H.G. LINE

Prepared by :-

WAPCOS LTD.

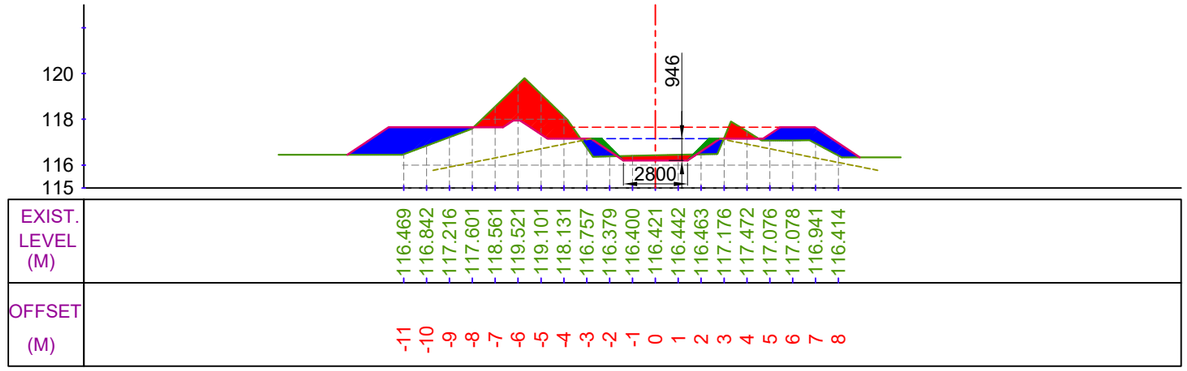
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 38 of 59

X SECTION OF BASDIHA DY.



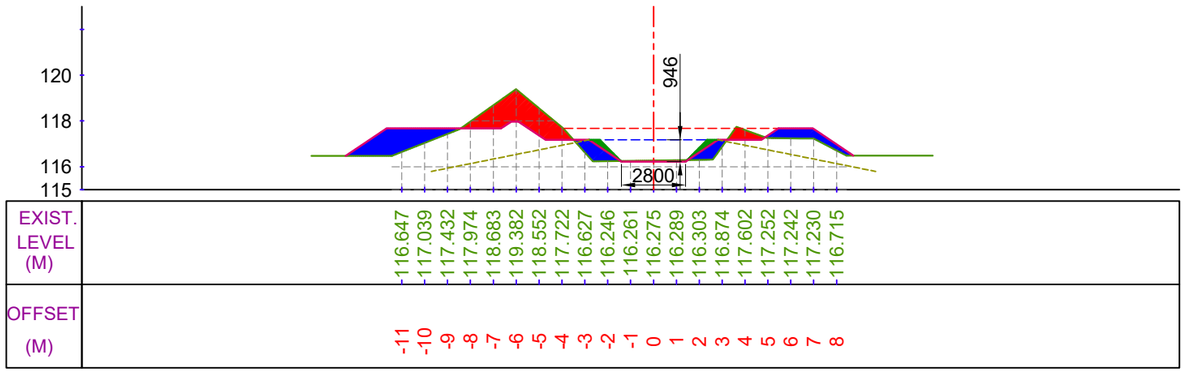
CUTTING AREA (SQ.M) = 3.458
FILLING AREA (SQ.M) = 5.551

CH. (KM):- 15+300
DESIGNED BED LEVEL = 116.252 M



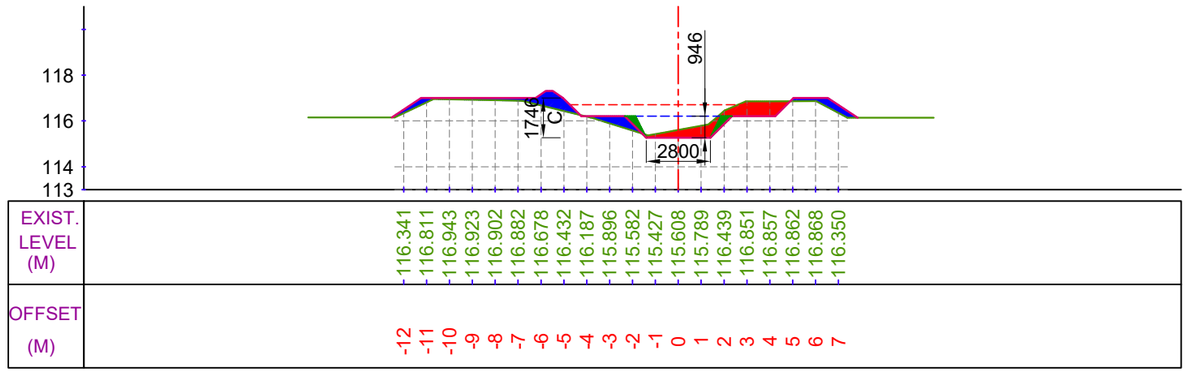
CUTTING AREA (SQ.M) = 6.596
FILLING AREA (SQ.M) = 6.722

CH. (KM):- 15+500
DESIGNED BED LEVEL = 116.202 M



CUTTING AREA (SQ.M) = 4.971
FILLING AREA (SQ.M) = 5.954

CH. (KM):- 15+400
DESIGNED BED LEVEL = 116.227 M



CUTTING AREA (SQ.M) = 2.649
FILLING AREA (SQ.M) = 3.041

CH. (KM):- 15+600
DESIGNED BED LEVEL = 115.263 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

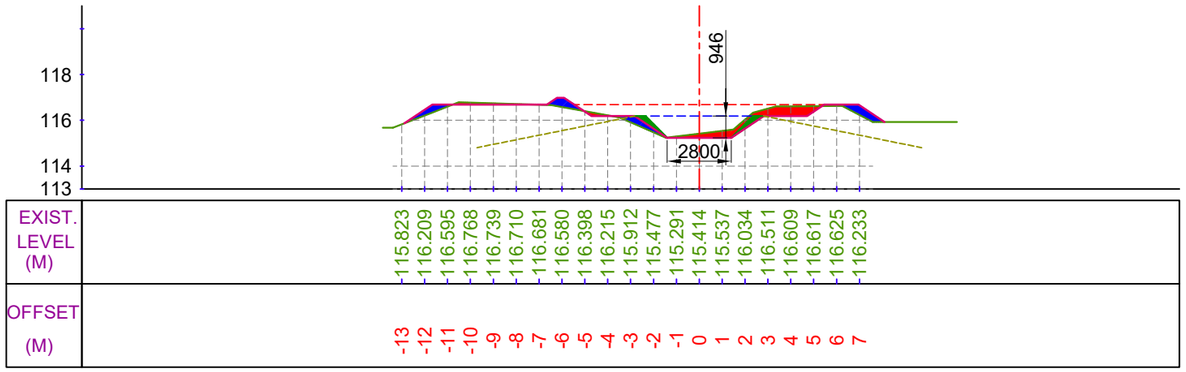
H.G. LINE

Prepared by :-

WAPCOS LTD.

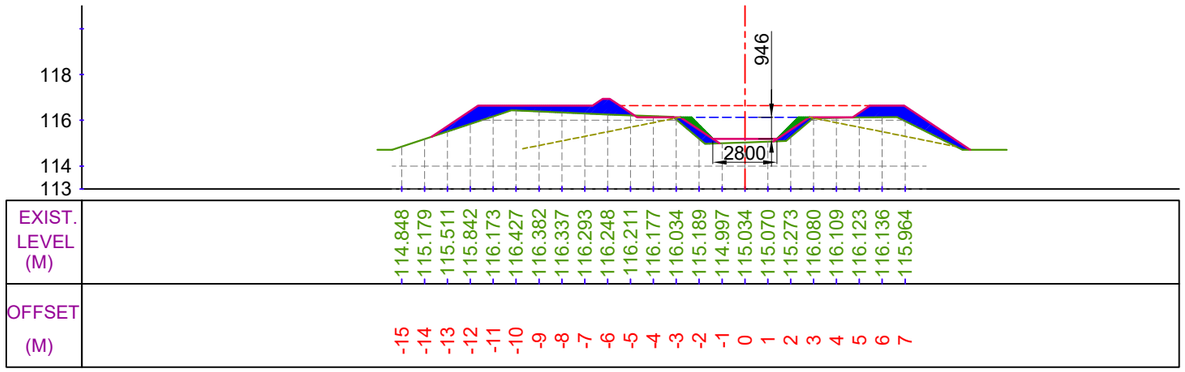
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 39 of 59

X SECTION OF BASDIHA DY.



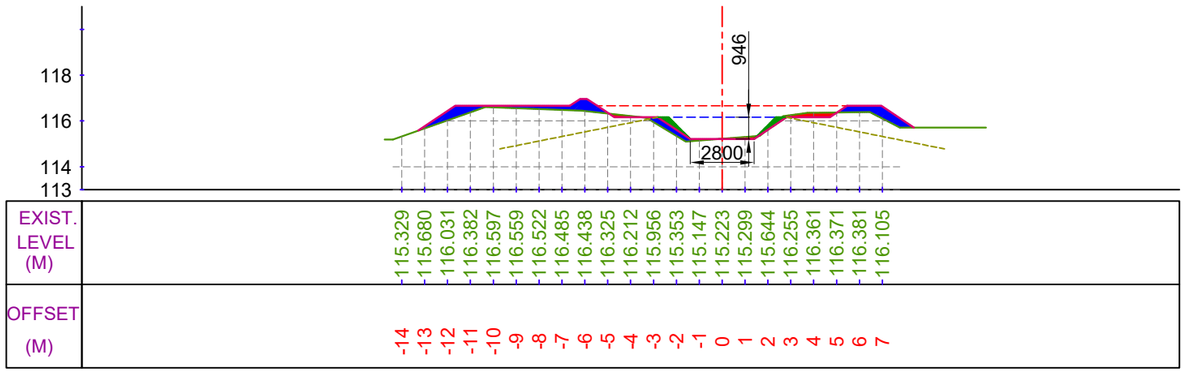
CUTTING AREA (SQ.M) = 1.985
FILLING AREA (SQ.M) = 1.714

CH. (KM):- 15+700
DESIGNED BED LEVEL = 115.238 M



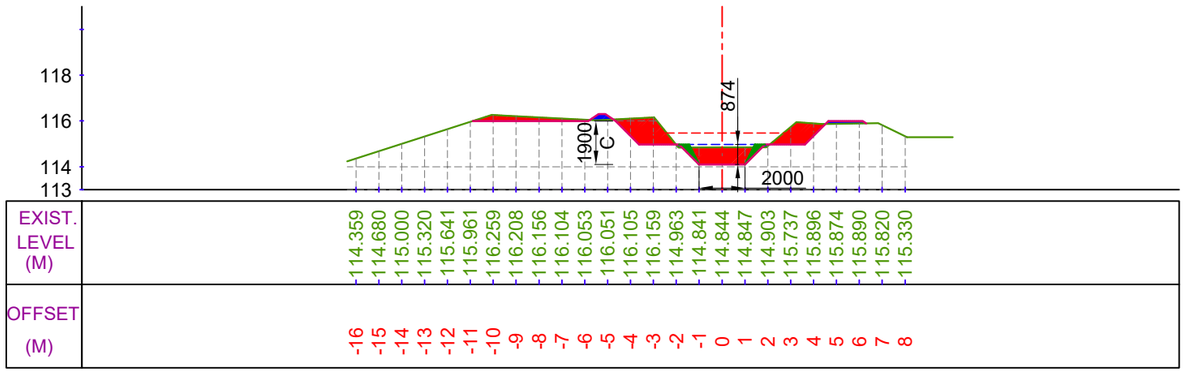
CUTTING AREA (SQ.M) = 0.067
FILLING AREA (SQ.M) = 6.238

CH. (KM):- 15+900
DESIGNED BED LEVEL = 115.188 M



CUTTING AREA (SQ.M) = 0.558
FILLING AREA (SQ.M) = 3.334

CH. (KM):- 15+800
DESIGNED BED LEVEL = 115.213 M



CUTTING AREA (SQ.M) = 5.878
FILLING AREA (SQ.M) = 0.405

CH. (KM):- 16+000
DESIGNED BED LEVEL = 114.096 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

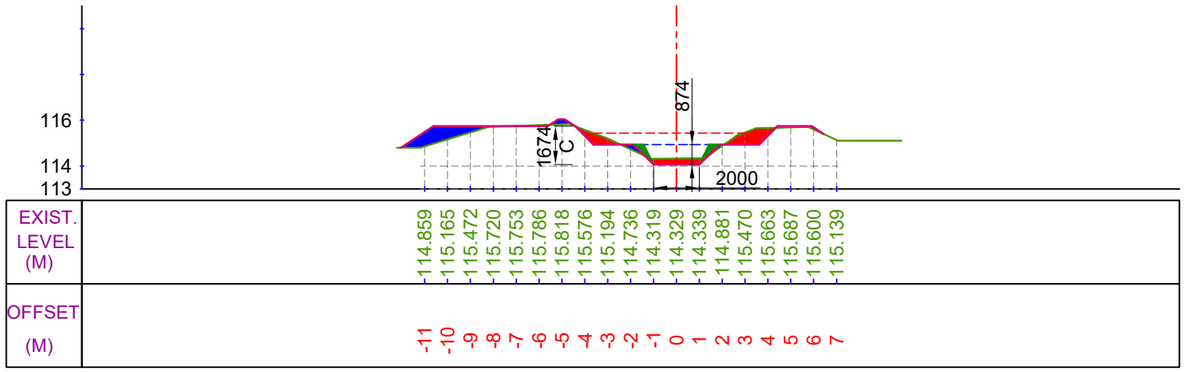
H.G. LINE

Prepared by :-

WAPCOS LTD.

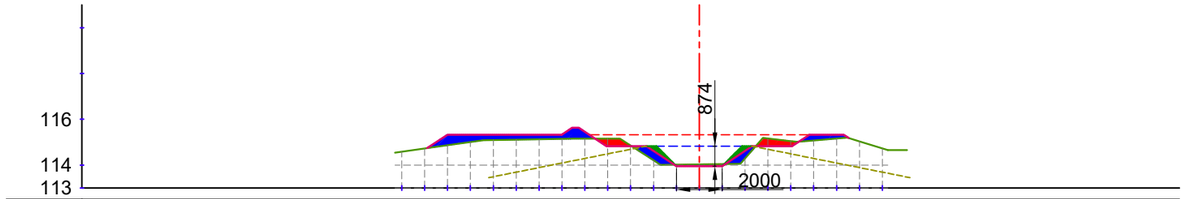
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 40 of 59

X SECTION OF BASDIHA DY.



| | | |

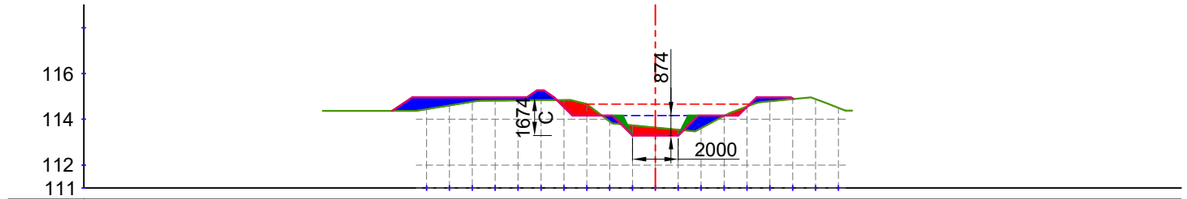
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	114.586	114.727	114.868	115.009	115.096	115.111	115.126	115.141	115.150	115.152	114.850	114.204	114.020	114.033	114.045	114.285	115.157	115.044	115.075	115.161	115.035	114.724		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8		

CUTTING AREA (SQ.M) = 0.963
FILLING AREA (SQ.M) = 3.152

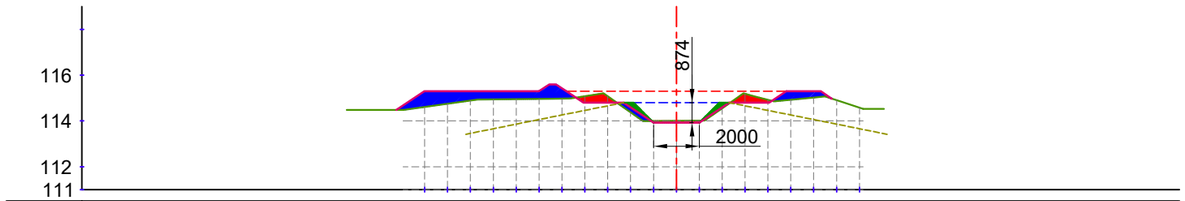
CH. (KM):- 16+500
DESIGNED BED LEVEL = 113.953 M



EXIST. LEVEL (M)	114.442	114.602	114.761	114.810	114.819	114.829	114.838	114.662	113.901	113.733	113.638	113.543	113.612	114.143	114.554	114.784	114.881	114.881	114.501					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8					

CUTTING AREA (SQ.M) = 1.664
FILLING AREA (SQ.M) = 3.092

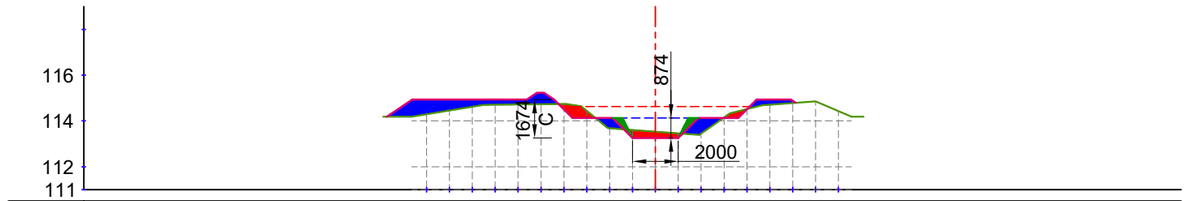
CH. (KM):- 16+700
DESIGNED BED LEVEL = 113.286 M



EXIST. LEVEL (M)	114.612	114.752	114.892	114.944	114.955	114.966	114.976	115.081	115.074	114.374	114.000	114.006	114.013	114.552	115.185	114.922	114.925	115.024	114.909	114.585				
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8				

CUTTING AREA (SQ.M) = 1.040
FILLING AREA (SQ.M) = 4.256

CH. (KM):- 16+600
DESIGNED BED LEVEL = 113.925 M



EXIST. LEVEL (M)	114.298	114.461	114.624	114.706	114.718	114.729	114.741	114.442	113.679	113.606	113.534	113.462	113.452	114.153	114.518	114.709	114.785	114.861	114.434					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8					

CUTTING AREA (SQ.M) = 1.314
FILLING AREA (SQ.M) = 4.202

CH. (KM):- 16+800
DESIGNED BED LEVEL = 113.257 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

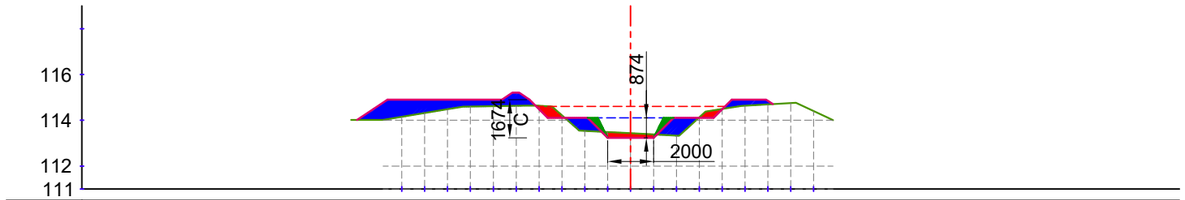
H.G. LINE

Prepared by :-

WAPCOS LTD.

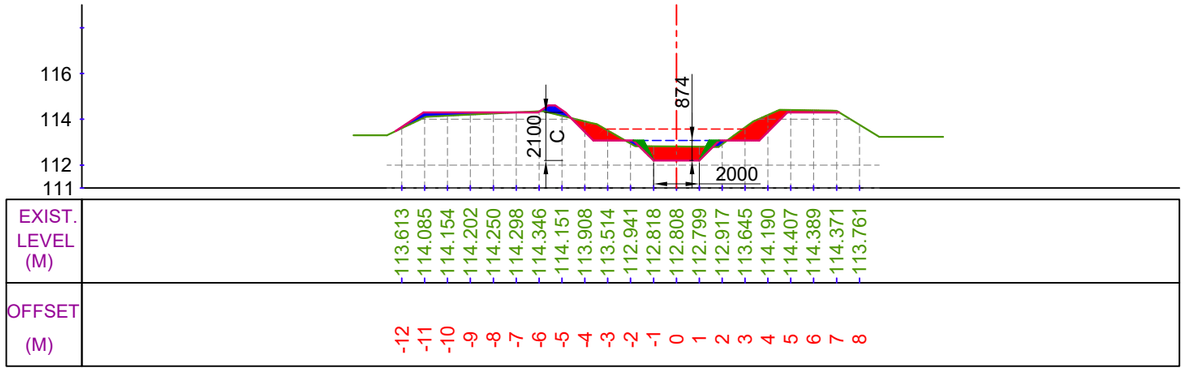
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 42 of 59

X SECTION OF BASDIHA DY.



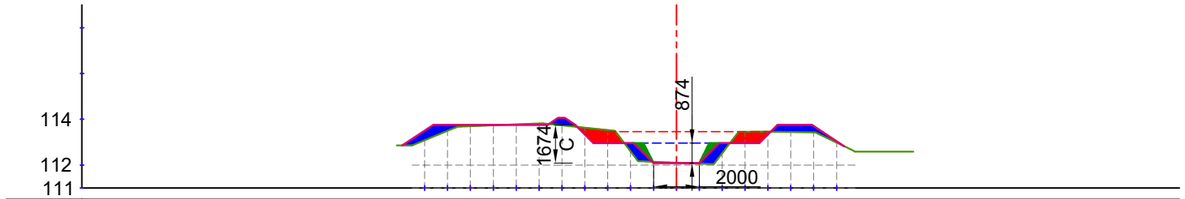
| | | |

X SECTION OF BASDIHA DY.



| | | |

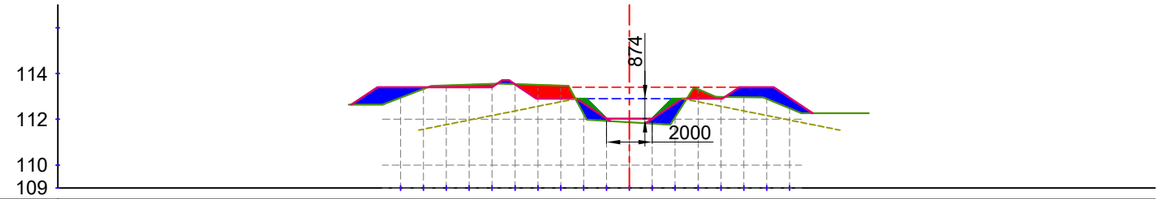
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	113.085	113.495	113.696	113.737	113.779	113.820	113.736	113.633	113.530	112.601	112.143	112.103	112.063	112.515	113.452	113.460	113.445	113.431	112.983			
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7			

CUTTING AREA (SQ.M) = 4.656
FILLING AREA (SQ.M) = 2.731

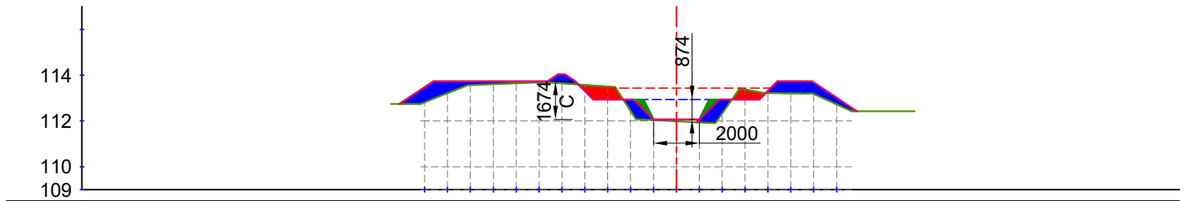
CH. (KM):- 17+700
DESIGNED BED LEVEL = 112.086 M



EXIST. LEVEL (M)	112.940	113.324	113.478	113.513	113.549	113.538	113.504	113.471	112.239	111.932	111.871	111.809	112.096	113.319	112.982	112.970	112.897	112.484				
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7				

CUTTING AREA (SQ.M) = 1.844
FILLING AREA (SQ.M) = 4.186

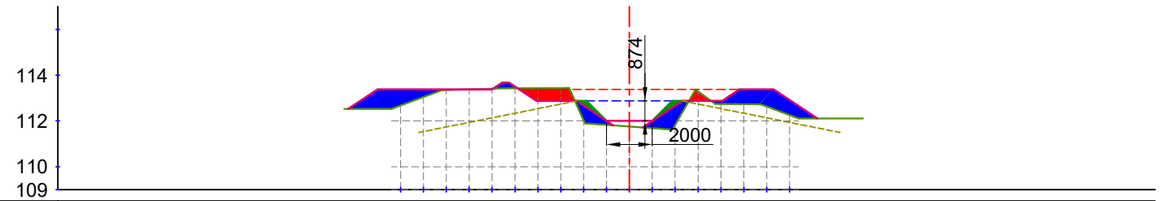
CH. (KM):- 17+900
DESIGNED BED LEVEL = 112.029 M



EXIST. LEVEL (M)	112.816	113.212	113.568	113.607	113.645	113.684	113.639	113.570	113.501	112.437	112.038	111.987	111.935	112.317	113.378	113.221	113.208	113.178	112.728			
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7			

CUTTING AREA (SQ.M) = 1.329
FILLING AREA (SQ.M) = 4.822

CH. (KM):- 17+800
DESIGNED BED LEVEL = 112.058 M



EXIST. LEVEL (M)	112.670	113.043	113.351	113.383	113.414	113.431	113.435	113.439	112.029	111.826	111.755	111.685	111.823	113.290	112.743	112.733	112.631	112.256				
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7				

CUTTING AREA (SQ.M) = 1.373
FILLING AREA (SQ.M) = 6.220

CH. (KM):- 18+000
DESIGNED BED LEVEL = 112.001 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

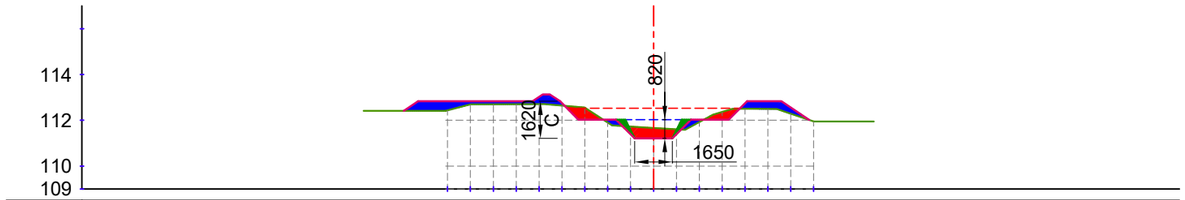
H.G. LINE

Prepared by :-

WAPCOS LTD.

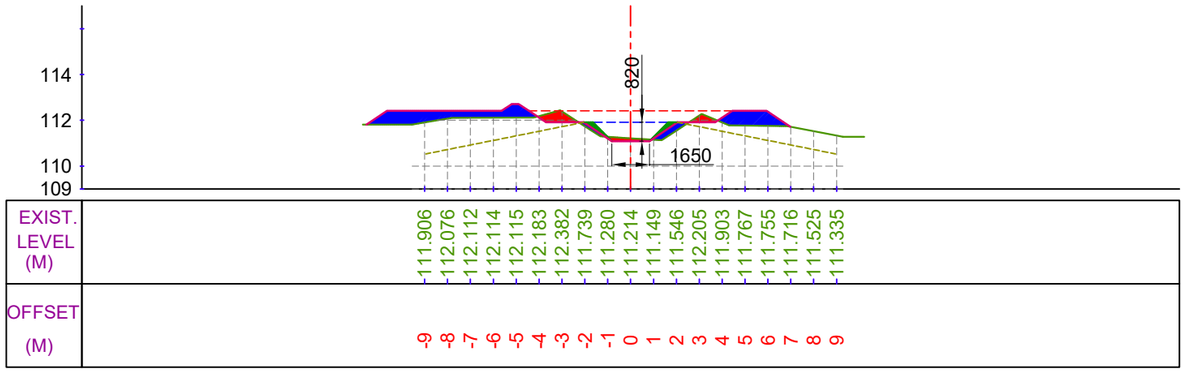
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 45 of 59

X SECTION OF BASDIHA DY.



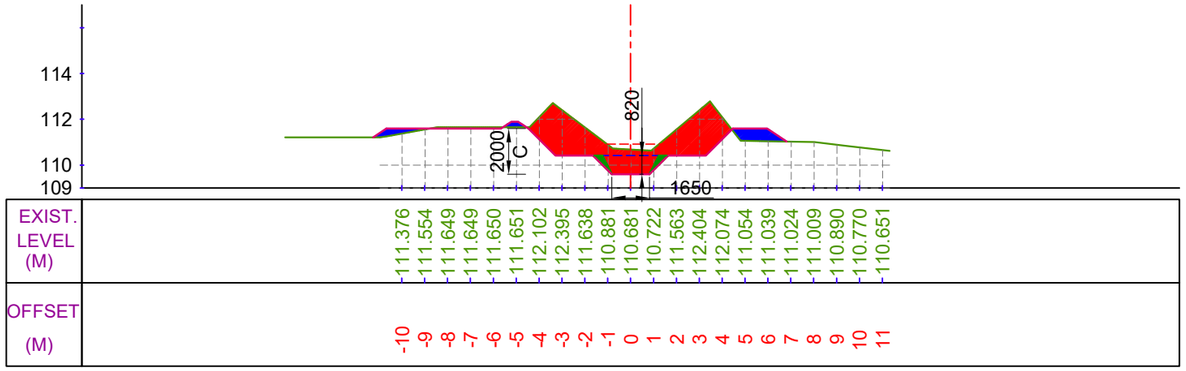
| | | |

X SECTION OF BASDIHA DY.



| | | |

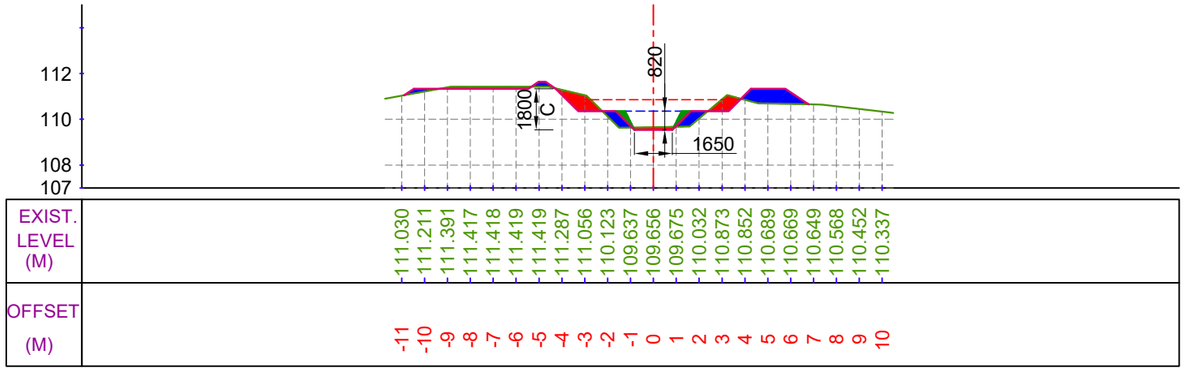
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	111.376	111.554	111.649	111.649	111.650	111.651	112.102	112.395	111.638	110.881	110.681	110.722	111.563	112.404	112.074	111.054	111.039	111.024	111.009	110.890	110.770	110.651
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 11.192
FILLING AREA (SQ.M) = 1.580

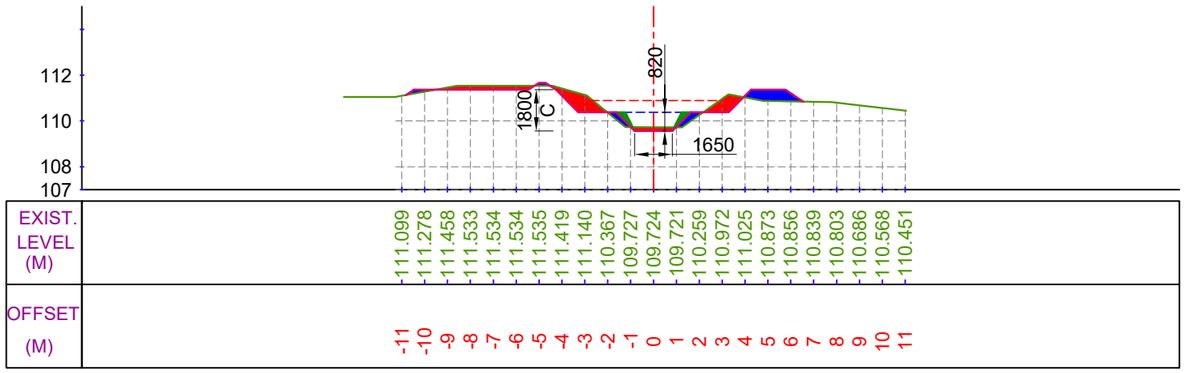
CH. (KM):- 18+900
DESIGNED BED LEVEL = 109.596 M



EXIST. LEVEL (M)	111.030	111.211	111.391	111.417	111.418	111.419	111.419	111.287	111.056	110.123	109.637	109.656	109.675	110.032	110.873	110.852	110.689	110.669	110.649	110.568	110.452	110.337
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 1.913
FILLING AREA (SQ.M) = 2.599

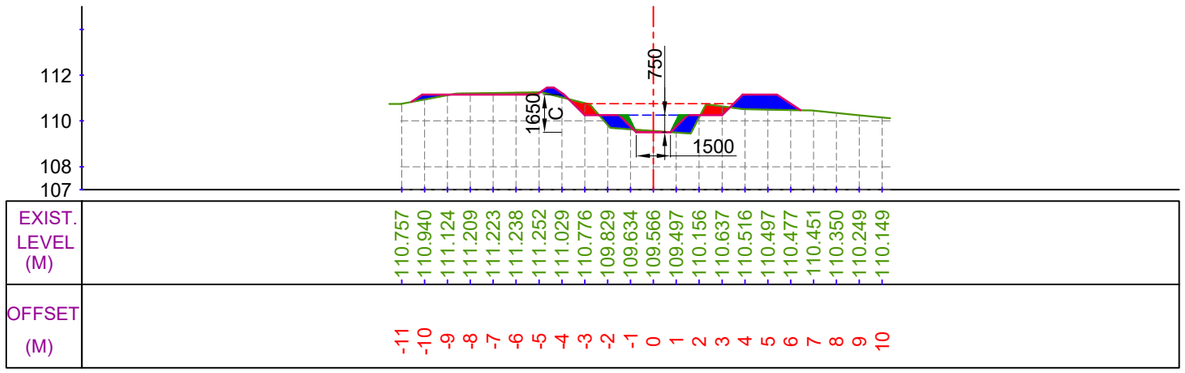
CH. (KM):- 19+100
DESIGNED BED LEVEL = 109.535 M



EXIST. LEVEL (M)	111.099	111.278	111.458	111.533	111.534	111.534	111.535	111.419	111.140	110.367	109.727	109.724	109.721	110.259	110.972	111.025	110.873	110.856	110.839	110.803	110.686	110.568	110.451
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 2.696
FILLING AREA (SQ.M) = 1.613

CH. (KM):- 19+000
DESIGNED BED LEVEL = 109.565 M



EXIST. LEVEL (M)	110.757	110.940	111.124	111.209	111.223	111.238	111.252	111.029	110.776	109.829	109.634	109.566	109.497	110.156	110.637	110.516	110.497	110.477	110.451	110.350	110.249	110.149
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 1.161
FILLING AREA (SQ.M) = 3.064

CH. (KM):- 19+200
DESIGNED BED LEVEL = 109.505 M

LEGEND

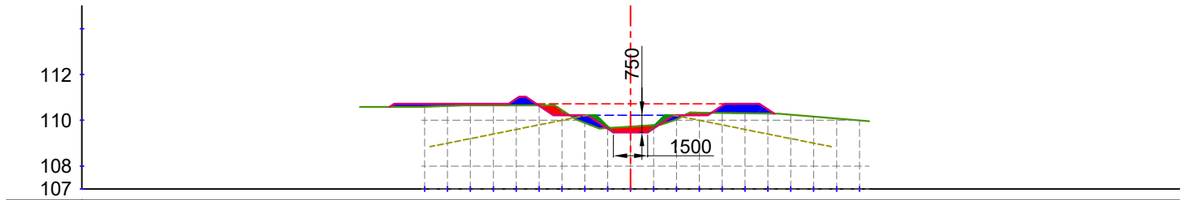
	CUT AREA		F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 48 of 59

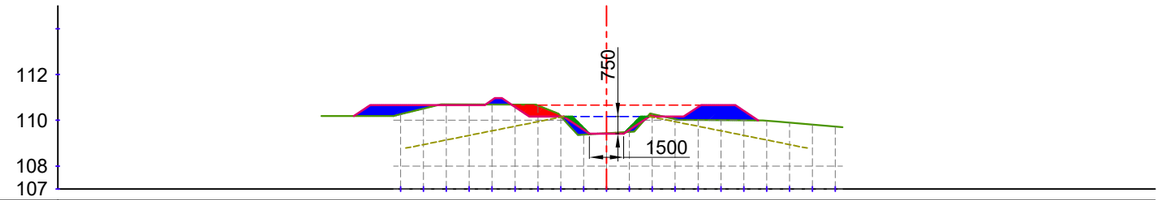
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	110.590	110.624	110.647	110.648	110.649	110.651	110.439	109.885	109.660	109.724	109.787	110.034	110.337	110.322	110.307	110.291	110.240	110.157	110.074	109.991	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	

CUTTING AREA (SQ.M) = 0.850
FILLING AREA (SQ.M) = 2.247

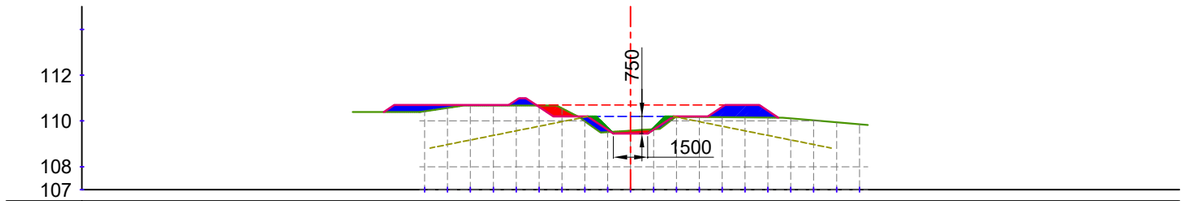
CH. (KM):- 19+300
DESIGNED BED LEVEL = 109.474 M



EXIST. LEVEL (M)	110.262	110.509	110.699	110.696	110.693	110.690	110.643	110.176	109.371	109.433	109.495	110.275	110.051	110.012	110.007	110.001	109.981	109.895	109.808	109.722	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	

CUTTING AREA (SQ.M) = 0.829
FILLING AREA (SQ.M) = 3.373

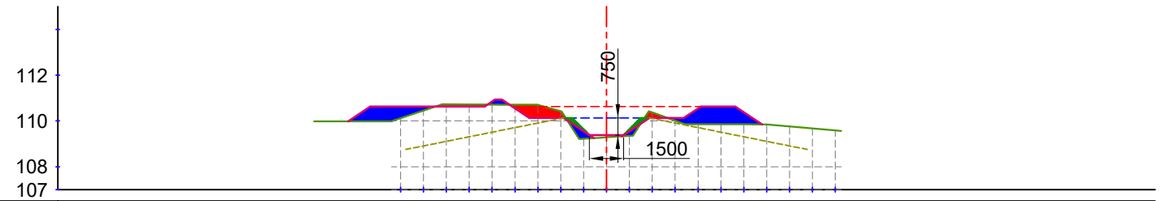
CH. (KM):- 19+500
DESIGNED BED LEVEL = 109.414 M



EXIST. LEVEL (M)	110.419	110.568	110.673	110.672	110.671	110.670	110.556	109.988	109.516	109.578	109.641	110.169	110.179	110.168	110.158	110.147	110.110	110.025	109.941	109.856	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	

CUTTING AREA (SQ.M) = 0.684
FILLING AREA (SQ.M) = 2.674

CH. (KM):- 19+400
DESIGNED BED LEVEL = 109.444 M



EXIST. LEVEL (M)	110.117	110.450	110.726	110.721	110.715	110.710	110.703	110.427	109.227	109.288	109.349	110.369	110.010	109.854	109.853	109.852	109.852	109.764	109.676	109.587	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	

CUTTING AREA (SQ.M) = 1.255
FILLING AREA (SQ.M) = 4.196

CH. (KM):- 19+600
DESIGNED BED LEVEL = 109.384 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

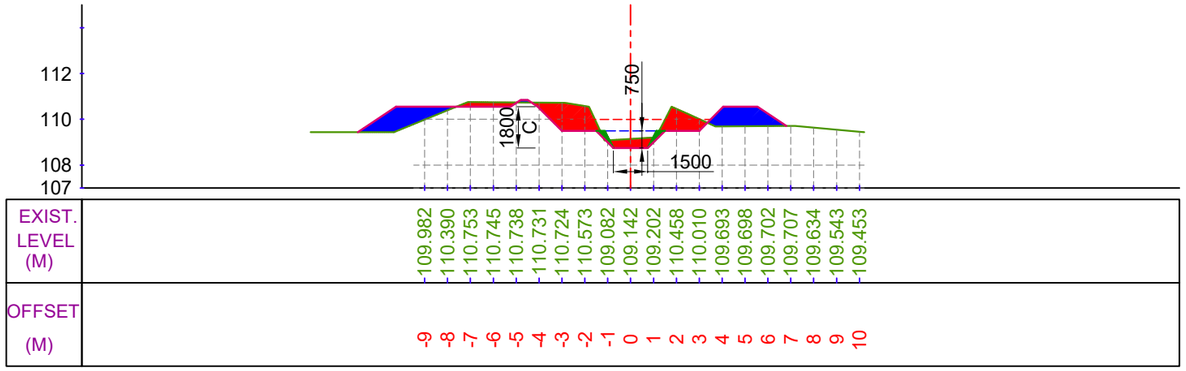
H.G. LINE

Prepared by :-

WAPCOS LTD.

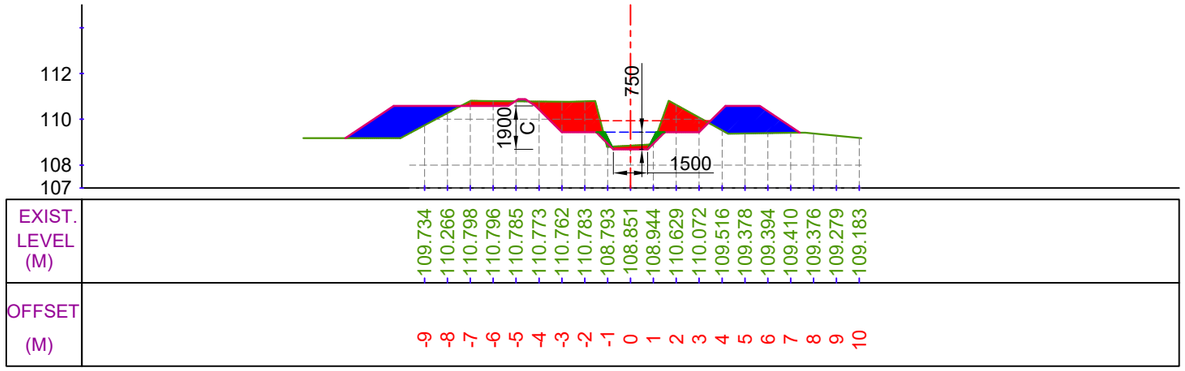
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 49 of 59

X SECTION OF BASDIHA DY.



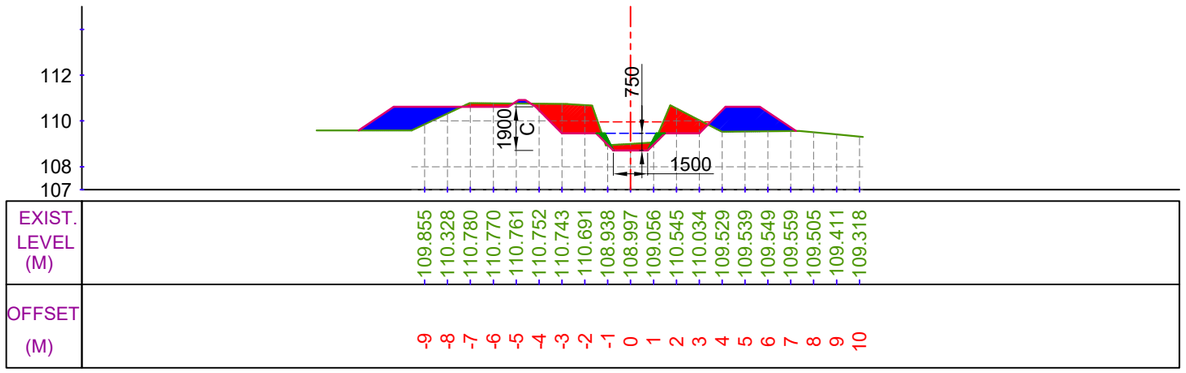
CUTTING AREA (SQ.M) = 4.859
FILLING AREA (SQ.M) = 4.496

CH. (KM):- 19+700
DESIGNED BED LEVEL = 108.743 M



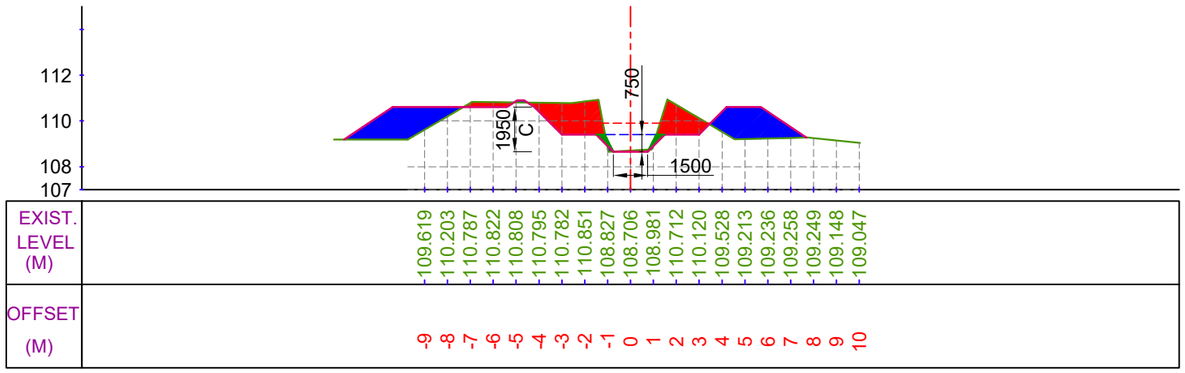
CUTTING AREA (SQ.M) = 5.611
FILLING AREA (SQ.M) = 7.114

CH. (KM):- 19+900
DESIGNED BED LEVEL = 108.683 M



CUTTING AREA (SQ.M) = 5.074
FILLING AREA (SQ.M) = 5.683

CH. (KM):- 19+800
DESIGNED BED LEVEL = 108.713 M



CUTTING AREA (SQ.M) = 6.080
FILLING AREA (SQ.M) = 8.082

CH. (KM):- 20+000
DESIGNED BED LEVEL = 108.652 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

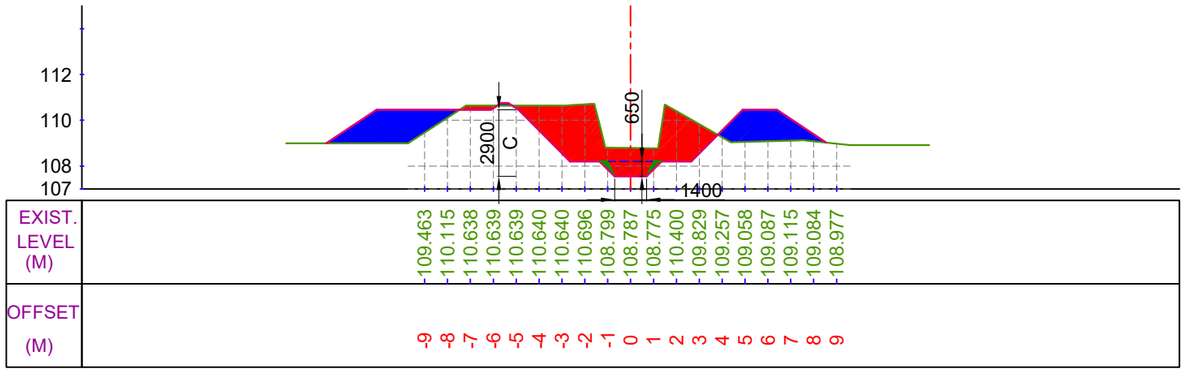
H.G. LINE

Prepared by :-

WAPCOS LTD.

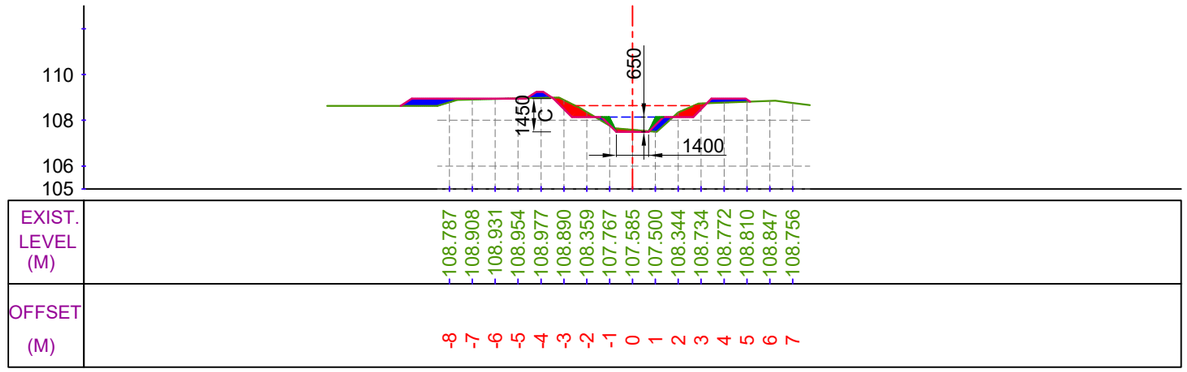
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 50 of 59

X SECTION OF BASDIHA DY.



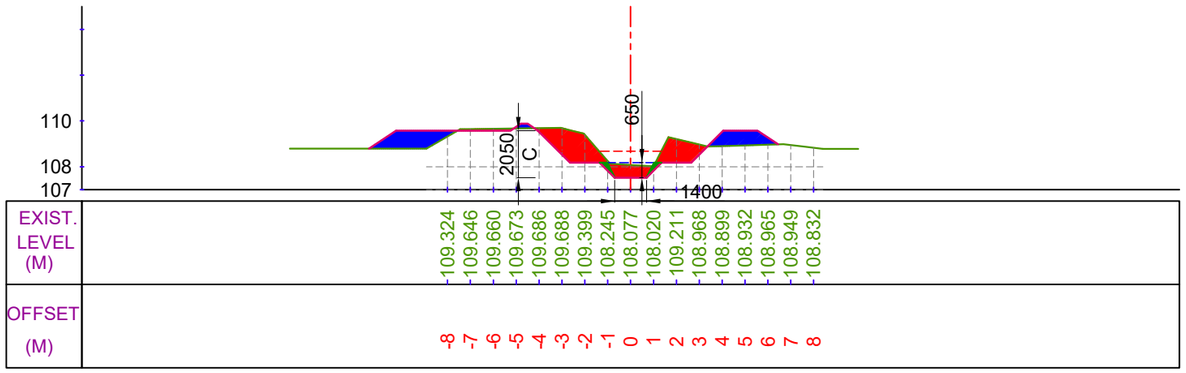
CUTTING AREA (SQ.M) = 13.075
FILLING AREA (SQ.M) = 9.625

CH. (KM):- 20+100
DESIGNED BED LEVEL = 107.555 M



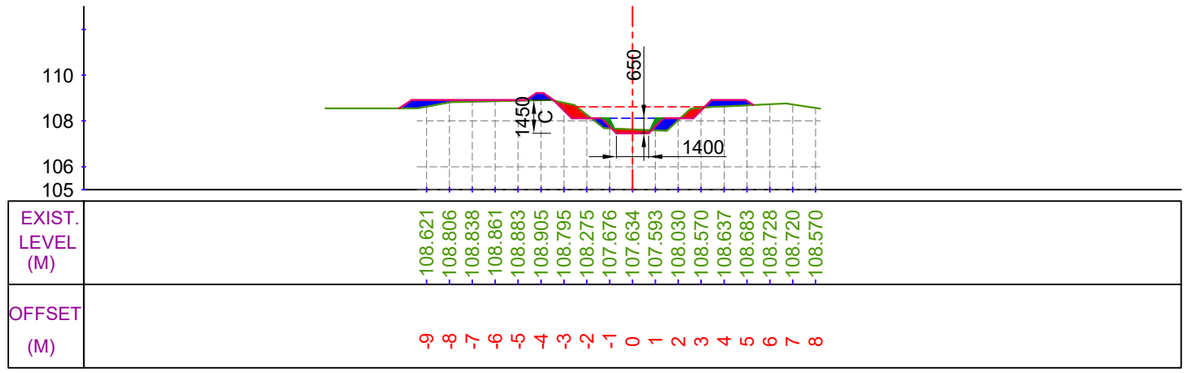
CUTTING AREA (SQ.M) = 1.131
FILLING AREA (SQ.M) = 1.430

CH. (KM):- 20+300
DESIGNED BED LEVEL = 107.494 M



CUTTING AREA (SQ.M) = 5.401
FILLING AREA (SQ.M) = 3.643

CH. (KM):- 20+200
DESIGNED BED LEVEL = 107.525 M



CUTTING AREA (SQ.M) = 1.010
FILLING AREA (SQ.M) = 2.006

CH. (KM):- 20+400
DESIGNED BED LEVEL = 107.464 M

LEGEND

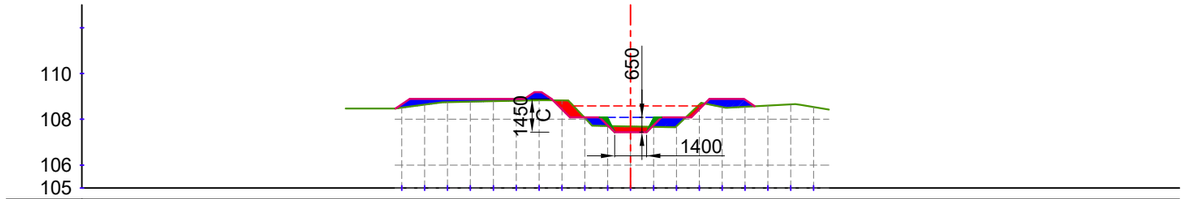
	CUT AREA		F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

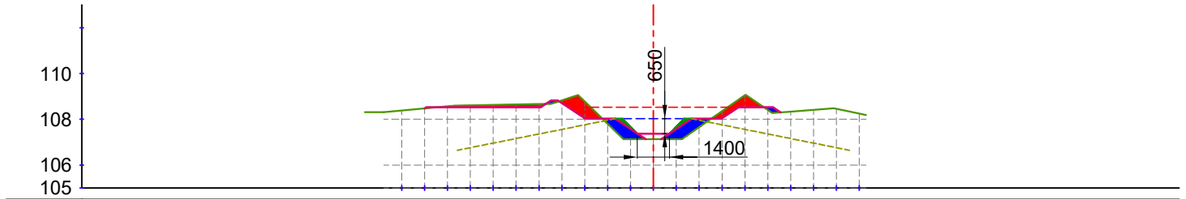
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 51 of 59

X SECTION OF BASDIHA DY.



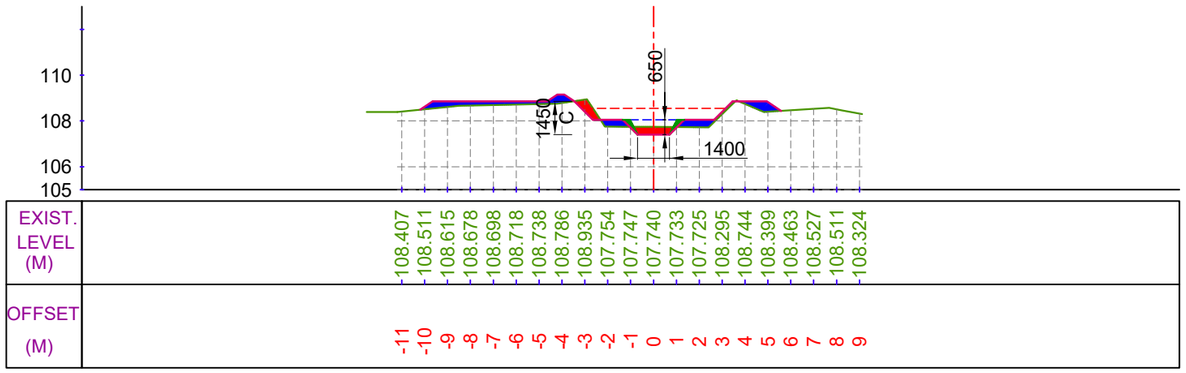
CUTTING AREA (SQ.M) = 0.997
FILLING AREA (SQ.M) = 2.419

CH. (KM):- 20+500
DESIGNED BED LEVEL = 107.434 M



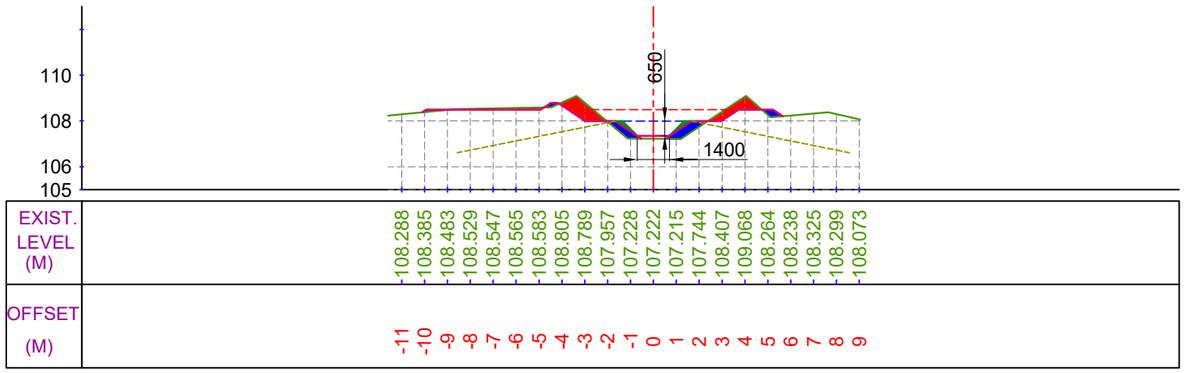
CUTTING AREA (SQ.M) = 1.965
FILLING AREA (SQ.M) = 1.626

CH. (KM):- 20+700
DESIGNED BED LEVEL = 107.373 M



CUTTING AREA (SQ.M) = 0.941
FILLING AREA (SQ.M) = 2.535

CH. (KM):- 20+600
DESIGNED BED LEVEL = 107.403 M



CUTTING AREA (SQ.M) = 2.003
FILLING AREA (SQ.M) = 1.212

CH. (KM):- 20+800
DESIGNED BED LEVEL = 107.343 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

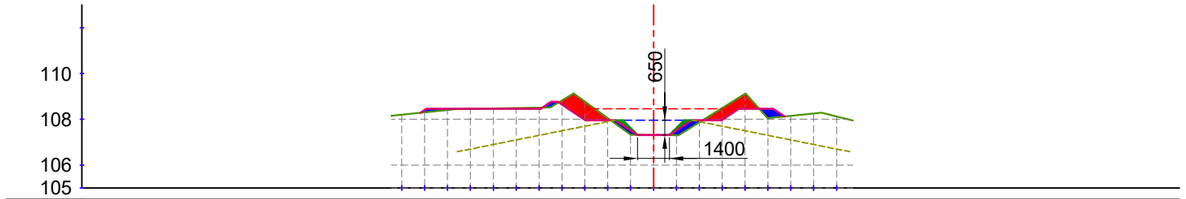
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 52 of 59

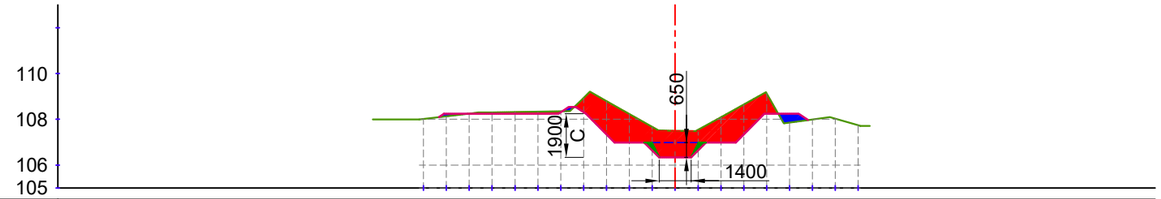
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	108.198	108.302	108.405	108.454	108.471	108.487	108.504	108.822	108.775	108.050	107.327	107.314	107.303	107.868	108.492	109.117	108.048	108.149	108.250	108.124	
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	

CUTTING AREA (SQ.M) = 2.128
FILLING AREA (SQ.M) = 0.957

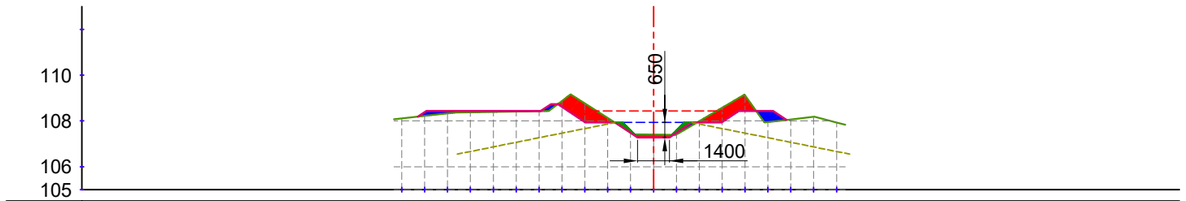
CH. (KM):- 20+900
DESIGNED BED LEVEL = 107.313 M



EXIST. LEVEL (M)	108.015	108.131	108.247	108.302	108.317	108.331	108.346	108.938	108.791	108.228	107.665	107.499	107.538	108.093	108.648	109.129	107.854	107.991	108.026	107.737	
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	

CUTTING AREA (SQ.M) = 9.657
FILLING AREA (SQ.M) = 0.489

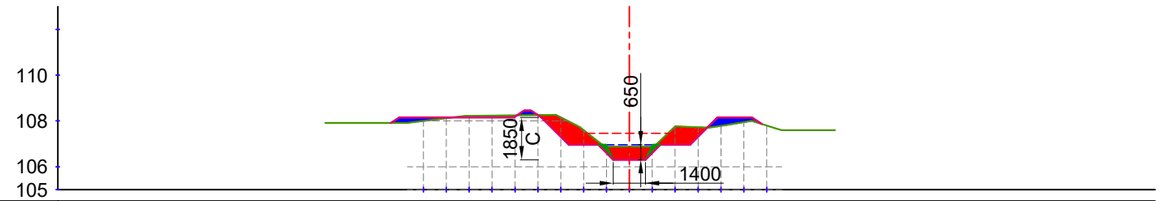
CH. (KM):- 21+100
DESIGNED BED LEVEL = 106.338 M



EXIST. LEVEL (M)	108.110	108.219	108.328	108.378	108.394	108.410	108.425	108.879	108.765	108.128	107.492	107.406	107.406	107.995	108.584	109.118	107.951	108.069	108.186	107.932	
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	

CUTTING AREA (SQ.M) = 2.611
FILLING AREA (SQ.M) = 0.926

CH. (KM):- 21+000
DESIGNED BED LEVEL = 107.282 M



EXIST. LEVEL (M)	108.000	108.119	108.221	108.234	108.248	108.261	108.161	107.604	106.880	106.883	106.886	107.760	107.726	107.785	107.944	107.799					
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					

CUTTING AREA (SQ.M) = 3.897
FILLING AREA (SQ.M) = 1.041

CH. (KM):- 21+200
DESIGNED BED LEVEL = 106.308 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

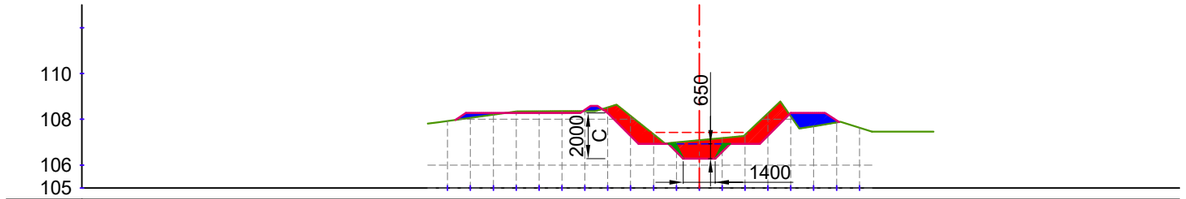
H.G. LINE

Prepared by :-

WAPCOS LTD.

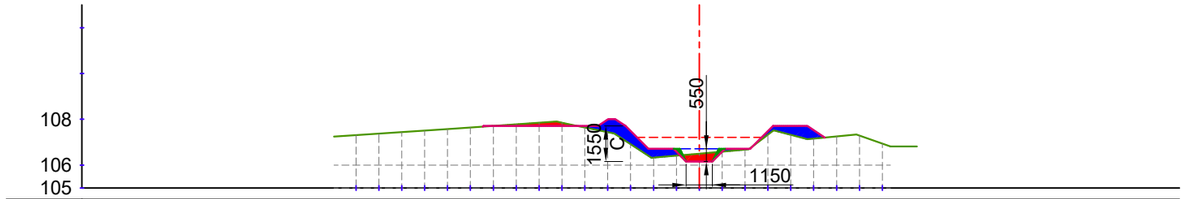
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 53 of 59

X SECTION OF BASDIHA DY.



| | | |

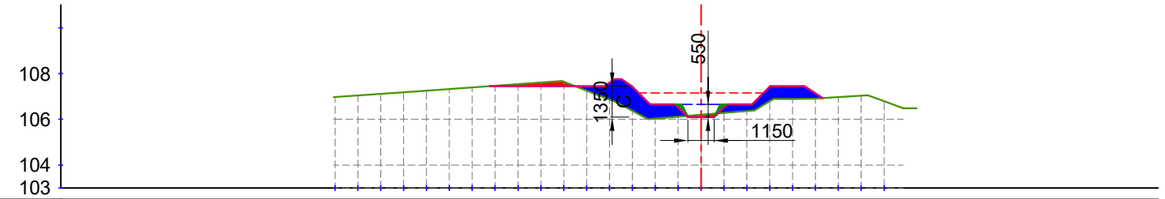
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	107.307	107.374	107.441	107.509	107.576	107.644	107.711	107.779	107.846	107.848	107.641	107.434	106.908	106.321	106.409	106.496	106.584	106.671	107.331	107.319	107.156	107.250	107.284	106.933
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.813
FILLING AREA (SQ.M) = 2.594

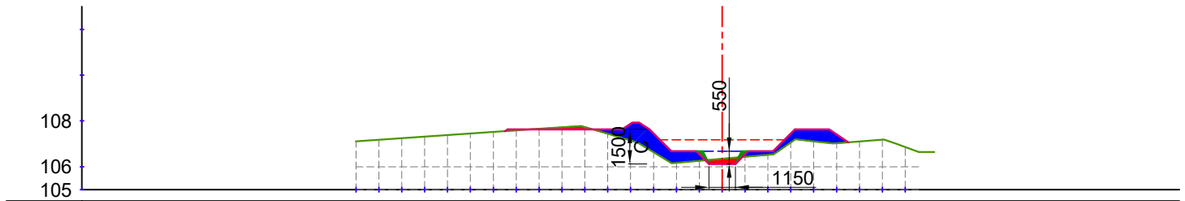
CH. (KM):- 21+700
DESIGNED BED LEVEL = 106.156 M



EXIST. LEVEL (M)	106.968	107.039	107.109	107.180	107.251	107.321	107.392	107.462	107.533	107.603	107.638	107.251	106.864	106.371	106.026	106.110	106.195	106.279	106.364	106.788	106.894	106.901	106.968	107.034	106.790
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.534
FILLING AREA (SQ.M) = 4.788

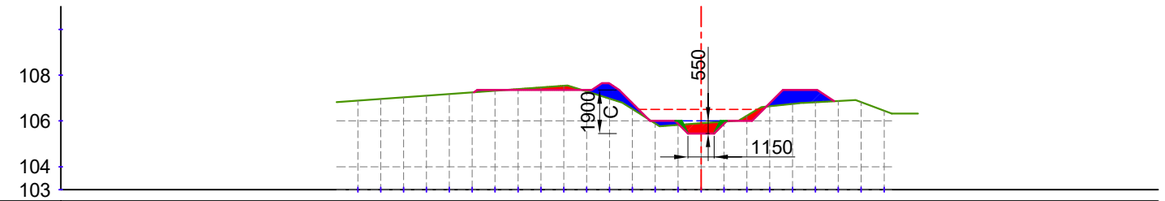
CH. (KM):- 21+900
DESIGNED BED LEVEL = 106.096 M



EXIST. LEVEL (M)	107.104	107.173	107.242	107.311	107.380	107.449	107.518	107.587	107.656	107.725	107.736	107.442	107.147	106.637	106.174	106.259	106.345	106.431	106.517	107.060	107.112	107.027	107.106	107.186	106.860
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.498
FILLING AREA (SQ.M) = 3.990

CH. (KM):- 21+800
DESIGNED BED LEVEL = 106.126 M



EXIST. LEVEL (M)	106.890	106.962	107.034	107.107	107.179	107.252	107.324	107.397	107.469	107.542	107.290	106.977	106.522	105.891	105.829	105.901	105.972	106.227	106.646	106.748	106.820	106.875	106.826	106.449
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 1.185
FILLING AREA (SQ.M) = 2.514

CH. (KM):- 22+000
DESIGNED BED LEVEL = 105.455 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

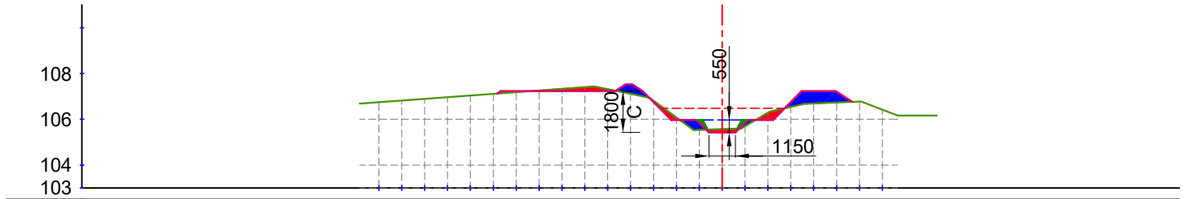
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 55 of 59

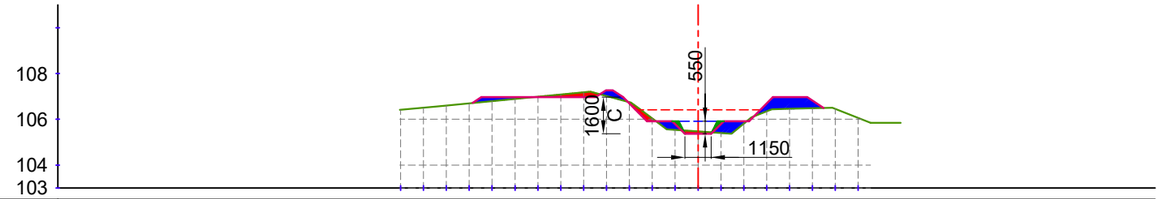
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	106.745	106.819	106.892	106.966	107.040	107.113	107.187	107.261	107.335	107.408	107.317	107.109	106.814	106.081	105.539	105.570	105.696	106.289	106.539	106.688	106.733	106.777	106.420
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 1.048
FILLING AREA (SQ.M) = 1.981

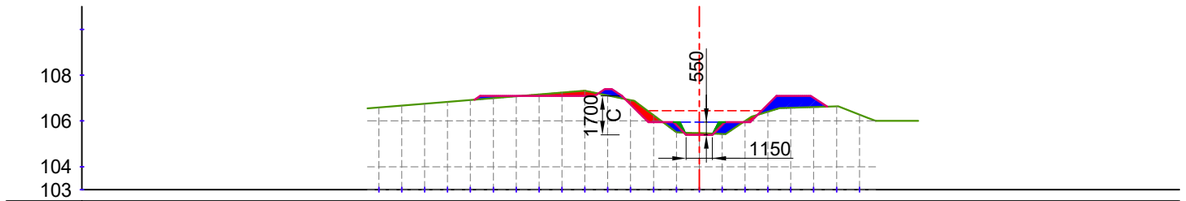
CH. (KM):- 22+100
DESIGNED BED LEVEL = 105.425 M



EXIST. LEVEL (M)	106.411	106.507	106.604	106.700	106.796	106.892	106.989	107.085	107.181	107.019	106.749	106.034	105.540	105.469	105.398	105.812	106.352	106.459	106.482	106.453	106.056
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 0.712
FILLING AREA (SQ.M) = 2.378

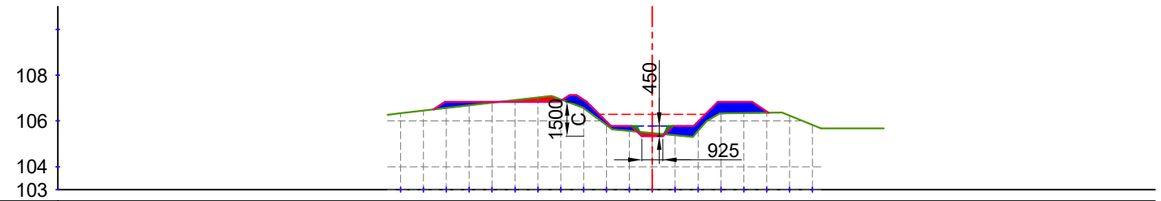
CH. (KM):- 22+300
DESIGNED BED LEVEL = 105.364 M



EXIST. LEVEL (M)	106.587	106.669	106.751	106.832	106.914	106.996	107.078	107.160	107.242	107.324	107.117	106.910	106.253	105.503	105.467	105.431	105.994	106.402	106.572	106.605	106.639	106.280
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 1.021
FILLING AREA (SQ.M) = 2.086

CH. (KM):- 22+200
DESIGNED BED LEVEL = 105.395 M



EXIST. LEVEL (M)	106.335	106.450	106.566	106.681	106.796	106.912	107.027	106.943	106.560	105.818	105.561	105.469	105.376	105.561	106.326	106.341	106.355	106.233	105.829
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 0.507
FILLING AREA (SQ.M) = 3.035

CH. (KM):- 22+400
DESIGNED BED LEVEL = 105.334 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

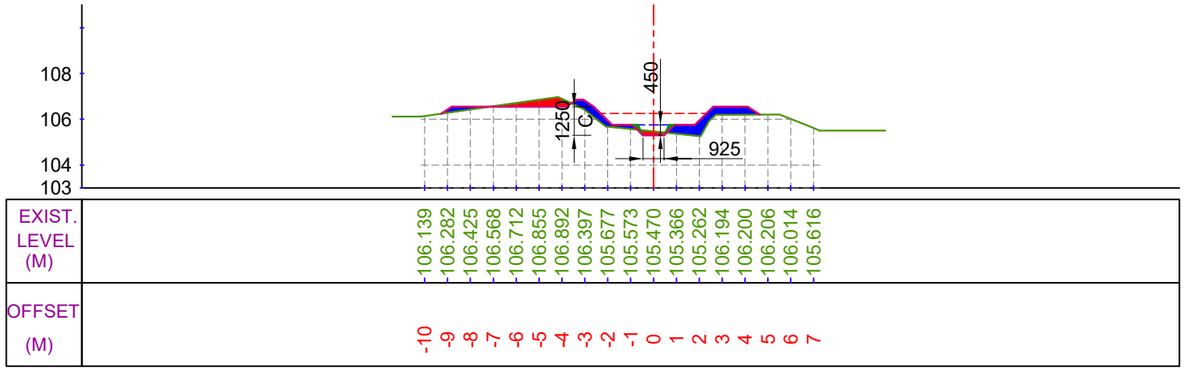
H.G. LINE

Prepared by :-

WAPCOS LTD.

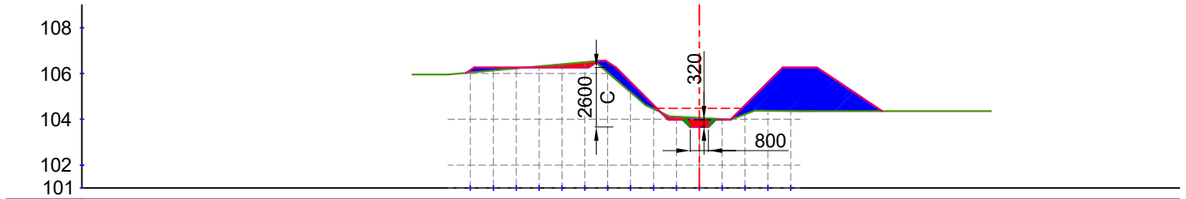
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 56 of 59

X SECTION OF BASDIHA DY.



| | | |

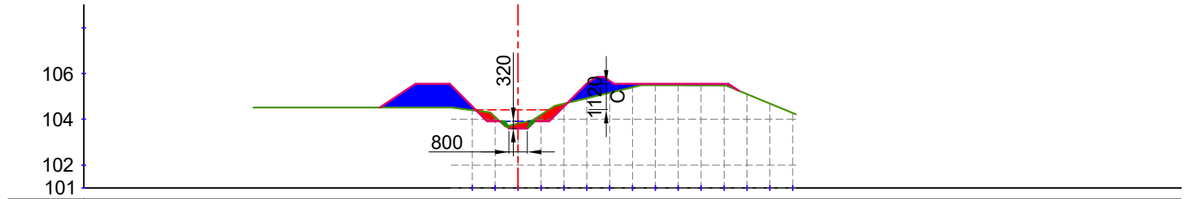
X SECTION OF BASDIHA DY.



EXIST. LEVEL (M)	106.044	106.134	106.223	106.313	106.403	106.492	106.041	105.185	104.457	104.113	104.061	104.009	104.218	104.373	104.360
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4

CUTTING AREA (SQ.M) = 0.951
FILLING AREA (SQ.M) = 8.737

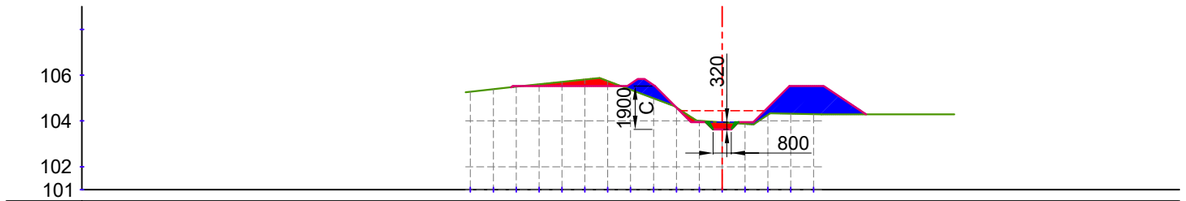
CH. (KM):- 22+900
DESIGNED BED LEVEL = 103.659 M



EXIST. LEVEL (M)	104.399	104.097	103.815	104.191	104.677	104.918	105.158	105.398	105.490	105.486	105.482	105.477	105.100	104.688	104.277
OFFSET (M)	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

CUTTING AREA (SQ.M) = 0.858
FILLING AREA (SQ.M) = 4.552

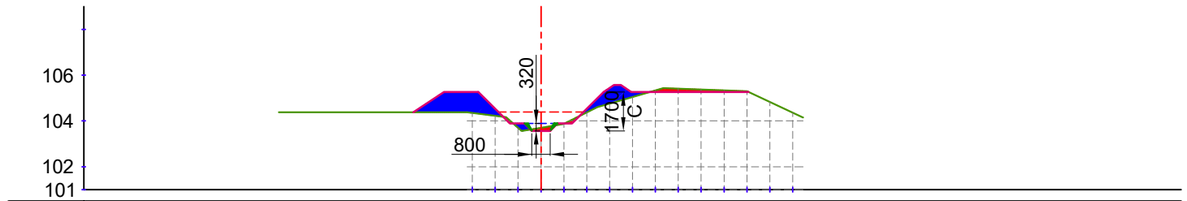
CH. (KM):- 23+100
DESIGNED BED LEVEL = 103.598 M



EXIST. LEVEL (M)	105.281	105.388	105.494	105.601	105.707	105.813	105.748	105.370	104.991	104.587	104.009	103.940	103.870	104.266	104.319	104.300
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4

CUTTING AREA (SQ.M) = 1.189
FILLING AREA (SQ.M) = 4.762

CH. (KM):- 23+000
DESIGNED BED LEVEL = 103.628 M



EXIST. LEVEL (M)	104.351	104.225	103.692	103.704	103.880	104.377	104.762	105.048	105.335	105.411	105.374	105.337	105.300	104.833	104.364
OFFSET (M)	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 0.628
FILLING AREA (SQ.M) = 3.703

CH. (KM):- 23+200
DESIGNED BED LEVEL = 103.568 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

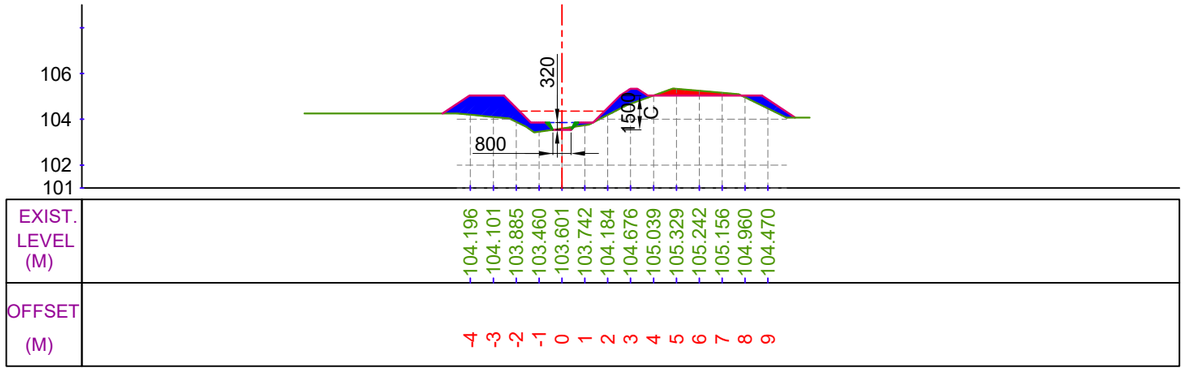
H.G. LINE

Prepared by :-

WAPCOS LTD.

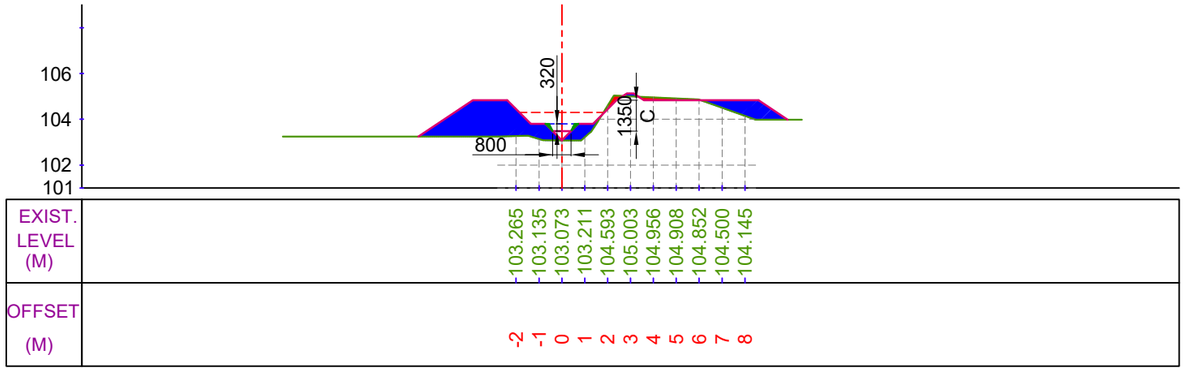
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 58 of 59

X SECTION OF BASDIHA DY.



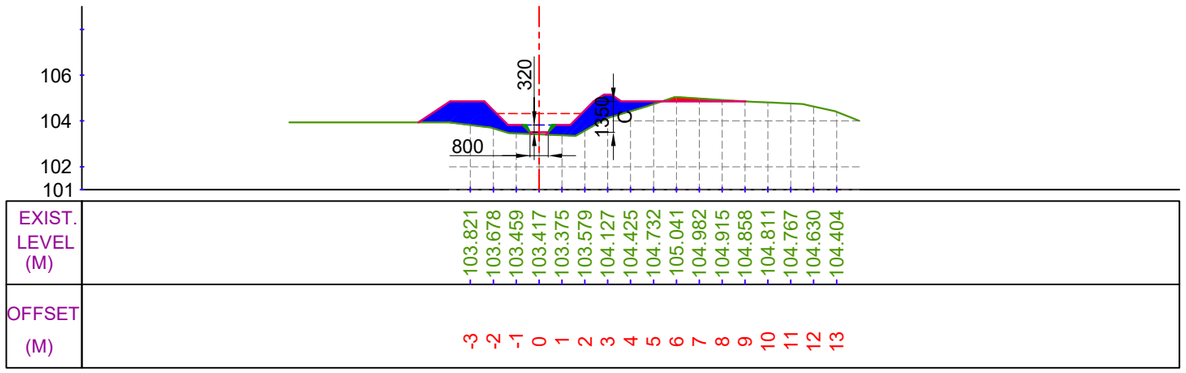
CUTTING AREA (SQ.M) = 0.708
FILLING AREA (SQ.M) = 4.506

CH. (KM):- 23+300
DESIGNED BED LEVEL = 103.537 M



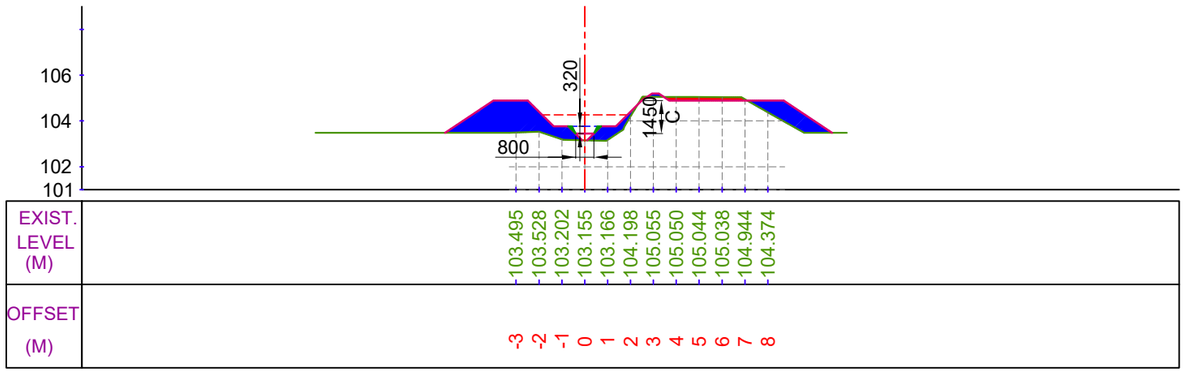
CUTTING AREA (SQ.M) = 0.384
FILLING AREA (SQ.M) = 8.392

CH. (KM):- 23+500
DESIGNED BED LEVEL = 103.477 M



CUTTING AREA (SQ.M) = 0.343
FILLING AREA (SQ.M) = 6.086

CH. (KM):- 23+400
DESIGNED BED LEVEL = 103.507 M



CUTTING AREA (SQ.M) = 0.525
FILLING AREA (SQ.M) = 7.986

CH. (KM):- 23+600
DESIGNED BED LEVEL = 103.446 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

H.G. LINE

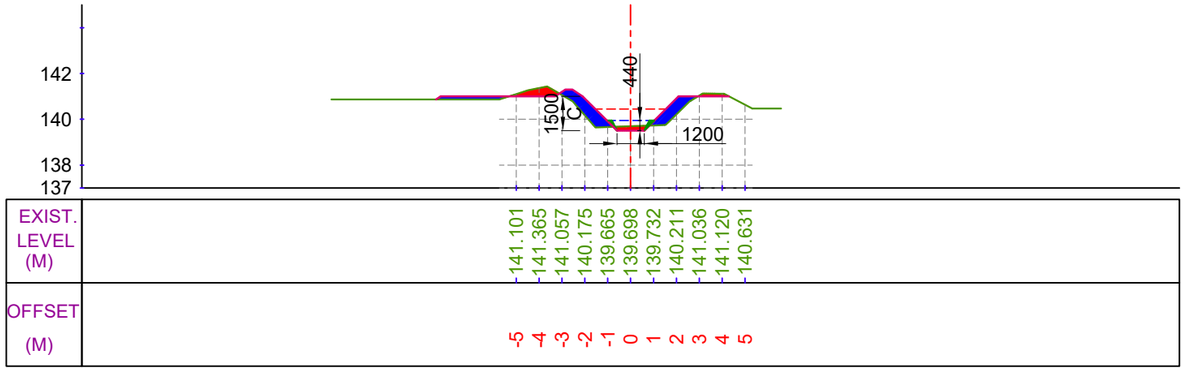
Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SECTION OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13/ XSEC- 59 of 59

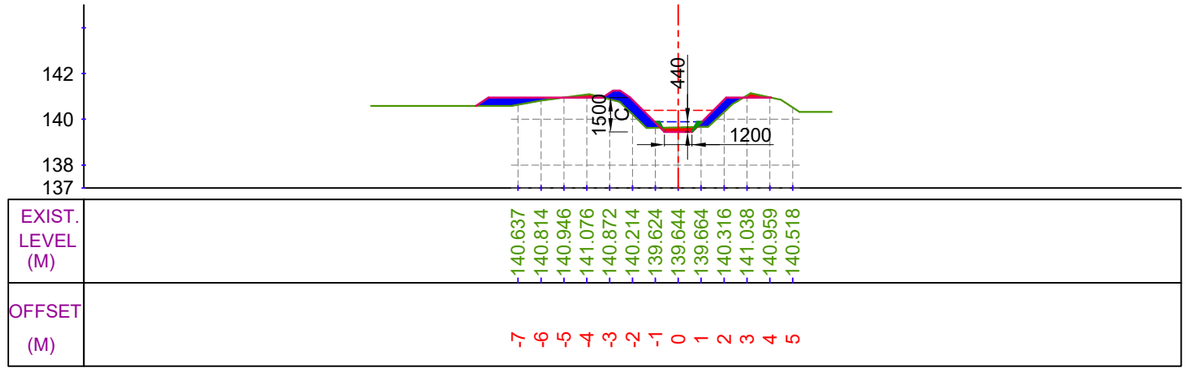
SHANKARPUR MINOR

X SECTION OF SHANKARPUR MR.



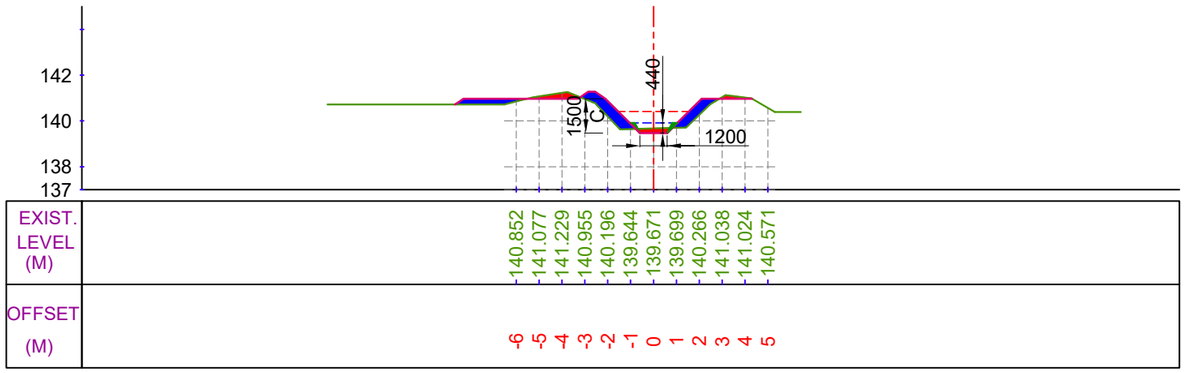
CUTTING AREA (SQ.M) = 0.932
FILLING AREA (SQ.M) = 2.458

CH. (KM):- 0+100
DESIGNED BED LEVEL = 139.502 M



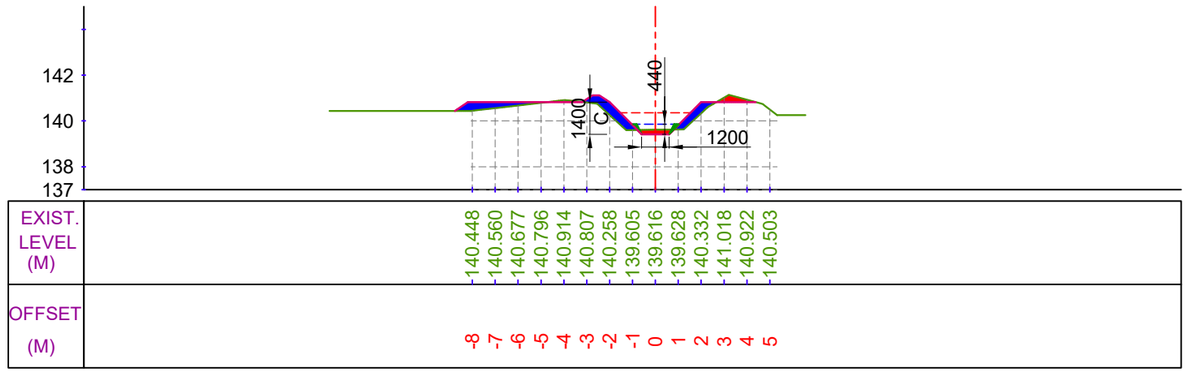
CUTTING AREA (SQ.M) = 0.491
FILLING AREA (SQ.M) = 2.673

CH. (KM):- 0+300
DESIGNED BED LEVEL = 139.447 M



CUTTING AREA (SQ.M) = 0.742
FILLING AREA (SQ.M) = 2.559

CH. (KM):- 0+200
DESIGNED BED LEVEL = 139.474 M



CUTTING AREA (SQ.M) = 0.614
FILLING AREA (SQ.M) = 2.282

CH. (KM):- 0+400
DESIGNED BED LEVEL = 139.419 M

LEGEND

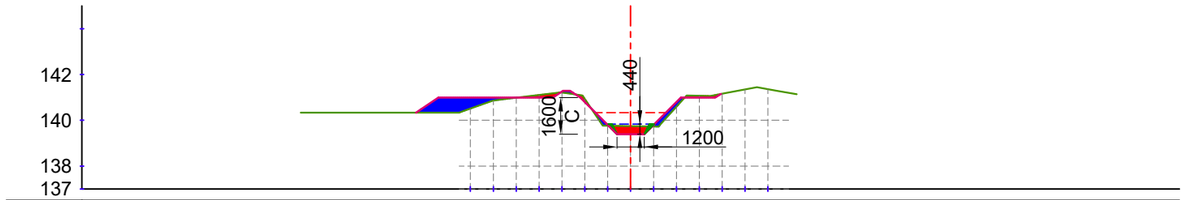
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

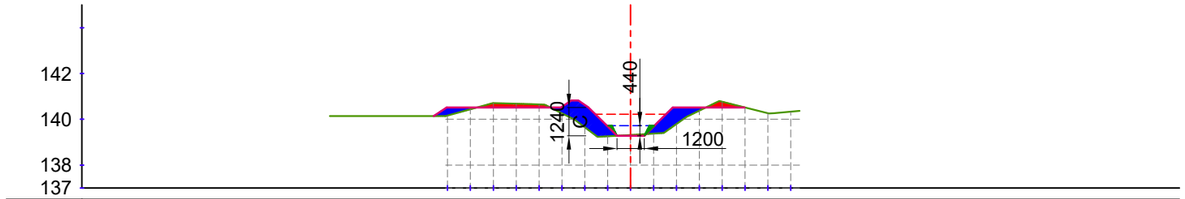
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 1 of 13

X SECTION OF SHANKARPUR MR.



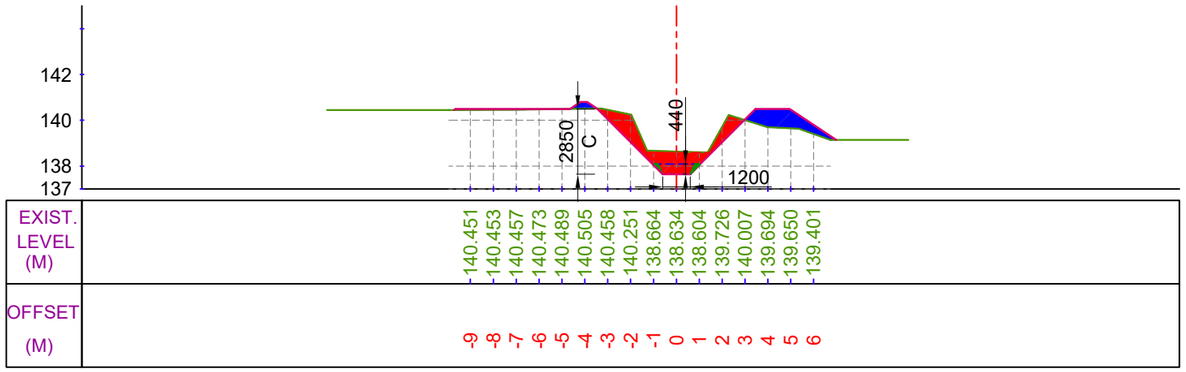
| | | |

X SECTION OF SHANKARPUR MR.



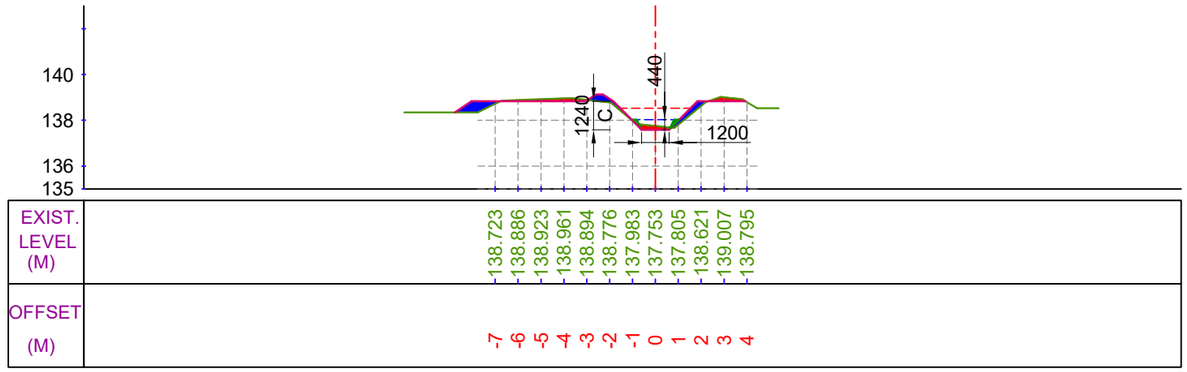
| | | |

X SECTION OF SHANKARPUR MR.



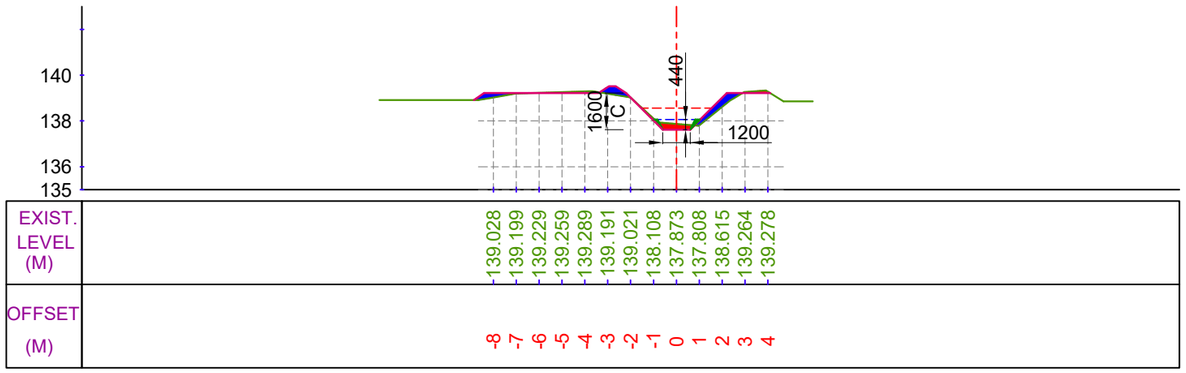
CUTTING AREA (SQ.M) = 4.297
FILLING AREA (SQ.M) = 2.537

CH. (KM):- 1+300
DESIGNED BED LEVEL = 137.645 M



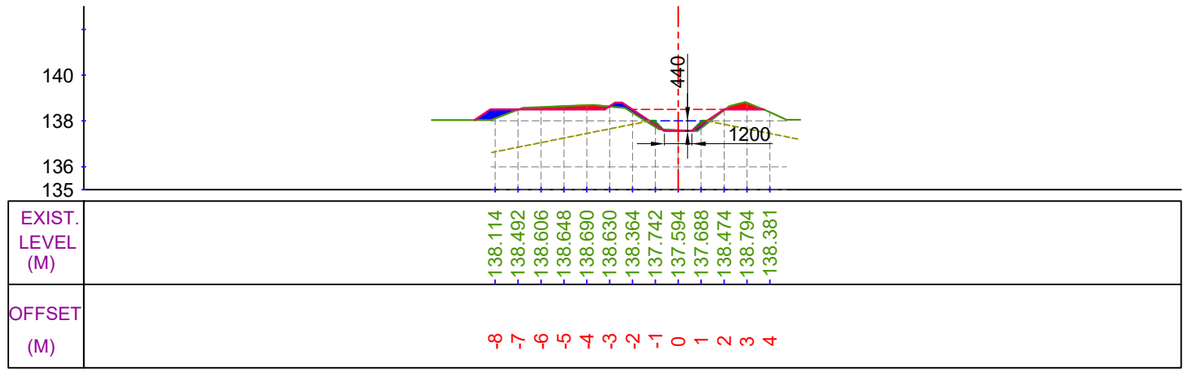
CUTTING AREA (SQ.M) = 0.744
FILLING AREA (SQ.M) = 1.175

CH. (KM):- 1+500
DESIGNED BED LEVEL = 137.589 M



CUTTING AREA (SQ.M) = 0.609
FILLING AREA (SQ.M) = 1.129

CH. (KM):- 1+400
DESIGNED BED LEVEL = 137.617 M



CUTTING AREA (SQ.M) = 0.871
FILLING AREA (SQ.M) = 0.858

CH. (KM):- 1+600
DESIGNED BED LEVEL = 137.562 M

LEGEND

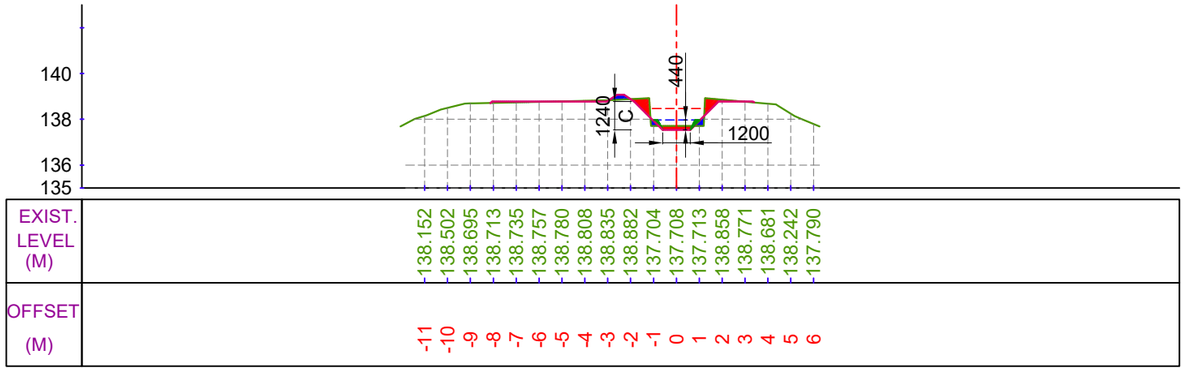
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 4 of 13

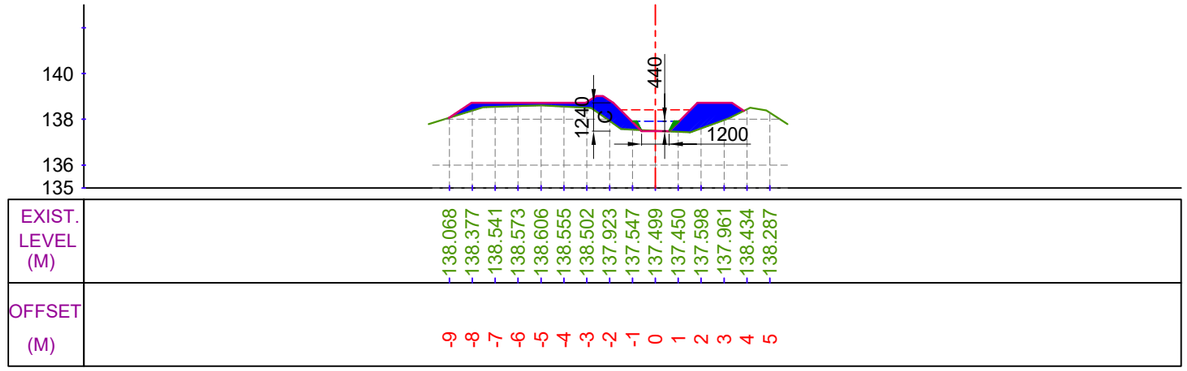
X SECTION OF SHANKARPUR MR.



EXIST. LEVEL (M)	138.152	138.502	138.695	138.713	138.735	138.757	138.780	138.808	138.835	138.882	137.704	137.708	137.713	138.858	138.771	138.681	138.242	137.790
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.939
FILLING AREA (SQ.M) = 0.381

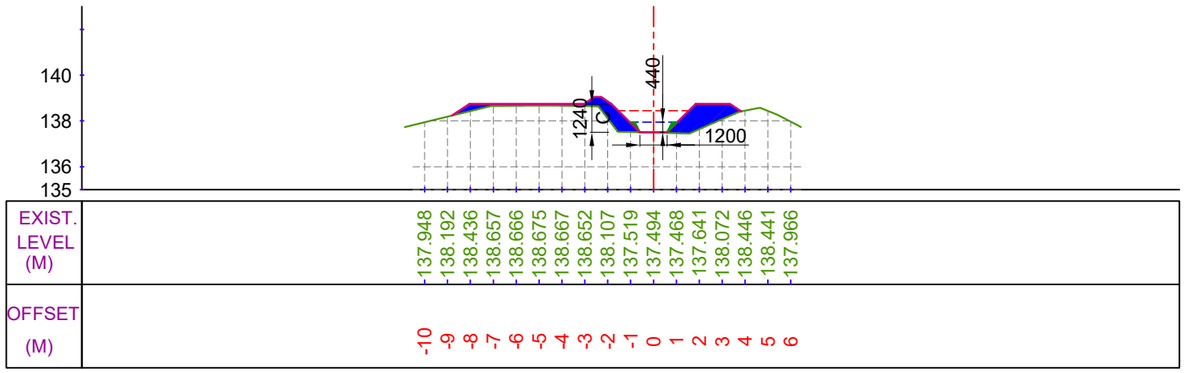
CH. (KM):- 1+700
DESIGNED BED LEVEL = 137.534 M



EXIST. LEVEL (M)	138.068	138.377	138.541	138.573	138.606	138.555	138.502	137.923	137.547	137.499	137.450	137.598	137.961	138.434	138.287			
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5			

CUTTING AREA (SQ.M) = 0.026
FILLING AREA (SQ.M) = 4.790

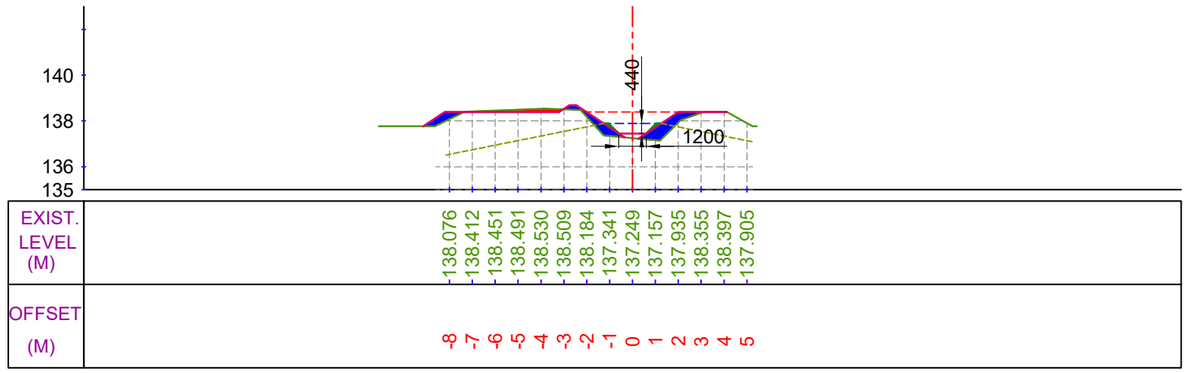
CH. (KM):- 1+900
DESIGNED BED LEVEL = 137.478 M



EXIST. LEVEL (M)	137.948	138.192	138.436	138.657	138.666	138.675	138.667	138.652	138.107	137.519	137.494	137.468	137.641	138.072	138.446	138.441	137.966	
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.115

CH. (KM):- 1+800
DESIGNED BED LEVEL = 137.506 M



EXIST. LEVEL (M)	138.076	138.412	138.451	138.491	138.530	138.509	138.184	137.341	137.249	137.157	137.935	138.355	138.397	137.905				
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5				

CUTTING AREA (SQ.M) = 0.375
FILLING AREA (SQ.M) = 2.097

CH. (KM):- 2+000
DESIGNED BED LEVEL = 137.450 M

LEGEND

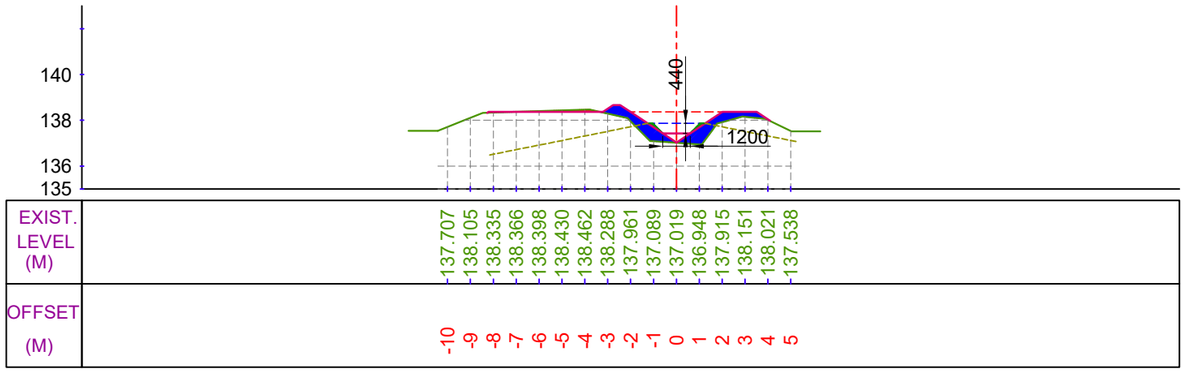
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

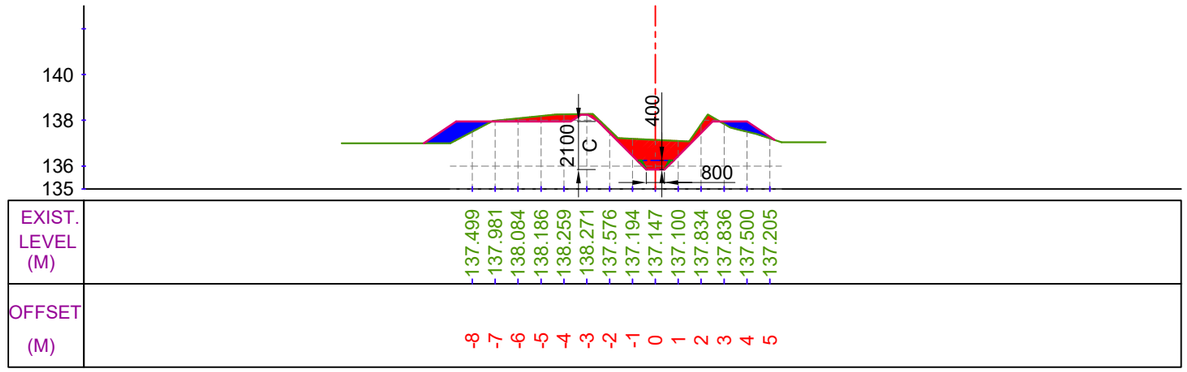
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 5 of 13

X SECTION OF SHANKARPUR MR.



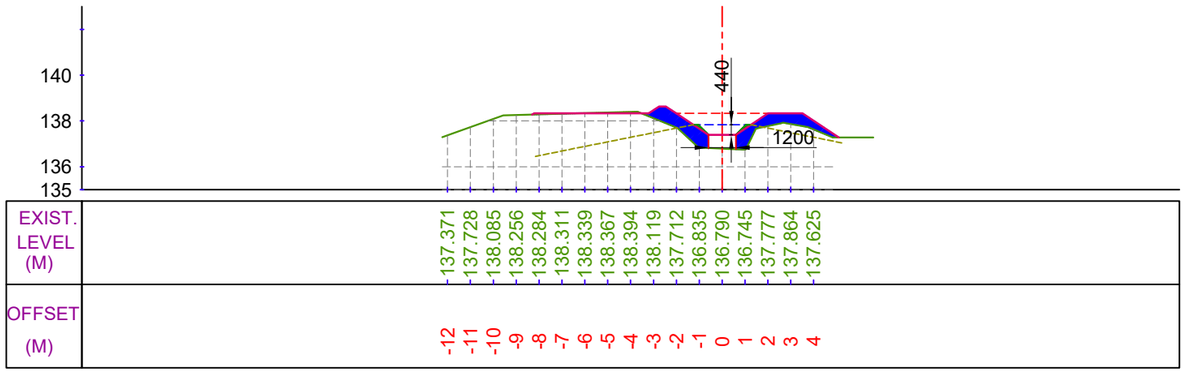
CUTTING AREA (SQ.M) = 0.200
FILLING AREA (SQ.M) = 2.746

CH. (KM):- 2+100
DESIGNED BED LEVEL = 137.423 M



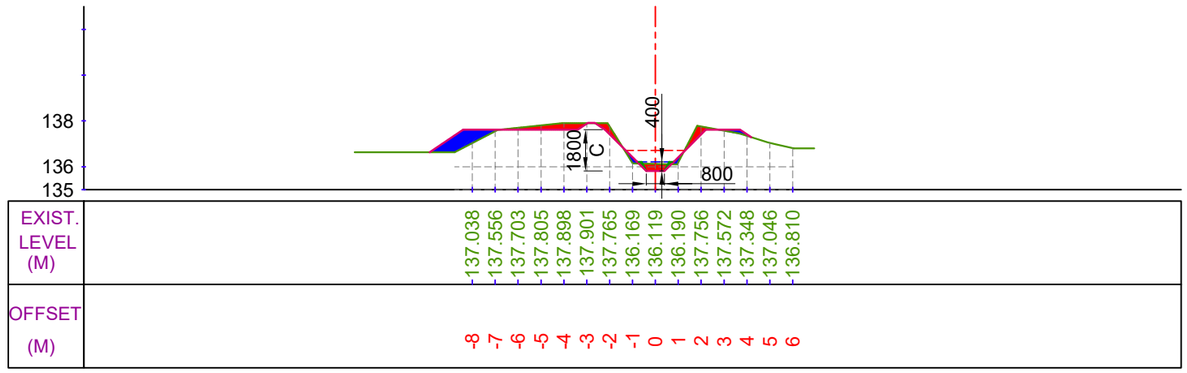
CUTTING AREA (SQ.M) = 3.952
FILLING AREA (SQ.M) = 1.856

CH. (KM):- 2+300
DESIGNED BED LEVEL = 135.843 M



CUTTING AREA (SQ.M) = 0.088
FILLING AREA (SQ.M) = 3.821

CH. (KM):- 2+200
DESIGNED BED LEVEL = 137.395 M



CUTTING AREA (SQ.M) = 1.485
FILLING AREA (SQ.M) = 1.565

CH. (KM):- 2+400
DESIGNED BED LEVEL = 135.815 M

LEGEND

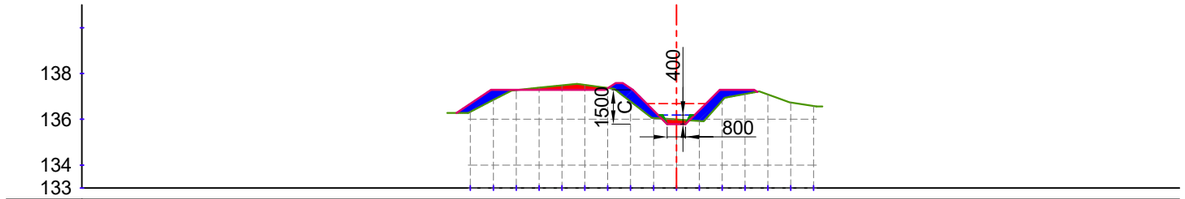
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 6 of 13

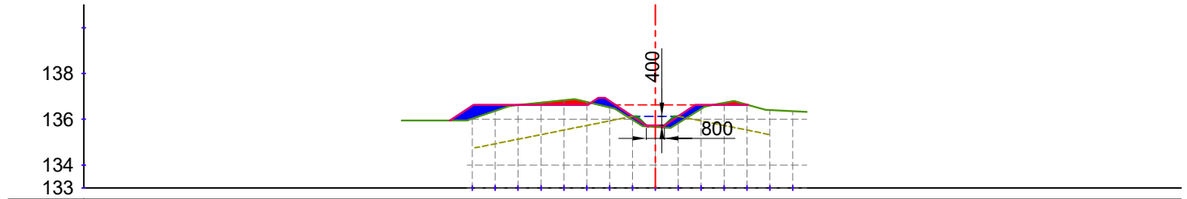
X SECTION OF SHANKARPUR MR.



EXIST. LEVEL (M)	136.333	136.846	137.277	137.377	137.476	137.496	137.364	136.771	136.055	135.991	135.928	136.815	137.099	137.079	136.734	136.581
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.734
FILLING AREA (SQ.M) = 2.718

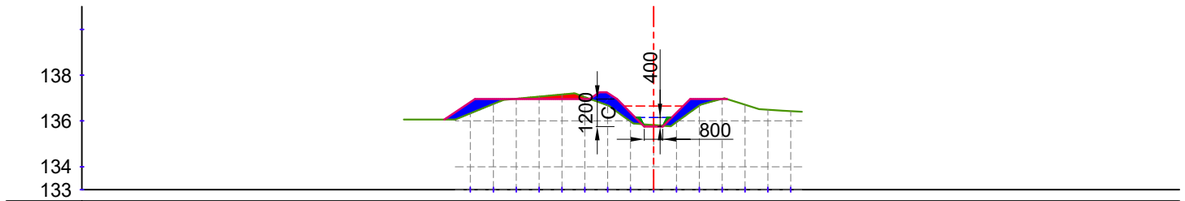
CH. (KM):- 2+500
DESIGNED BED LEVEL = 135.786 M



EXIST. LEVEL (M)	136.025	136.364	136.620	136.727	136.833	136.755	136.518	135.975	135.660	135.838	136.461	136.718	136.642	136.400	136.353
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.548
FILLING AREA (SQ.M) = 1.802

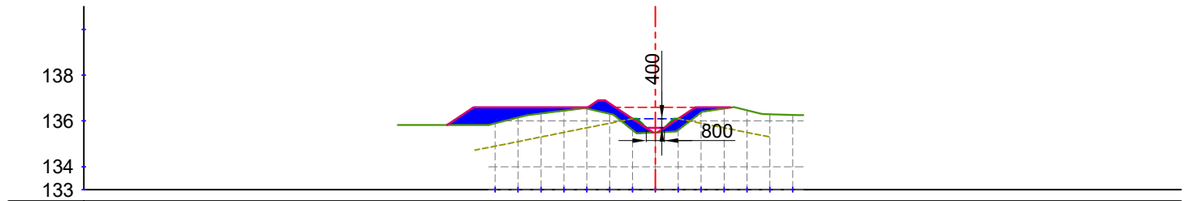
CH. (KM):- 2+700
DESIGNED BED LEVEL = 135.729 M



EXIST. LEVEL (M)	136.334	136.738	136.976	137.068	137.160	137.047	136.681	135.973	135.823	135.944	136.671	136.971	136.712	136.494	136.430
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.499
FILLING AREA (SQ.M) = 2.435

CH. (KM):- 2+600
DESIGNED BED LEVEL = 135.757 M



EXIST. LEVEL (M)	135.901	136.154	136.325	136.447	136.544	136.312	135.602	135.498	135.607	136.362	136.543	136.470	136.290	136.263
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.305

CH. (KM):- 2+800
DESIGNED BED LEVEL = 135.700 M

LEGEND

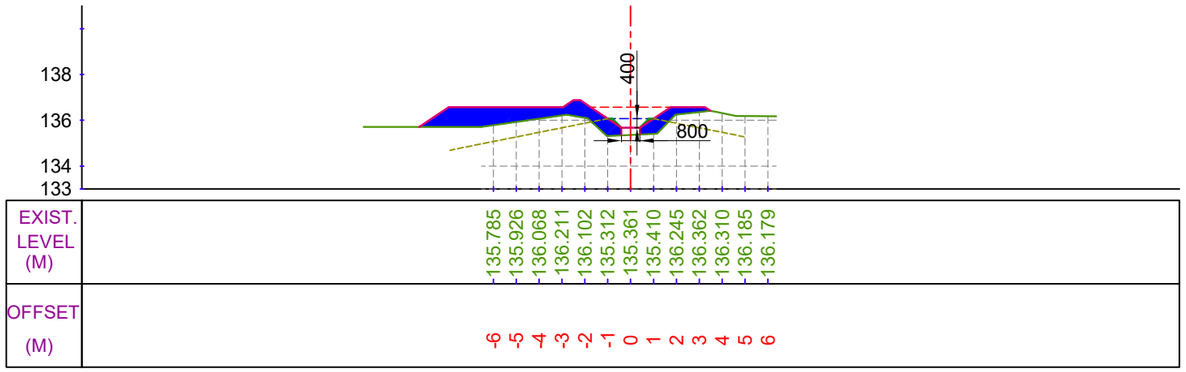
	CUT AREA		F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

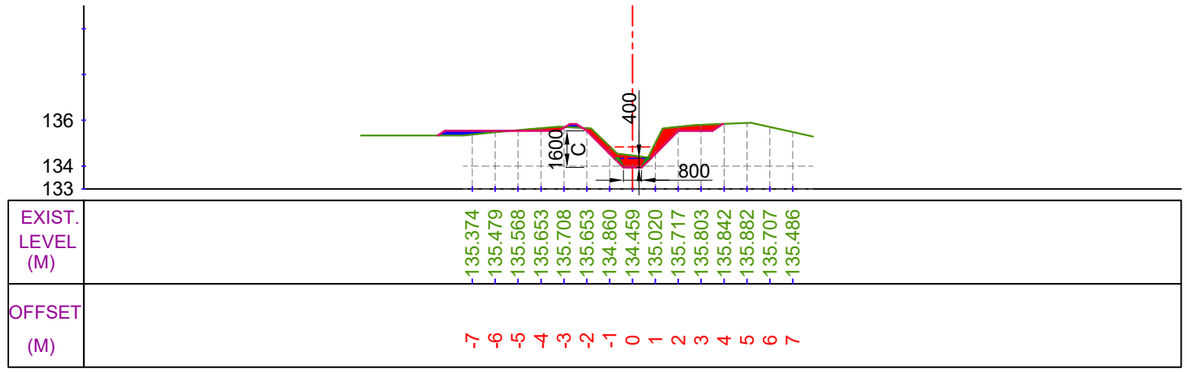
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 7 of 13

X SECTION OF SHANKARPUR MR.



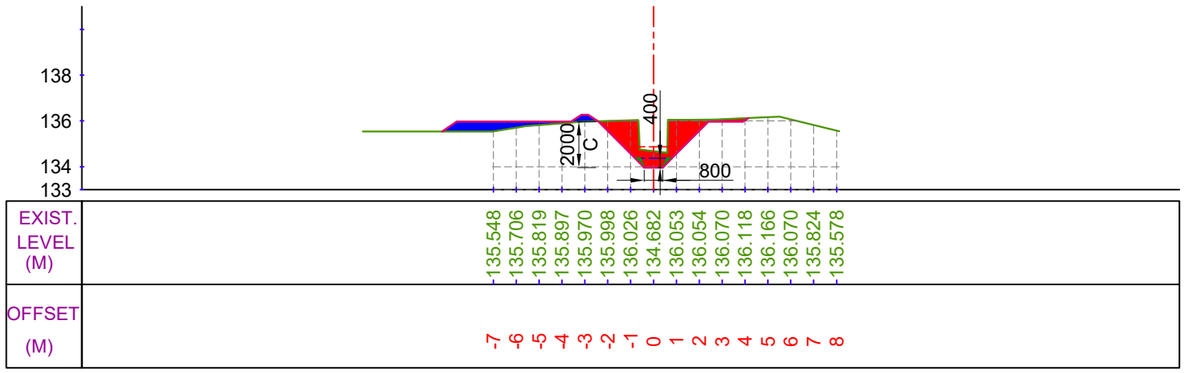
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.757

CH. (KM):- 2+900
DESIGNED BED LEVEL = 135.672 M



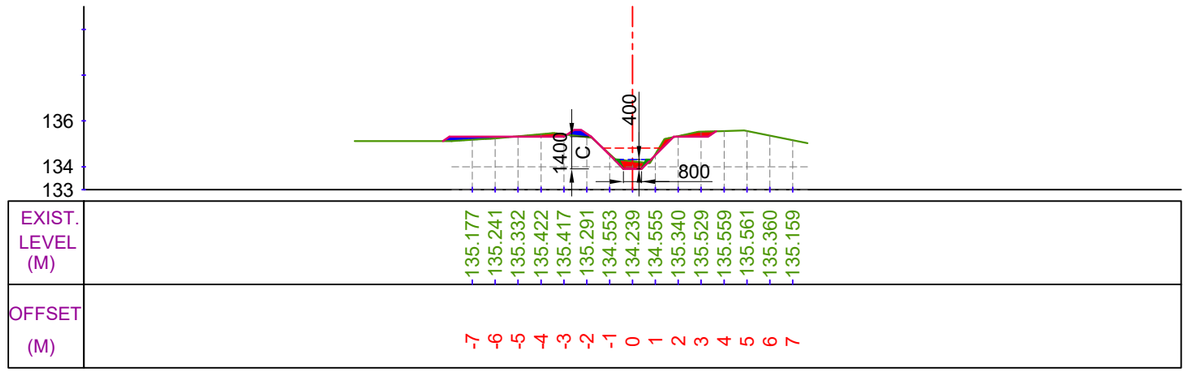
CUTTING AREA (SQ.M) = 2.233
FILLING AREA (SQ.M) = 0.484

CH. (KM):- 3+100
DESIGNED BED LEVEL = 133.939 M



CUTTING AREA (SQ.M) = 4.339
FILLING AREA (SQ.M) = 1.706

CH. (KM):- 3+000
DESIGNED BED LEVEL = 133.967 M



CUTTING AREA (SQ.M) = 0.931
FILLING AREA (SQ.M) = 0.532

CH. (KM):- 3+200
DESIGNED BED LEVEL = 133.910 M

LEGEND

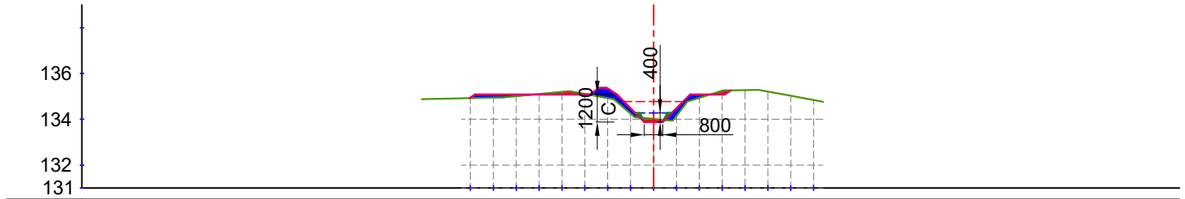
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 8 of 13

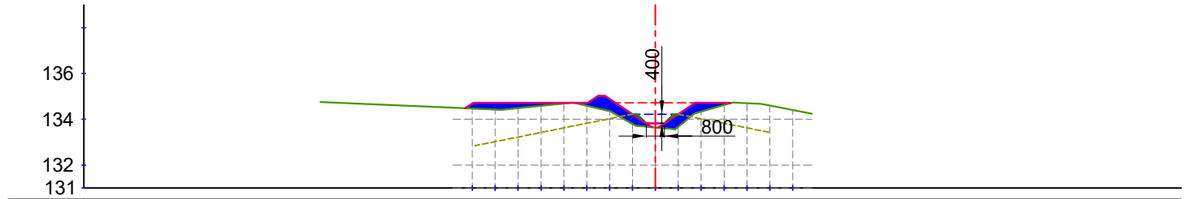
X SECTION OF SHANKARPUR MR.



EXIST. LEVEL (M)	134.923	134.943	135.004	135.099	135.194	135.107	134.928	134.252	134.019	134.148	134.939	135.244	135.274	135.206	135.024	134.842		
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7		

CUTTING AREA (SQ.M) = 0.375
FILLING AREA (SQ.M) = 1.271

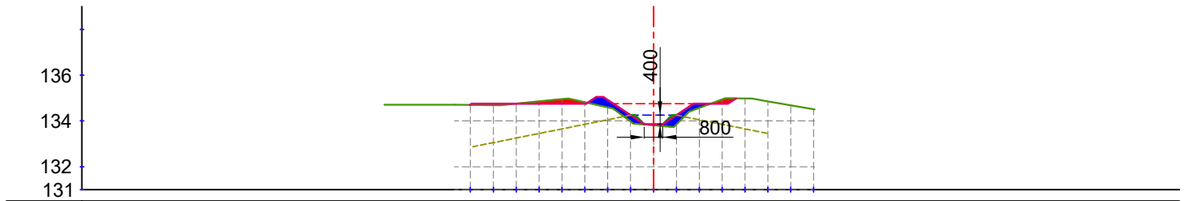
CH. (KM):- 3+300
DESIGNED BED LEVEL = 133.881 M



EXIST. LEVEL (M)	134.465	134.421	134.485	134.588	134.692	134.594	134.356	133.794	133.641	133.664	134.335	134.620	134.700	134.597	134.405			
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6			

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.090

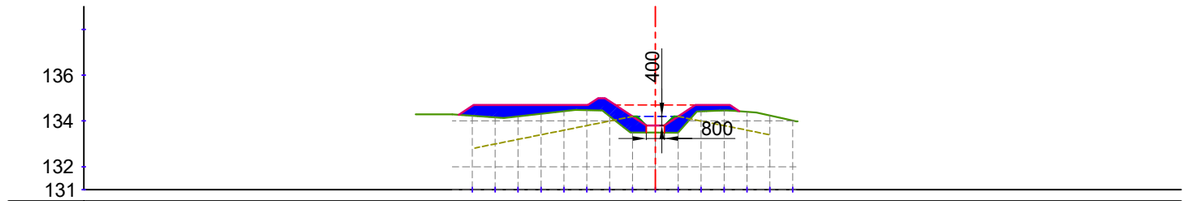
CH. (KM):- 3+500
DESIGNED BED LEVEL = 133.824 M



EXIST. LEVEL (M)	134.701	134.687	134.755	134.855	134.955	134.818	134.595	133.975	133.808	133.846	134.571	134.940	134.981	134.855	134.682	134.510		
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7		

CUTTING AREA (SQ.M) = 0.519
FILLING AREA (SQ.M) = 1.251

CH. (KM):- 3+400
DESIGNED BED LEVEL = 133.853 M



EXIST. LEVEL (M)	134.230	134.160	134.204	134.316	134.429	134.476	134.211	133.496	133.491	133.504	134.422	134.458	134.400	134.239	134.017			
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6			

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.766

CH. (KM):- 3+600
DESIGNED BED LEVEL = 133.796 M

LEGEND

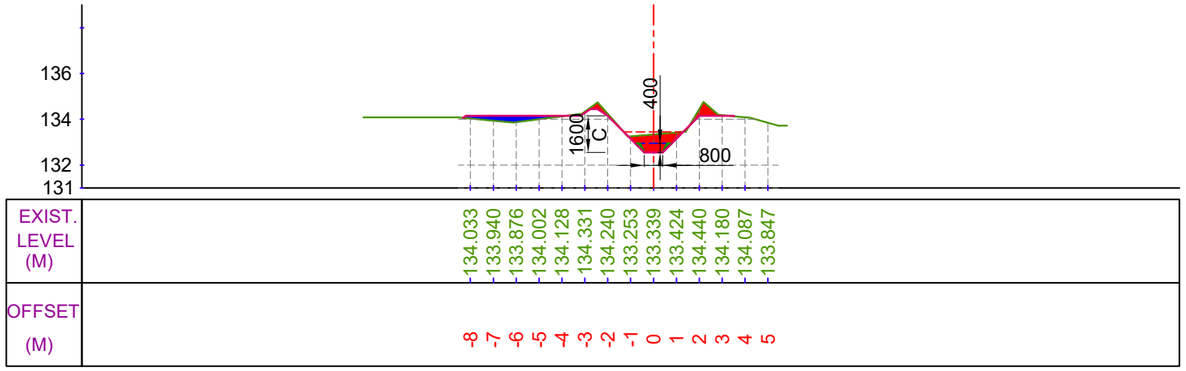
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

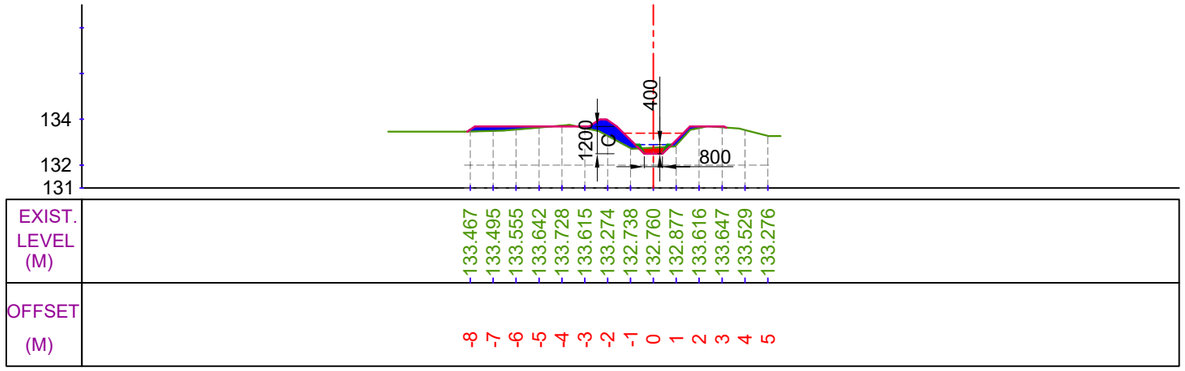
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 9 of 13

X SECTION OF SHANKARPUR MR.



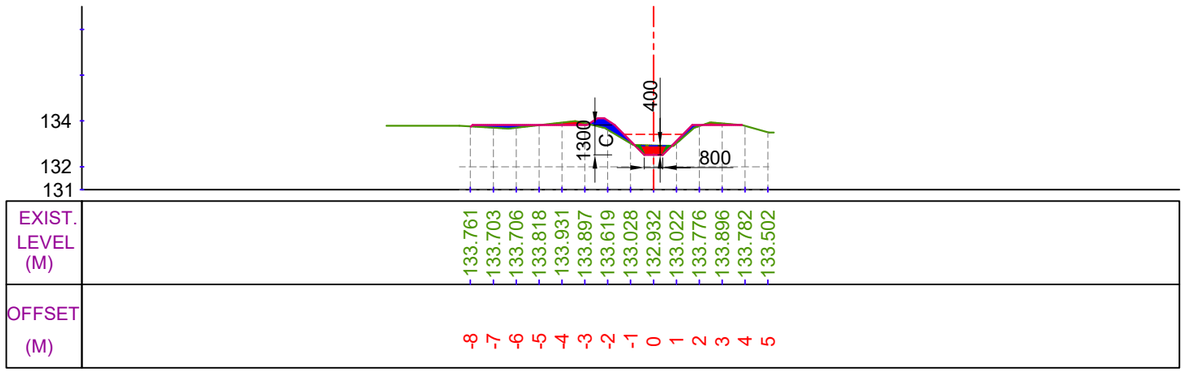
CUTTING AREA (SQ.M) = 1.787
FILLING AREA (SQ.M) = 0.747

CH. (KM):- 3+700
DESIGNED BED LEVEL = 132.547 M



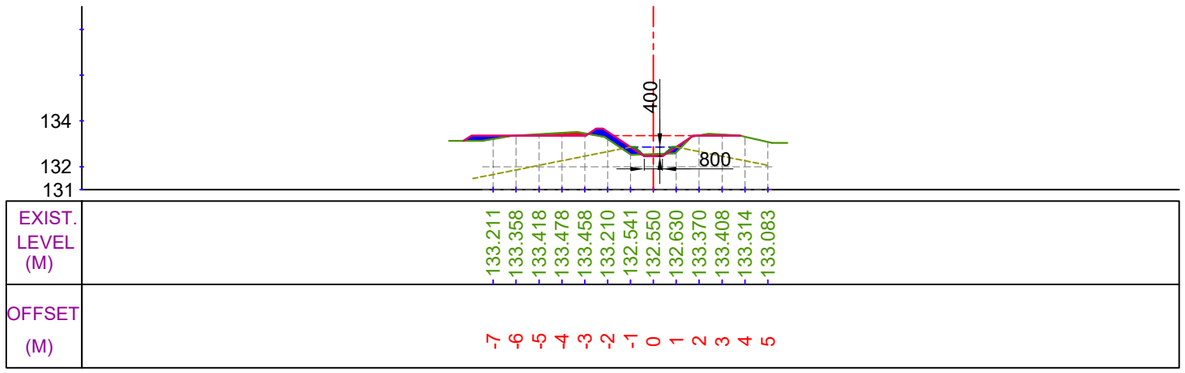
CUTTING AREA (SQ.M) = 0.290
FILLING AREA (SQ.M) = 1.730

CH. (KM):- 3+900
DESIGNED BED LEVEL = 132.490 M



CUTTING AREA (SQ.M) = 0.732
FILLING AREA (SQ.M) = 0.957

CH. (KM):- 3+800
DESIGNED BED LEVEL = 132.519 M



CUTTING AREA (SQ.M) = 0.412
FILLING AREA (SQ.M) = 1.064

CH. (KM):- 4+000
DESIGNED BED LEVEL = 132.461 M

LEGEND

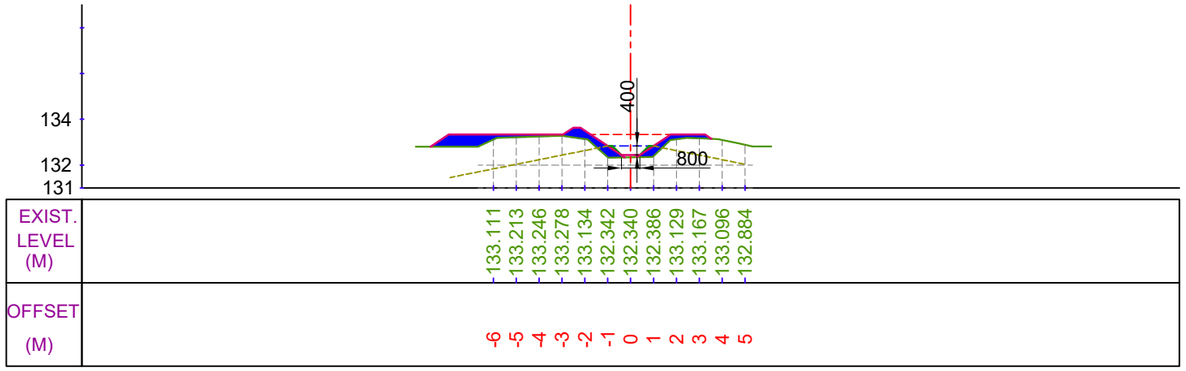
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

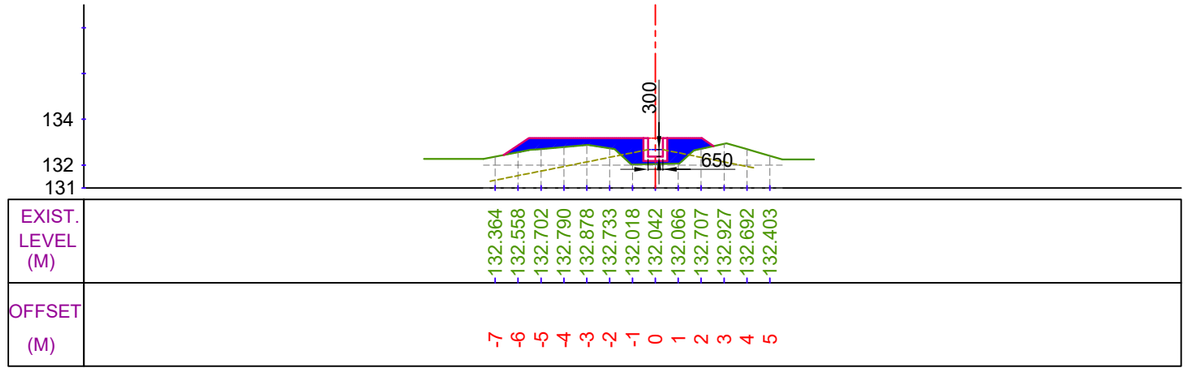
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 10 of 13

X SECTION OF SHANKARPUR MR.



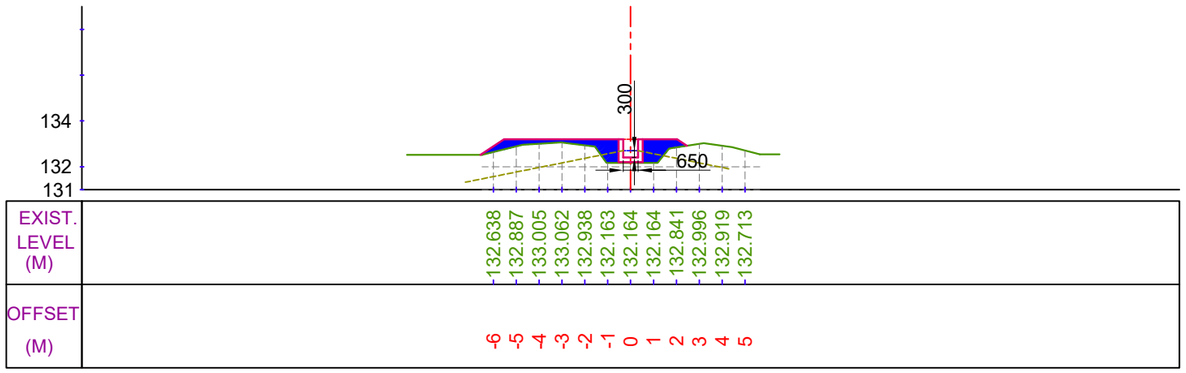
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.084

CH. (KM):- 4+100
DESIGNED BED LEVEL = 132.433 M



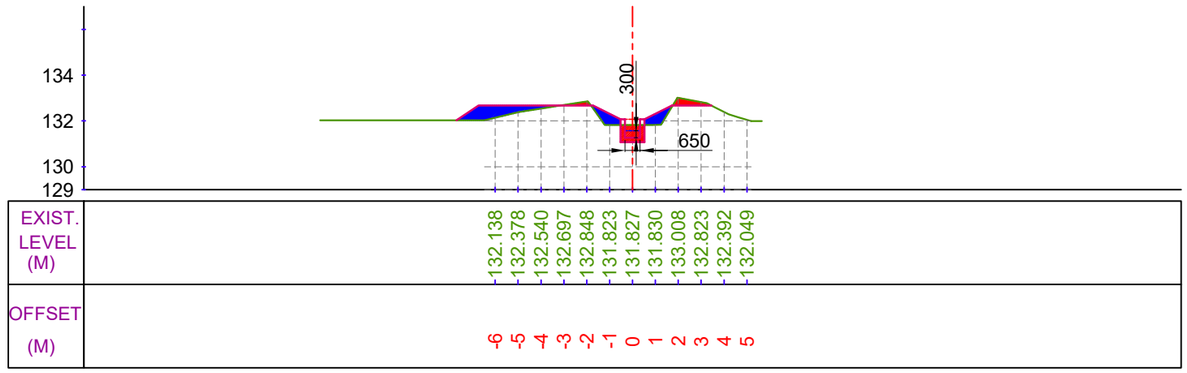
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.498

CH. (KM):- 4+300
DESIGNED BED LEVEL = 132.372 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.360

CH. (KM):- 4+200
DESIGNED BED LEVEL = 132.403 M



CUTTING AREA (SQ.M) = 1.260
FILLING AREA (SQ.M) = 2.362

CH. (KM):- 4+400
DESIGNED BED LEVEL = 131.270 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

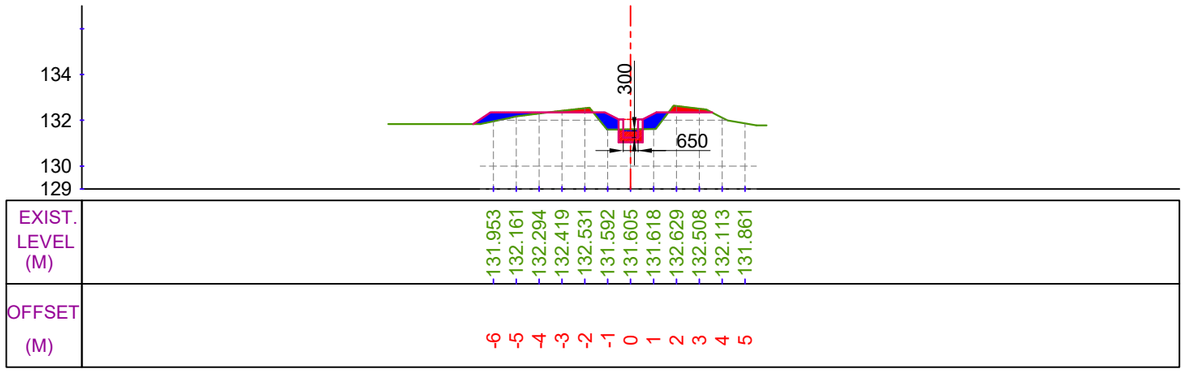
H.G. LINE

Prepared by :-

WAPCOS LTD.

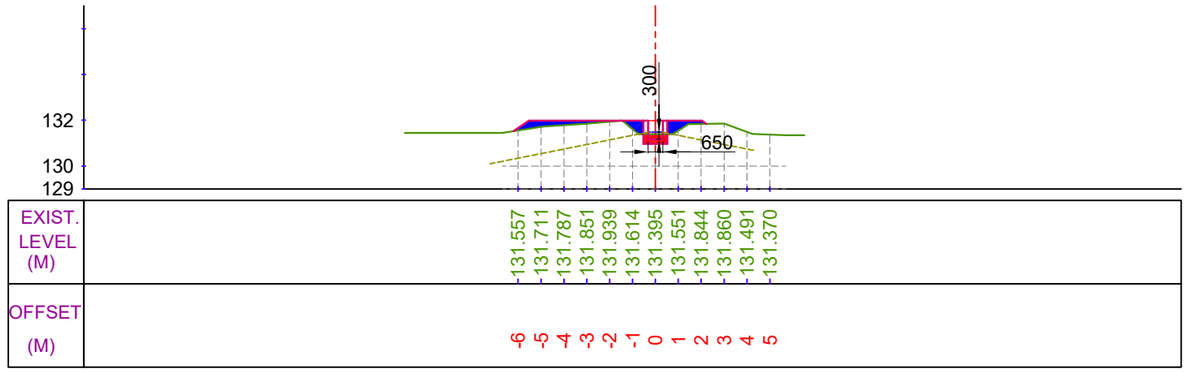
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 11 of 13

X SECTION OF SHANKARPUR MR.



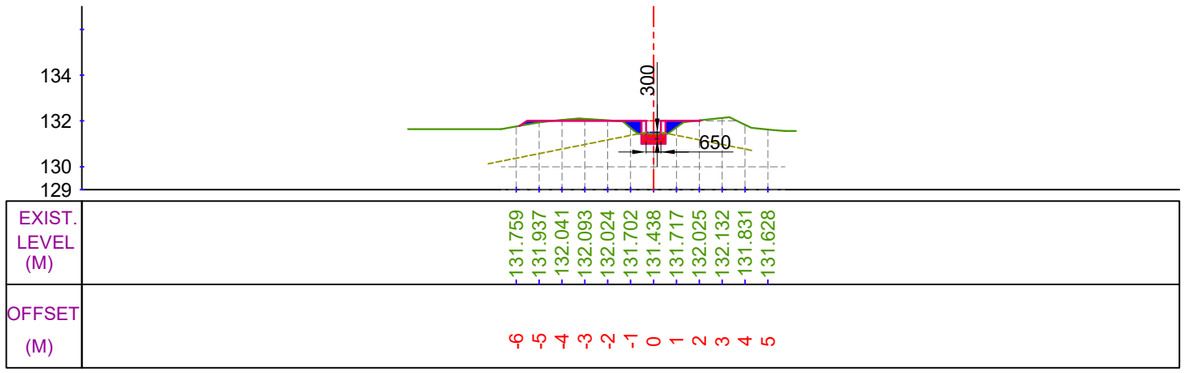
CUTTING AREA (SQ.M) = 1.180
FILLING AREA (SQ.M) = 1.648

CH. (KM):- 4+500
DESIGNED BED LEVEL = 131.239 M



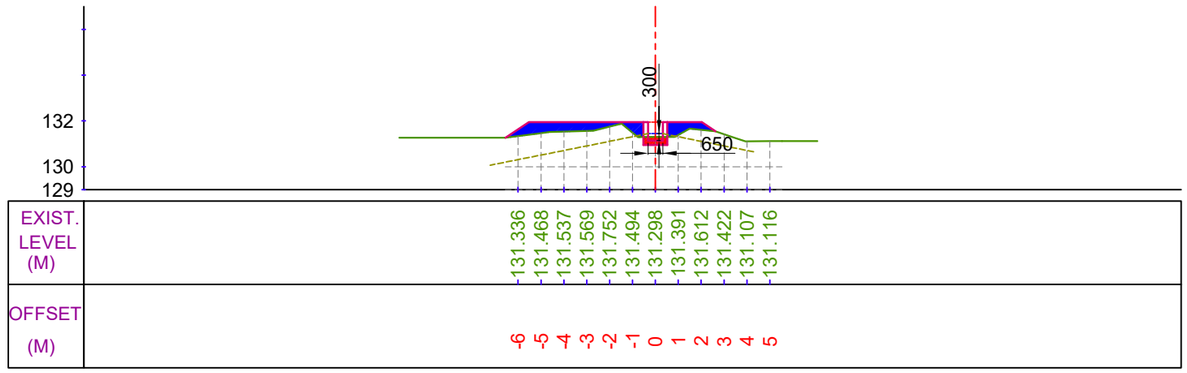
CUTTING AREA (SQ.M) = 0.439
FILLING AREA (SQ.M) = 1.553

CH. (KM):- 4+700
DESIGNED BED LEVEL = 131.177 M



CUTTING AREA (SQ.M) = 0.588
FILLING AREA (SQ.M) = 0.690

CH. (KM):- 4+600
DESIGNED BED LEVEL = 131.208 M



CUTTING AREA (SQ.M) = 0.371
FILLING AREA (SQ.M) = 2.920

CH. (KM):- 4+800
DESIGNED BED LEVEL = 131.145 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

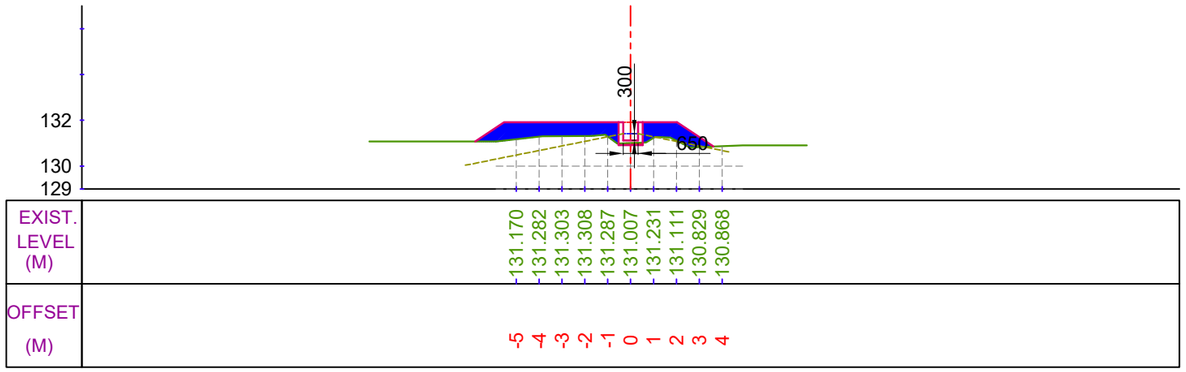
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 12 of 13

X SECTION OF SHANKARPUR MR.



CUTTING AREA (SQ.M) = 0.098

FILLING AREA (SQ.M) = 5.697

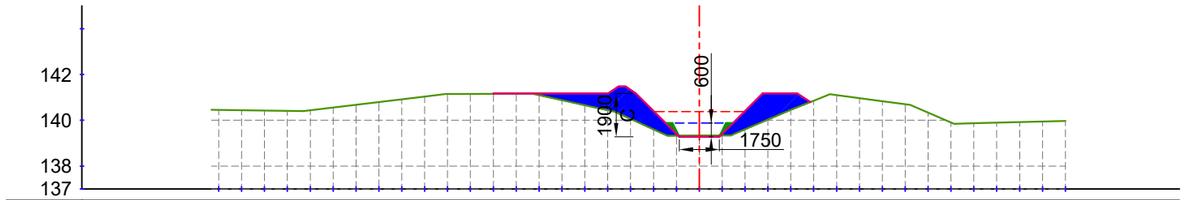
CH. (KM):- 4+900

DESIGNED BED LEVEL = 131.114 M

LEGEND			Prepared by :-		
	CUT AREA		WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
		F.S.L.		Drawing Title :-	X SEC OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DY.)
	FILL AREA	DESIGNED BED LINE		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ XSEC- 13 of 13
		H.G. LINE			

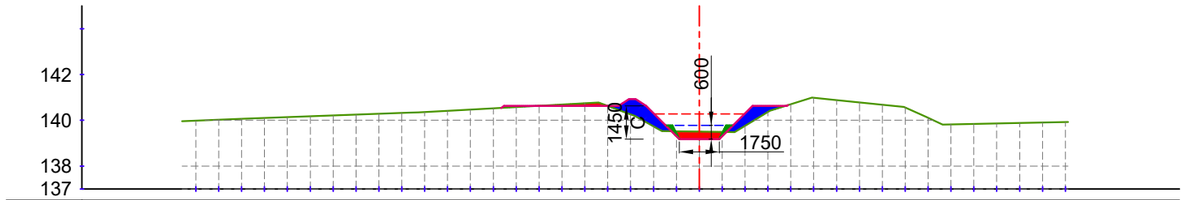
KHAIRA MINOR

X SECTION OF KHAIRA MR.



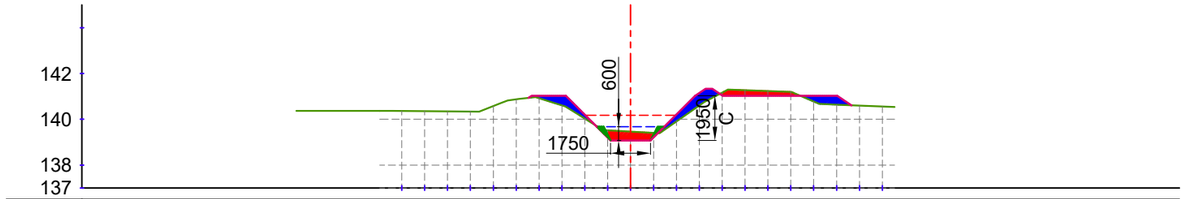
| | | |

X SECTION OF KHAIRA MR.



| | | |

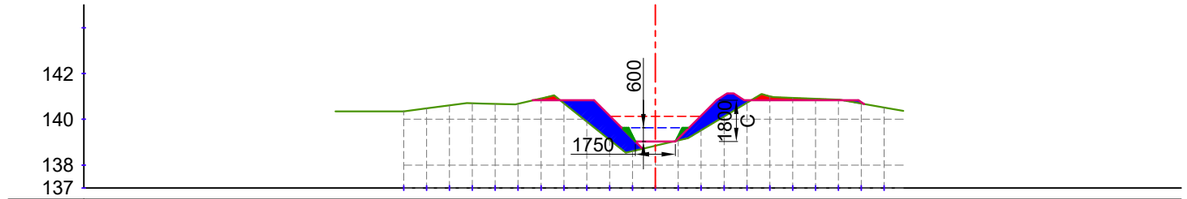
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	140.364	140.356	140.348	140.340	140.580	140.871	140.924	140.608	140.029	139.521	139.465	139.409	139.909	140.606	141.167	141.274	141.238	141.202	140.773	140.637	140.595	140.554
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 1.462
FILLING AREA (SQ.M) = 2.172

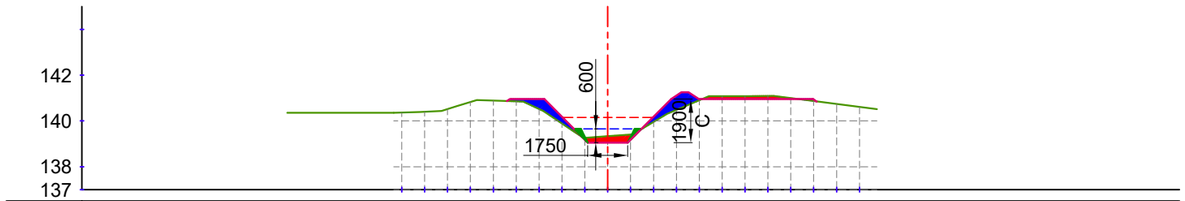
CH. (KM):- 0+900
DESIGNED BED LEVEL = 139.078 M



EXIST. LEVEL (M)	140.346	140.476	140.605	140.698	140.674	140.680	140.911	140.701	139.904	139.108	138.613	138.845	139.078	139.522	140.122	140.722	141.006	140.931	140.892	140.852	140.687	140.514
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 0.531
FILLING AREA (SQ.M) = 4.524

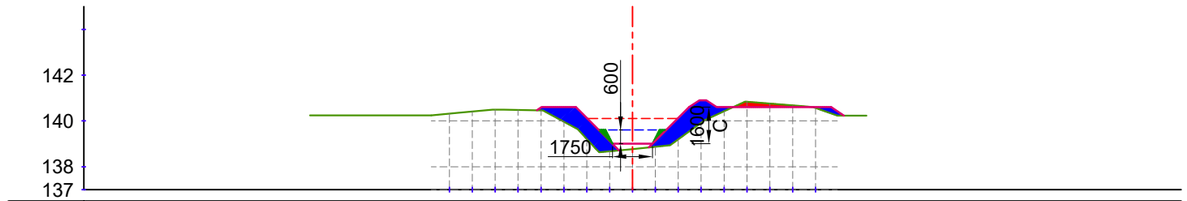
CH. (KM):- 1+100
DESIGNED BED LEVEL = 139.028 M



EXIST. LEVEL (M)	140.365	140.404	140.516	140.829	140.889	140.854	140.521	139.889	139.258	139.331	139.405	139.955	140.486	140.903	141.083	141.087	141.092	140.996	140.867	140.738	140.609	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	

CUTTING AREA (SQ.M) = 1.001
FILLING AREA (SQ.M) = 1.801

CH. (KM):- 1+000
DESIGNED BED LEVEL = 139.053 M



EXIST. LEVEL (M)	140.322	140.415	140.495	140.480	140.466	139.970	139.217	138.673	138.773	138.874	139.195	139.919	140.423	140.842	140.761	140.680	140.569					
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8					

CUTTING AREA (SQ.M) = 0.436
FILLING AREA (SQ.M) = 4.634

CH. (KM):- 1+200
DESIGNED BED LEVEL = 139.003 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

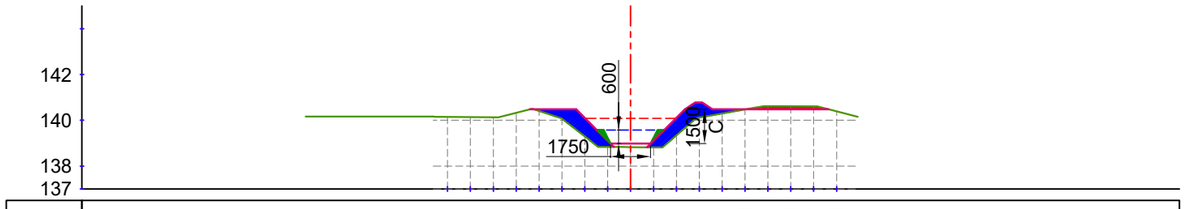
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 3 of 24

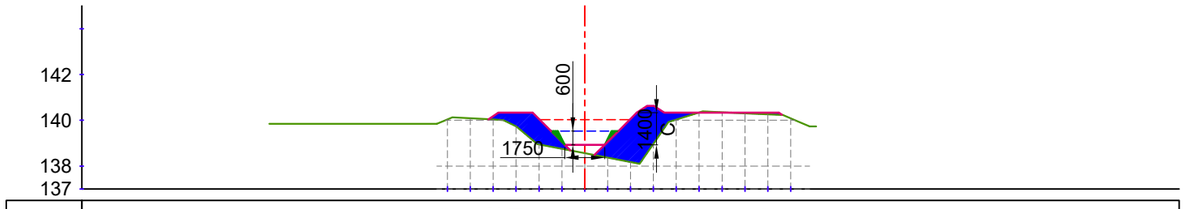
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	140.150	140.139	140.127	140.326	140.406	140.070	139.290	138.837	138.828	138.820	139.338	140.115	140.293	140.471	140.619	140.611	140.603	140.391			
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9			

CUTTING AREA (SQ.M) = 0.396
FILLING AREA (SQ.M) = 3.546

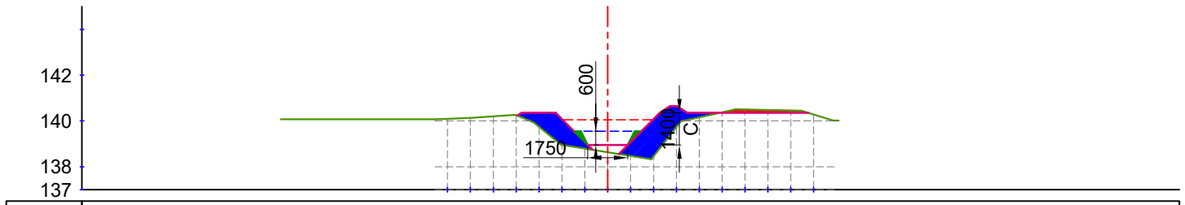
CH. (KM):- 1+300
DESIGNED BED LEVEL = 138.978 M



EXIST. LEVEL (M)	140.038	140.085	140.032	139.741	138.947	138.754	138.562	138.369	138.176	138.966	140.026	140.338	140.349	140.306	140.263	140.089					
OFFSET (M)	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9					

CUTTING AREA (SQ.M) = 0.043
FILLING AREA (SQ.M) = 6.672

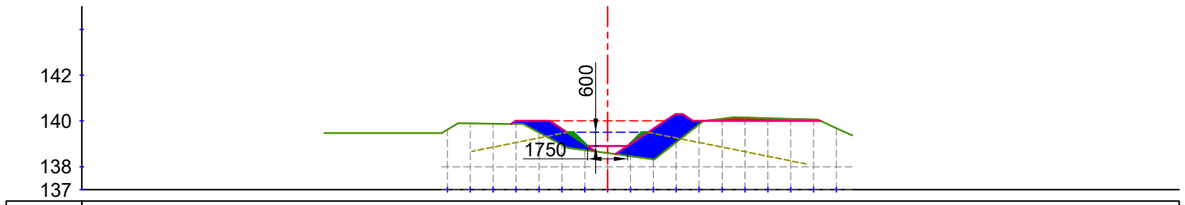
CH. (KM):- 1+500
DESIGNED BED LEVEL = 138.928 M



EXIST. LEVEL (M)	140.093	140.131	140.199	140.256	139.744	138.957	138.796	138.635	138.474	138.454	139.729	140.161	140.380	140.502	140.478	140.455	140.281				
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9				

CUTTING AREA (SQ.M) = 0.428
FILLING AREA (SQ.M) = 5.217

CH. (KM):- 1+400
DESIGNED BED LEVEL = 138.953 M



EXIST. LEVEL (M)	139.625	139.897	139.880	139.871	139.495	138.962	138.727	138.593	138.460	138.326	139.067	139.848	140.098	140.150	140.121	140.092	140.063	139.684			
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10			

CUTTING AREA (SQ.M) = 0.502
FILLING AREA (SQ.M) = 4.660

CH. (KM):- 1+600
DESIGNED BED LEVEL = 138.903 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

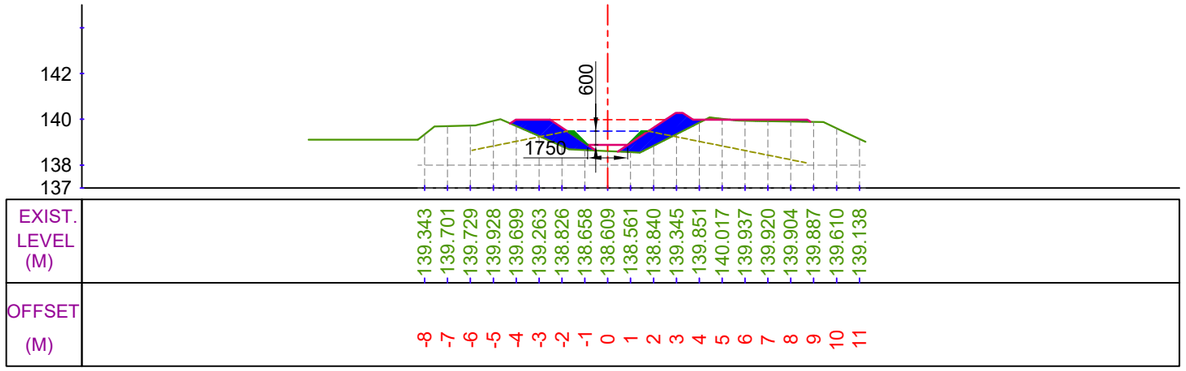
H.G. LINE

Prepared by :-

WAPCOS LTD.

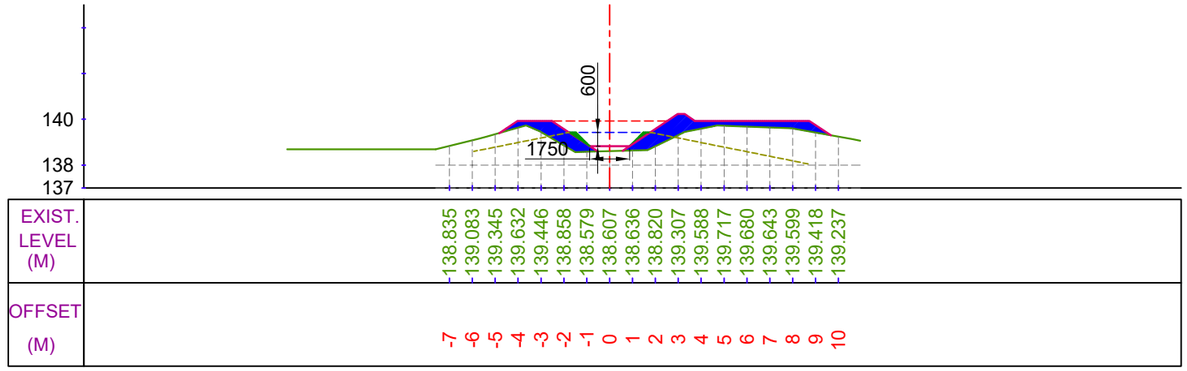
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 4 of 24

X SECTION OF KHAIRA MR.



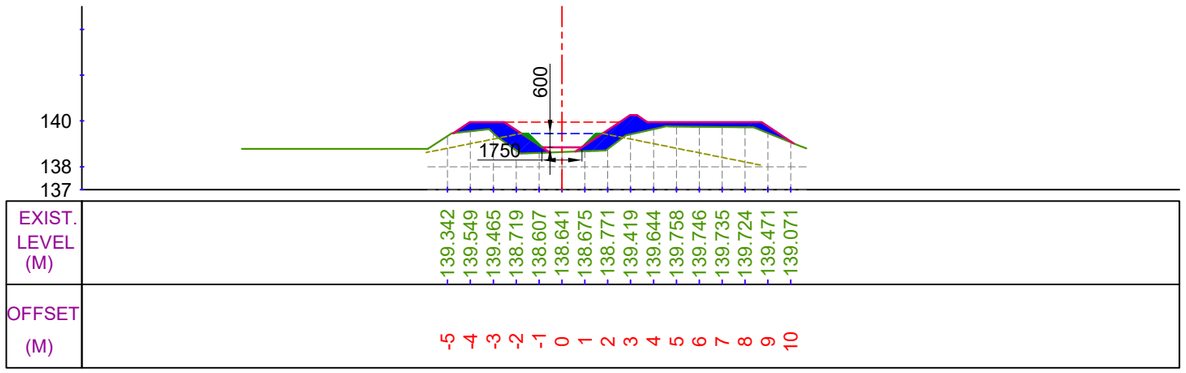
CUTTING AREA (SQ.M) = 0.055
FILLING AREA (SQ.M) = 4.433

CH. (KM):- 1+700
DESIGNED BED LEVEL = 138.878 M



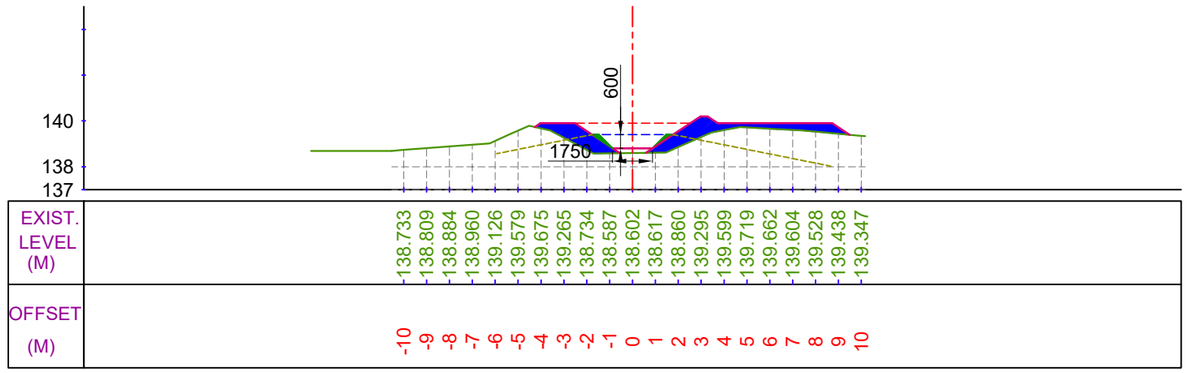
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.433

CH. (KM):- 1+900
DESIGNED BED LEVEL = 138.828 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.364

CH. (KM):- 1+800
DESIGNED BED LEVEL = 138.853 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.393

CH. (KM):- 2+000
DESIGNED BED LEVEL = 138.803 M

LEGEND

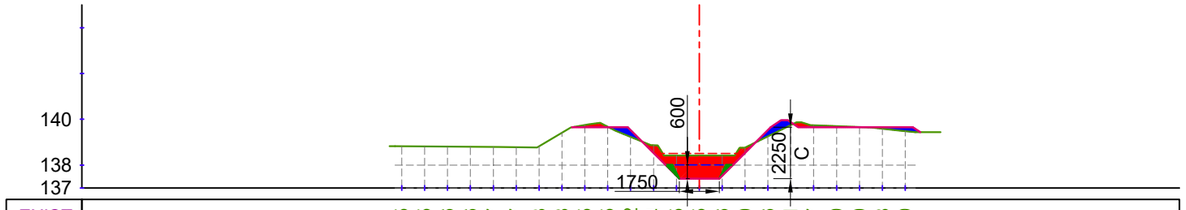
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

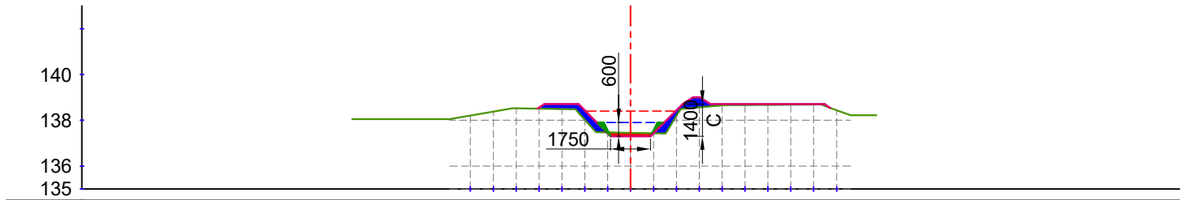
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 5 of 24

X SECTION OF KHAIRA MR.



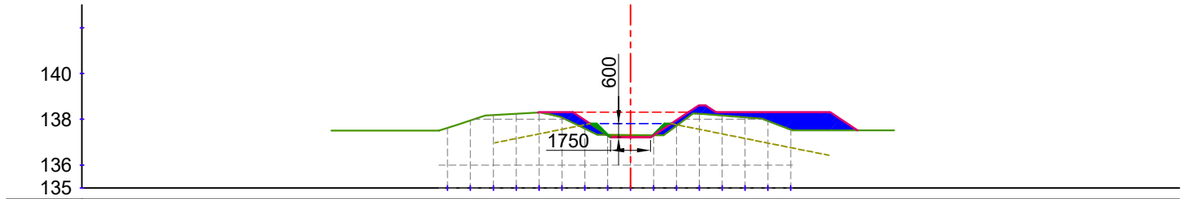
| | | |

X SECTION OF KHAIRA MR.



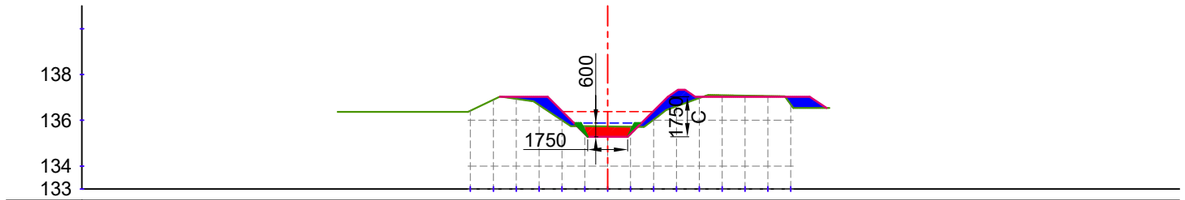
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X SECTION OF KHAIRA MR.



| | | |

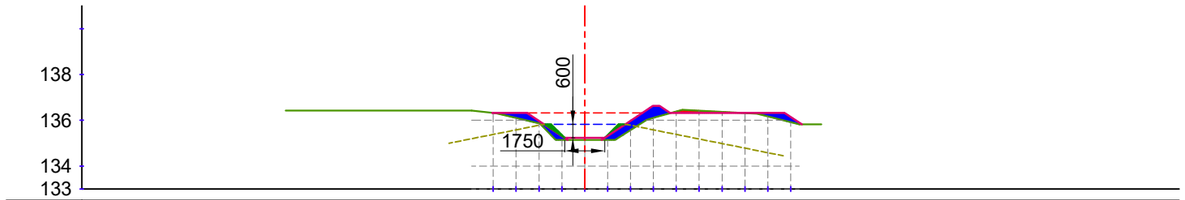
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	136.420	136.892	136.935	136.664	136.002	135.741	135.730	135.719	136.024	136.609	136.972	137.097	137.080	137.062	136.685
OFFSET (M)	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 1.079
FILLING AREA (SQ.M) = 2.598

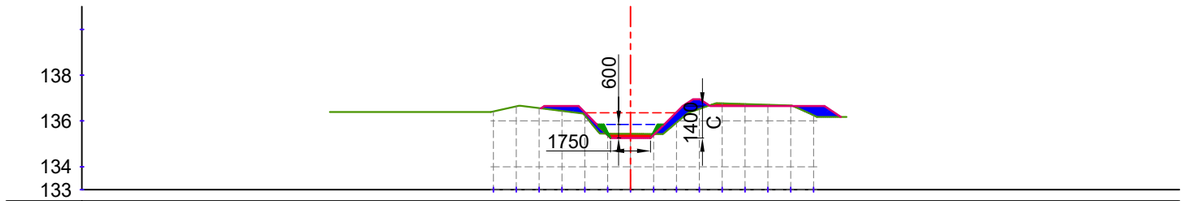
CH. (KM):- 3+300
DESIGNED BED LEVEL = 135.277 M



EXIST. LEVEL (M)	136.316	136.099	135.865	135.142	135.140	135.138	135.572	136.105	136.384	136.420	136.370	136.319	136.172	135.916	
OFFSET (M)	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	

CUTTING AREA (SQ.M) = 0.199
FILLING AREA (SQ.M) = 2.040

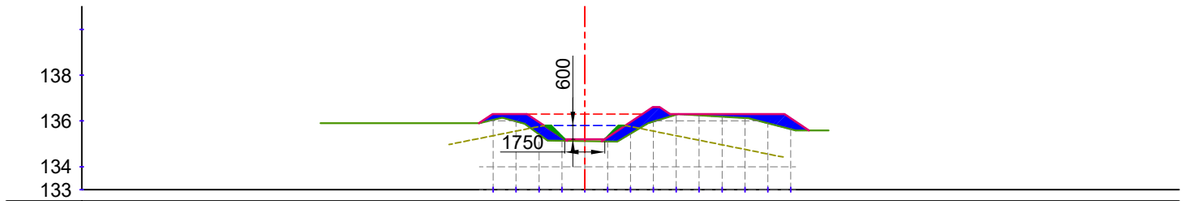
CH. (KM):- 3+500
DESIGNED BED LEVEL = 135.227 M



EXIST. LEVEL (M)	136.418	136.640	136.563	136.441	136.239	135.445	135.437	135.430	135.923	136.525	136.773	136.740	136.707	136.674	136.244
OFFSET (M)	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.614
FILLING AREA (SQ.M) = 2.002

CH. (KM):- 3+400
DESIGNED BED LEVEL = 135.252 M



EXIST. LEVEL (M)	136.044	135.978	135.421	135.133	135.119	135.106	135.445	135.969	136.273	136.244	136.186	136.128	135.900	135.641	
OFFSET (M)	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.792

CH. (KM):- 3+600
DESIGNED BED LEVEL = 135.202 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

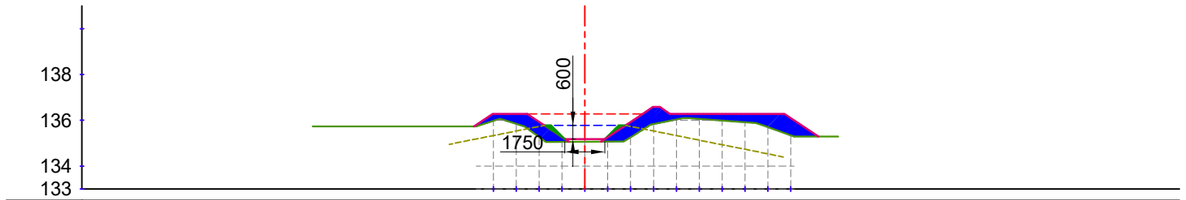
H.G. LINE

Prepared by :-

WAPCOS LTD.

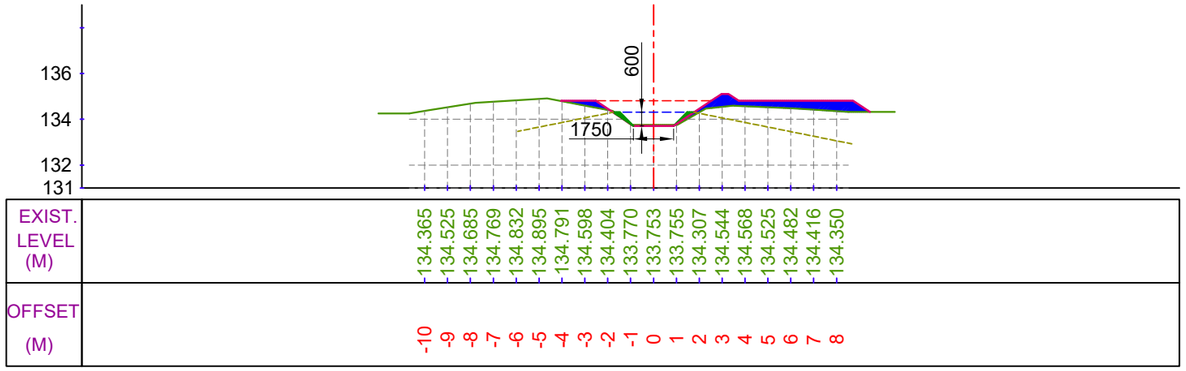
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 9 of 24

X SECTION OF KHAIRA MR.



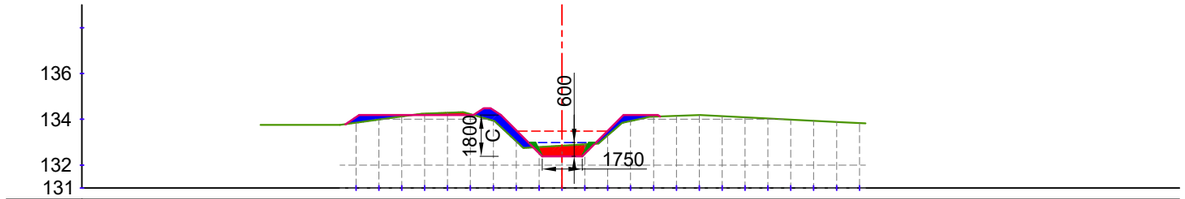
| | | |

X SECTION OF KHAIRA MR.



| | | |

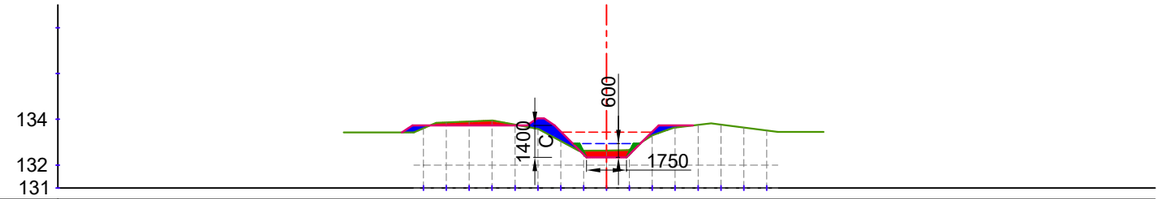
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	133.847	133.984	134.122	134.247	134.287	134.224	133.934	133.034	132.787	132.846	132.904	133.291	133.920	134.108	134.144	134.180	134.133	134.084	134.034	133.984	133.935	133.885	133.835		
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13		

CUTTING AREA (SQ.M) = 1.125
FILLING AREA (SQ.M) = 2.047

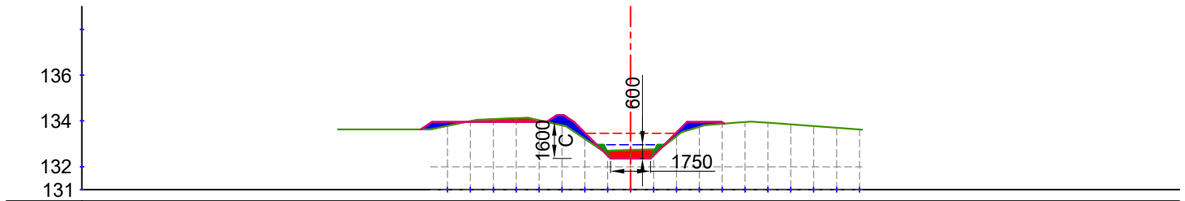
CH. (KM):- 4+500
DESIGNED BED LEVEL = 132.385 M



EXIST. LEVEL (M)	133.606	133.861	133.904	133.947	133.764	133.577	133.048	132.622	132.637	132.668	133.292	133.640	133.757	133.770	133.643	133.516									
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7									

CUTTING AREA (SQ.M) = 1.102
FILLING AREA (SQ.M) = 1.353

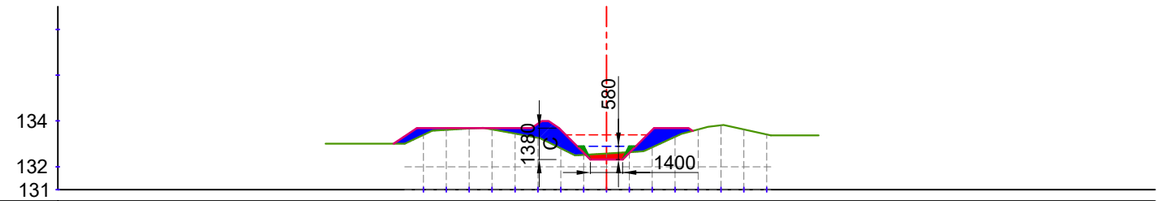
CH. (KM):- 4+700
DESIGNED BED LEVEL = 132.335 M



EXIST. LEVEL (M)	133.784	133.993	134.081	134.121	134.033	133.810	133.217	132.700	132.729	132.759	133.330	133.743	133.873	133.953	133.920	133.847	133.775	133.703	133.630						
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10						

CUTTING AREA (SQ.M) = 1.115
FILLING AREA (SQ.M) = 1.468

CH. (KM):- 4+600
DESIGNED BED LEVEL = 132.360 M



EXIST. LEVEL (M)	133.389	133.608	133.667	133.632	133.450	133.269	132.803	132.515	132.575	132.636	132.852	133.312	133.630	133.812	133.629	133.409									
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7									

CUTTING AREA (SQ.M) = 0.410
FILLING AREA (SQ.M) = 3.643

CH. (KM):- 4+800
DESIGNED BED LEVEL = 132.310 M

LEGEND

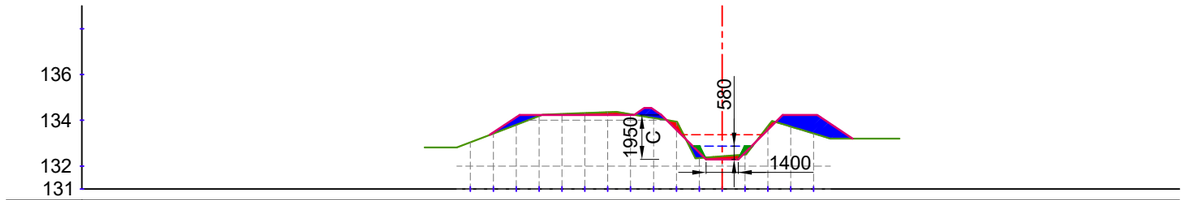
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 12 of 24

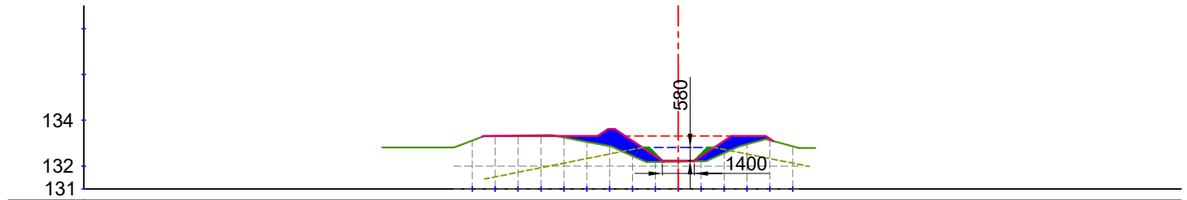
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	133.043	133.423	133.803	134.182	134.274	134.315	134.355	134.267	134.103	133.940	132.354	132.427	132.501	133.735	133.722	133.421	
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	

CUTTING AREA (SQ.M) = 0.739
FILLING AREA (SQ.M) = 2.752

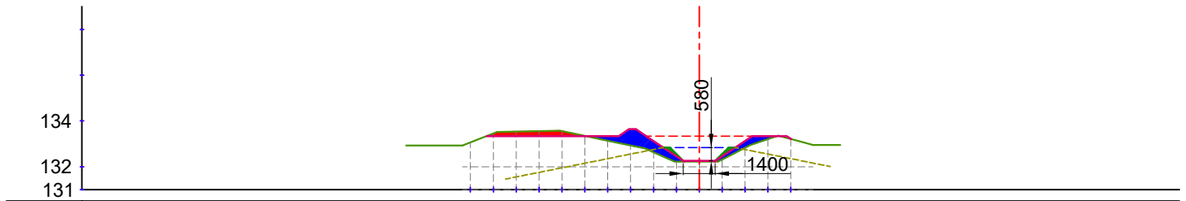
CH. (KM):- 4+900
DESIGNED BED LEVEL = 132.285 M



EXIST. LEVEL (M)	133.116	133.309	133.326	133.344	133.247	133.058	132.869	132.441	132.179	132.193	132.207	132.561	132.949	133.129	132.862		
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5		

CUTTING AREA (SQ.M) = 0.046
FILLING AREA (SQ.M) = 3.116

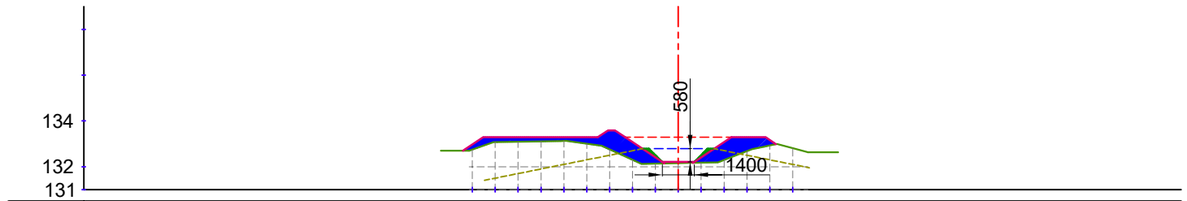
CH. (KM):- 5+100
DESIGNED BED LEVEL = 132.233 M



EXIST. LEVEL (M)	133.060	133.456	133.537	133.556	133.559	133.349	133.139	132.929	132.633	132.224	132.226	132.319	132.832	133.206	133.212		
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4		

CUTTING AREA (SQ.M) = 0.750
FILLING AREA (SQ.M) = 2.108

CH. (KM):- 5+000
DESIGNED BED LEVEL = 132.259 M



EXIST. LEVEL (M)	132.747	133.079	133.095	133.111	133.127	133.002	132.753	132.302	132.135	132.157	132.178	132.298	132.679	132.931	132.813		
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5		

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.904

CH. (KM):- 5+200
DESIGNED BED LEVEL = 132.208 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

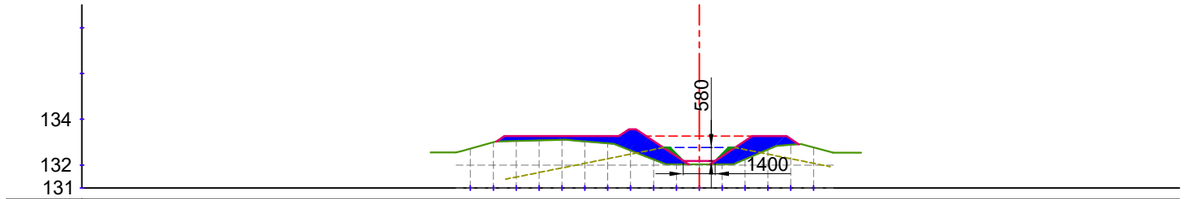
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 13 of 24

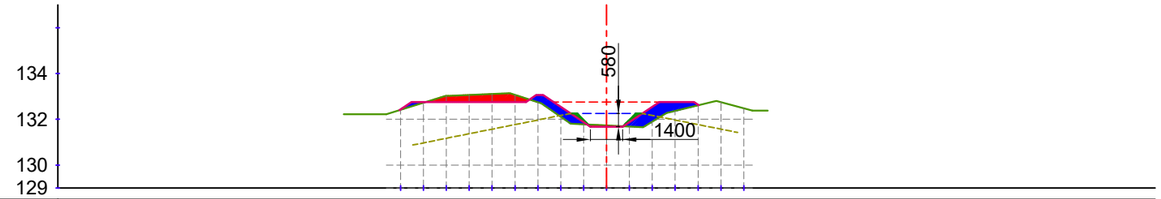
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	132.723	133.003	133.053	133.076	133.099	133.032	132.947	132.635	132.241	132.026	132.028	132.031	132.253	132.680	132.884	132.771
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.118

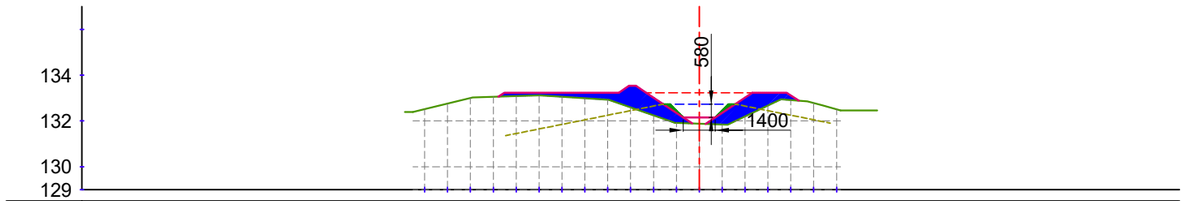
CH. (KM):- 5+300
DESIGNED BED LEVEL = 132.182 M



EXIST. LEVEL (M)	132.417	132.724	133.023	133.064	133.105	133.066	132.744	132.106	131.781	131.730	131.679	131.890	132.361	132.604	132.744	132.481
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 1.316
FILLING AREA (SQ.M) = 2.269

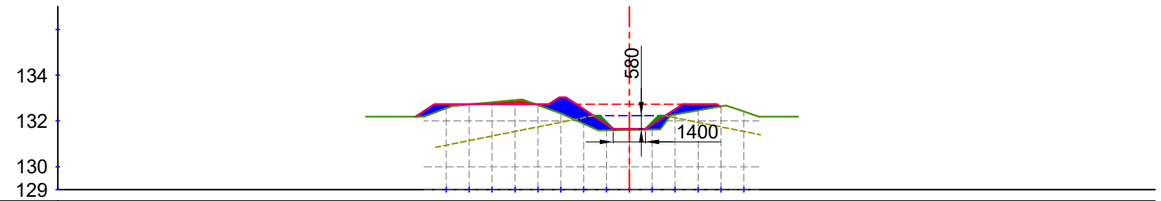
CH. (KM):- 5+500
DESIGNED BED LEVEL = 131.674 M



EXIST. LEVEL (M)	132.513	132.759	133.004	133.056	133.088	133.120	133.057	132.994	132.930	132.593	132.243	131.916	131.882	131.848	132.199	132.672	132.914	132.782	132.510
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.180

CH. (KM):- 5+400
DESIGNED BED LEVEL = 132.156 M



EXIST. LEVEL (M)	132.553	132.719	132.814	132.909	132.693	132.330	131.883	131.595	131.610	131.625	132.282	132.462	132.642	132.412
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.298
FILLING AREA (SQ.M) = 2.774

CH. (KM):- 5+600
DESIGNED BED LEVEL = 131.648 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

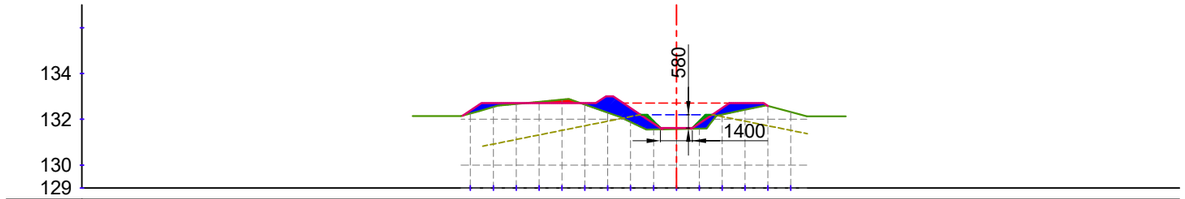
H.G. LINE

Prepared by :-

WAPCOS LTD.

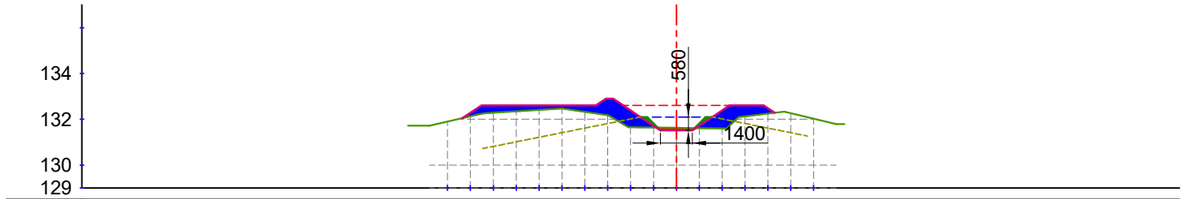
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 14 of 24

X SECTION OF KHAIRA MR.



| | | |

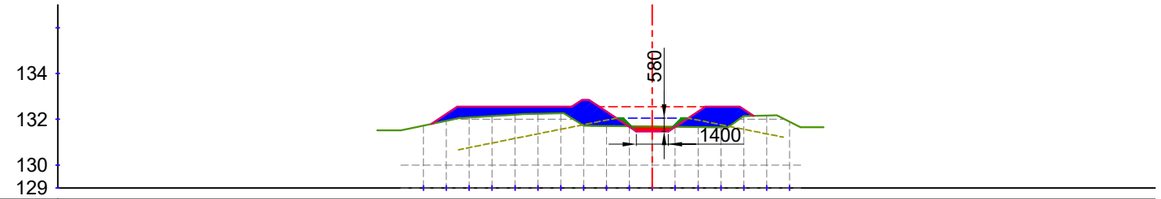
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	131.896	132.126	132.284	132.347	132.410	132.473	132.325	132.176	131.649	131.637	131.624	131.612	131.599	132.128	132.248	132.265	132.026					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					

CUTTING AREA (SQ.M) = 0.157
FILLING AREA (SQ.M) = 4.444

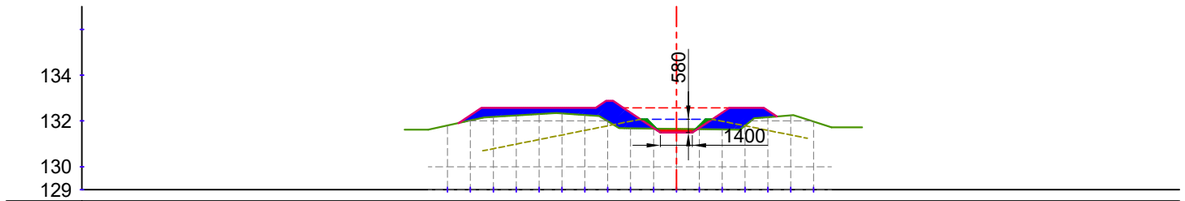
CH. (KM):- 6+100
DESIGNED BED LEVEL = 131.520 M



EXIST. LEVEL (M)	131.723	131.936	132.081	132.141	132.202	132.242	132.267	131.731	131.706	131.695	131.683	131.672	131.661	131.649	132.139	132.164	131.895					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					

CUTTING AREA (SQ.M) = 0.346
FILLING AREA (SQ.M) = 5.788

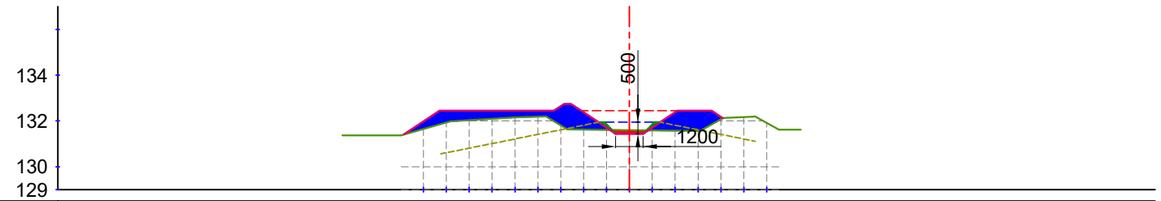
CH. (KM):- 6+300
DESIGNED BED LEVEL = 131.469 M



EXIST. LEVEL (M)	131.802	132.023	132.180	132.242	132.304	132.333	132.264	131.987	131.678	131.666	131.654	131.642	131.631	131.797	132.165	132.245	131.970					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					

CUTTING AREA (SQ.M) = 0.250
FILLING AREA (SQ.M) = 5.207

CH. (KM):- 6+200
DESIGNED BED LEVEL = 131.494 M



EXIST. LEVEL (M)	131.649	131.931	132.031	132.092	132.151	132.187	131.810	131.623	131.610	131.597	131.584	131.571	131.559	132.071	132.170	131.915						
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6						

CUTTING AREA (SQ.M) = 0.209
FILLING AREA (SQ.M) = 5.817

CH. (KM):- 6+400
DESIGNED BED LEVEL = 131.443 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

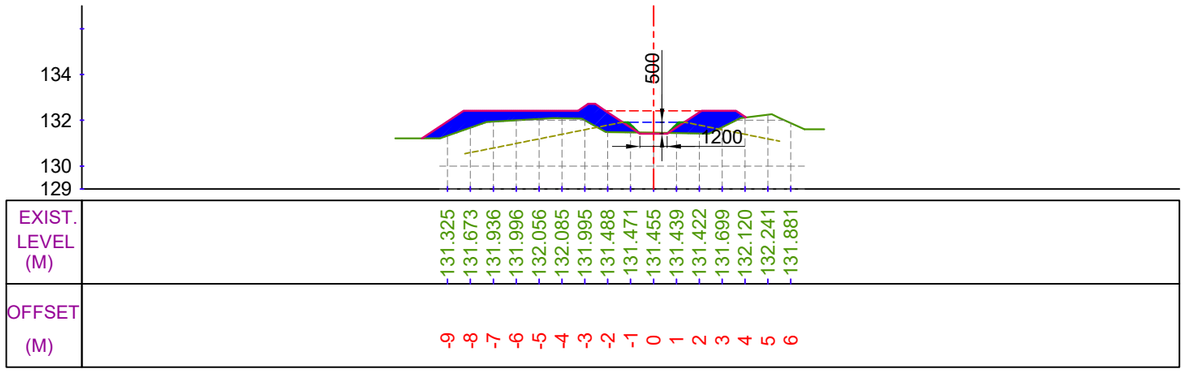
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 16 of 24

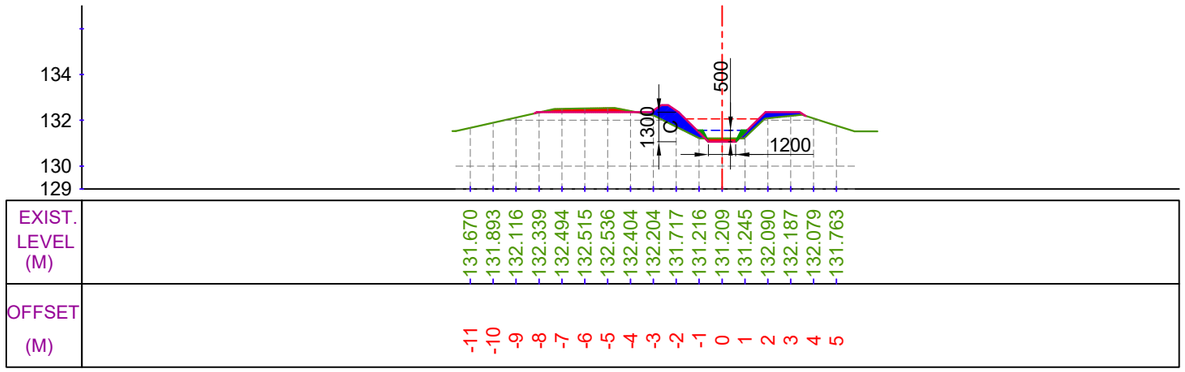
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	131.325	131.673	131.936	131.996	132.056	132.085	131.995	131.488	131.471	131.455	131.439	131.422	131.699	132.120	132.241	131.881
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.047
FILLING AREA (SQ.M) = 6.718

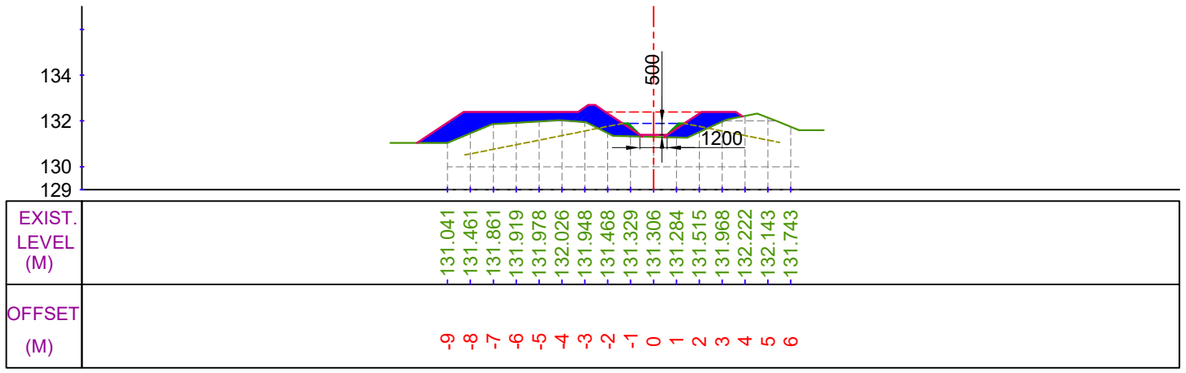
CH. (KM):- 6+500
DESIGNED BED LEVEL = 131.417 M



EXIST. LEVEL (M)	131.670	131.893	132.116	132.339	132.494	132.515	132.536	132.404	132.204	131.717	131.216	131.209	131.245	132.090	132.187	132.079	131.763
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.713
FILLING AREA (SQ.M) = 1.779

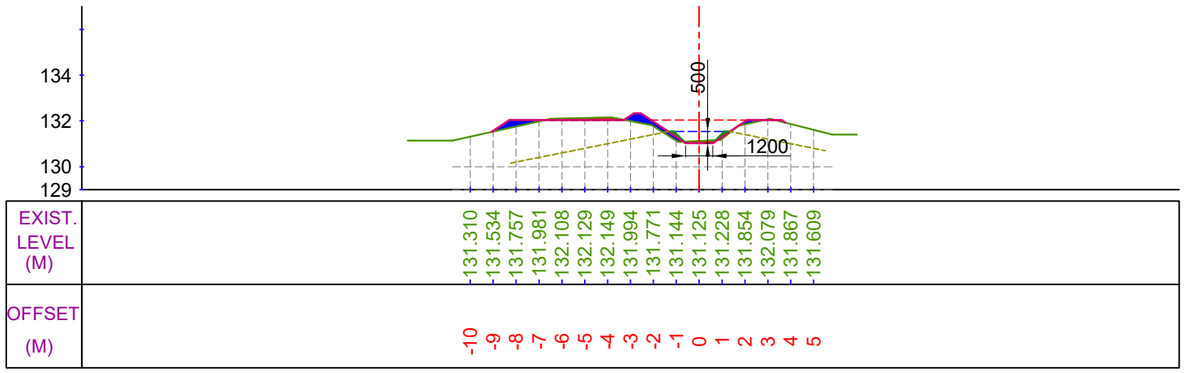
CH. (KM):- 6+700
DESIGNED BED LEVEL = 131.061 M



EXIST. LEVEL (M)	131.041	131.461	131.861	131.919	131.978	132.026	131.948	131.468	131.329	131.306	131.284	131.515	131.968	132.222	132.143	131.743
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 7.267

CH. (KM):- 6+600
DESIGNED BED LEVEL = 131.392 M



EXIST. LEVEL (M)	131.310	131.534	131.757	131.981	132.108	132.129	132.149	131.994	131.771	131.144	131.125	131.228	131.854	132.079	131.867	131.609
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.419
FILLING AREA (SQ.M) = 1.106

CH. (KM):- 6+800
DESIGNED BED LEVEL = 131.035 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

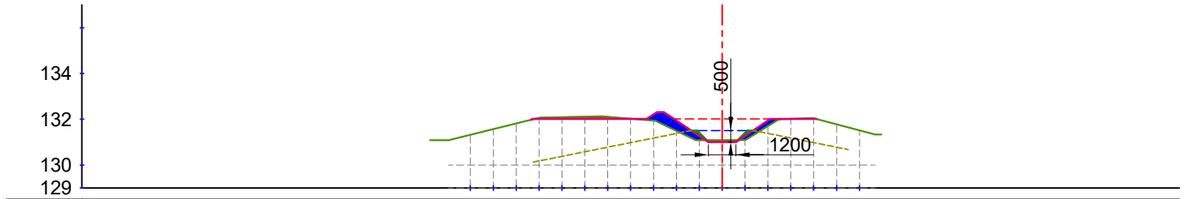
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 17 of 24

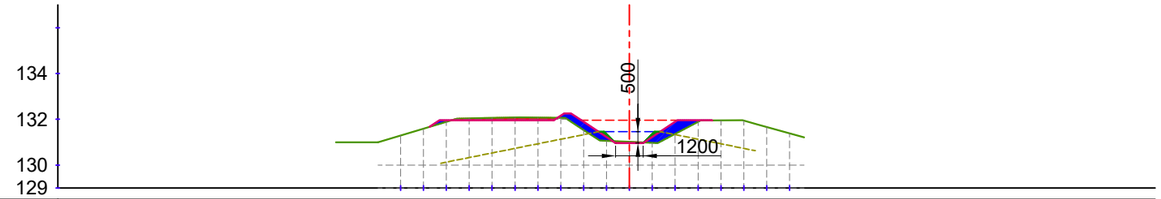
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	131.324	131.570	131.816	132.061	132.095	132.116	132.109	132.028	131.947	131.493	131.081	131.089	131.098	131.699	132.015	132.045	131.781	131.516					
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					

CUTTING AREA (SQ.M) = 0.477
FILLING AREA (SQ.M) = 1.227

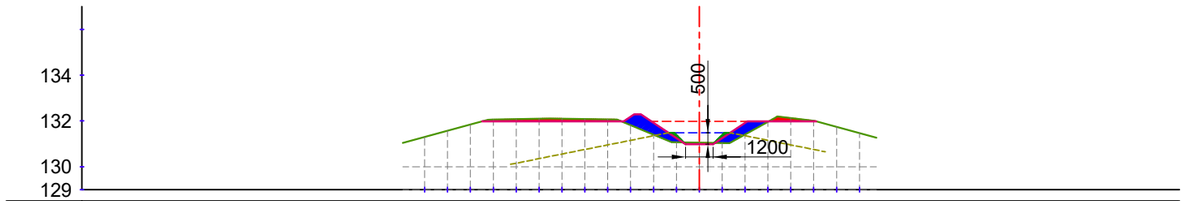
CH. (KM):- 6+900
DESIGNED BED LEVEL = 131.010 M



EXIST. LEVEL (M)	131.291	131.592	131.892	132.041	132.062	132.083	132.075	132.061	131.534	131.058	131.015	130.971	131.363	131.891	131.951	131.943	131.663	131.383					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7					

CUTTING AREA (SQ.M) = 0.542
FILLING AREA (SQ.M) = 1.555

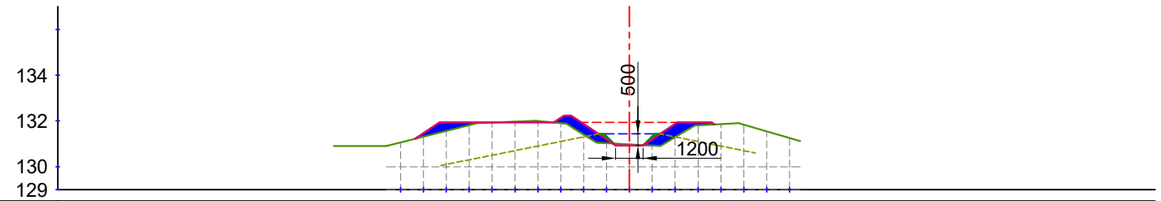
CH. (KM):- 7+100
DESIGNED BED LEVEL = 130.958 M



EXIST. LEVEL (M)	131.301	131.572	131.843	132.057	132.078	132.099	132.102	132.087	132.073	131.819	131.404	131.071	131.053	131.035	131.409	131.965	132.127	132.009	131.742	131.471			
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7			

CUTTING AREA (SQ.M) = 0.901
FILLING AREA (SQ.M) = 1.782

CH. (KM):- 7+000
DESIGNED BED LEVEL = 130.984 M



EXIST. LEVEL (M)	131.064	131.315	131.566	131.818	131.930	131.970	131.997	131.900	131.407	131.030	130.976	130.923	131.288	131.813	131.865	131.839	131.547	131.256					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7					

CUTTING AREA (SQ.M) = 0.150
FILLING AREA (SQ.M) = 2.470

CH. (KM):- 7+200
DESIGNED BED LEVEL = 130.933 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

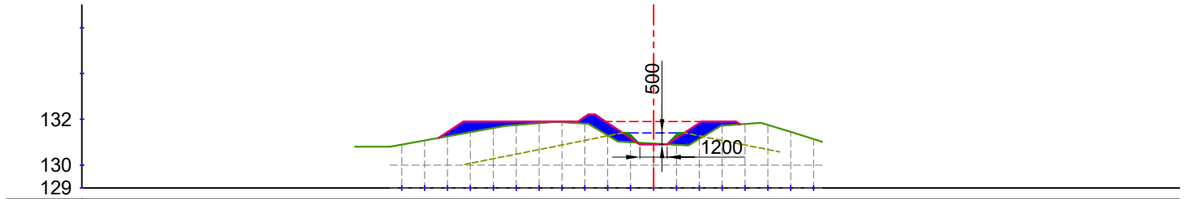
H.G. LINE

Prepared by :-

WAPCOS LTD.

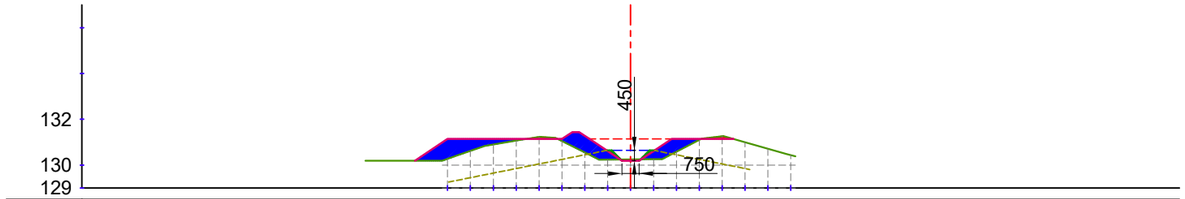
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 18 of 24

X SECTION OF KHAIRA MR.



| | | |

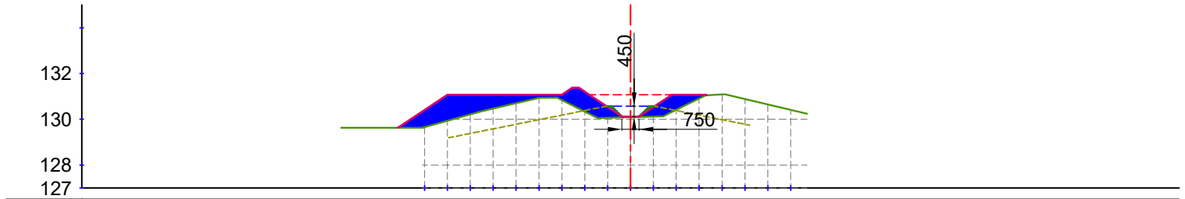
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	130.269	130.618	130.900	131.066	131.232	131.049	130.547	130.236	130.245	130.254	130.582	131.104	131.262	130.998	130.716	130.433		
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7		

CUTTING AREA (SQ.M) = 0.230
FILLING AREA (SQ.M) = 4.115

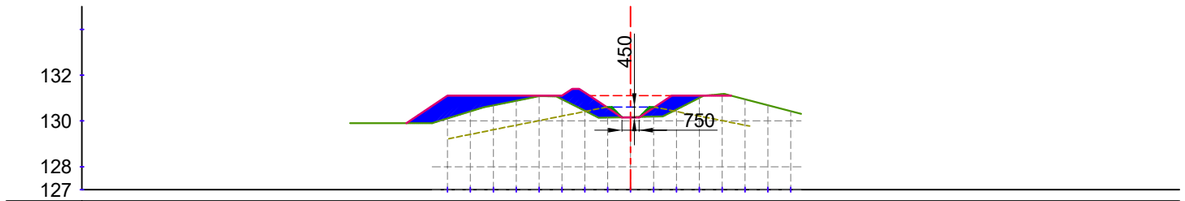
CH. (KM):- 7+700
DESIGNED BED LEVEL = 130.188 M



EXIST. LEVEL (M)	129.656	129.933	130.210	130.466	130.702	130.931	130.845	130.339	130.060	130.090	130.121	130.415	130.906	131.090	130.888	130.649	130.410	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.827

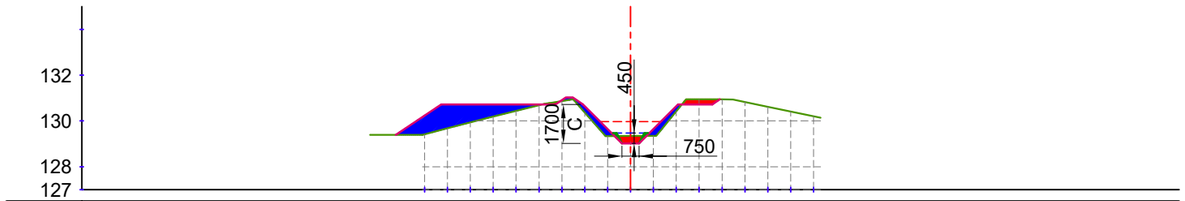
CH. (KM):- 7+900
DESIGNED BED LEVEL = 130.122 M



EXIST. LEVEL (M)	130.113	130.420	130.681	130.883	131.083	130.947	130.442	130.148	130.168	130.188	130.499	131.004	131.175	130.945	130.685	130.426		
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7		

CUTTING AREA (SQ.M) = 0.055
FILLING AREA (SQ.M) = 5.388

CH. (KM):- 7+800
DESIGNED BED LEVEL = 130.155 M



EXIST. LEVEL (M)	129.419	129.678	129.936	130.192	130.441	130.690	130.867	130.369	129.337	129.342	129.346	130.420	130.943	130.941	130.831	130.622	130.413	130.205	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	

CUTTING AREA (SQ.M) = 0.649
FILLING AREA (SQ.M) = 4.596

CH. (KM):- 8+000
DESIGNED BED LEVEL = 129.021 M

LEGEND

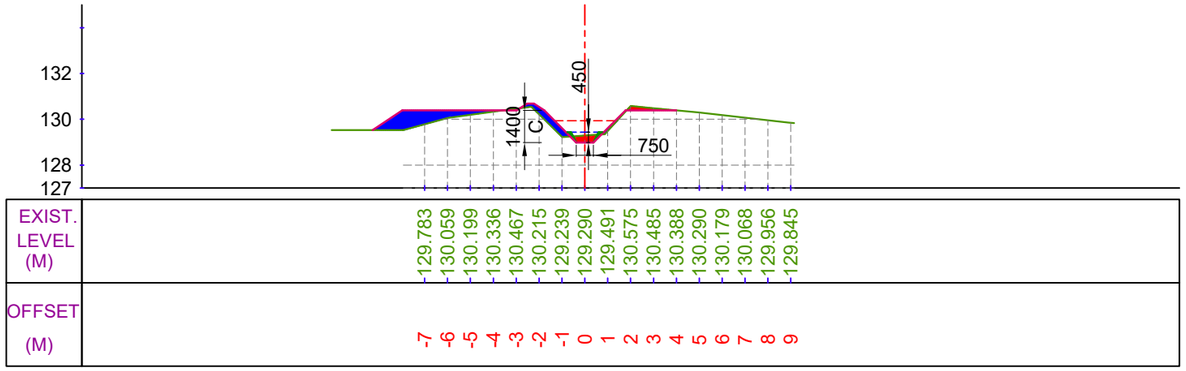
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 20 of 24

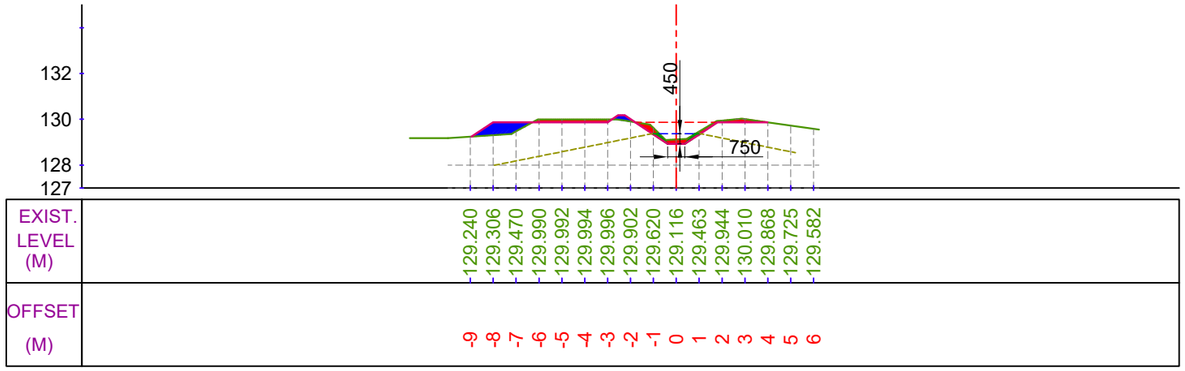
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	129.783	130.059	130.199	130.336	130.467	130.215	129.239	129.290	129.491	130.575	130.485	130.388	130.290	130.179	130.068	129.956	129.845
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 0.516
FILLING AREA (SQ.M) = 2.819

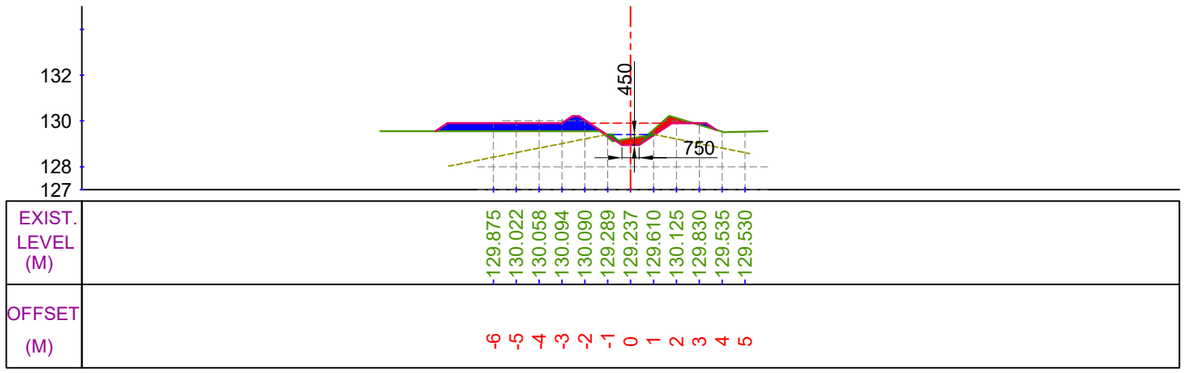
CH. (KM):- 8+100
DESIGNED BED LEVEL = 128.988 M



EXIST. LEVEL (M)	129.240	129.306	129.470	129.990	129.992	129.994	129.996	129.902	129.620	129.116	129.463	129.944	130.010	129.868	129.725	129.582	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	

CUTTING AREA (SQ.M) = 1.086
FILLING AREA (SQ.M) = 1.070

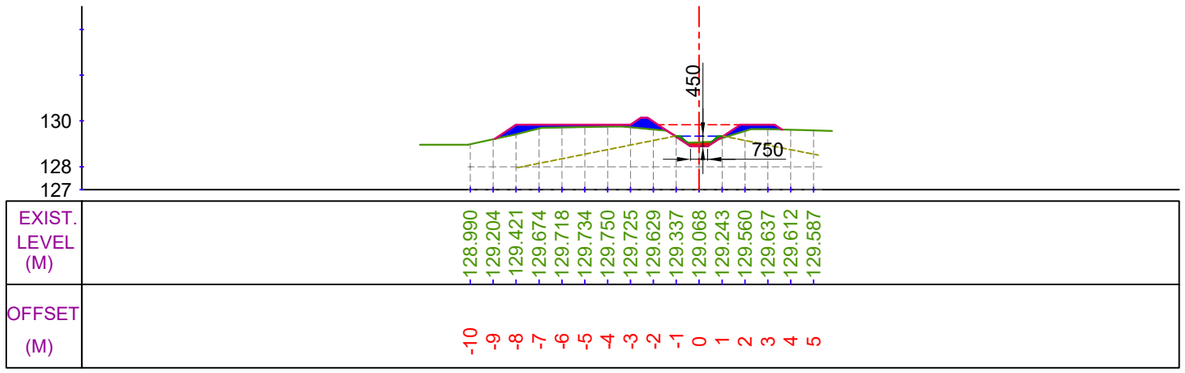
CH. (KM):- 8+300
DESIGNED BED LEVEL = 128.921 M



EXIST. LEVEL (M)	129.875	130.022	130.058	130.094	130.090	129.289	129.237	129.610	130.125	129.830	129.535	129.530
OFFSET (M)	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.714
FILLING AREA (SQ.M) = 2.705

CH. (KM):- 8+200
DESIGNED BED LEVEL = 128.955 M



EXIST. LEVEL (M)	128.990	129.204	129.421	129.674	129.718	129.734	129.750	129.725	129.629	129.337	129.068	129.243	129.560	129.637	129.612	129.587	
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	

CUTTING AREA (SQ.M) = 0.174
FILLING AREA (SQ.M) = 1.919

CH. (KM):- 8+400
DESIGNED BED LEVEL = 128.888 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

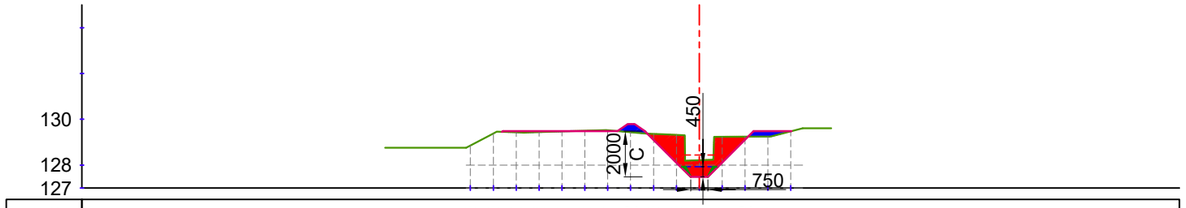
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 21 of 24

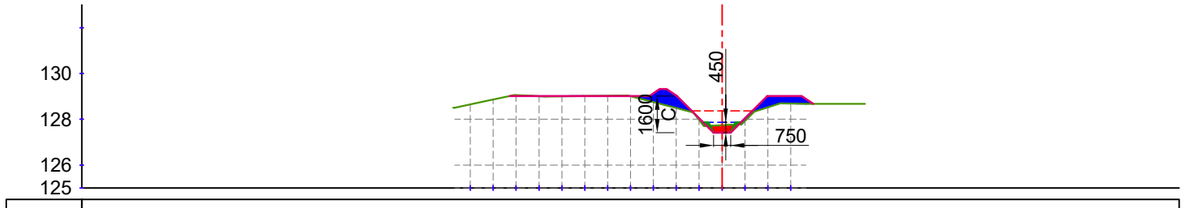
X SECTION OF KHAIRA MR.



EXIST. LEVEL (M)	128.859	129.379	129.430	129.438	129.467	129.496	129.517	129.432	129.359	129.319	128.209	129.237	129.242	129.246	129.474
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4

CUTTING AREA (SQ.M) = 3.187
FILLING AREA (SQ.M) = 0.724

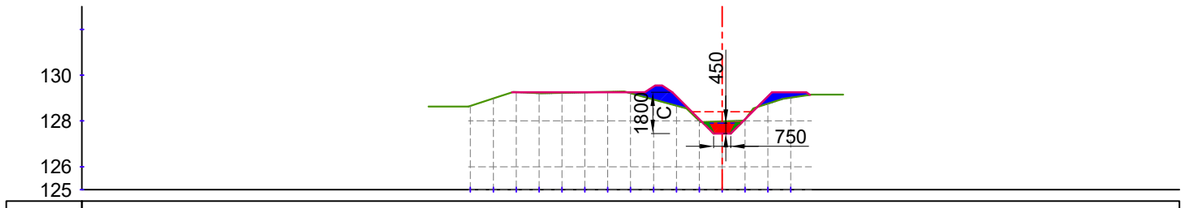
CH. (KM):- 8+500
DESIGNED BED LEVEL = 127.483 M



EXIST. LEVEL (M)	128.649	128.860	129.053	129.005	129.004	129.017	129.030	129.012	128.753	128.495	127.967	127.740	127.927	128.519	128.683
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3

CUTTING AREA (SQ.M) = 0.343
FILLING AREA (SQ.M) = 1.897

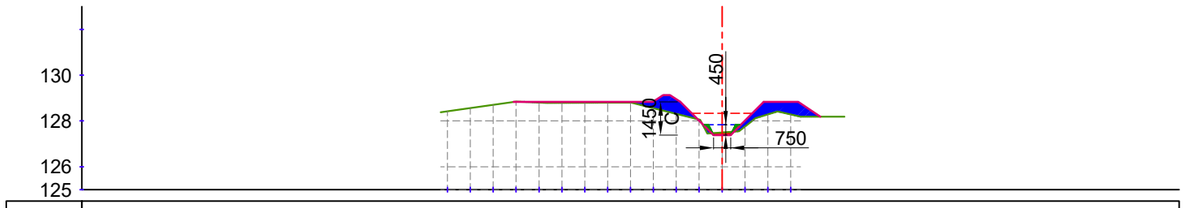
CH. (KM):- 8+700
DESIGNED BED LEVEL = 127.416 M



EXIST. LEVEL (M)	128.656	128.982	129.258	129.209	129.224	129.245	129.266	129.209	128.939	128.670	128.006	127.982	128.059	128.754	129.017
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3

CUTTING AREA (SQ.M) = 0.641
FILLING AREA (SQ.M) = 1.594

CH. (KM):- 8+600
DESIGNED BED LEVEL = 127.449 M



EXIST. LEVEL (M)	128.421	128.564	128.706	128.849	128.801	128.788	128.792	128.796	128.800	128.563	128.314	128.065	127.497	127.754	128.284	128.285
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3

CUTTING AREA (SQ.M) = 0.105
FILLING AREA (SQ.M) = 2.765

CH. (KM):- 8+800
DESIGNED BED LEVEL = 127.383 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

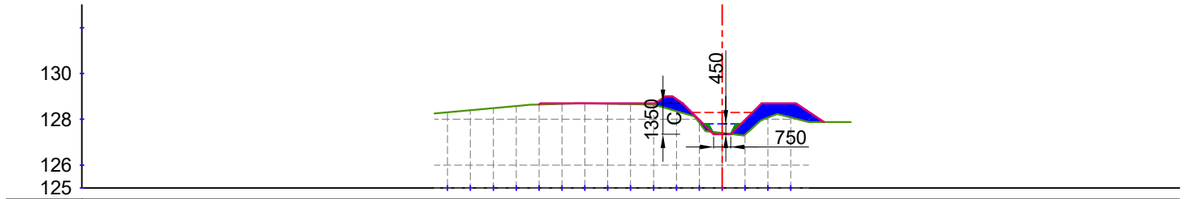
H.G. LINE

Prepared by :-

WAPCOS LTD.

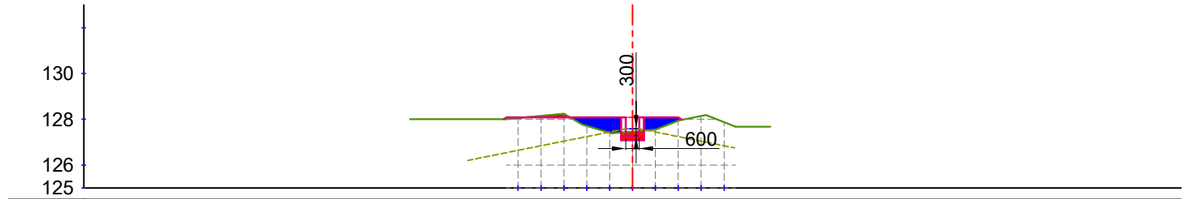
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 22 of 24

X SECTION OF KHAIRA MR.



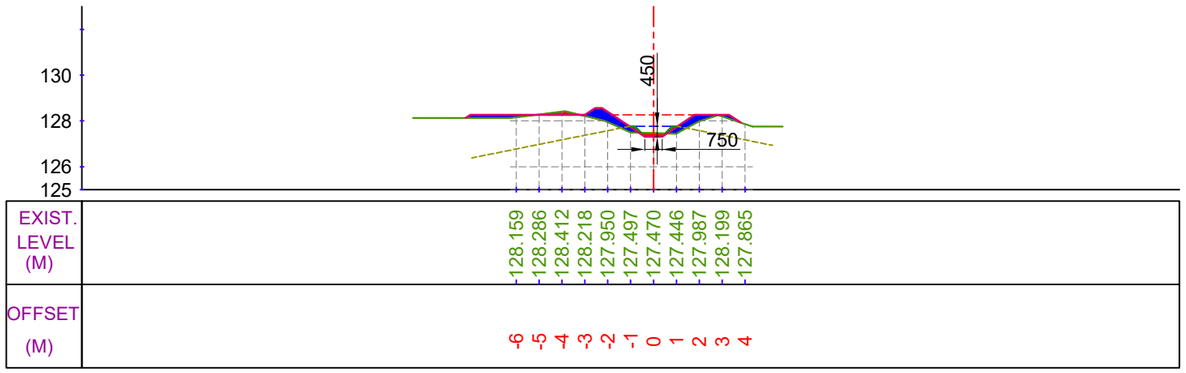
CUTTING AREA (SQ.M) = 0.039
FILLING AREA (SQ.M) = 2.932

CH. (KM):- 8+900
DESIGNED BED LEVEL = 127.349 M



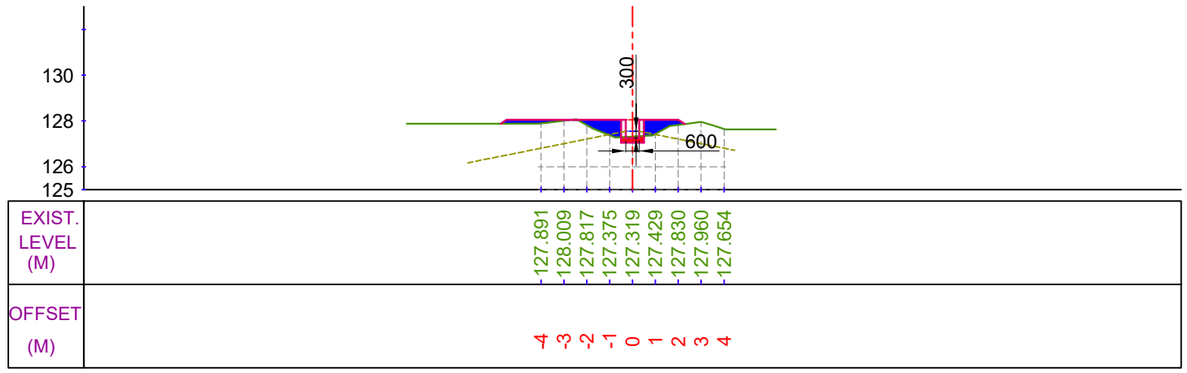
CUTTING AREA (SQ.M) = 0.534
FILLING AREA (SQ.M) = 1.682

CH. (KM):- 9+100
DESIGNED BED LEVEL = 127.283 M



CUTTING AREA (SQ.M) = 0.300
FILLING AREA (SQ.M) = 1.710

CH. (KM):- 9+000
DESIGNED BED LEVEL = 127.316 M



CUTTING AREA (SQ.M) = 0.273
FILLING AREA (SQ.M) = 2.014

CH. (KM):- 9+200
DESIGNED BED LEVEL = 127.249 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

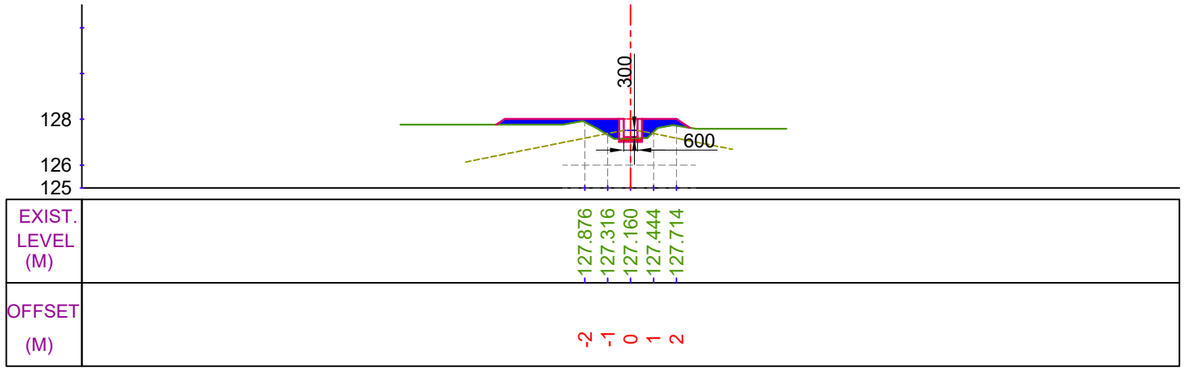
H.G. LINE

Prepared by :-

WAPCOS LTD.

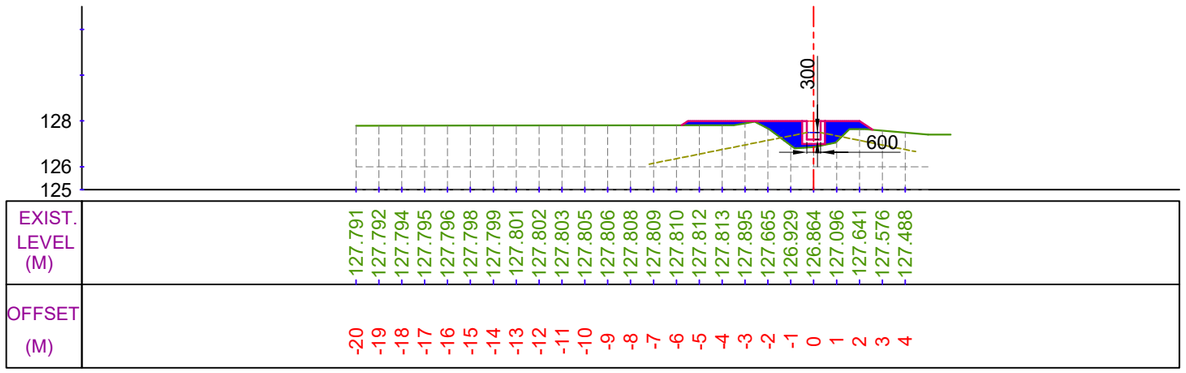
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 23 of 24

X SECTION OF KHAIRA MR.



CUTTING AREA (SQ.M) = 0.144
FILLING AREA (SQ.M) = 2.488

CH. (KM):- 9+300
DESIGNED BED LEVEL = 127.216 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.053

CH. (KM):- 9+373
DESIGNED BED LEVEL = 127.192 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

H.G. LINE

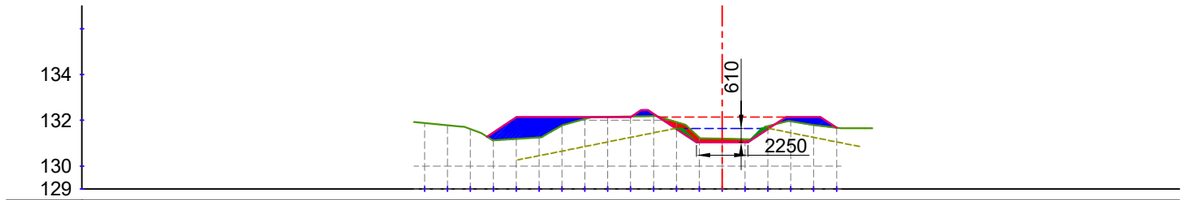
Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ XSEC- 24 of 24

GAMHARIYA MINOR

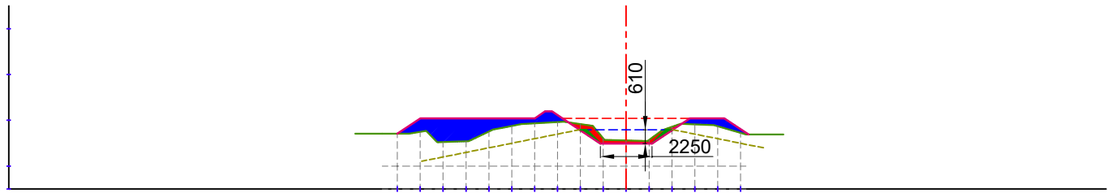
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	131.876	131.783	131.613	131.123	131.189	131.254	131.771	132.052	132.148	132.165	132.182	131.923	131.244	131.193	131.173	131.747	131.952	131.791	131.671		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5		

CUTTING AREA (SQ.M) = 0.789
FILLING AREA (SQ.M) = 3.324

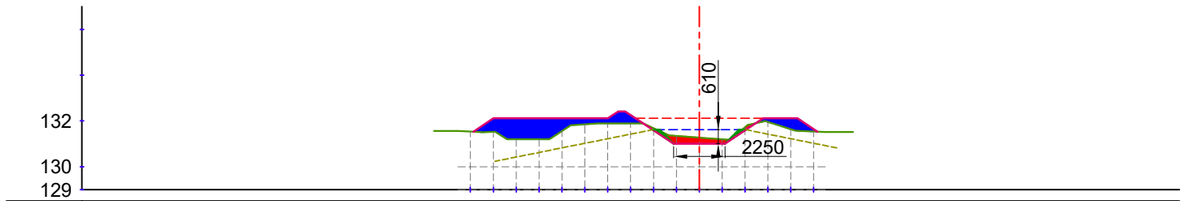
CH. (KM):- 0+100
DESIGNED BED LEVEL = 131.035 M



EXIST. LEVEL (M)	131.412	131.498	131.050	131.078	131.506	131.752	131.868	131.925	131.836	131.210	131.121	131.141	131.716	131.825	131.744	131.453					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5					

CUTTING AREA (SQ.M) = 0.874
FILLING AREA (SQ.M) = 4.860

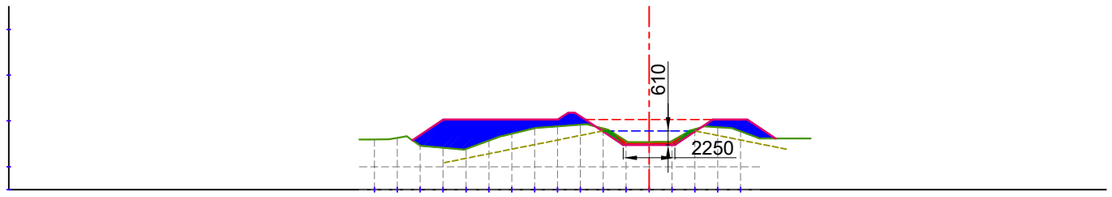
CH. (KM):- 0+300
DESIGNED BED LEVEL = 130.978 M



EXIST. LEVEL (M)	131.534	131.522	131.195	131.198	131.565	131.853	131.889	131.889	131.687	131.351	131.273	131.197	131.729	131.954	131.635	131.539					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5					

CUTTING AREA (SQ.M) = 0.777
FILLING AREA (SQ.M) = 4.682

CH. (KM):- 0+200
DESIGNED BED LEVEL = 131.006 M



EXIST. LEVEL (M)	131.193	131.260	130.914	130.828	130.778	131.140	131.445	131.681	131.766	131.841	131.671	131.118	131.080	131.129	131.638	131.726	131.542				
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4				

CUTTING AREA (SQ.M) = 0.539
FILLING AREA (SQ.M) = 6.596

CH. (KM):- 0+400
DESIGNED BED LEVEL = 130.949 M

LEGEND

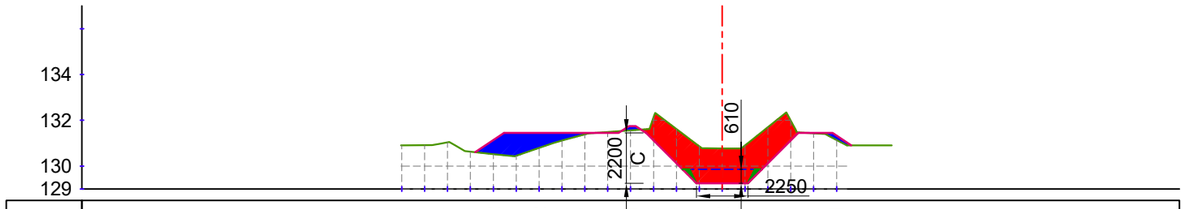
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 1 of 16

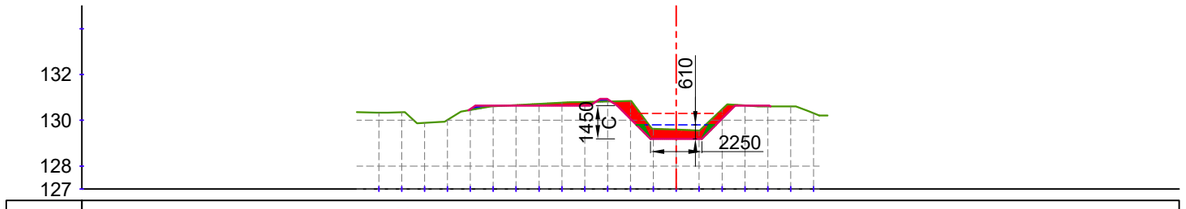
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	130.908	130.909	131.037	130.626	130.522	130.447	130.792	131.110	131.383	131.487	131.561	132.129	131.618	130.865	130.772	130.903	131.698	131.979	131.430	131.141
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 9.316
FILLING AREA (SQ.M) = 2.932

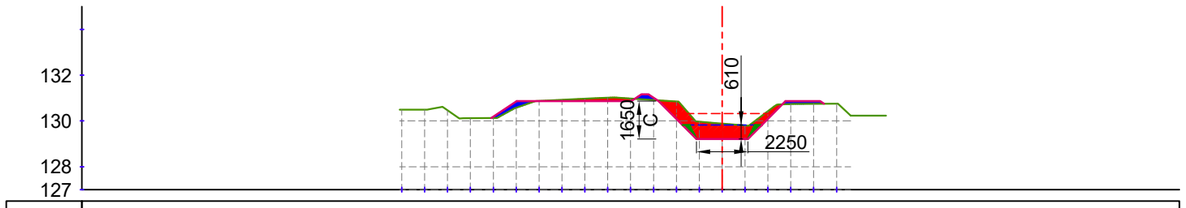
CH. (KM):- 0+500
DESIGNED BED LEVEL = 129.245 M



EXIST. LEVEL (M)	130.335	130.352	129.884	130.016	130.446	130.613	130.665	130.717	130.769	130.801	130.819	130.838	129.627	129.590	129.553	130.474	130.648	130.609	130.608	130.308
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 2.555
FILLING AREA (SQ.M) = 0.174

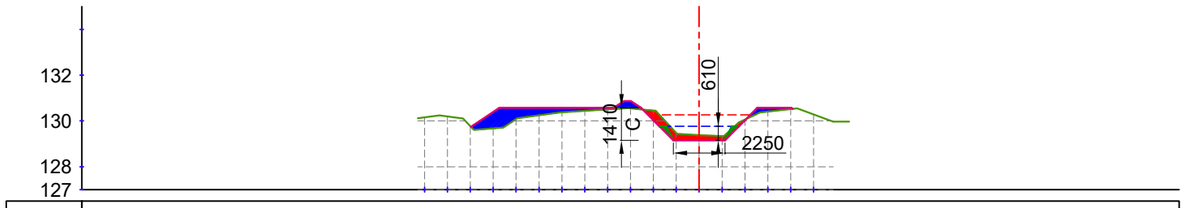
CH. (KM):- 0+700
DESIGNED BED LEVEL = 129.188 M



EXIST. LEVEL (M)	130.498	130.496	130.463	130.116	130.126	130.573	130.872	130.920	130.968	131.017	130.983	130.915	130.846	129.966	129.882	129.799	130.425	130.740	130.751	130.757
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 3.226
FILLING AREA (SQ.M) = 0.666

CH. (KM):- 0+600
DESIGNED BED LEVEL = 129.216 M



EXIST. LEVEL (M)	130.160	130.197	129.775	129.675	130.078	130.247	130.379	130.440	130.501	130.549	130.455	129.463	129.384	129.334	130.062	130.407	130.521	130.290
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 1.005
FILLING AREA (SQ.M) = 2.596

CH. (KM):- 0+800
DESIGNED BED LEVEL = 129.159 M

LEGEND

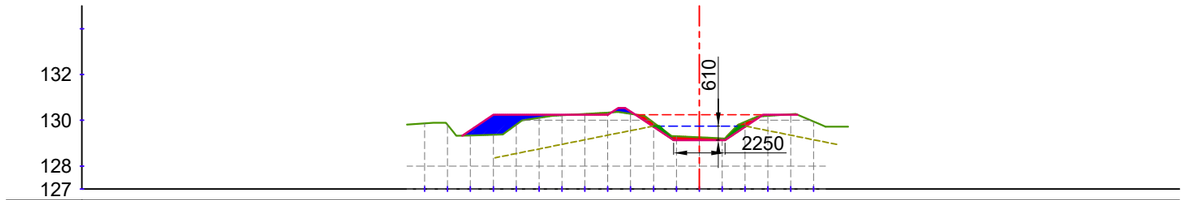
	CUT AREA		F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 2 of 16

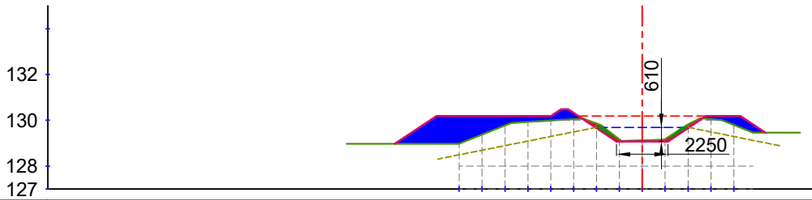
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	129.868	129.806	129.339	129.370	129.812	130.105	130.217	130.276	130.336	130.279	129.904	129.305	129.256	129.207	129.934	130.193	130.258	129.941			
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5			

CUTTING AREA (SQ.M) = 0.730
FILLING AREA (SQ.M) = 1.787

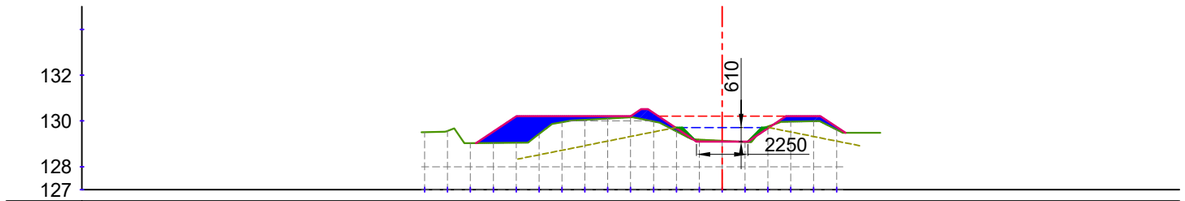
CH. (KM):- 0+900
DESIGNED BED LEVEL = 129.130 M



EXIST. LEVEL (M)	128.974	129.375	129.775	129.928	129.990	130.051	129.860	129.164	129.121	129.171	129.816	130.049	129.797								
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4								

CUTTING AREA (SQ.M) = 0.435
FILLING AREA (SQ.M) = 5.586

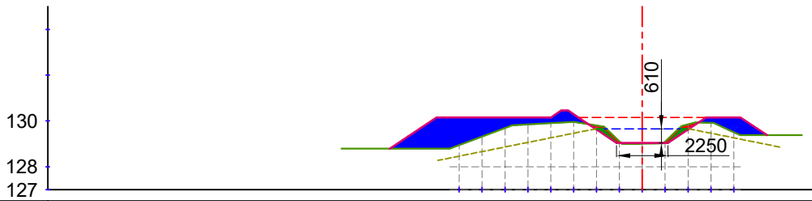
CH. (KM):- 1+100
DESIGNED BED LEVEL = 129.073 M



EXIST. LEVEL (M)	129.509	129.570	129.032	129.042	129.052	129.437	129.946	130.046	130.105	130.163	129.983	129.547	129.182	129.134	129.085	129.756	129.968	129.986	129.620		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5		

CUTTING AREA (SQ.M) = 0.091
FILLING AREA (SQ.M) = 4.159

CH. (KM):- 1+000
DESIGNED BED LEVEL = 129.102 M



EXIST. LEVEL (M)	128.948	129.322	129.695	129.845	129.903	129.962	129.803	129.102	129.002	129.094	129.851	129.918	129.510								
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4								

CUTTING AREA (SQ.M) = 0.386
FILLING AREA (SQ.M) = 6.710

CH. (KM):- 1+200
DESIGNED BED LEVEL = 129.045 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

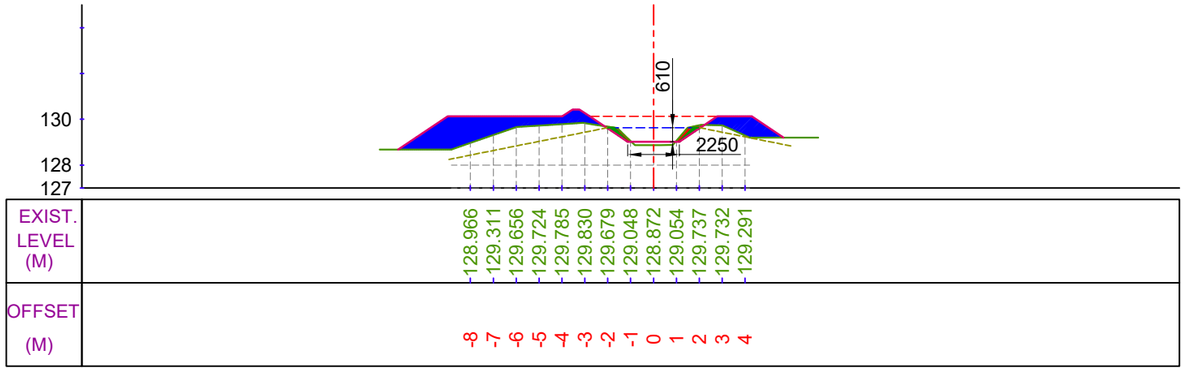
H.G. LINE

Prepared by :-

WAPCOS LTD.

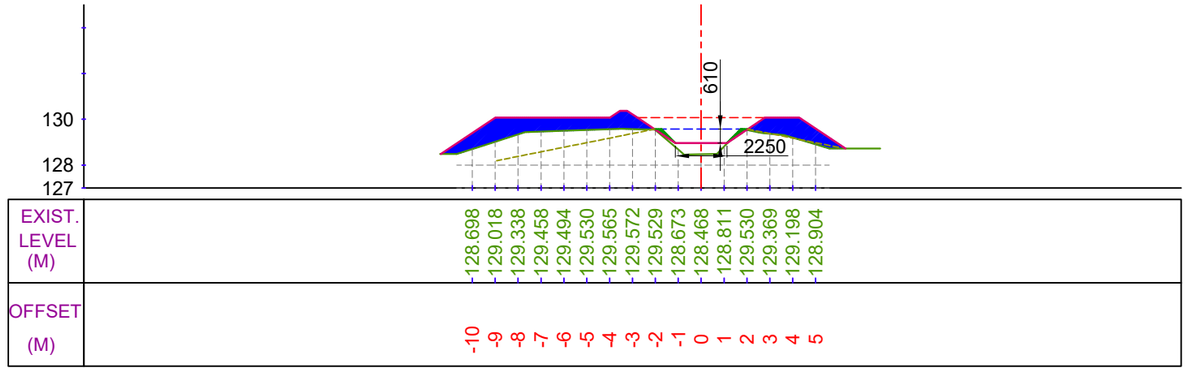
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 3 of 16

X SECTION OF GAMHARIA MR.



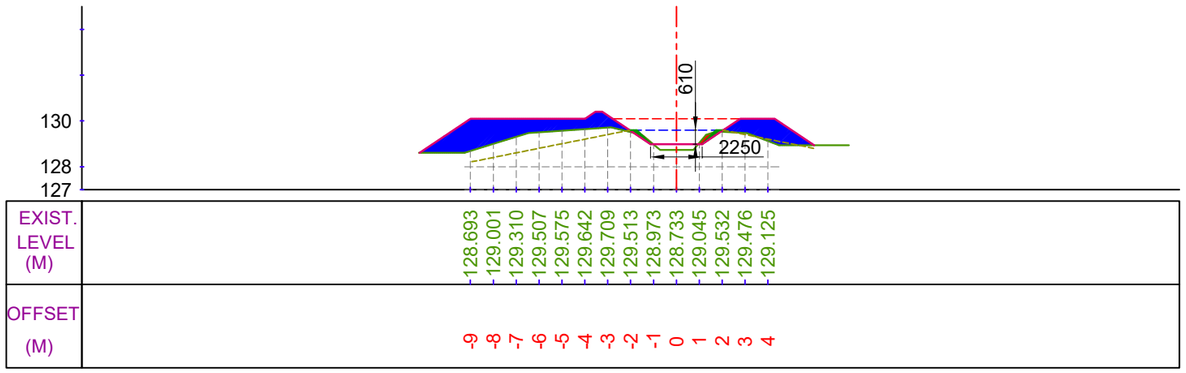
CUTTING AREA (SQ.M) = 0.275
FILLING AREA (SQ.M) = 7.728

CH. (KM):- 1+300
DESIGNED BED LEVEL = 129.016 M



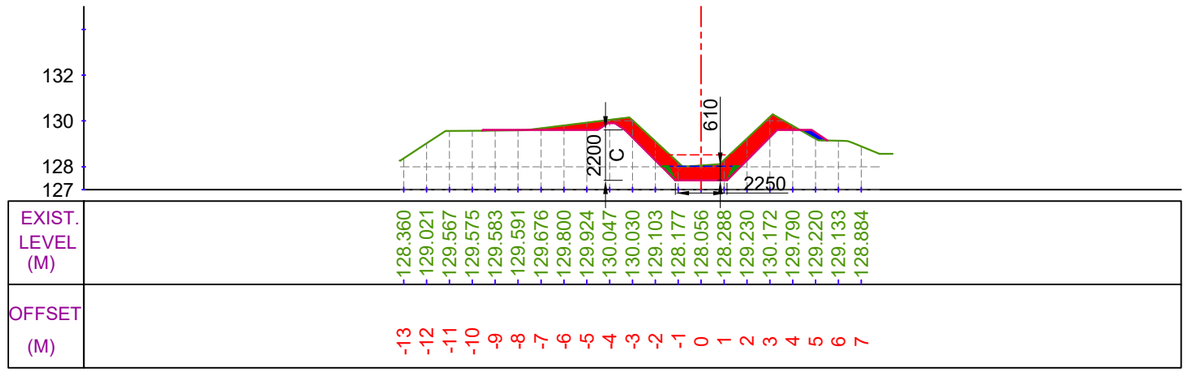
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.195

CH. (KM):- 1+500
DESIGNED BED LEVEL = 128.959 M



CUTTING AREA (SQ.M) = 0.124
FILLING AREA (SQ.M) = 8.903

CH. (KM):- 1+400
DESIGNED BED LEVEL = 128.988 M



CUTTING AREA (SQ.M) = 6.321
FILLING AREA (SQ.M) = 0.242

CH. (KM):- 1+600
DESIGNED BED LEVEL = 127.406 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

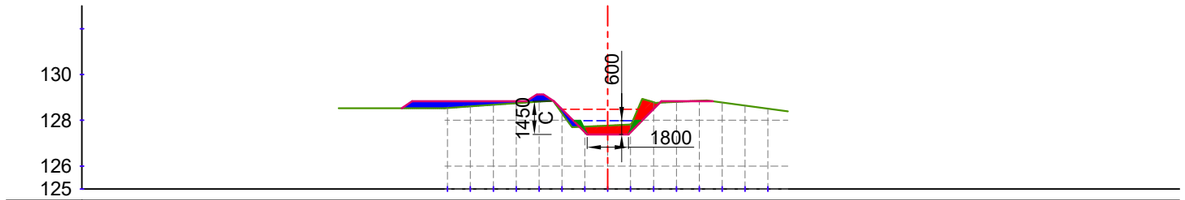
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 4 of 16

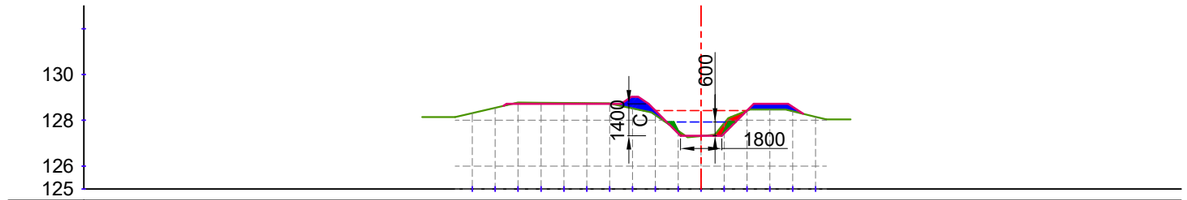
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	128.538	128.606	128.673	128.741	128.809	128.304	127.723	127.770	127.818	128.789	128.800	128.847	128.773	128.639	128.505			
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7			

CUTTING AREA (SQ.M) = 1.365
FILLING AREA (SQ.M) = 1.615

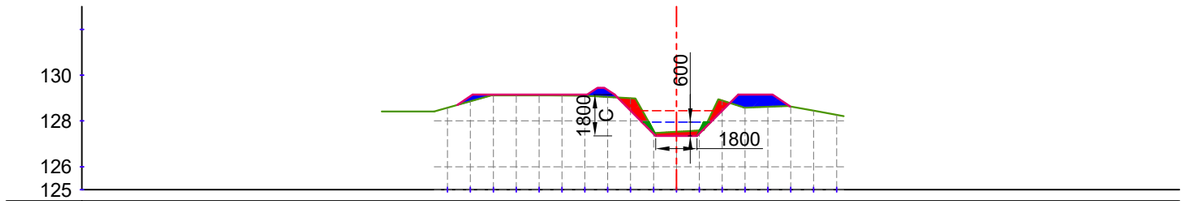
CH. (KM):- 1+700
DESIGNED BED LEVEL = 127.378 M



EXIST. LEVEL (M)	128.315	128.543	128.770	128.762	128.754	128.747	128.732	128.518	128.224	127.534	127.315	127.865	128.418	128.469	128.395	128.150		
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5		

CUTTING AREA (SQ.M) = 0.486
FILLING AREA (SQ.M) = 1.173

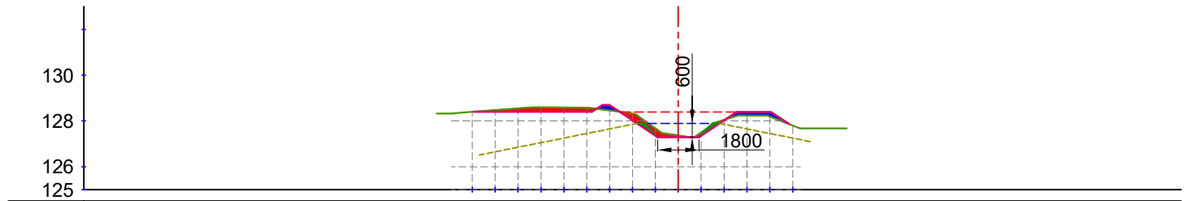
CH. (KM):- 1+900
DESIGNED BED LEVEL = 127.321 M



EXIST. LEVEL (M)	128.578	128.862	129.121	129.118	129.116	129.113	129.101	129.045	128.989	127.586	127.529	127.585	128.895	128.586	128.623	128.633	128.450	128.268
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 1.248
FILLING AREA (SQ.M) = 1.769

CH. (KM):- 1+800
DESIGNED BED LEVEL = 127.349 M



EXIST. LEVEL (M)	128.397	128.474	128.552	128.596	128.587	128.579	128.458	128.321	127.675	127.368	127.501	128.044	128.239	128.192	127.804			
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5			

CUTTING AREA (SQ.M) = 1.342
FILLING AREA (SQ.M) = 0.516

CH. (KM):- 2+000
DESIGNED BED LEVEL = 127.292 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

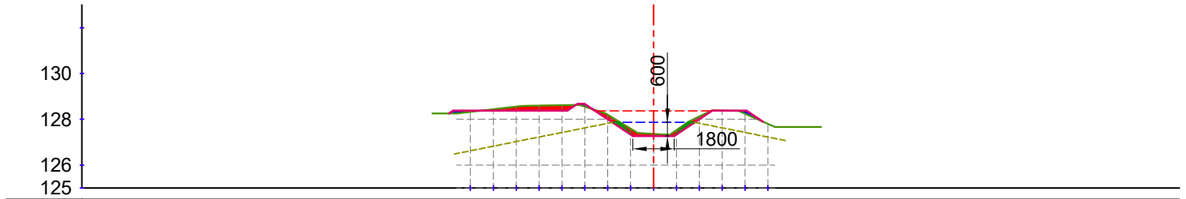
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 5 of 16

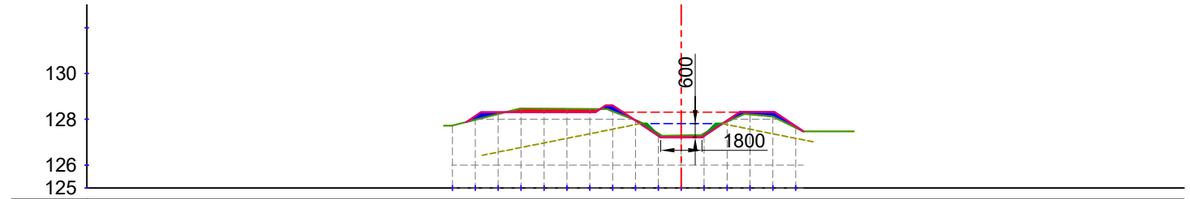
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	128.326	128.439	128.551	128.598	128.615	128.548	128.204	127.594	127.363	127.525	128.119	128.381	128.240	127.799
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 1.297
FILLING AREA (SQ.M) = 0.225

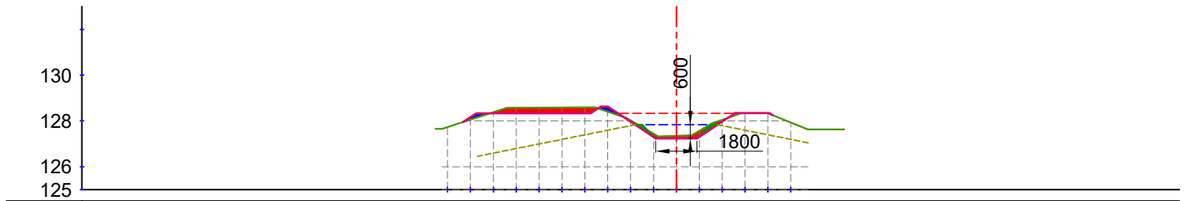
CH. (KM):- 2+100
DESIGNED BED LEVEL = 127.264 M



EXIST. LEVEL (M)	127.728	127.977	128.225	128.463	128.458	128.452	128.446	128.351	127.965	127.379	127.292	127.380	127.889	128.213	128.116	127.629
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.757
FILLING AREA (SQ.M) = 0.855

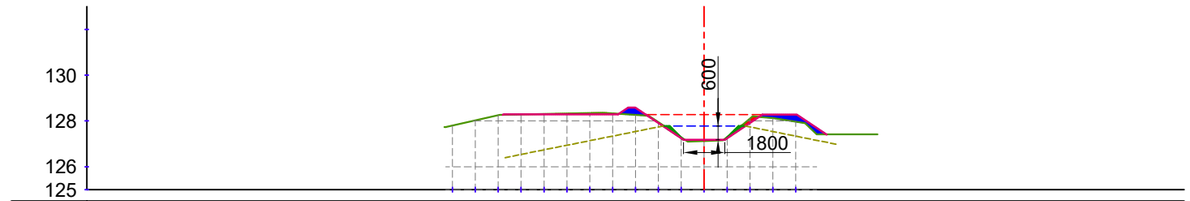
CH. (KM):- 2+300
DESIGNED BED LEVEL = 127.206 M



EXIST. LEVEL (M)	127.730	128.054	128.378	128.574	128.582	128.589	128.597	128.411	128.021	127.443	127.349	127.565	128.049	128.331	128.330	127.933
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 1.472
FILLING AREA (SQ.M) = 0.305

CH. (KM):- 2+200
DESIGNED BED LEVEL = 127.235 M



EXIST. LEVEL (M)	127.801	128.026	128.251	128.286	128.307	128.329	128.350	128.333	128.262	127.942	127.279	127.121	127.293	128.103	128.123	127.966
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4

CUTTING AREA (SQ.M) = 0.291
FILLING AREA (SQ.M) = 0.817

CH. (KM):- 2+400
DESIGNED BED LEVEL = 127.178 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

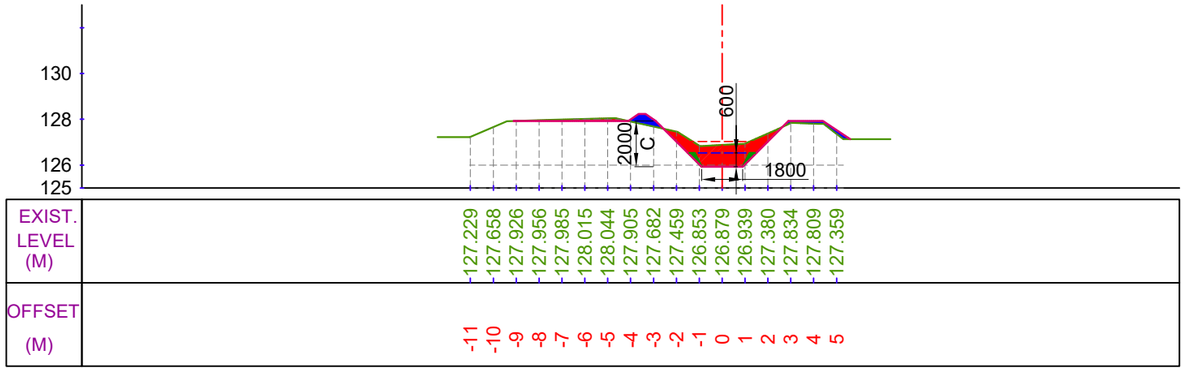
H.G. LINE

Prepared by :-

WAPCOS LTD.

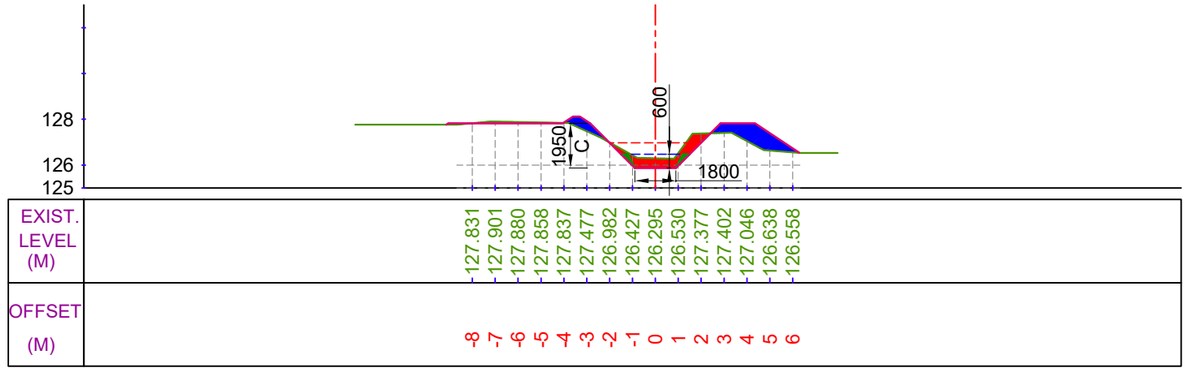
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 6 of 16

X SECTION OF GAMHARIA MR.



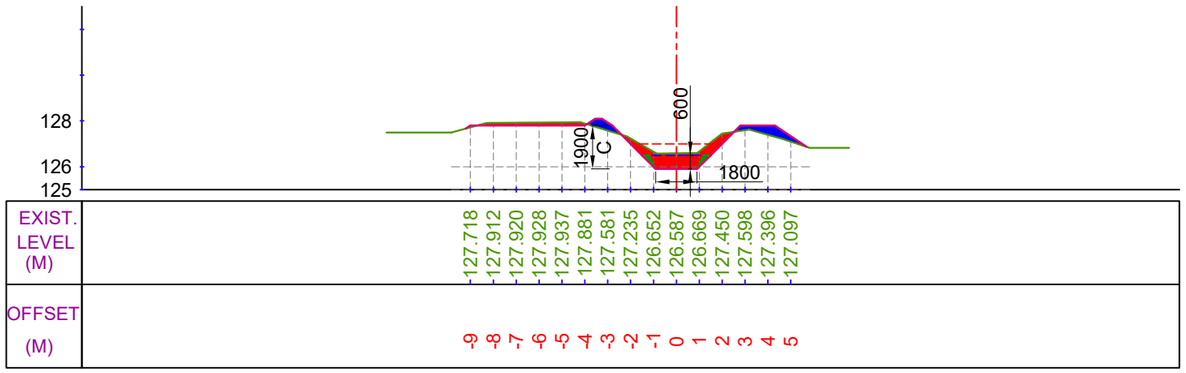
CUTTING AREA (SQ.M) = 3.508
FILLING AREA (SQ.M) = 0.788

CH. (KM):- 2+500
DESIGNED BED LEVEL = 125.929 M



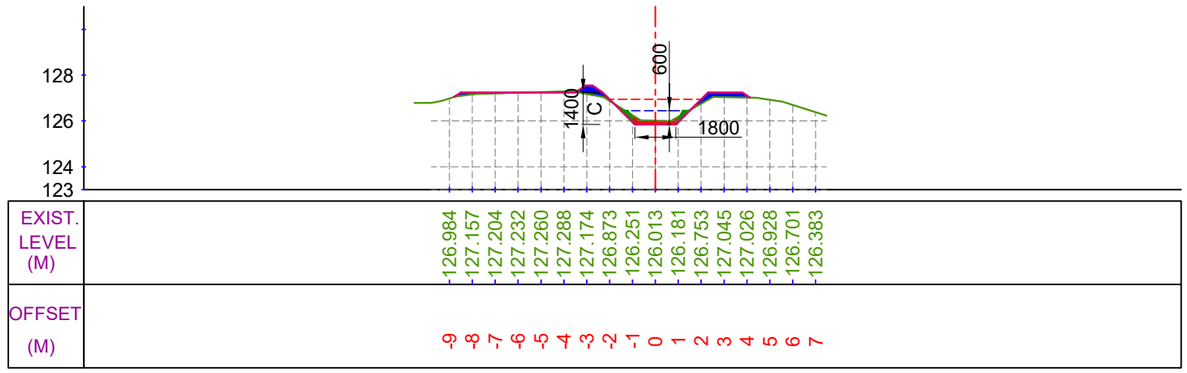
CUTTING AREA (SQ.M) = 1.841
FILLING AREA (SQ.M) = 2.668

CH. (KM):- 2+700
DESIGNED BED LEVEL = 125.872 M



CUTTING AREA (SQ.M) = 2.922
FILLING AREA (SQ.M) = 1.240

CH. (KM):- 2+600
DESIGNED BED LEVEL = 125.901 M



CUTTING AREA (SQ.M) = 0.494
FILLING AREA (SQ.M) = 1.010

CH. (KM):- 2+800
DESIGNED BED LEVEL = 125.844 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

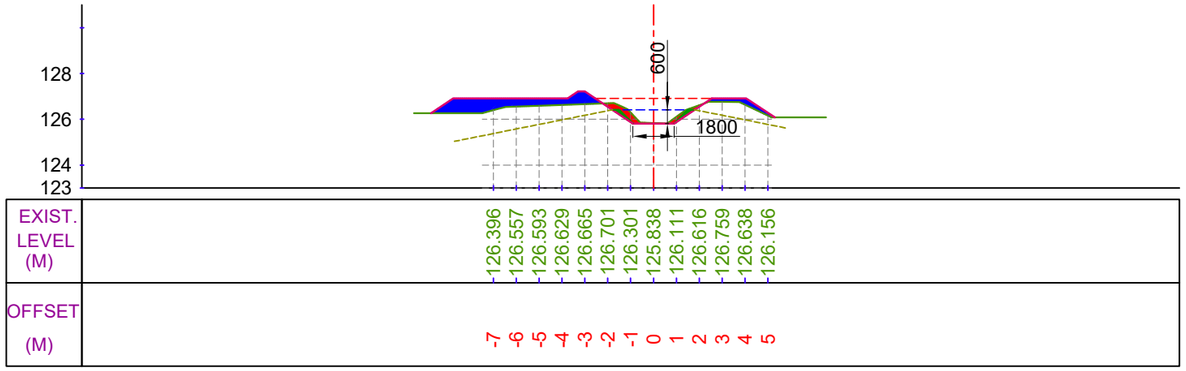
H.G. LINE

Prepared by :-

WAPCOS LTD.

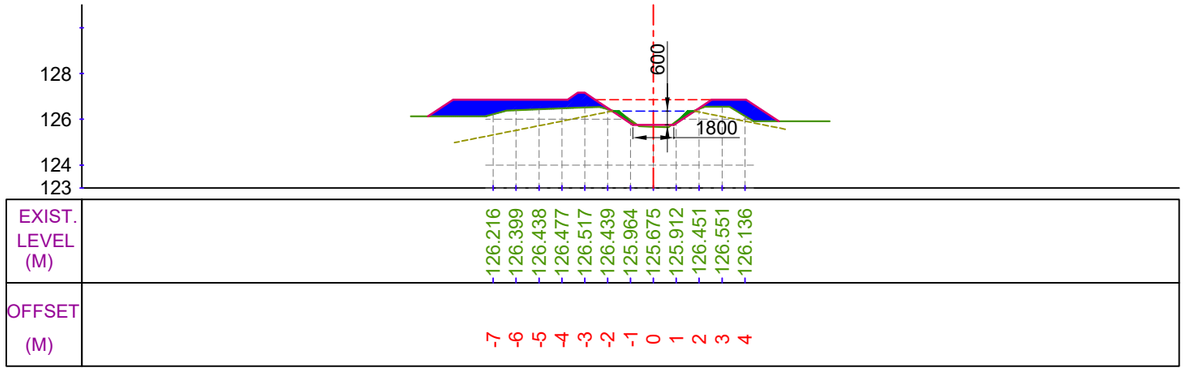
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 7 of 16

X SECTION OF GAMHARIA MR.



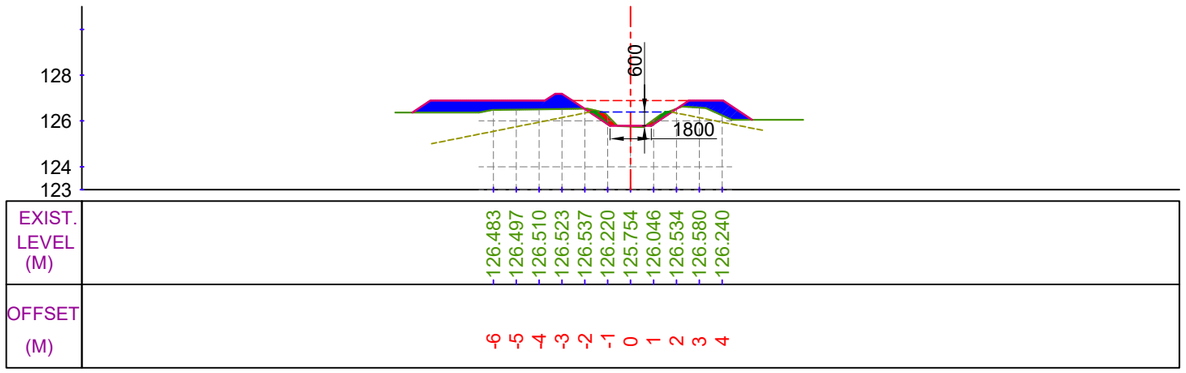
CUTTING AREA (SQ.M) = 0.595
FILLING AREA (SQ.M) = 3.613

CH. (KM):- 2+900
DESIGNED BED LEVEL = 125.815 M



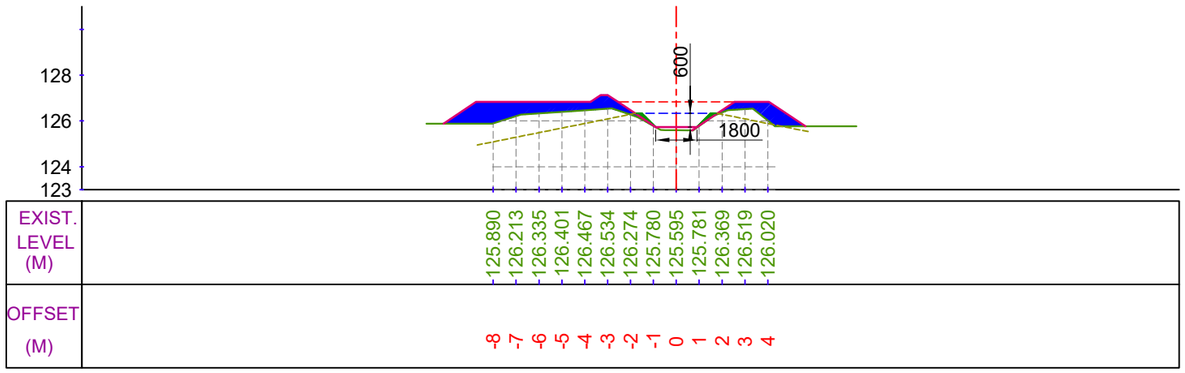
CUTTING AREA (SQ.M) = 0.061
FILLING AREA (SQ.M) = 5.222

CH. (KM):- 3+100
DESIGNED BED LEVEL = 125.758 M



CUTTING AREA (SQ.M) = 0.350
FILLING AREA (SQ.M) = 4.375

CH. (KM):- 3+000
DESIGNED BED LEVEL = 125.786 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.070

CH. (KM):- 3+200
DESIGNED BED LEVEL = 125.729 M

LEGEND

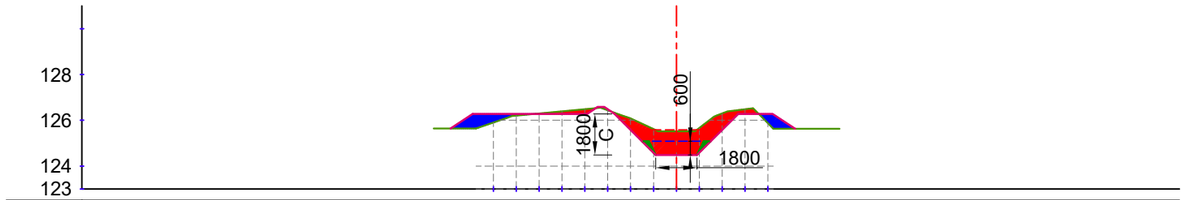
CUT AREA		
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 8 of 16

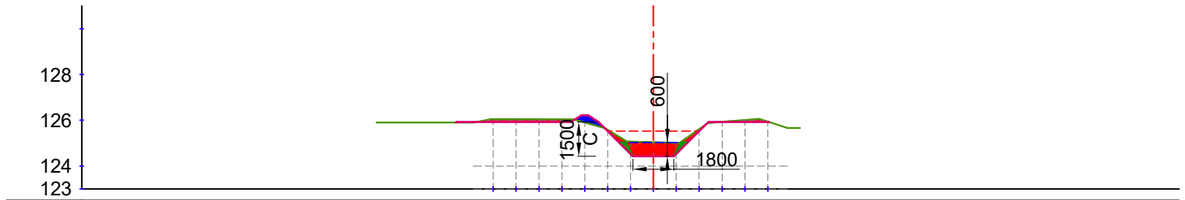
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	125.901	126.201	126.295	126.390	126.484	126.437	126.075	125.619	125.516	125.667	126.298	126.487	125.868
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4

CUTTING AREA (SQ.M) = 4.580
FILLING AREA (SQ.M) = 1.572

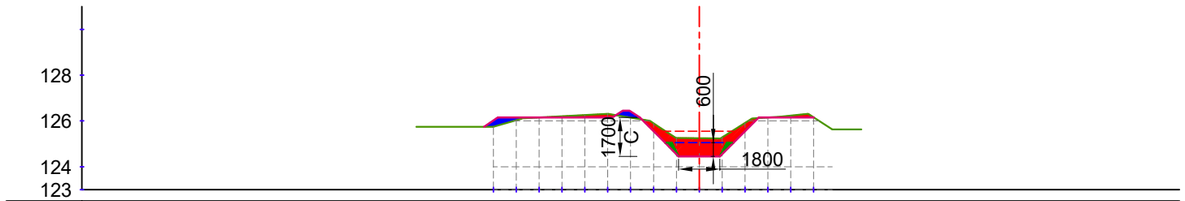
CH. (KM):- 3+300
DESIGNED BED LEVEL = 124.481 M



EXIST. LEVEL	126.049	126.046	126.044	126.041	125.902	125.584	125.068	125.042	125.016	125.612	125.931	126.012	125.941
OFFSET	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 2.193
FILLING AREA (SQ.M) = 0.324

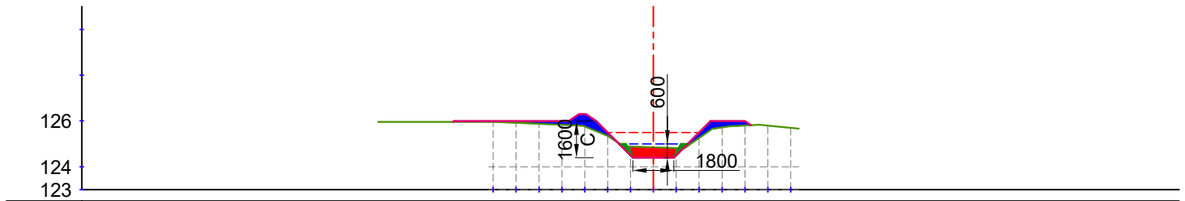
CH. (KM):- 3+500
DESIGNED BED LEVEL = 124.424 M



EXIST. LEVEL (M)	125.748	126.034	126.152	126.205	126.258	126.310	126.144	125.898	125.259	125.248	125.287	125.911	126.148	126.231	126.158
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 3.118
FILLING AREA (SQ.M) = 0.554

CH. (KM):- 3+400
DESIGNED BED LEVEL = 124.452 M



EXIST. LEVEL	125.955	125.921	125.878	125.835	125.765	125.349	124.882	124.849	124.815	125.258	125.723	125.802	125.802	125.698
OFFSET	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.920
FILLING AREA (SQ.M) = 1.757

CH. (KM):- 3+600
DESIGNED BED LEVEL = 124.395 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

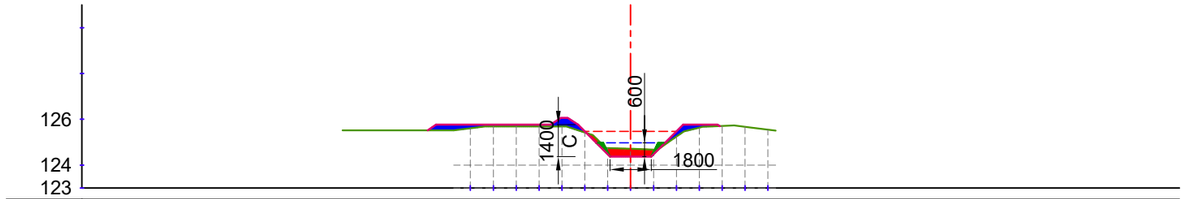
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 9 of 16

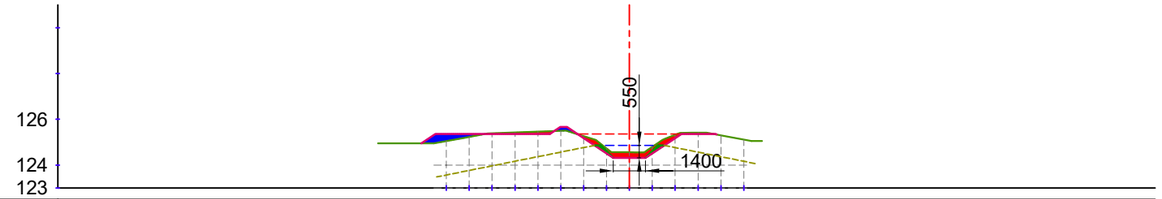
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	125.610	125.684	125.684	125.683	125.683	125.425	124.744	124.709	124.675	125.240	125.634	125.708	125.672	125.550
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.755
FILLING AREA (SQ.M) = 1.493

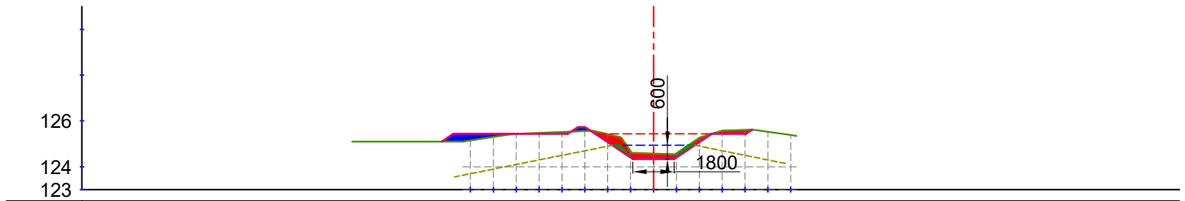
CH. (KM):- 3+700
DESIGNED BED LEVEL = 124.366 M



EXIST. LEVEL (M)	125.048	125.229	125.381	125.419	125.456	125.493	125.260	124.731	124.560	124.796	125.321	125.411	125.298	125.111
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 1.108
FILLING AREA (SQ.M) = 0.673

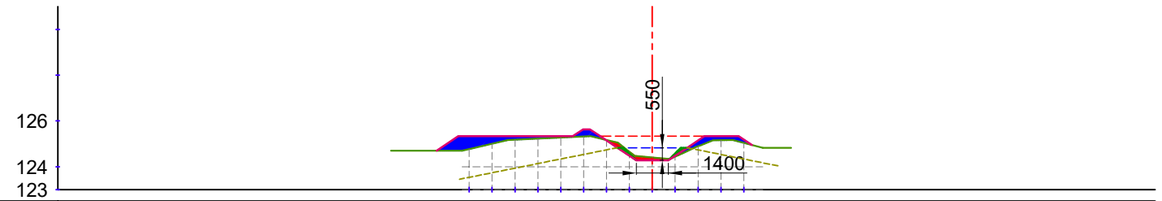
CH. (KM):- 3+900
DESIGNED BED LEVEL = 124.309 M



EXIST. LEVEL (M)	125.151	125.302	125.435	125.476	125.517	125.558	125.418	124.678	124.574	124.588	125.263	125.580	125.609	125.525	125.386
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 1.454
FILLING AREA (SQ.M) = 0.712

CH. (KM):- 3+800
DESIGNED BED LEVEL = 124.338 M



EXIST. LEVEL (M)	124.772	125.004	125.177	125.224	125.271	125.318	125.167	124.660	124.407	124.440	124.893	125.155	125.040
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4

CUTTING AREA (SQ.M) = 0.319
FILLING AREA (SQ.M) = 2.353

CH. (KM):- 4+000
DESIGNED BED LEVEL = 124.281 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

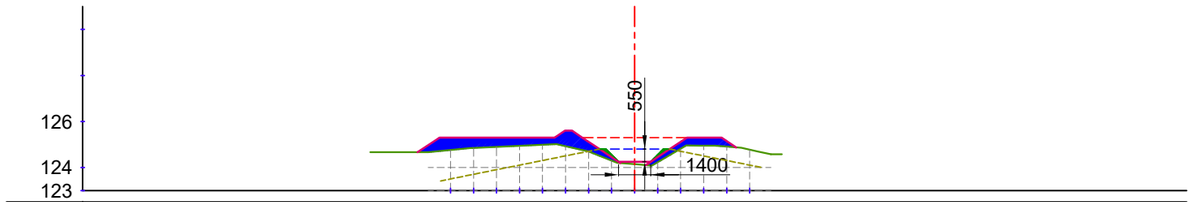
H.G. LINE

Prepared by :-

WAPCOS LTD.

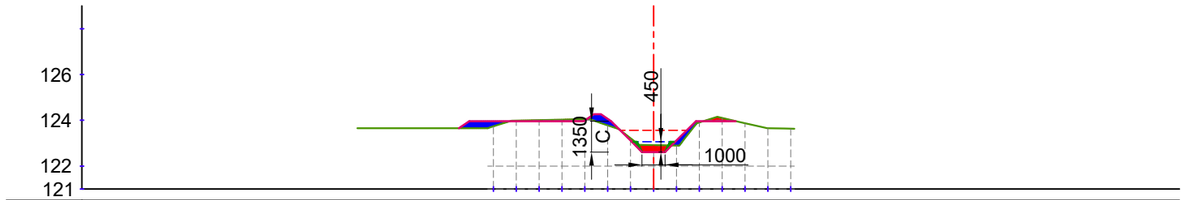
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 10 of 16

X SECTION OF GAMHARIA MR.



| | | |

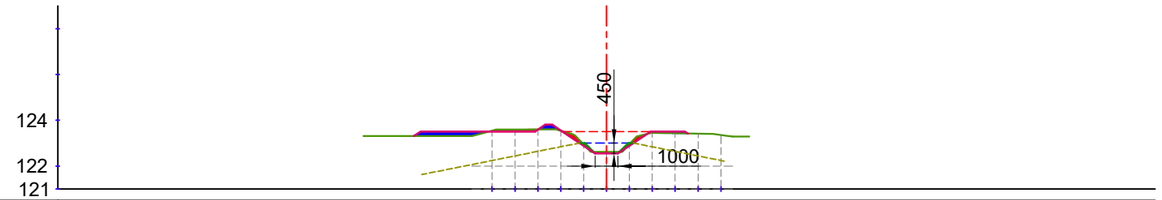
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	123.734	123.983	124.006	124.029	124.052	123.781	123.209	122.912	123.898	123.898	124.099	123.871	123.649	123.630
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6

CUTTING AREA (SQ.M) = 0.669
FILLING AREA (SQ.M) = 1.046

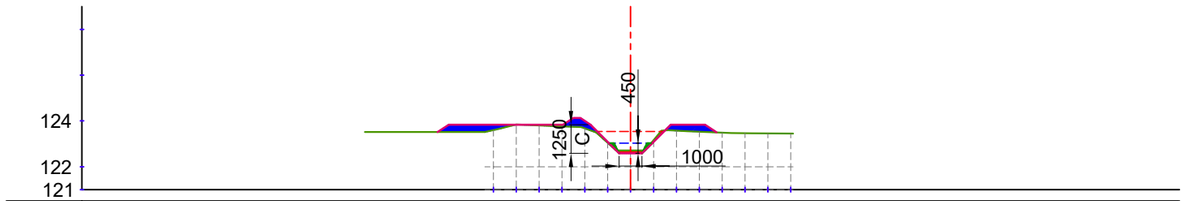
CH. (KM):- 4+500
DESIGNED BED LEVEL = 122.614 M



EXIST. LEVEL (M)	123.547	123.599	123.603	123.539	122.943	122.621	122.951	123.448	123.429	123.411	123.354
OFFSET (M)	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.350
FILLING AREA (SQ.M) = 0.816

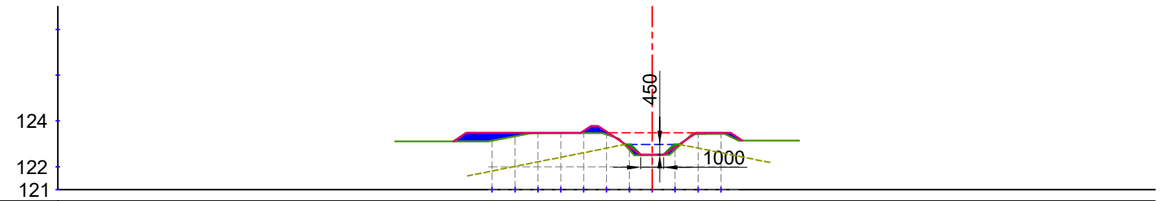
CH. (KM):- 4+700
DESIGNED BED LEVEL = 122.557 M



EXIST. LEVEL (M)	123.601	123.839	123.802	123.763	123.673	123.040	122.712	123.161	123.577	123.534	123.491	123.468	123.457	123.446
OFFSET (M)	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 0.191
FILLING AREA (SQ.M) = 1.854

CH. (KM):- 4+600
DESIGNED BED LEVEL = 122.585 M



EXIST. LEVEL (M)	123.135	123.329	123.464	123.468	123.472	123.412	122.737	122.511	122.745	123.430	123.439
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3

CUTTING AREA (SQ.M) = 0.026
FILLING AREA (SQ.M) = 1.394

CH. (KM):- 4+800
DESIGNED BED LEVEL = 122.528 M

LEGEND

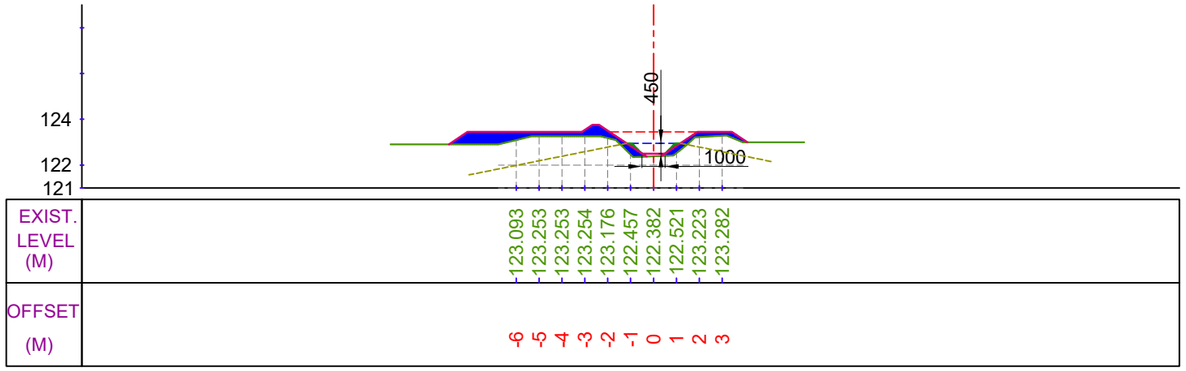
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

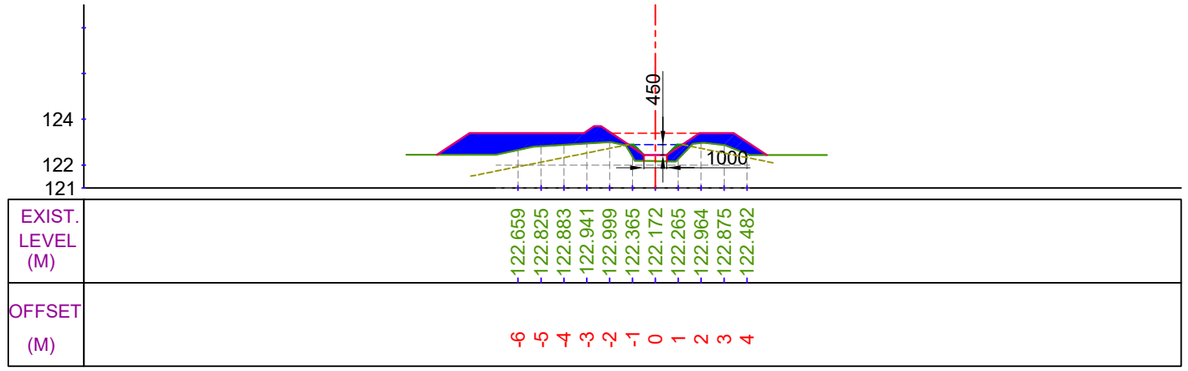
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 12 of 16

X SECTION OF GAMHARIA MR.



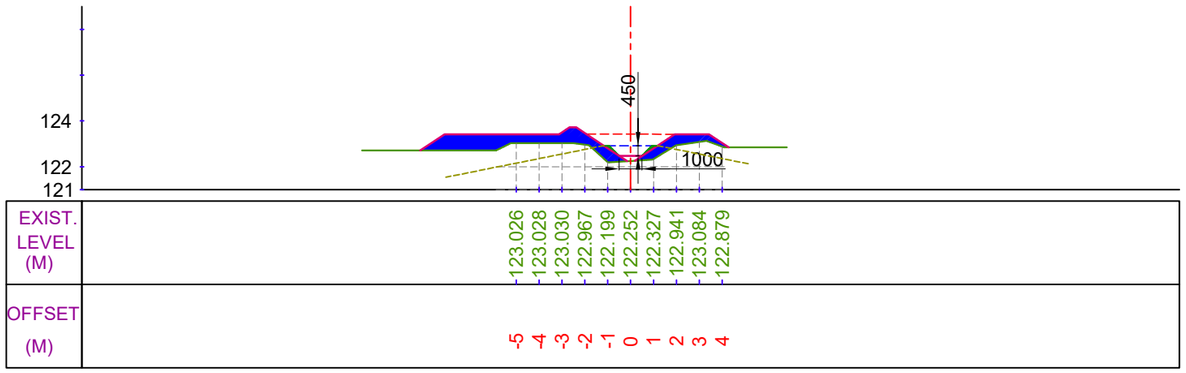
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.566

CH. (KM):- 4+900
DESIGNED BED LEVEL = 122.500 M



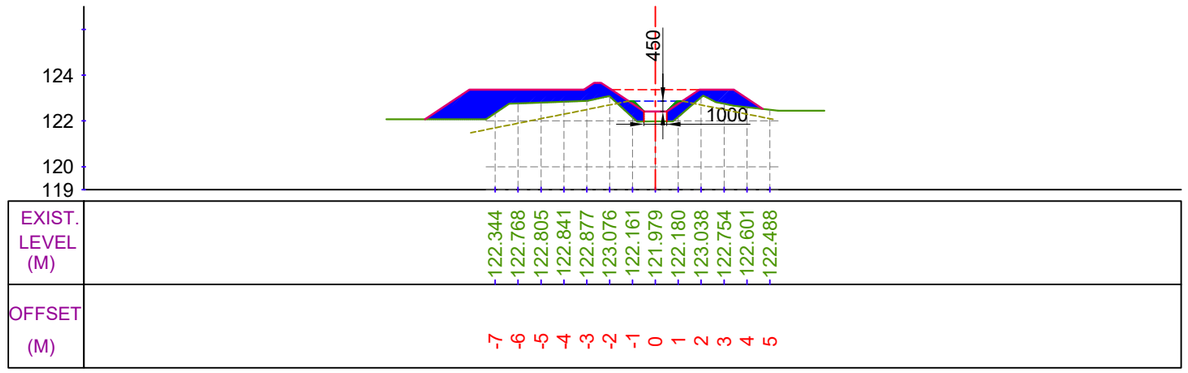
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 7.246

CH. (KM):- 5+100
DESIGNED BED LEVEL = 122.442 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.003

CH. (KM):- 5+000
DESIGNED BED LEVEL = 122.471 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.273

CH. (KM):- 5+200
DESIGNED BED LEVEL = 122.414 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

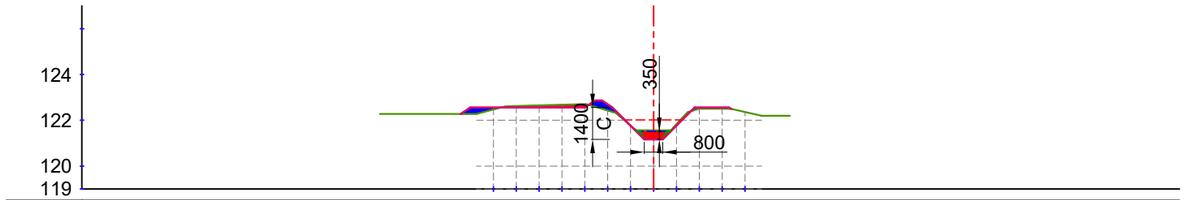
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 13 of 16

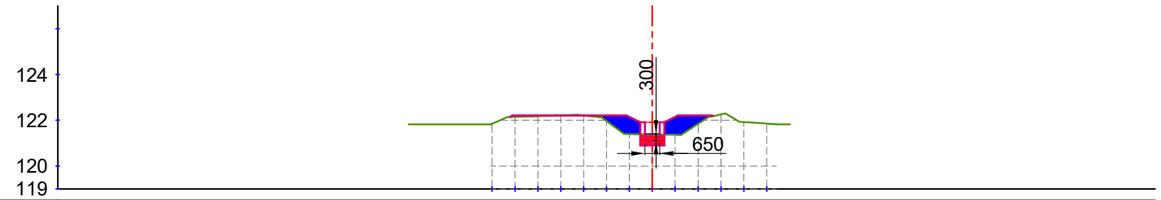
X SECTION OF GAMHARIA MR.



EXIST. LEVEL (M)	122.473	122.620	122.647	122.674	122.701	122.428	121.768	121.562	121.823	122.506	122.501	122.357	
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	

CUTTING AREA (SQ.M) = 0.801
FILLING AREA (SQ.M) = 0.716

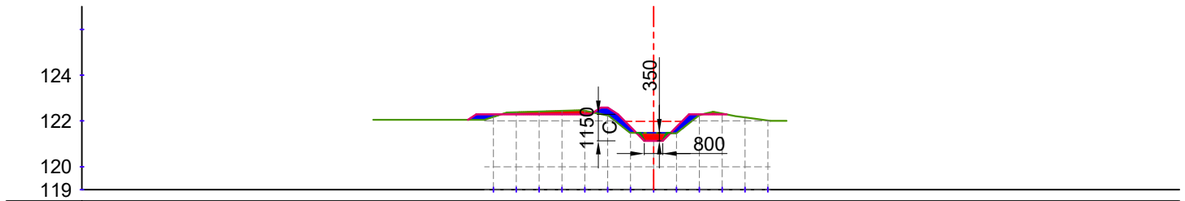
CH. (KM):- 5+300
DESIGNED BED LEVEL = 121.165 M



EXIST. LEVEL (M)	121.846	122.149	122.181	122.213	122.208	121.970	121.399	121.382	121.364	121.838	122.257	121.920	121.853
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.514
FILLING AREA (SQ.M) = 2.105

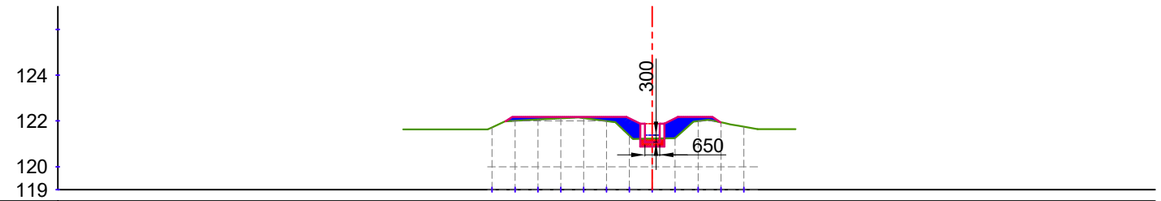
CH. (KM):- 5+500
DESIGNED BED LEVEL = 121.108 M



EXIST. LEVEL (M)	122.176	122.383	122.412	122.440	122.443	122.238	121.484	121.473	121.463	122.253	122.326	122.154	122.021
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5

CUTTING AREA (SQ.M) = 0.889
FILLING AREA (SQ.M) = 1.045

CH. (KM):- 5+400
DESIGNED BED LEVEL = 121.137 M



EXIST. LEVEL (M)	121.721	122.007	122.060	122.113	122.125	121.998	121.367	121.228	121.259	121.995	121.938	121.748	
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	

CUTTING AREA (SQ.M) = 0.369
FILLING AREA (SQ.M) = 2.156

CH. (KM):- 5+600
DESIGNED BED LEVEL = 121.077 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

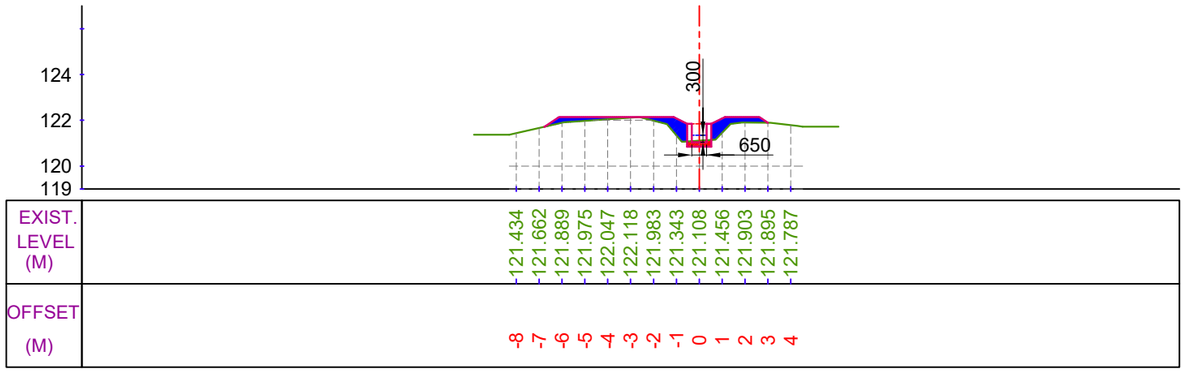
H.G. LINE

Prepared by :-

WAPCOS LTD.

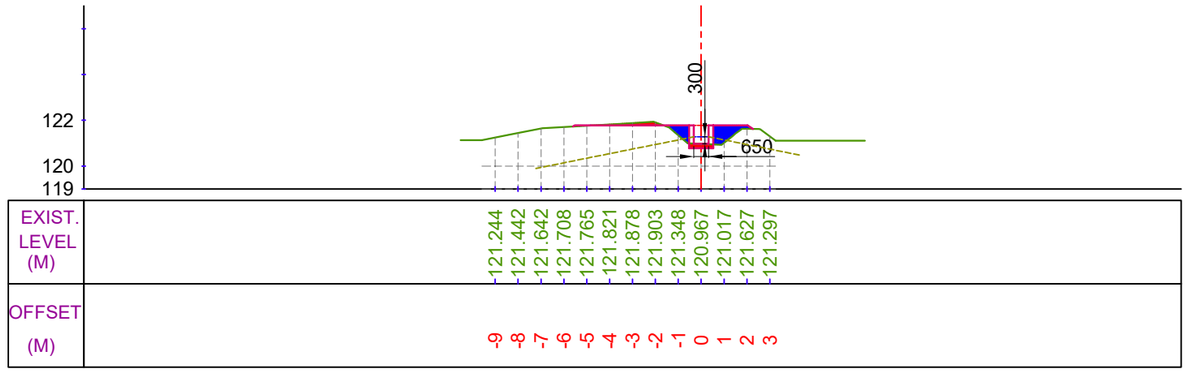
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 14 of 16

X SECTION OF GAMHARIA MR.



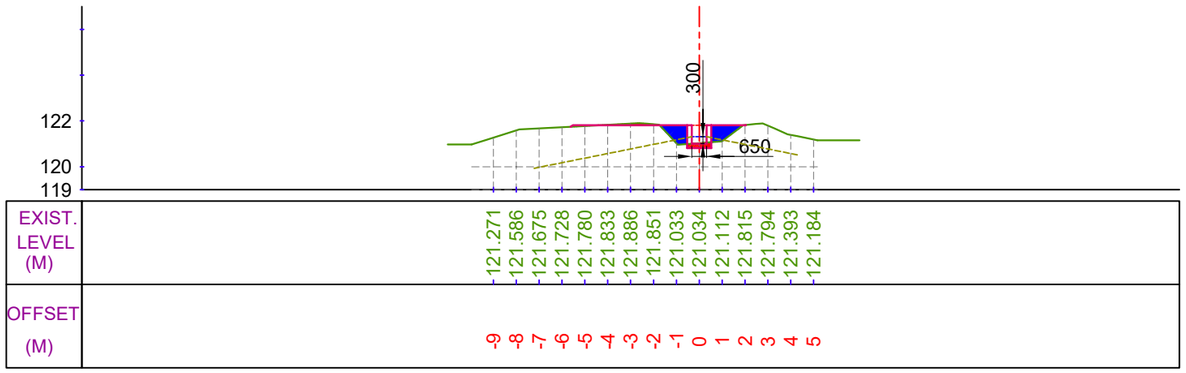
CUTTING AREA (SQ.M) = 0.277
FILLING AREA (SQ.M) = 2.223

CH. (KM):- 5+700
DESIGNED BED LEVEL = 121.044 M



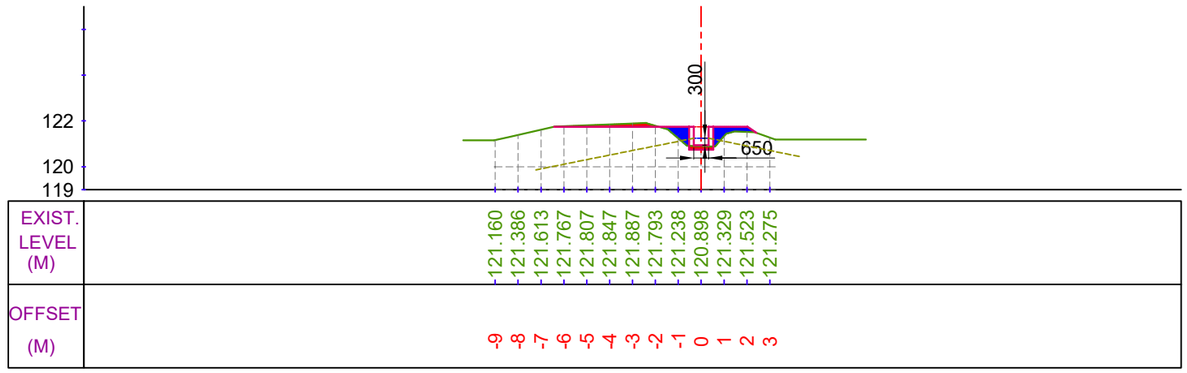
CUTTING AREA (SQ.M) = 0.440
FILLING AREA (SQ.M) = 1.230

CH. (KM):- 5+900
DESIGNED BED LEVEL = 120.977 M



CUTTING AREA (SQ.M) = 0.369
FILLING AREA (SQ.M) = 1.381

CH. (KM):- 5+800
DESIGNED BED LEVEL = 121.011 M



CUTTING AREA (SQ.M) = 0.557
FILLING AREA (SQ.M) = 1.100

CH. (KM):- 6+000
DESIGNED BED LEVEL = 120.944 M

LEGEND

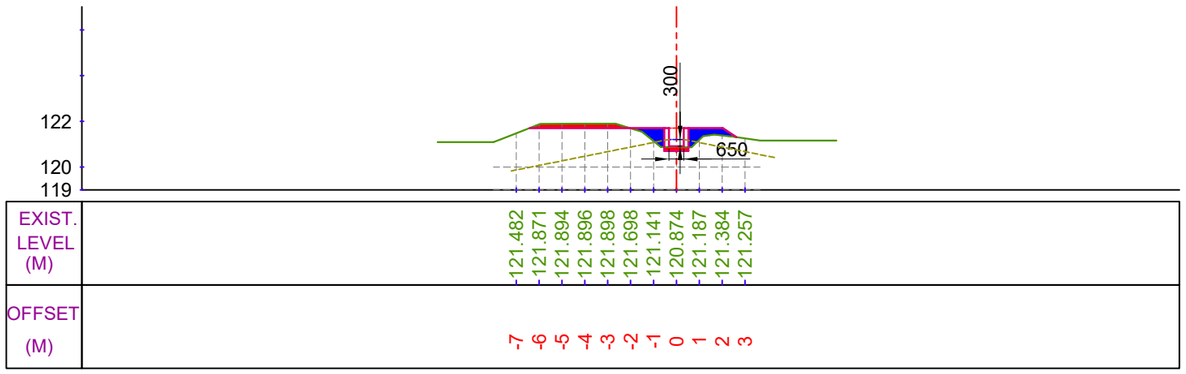
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 15 of 16

X SECTION OF GAMHARIA MR.



CUTTING AREA (SQ.M) = 0.876

FILLING AREA (SQ.M) = 1.373

CH. (KM):- 6+100

DESIGNED BED LEVEL = 120.911 M

LEGEND

CUT AREA	
	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

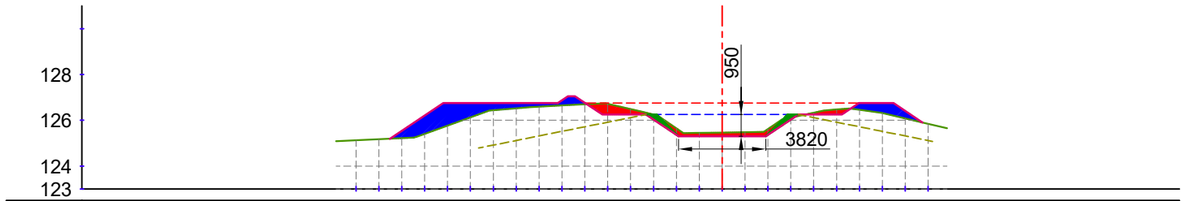
Prepared by :-

WAPCOS

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X- SEC OF GAMHARIA MR. (OFFTAKE FROM RD - 4+580 KM. (L), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-03/ XSEC- 16 of 16

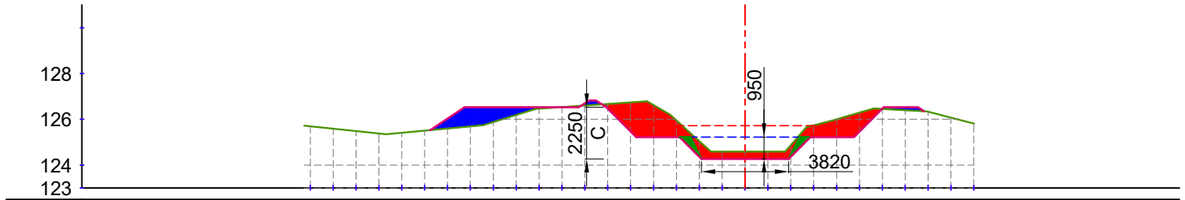
PRITAMPURA SUB DY.

X SECTION OF PRITAMPURA SUB DY.



| | | |

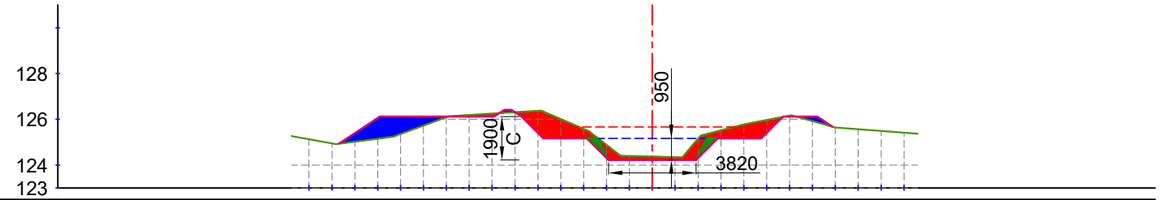
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	125.697	125.590	125.483	125.377	125.410	125.503	125.596	125.689	125.877	126.187	126.469	126.535	126.602	126.668	126.735	126.618	125.949	125.045	124.582	124.582	124.581	124.868	125.738	126.001	126.292	126.453	126.398	126.334	126.075	125.813
OFFSET (M)	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 7.487
FILLING AREA (SQ.M) = 2.640

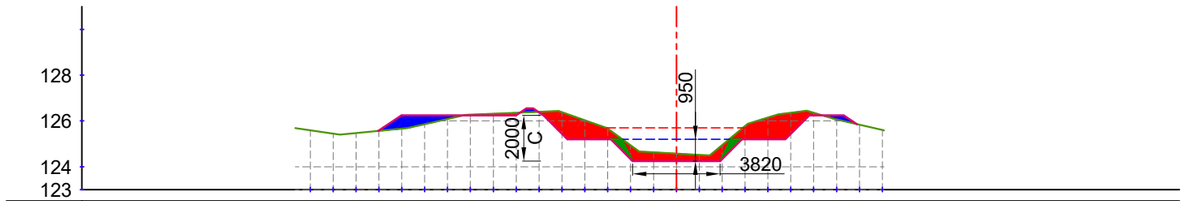
CH. (KM):- 0+500
DESIGNED BED LEVEL = 124.273 M



EXIST. LEVEL (M)	125.126	124.948	125.022	125.149	125.353	125.723	126.092	126.184	126.246	126.308	126.369	126.009	125.577	124.881	124.394	124.370	124.346	125.156	125.520	125.774	125.967	126.160	125.918	125.642	125.566	125.490	125.414
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 5.233
FILLING AREA (SQ.M) = 2.717

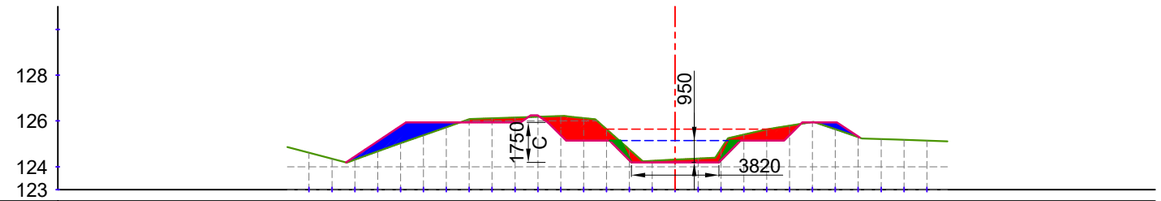
CH. (KM):- 0+700
DESIGNED BED LEVEL = 124.218 M



EXIST. LEVEL (M)	125.594	125.445	125.468	125.564	125.660	125.858	126.087	126.276	126.316	126.356	126.397	126.381	126.028	125.663	124.935	124.630	124.574	124.518	124.943	125.775	126.150	126.357	126.354	126.064	125.833	125.602
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 6.670
FILLING AREA (SQ.M) = 1.422

CH. (KM):- 0+600
DESIGNED BED LEVEL = 124.245 M



EXIST. LEVEL (M)	124.611	124.353	124.307	124.667	125.025	125.375	125.726	126.075	126.114	126.146	126.178	126.211	126.126	125.642	124.756	124.259	124.310	124.361	124.775	125.406	125.634	125.794	125.950	125.637	125.294	125.211	125.178	125.143
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 4.802
FILLING AREA (SQ.M) = 2.457

CH. (KM):- 0+800
DESIGNED BED LEVEL = 124.190 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

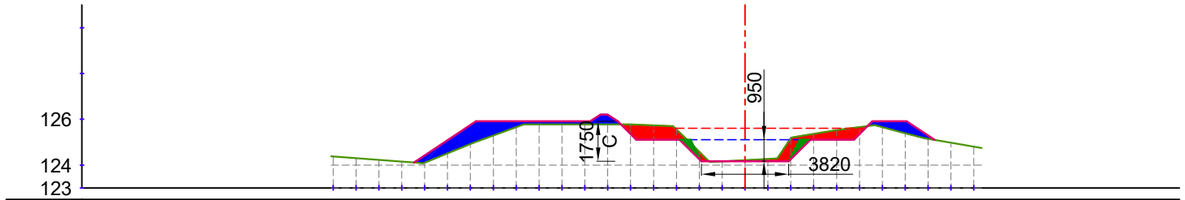
H.G. LINE

Prepared by :-

WAPCOS LTD.

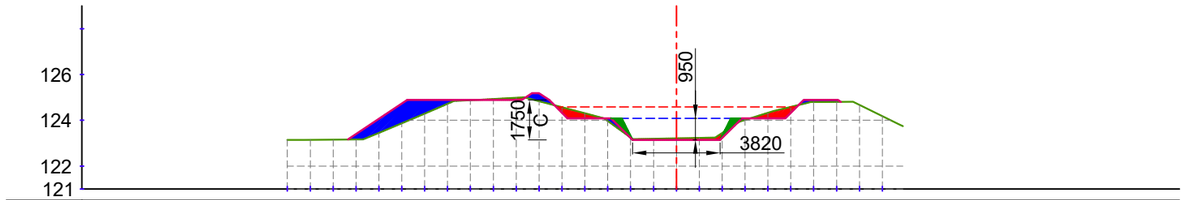
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 2 of 36

X SECTION OF PRITAMPURA SUB DY.



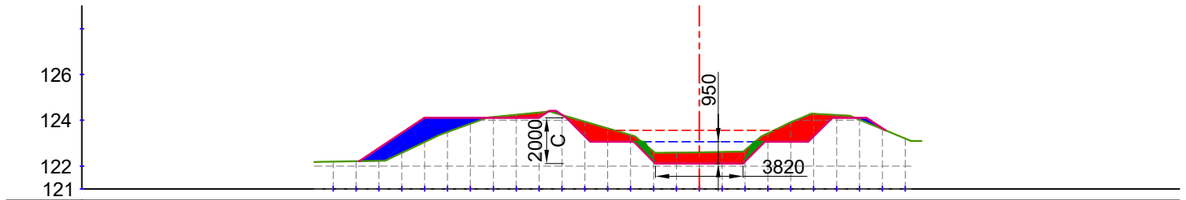
| | | |

X SECTION OF PRITAMPURA SUB DY.



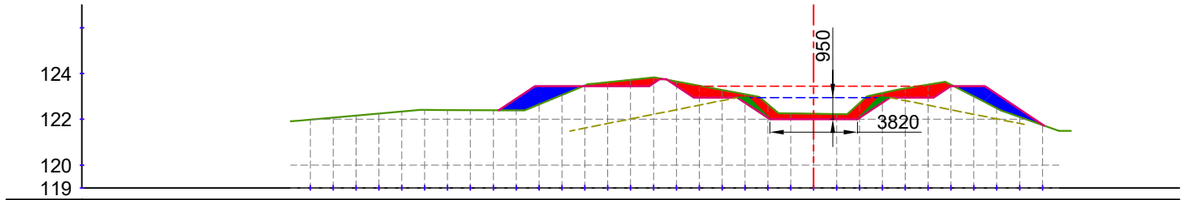
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X SECTION OF PRITAMPURA SUB DY.



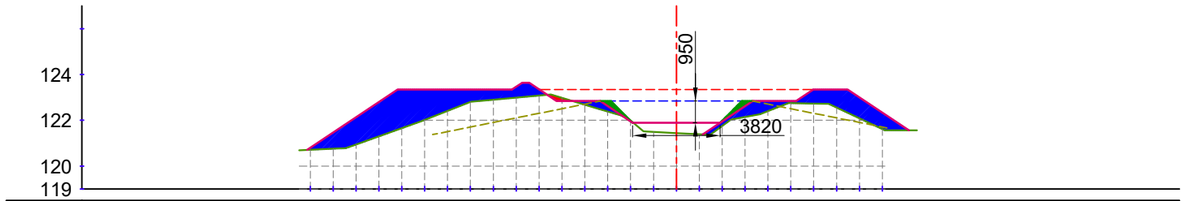
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X SECTION OF PRITAMPURA SUB DY.



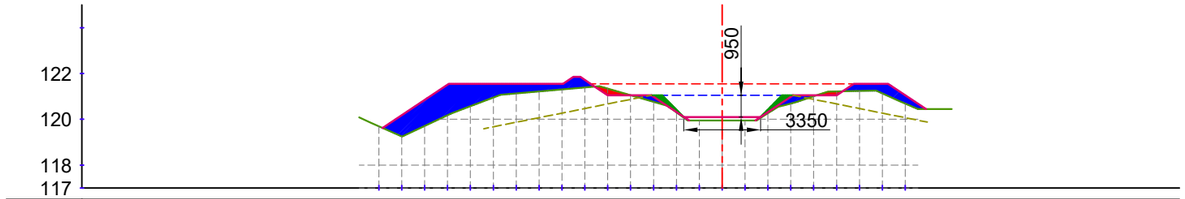
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X SECTION OF PRITAMPURA SUB DY.



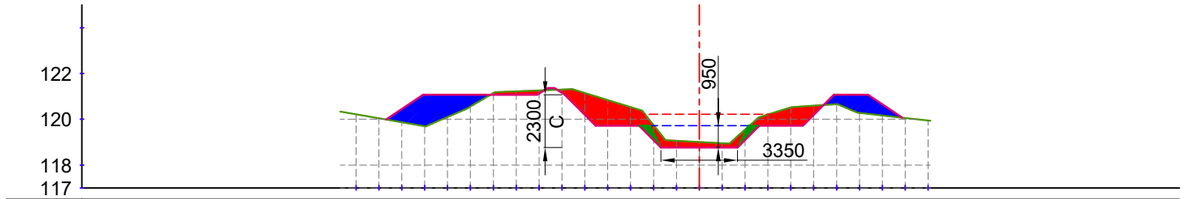
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X SECTION OF PRITAMPURA SUB DY.



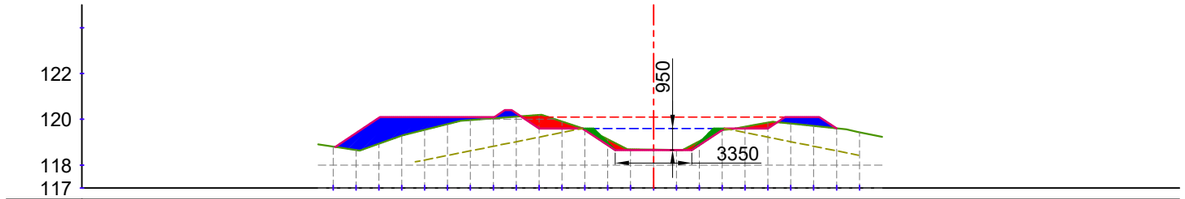
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X SECTION OF PRITAMPURA SUB DY.



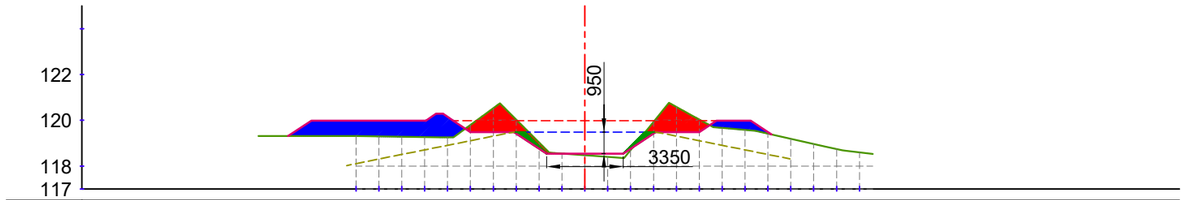
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X SECTION OF PRITAMPURA SUB DY.



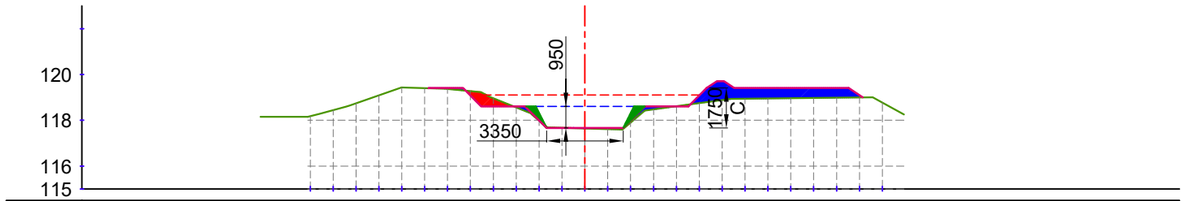
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X SECTION OF PRITAMPURA SUB DY.



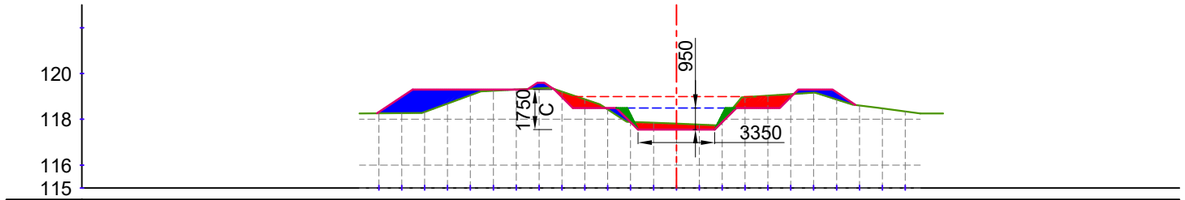
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X SECTION OF PRITAMPURA SUB DY.



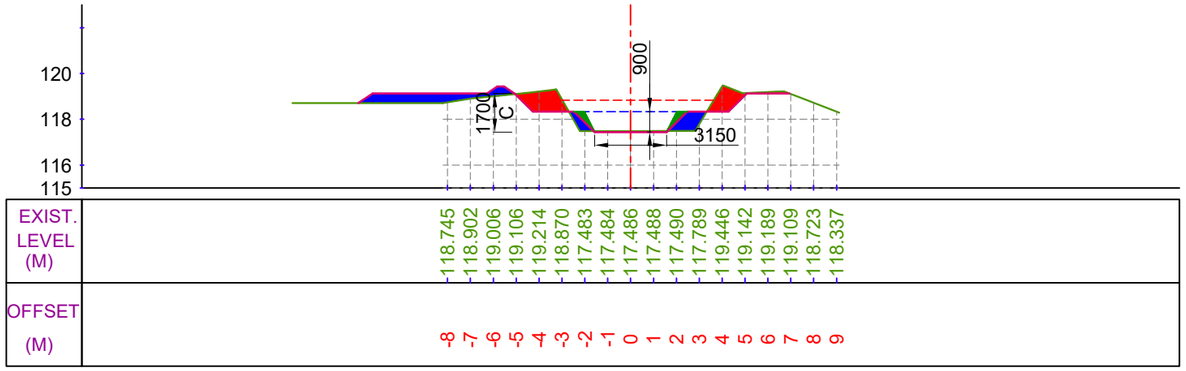
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X SECTION OF PRITAMPURA SUB DY.



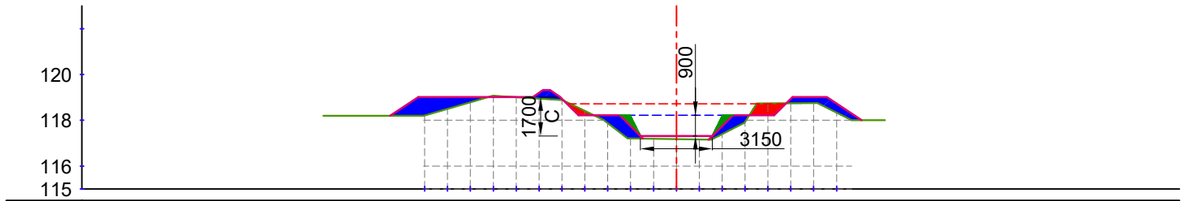
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X SECTION OF PRITAMPURA SUB DY.



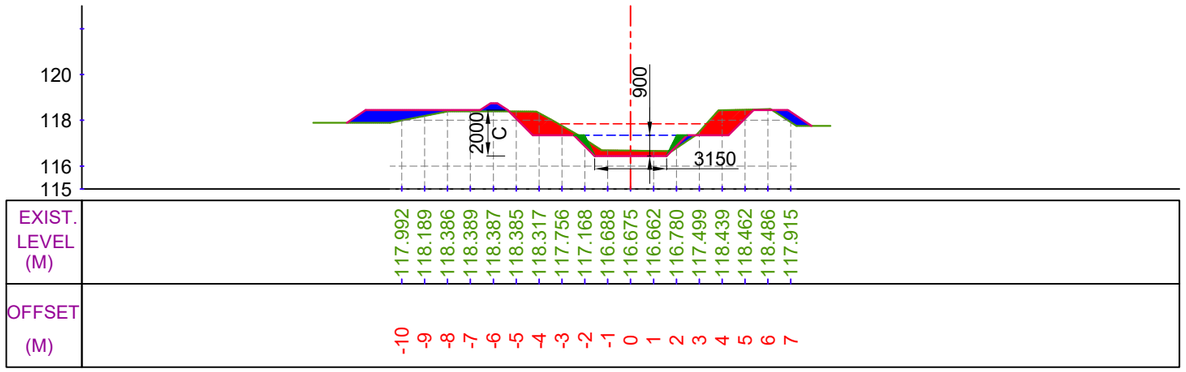
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X SECTION OF PRITAMPURA SUB DY.



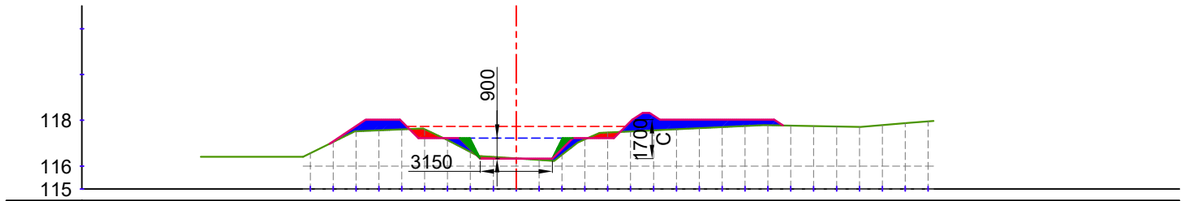
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X SECTION OF PRITAMPURA SUB DY.



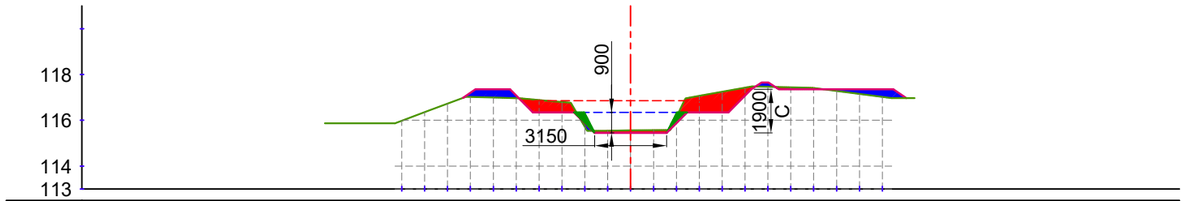
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X SECTION OF PRITAMPURA SUB DY.



| | | |

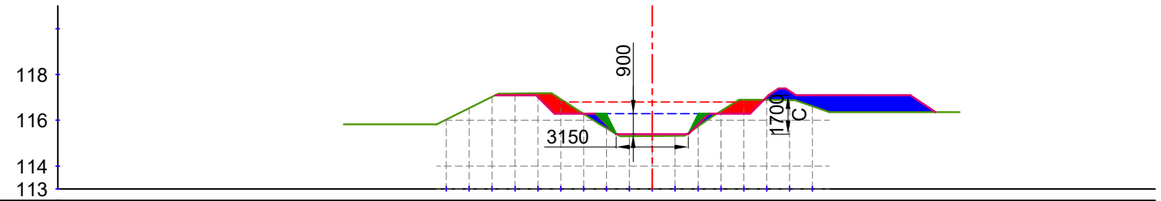
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	115.982	116.357	116.731	117.025	116.996	116.967	116.888	116.796	115.710	115.545	115.556	115.568	116.131	117.066	117.245	117.423	117.461	117.439	117.415	117.285	117.154	117.023
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11

CUTTING AREA (SQ.M) = 3.615
FILLING AREA (SQ.M) = 1.546

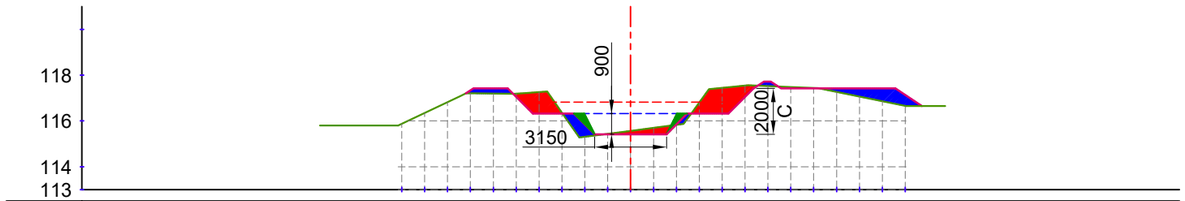
CH. (KM):- 6+900
DESIGNED BED LEVEL = 115.450 M



EXIST. LEVEL (M)	116.028	116.525	117.021	117.167	117.181	116.924	116.281	115.654	115.299	115.310	115.321	115.733	116.402	116.901	116.891	116.881	116.612					
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7					

CUTTING AREA (SQ.M) = 1.795
FILLING AREA (SQ.M) = 4.597

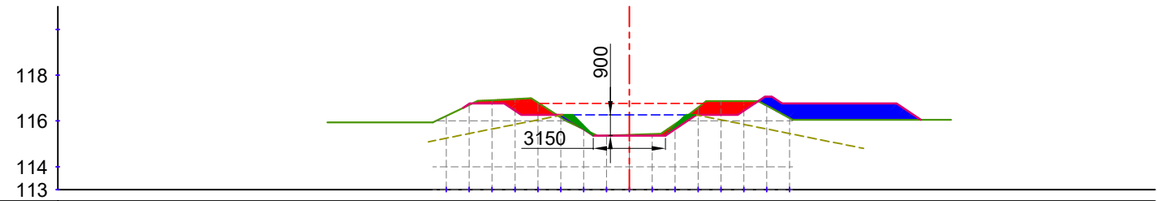
CH. (KM):- 7+100
DESIGNED BED LEVEL = 115.393 M



EXIST. LEVEL (M)	115.875	116.351	116.826	117.206	117.194	117.192	117.261	116.361	115.308	115.438	115.567	115.697	115.827	116.812	117.446	117.549	117.527	117.485	117.442	117.271	117.069	116.867	116.664	
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	

CUTTING AREA (SQ.M) = 3.919
FILLING AREA (SQ.M) = 2.810

CH. (KM):- 7+000
DESIGNED BED LEVEL = 115.421 M



EXIST. LEVEL (M)	116.221	116.698	116.906	116.957	116.804	116.158	115.642	115.358	115.392	115.425	115.863	116.590	116.869	116.869	116.665	116.125						
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7						

CUTTING AREA (SQ.M) = 2.739
FILLING AREA (SQ.M) = 4.386

CH. (KM):- 7+200
DESIGNED BED LEVEL = 115.364 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

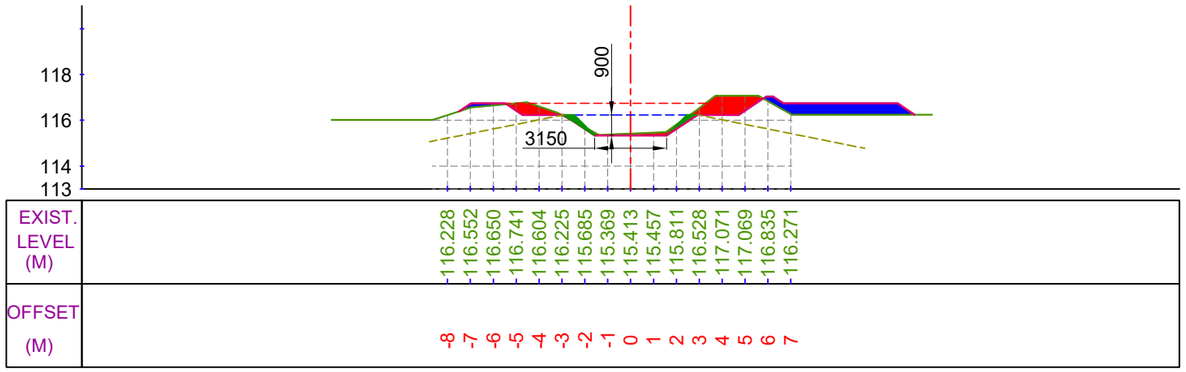
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 18 of 36

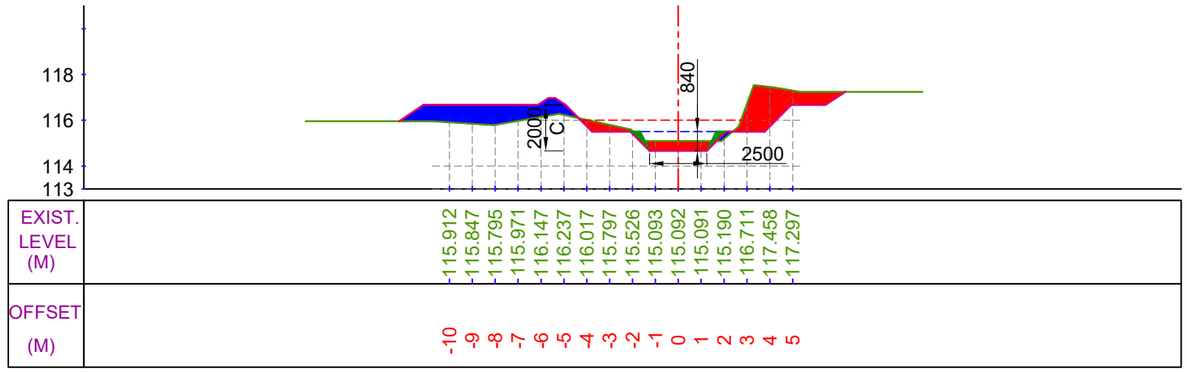
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	116.228	116.552	116.650	116.741	116.604	116.225	115.685	115.369	115.413	115.457	115.811	116.528	117.071	117.069	116.835	116.271						
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7						

CUTTING AREA (SQ.M) = 2.855
FILLING AREA (SQ.M) = 3.041

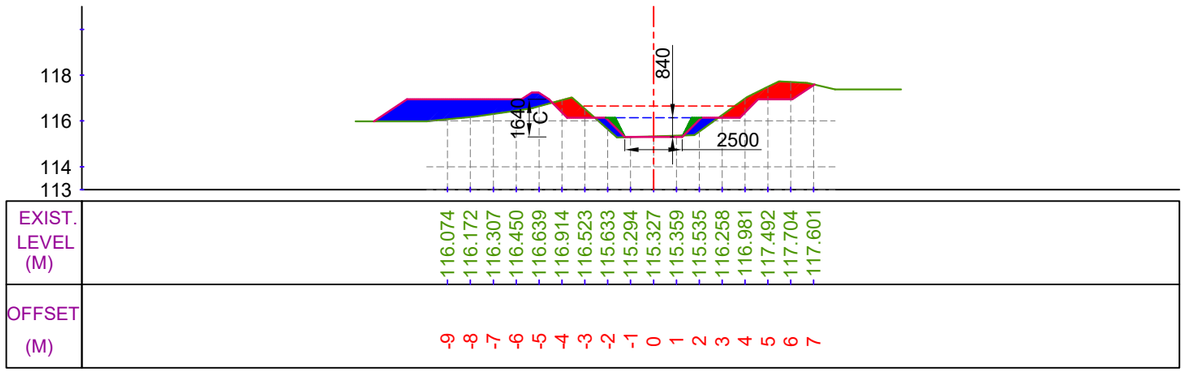
CH. (KM):- 7+300
DESIGNED BED LEVEL = 115.336 M



EXIST. LEVEL (M)	115.912	115.847	115.795	115.971	116.147	116.237	116.017	115.797	115.526	115.093	115.092	115.091	115.190	116.711	117.458	117.297						
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5						

CUTTING AREA (SQ.M) = 6.099
FILLING AREA (SQ.M) = 5.168

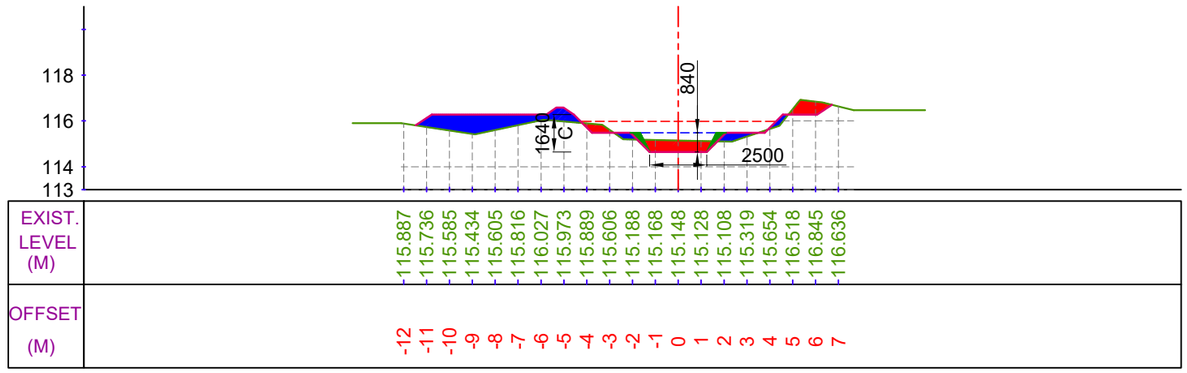
CH. (KM):- 7+500
DESIGNED BED LEVEL = 114.669 M



EXIST. LEVEL (M)	116.074	116.172	116.307	116.450	116.639	116.914	116.523	115.633	115.294	115.327	115.359	115.535	116.258	116.981	117.492	117.704	117.601					
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7					

CUTTING AREA (SQ.M) = 3.007
FILLING AREA (SQ.M) = 6.071

CH. (KM):- 7+400
DESIGNED BED LEVEL = 115.307 M



EXIST. LEVEL (M)	115.887	115.736	115.585	115.434	115.605	115.816	116.027	115.973	115.889	115.606	115.188	115.168	115.148	115.128	115.108	115.319	115.654	116.518	116.845	116.636		
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7		

CUTTING AREA (SQ.M) = 2.555
FILLING AREA (SQ.M) = 4.610

CH. (KM):- 7+600
DESIGNED BED LEVEL = 114.640 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

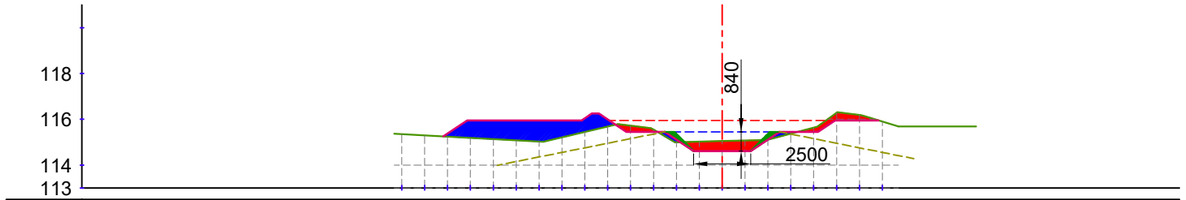
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 19 of 36

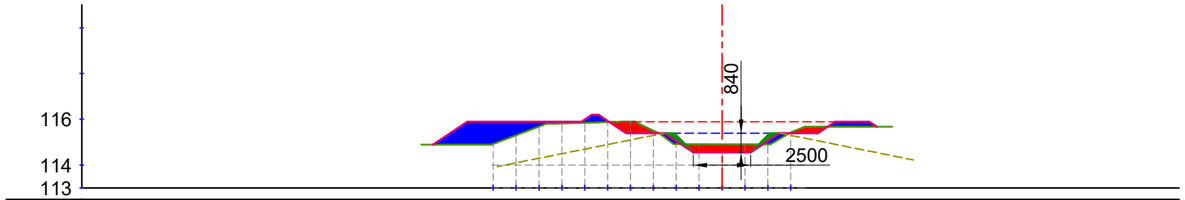
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	115.347	115.294	115.241	115.187	115.135	115.082	115.029	115.214	115.451	115.689	115.724	115.549	114.996	115.022	115.049	115.075	115.113	115.373	115.632	116.287	116.183	115.902
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7

CUTTING AREA (SQ.M) = 2.358
FILLING AREA (SQ.M) = 5.418

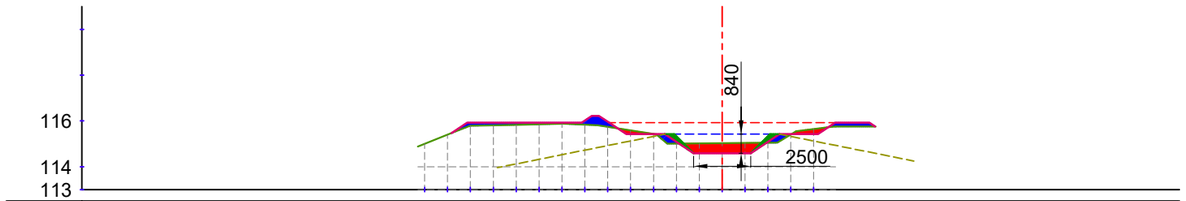
CH. (KM):- 7+700
DESIGNED BED LEVEL = 114.611 M



EXIST. LEVEL (M)	114.921	115.302	115.682	115.819	115.845	115.871	115.896	115.506	114.913	114.910	114.907	114.904	114.901	115.418								
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3								

CUTTING AREA (SQ.M) = 1.959
FILLING AREA (SQ.M) = 4.227

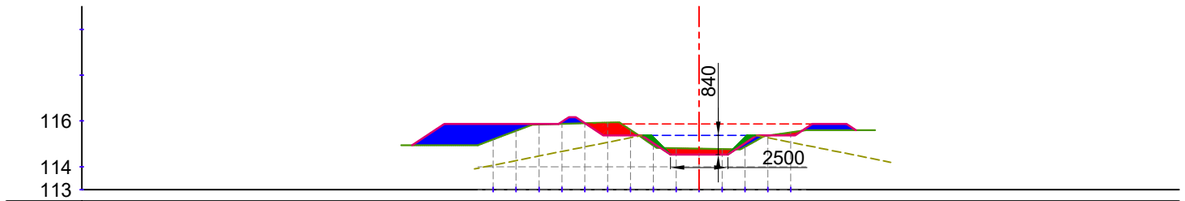
CH. (KM):- 7+900
DESIGNED BED LEVEL = 114.554 M



EXIST. LEVEL (M)	115.002	115.398	115.788	115.809	115.831	115.852	115.873	115.835	115.741	115.587	115.433	115.009	115.018	115.026	115.035	115.043	115.412	115.649	
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	

CUTTING AREA (SQ.M) = 1.716
FILLING AREA (SQ.M) = 1.572

CH. (KM):- 7+800
DESIGNED BED LEVEL = 114.583 M



EXIST. LEVEL (M)	115.190	115.570	115.848	115.875	115.902	115.928	115.612	114.922	114.807	114.788	114.770	114.865	115.356	115.498					
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4					

CUTTING AREA (SQ.M) = 1.706
FILLING AREA (SQ.M) = 4.156

CH. (KM):- 8+000
DESIGNED BED LEVEL = 114.526 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

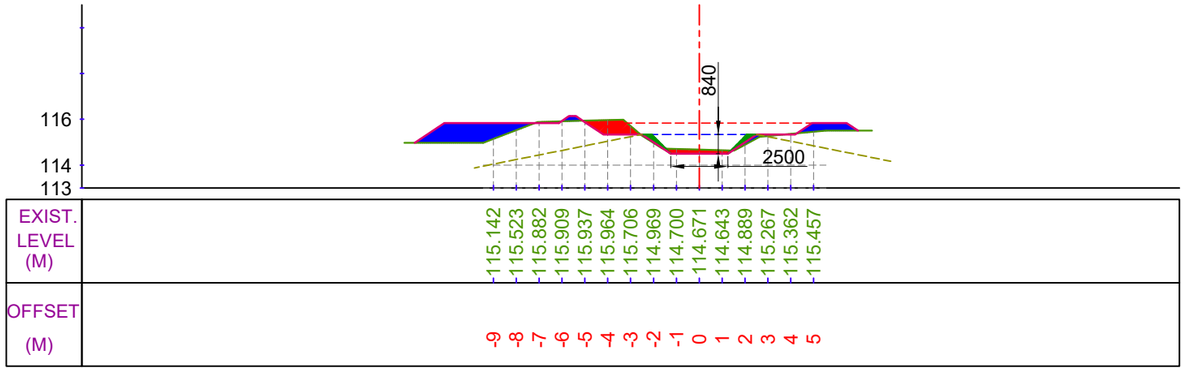
H.G. LINE

Prepared by :-

WAPCOS LTD.

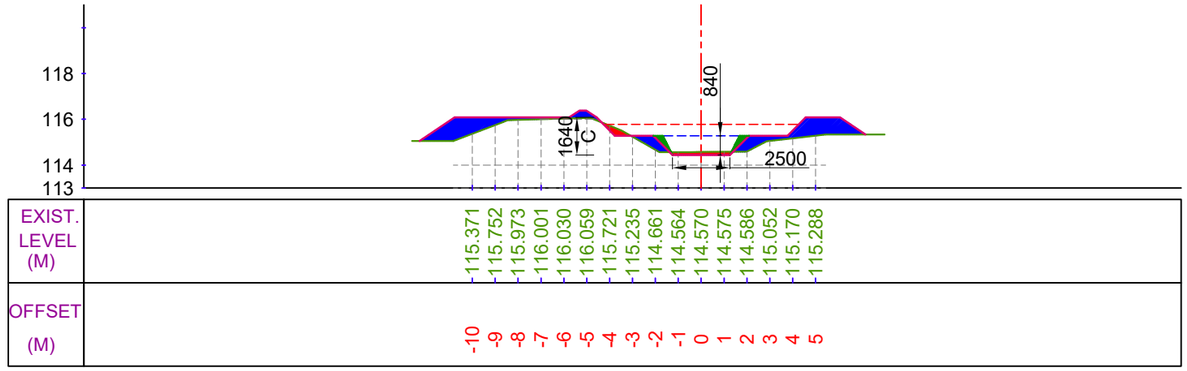
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 20 of 36

X SECTION OF PRITAMPURA SUB DY.



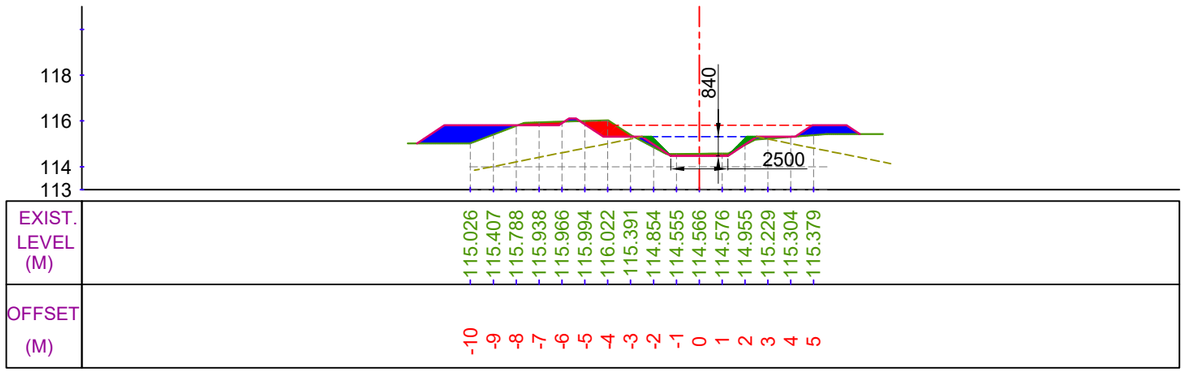
CUTTING AREA (SQ.M) = 1.607
FILLING AREA (SQ.M) = 4.072

CH. (KM):- 8+100
DESIGNED BED LEVEL = 114.497 M



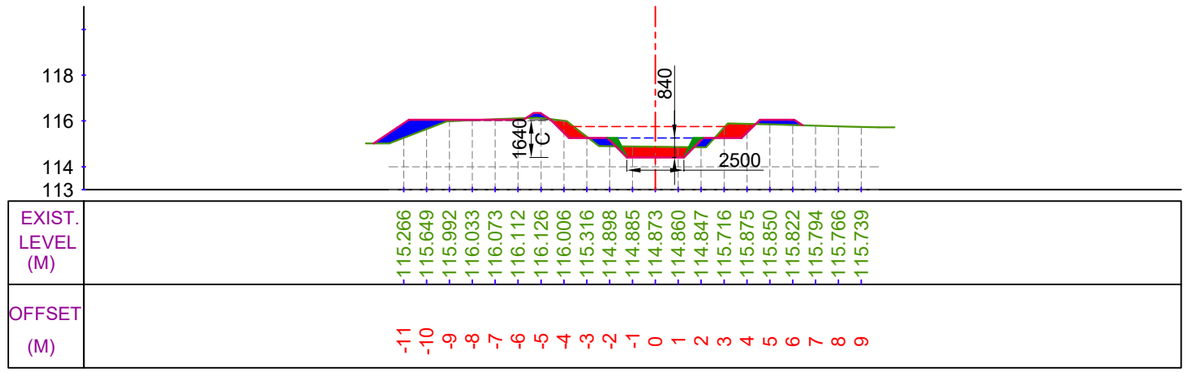
CUTTING AREA (SQ.M) = 0.564
FILLING AREA (SQ.M) = 5.834

CH. (KM):- 8+300
DESIGNED BED LEVEL = 114.440 M



CUTTING AREA (SQ.M) = 1.398
FILLING AREA (SQ.M) = 3.389

CH. (KM):- 8+200
DESIGNED BED LEVEL = 114.469 M



CUTTING AREA (SQ.M) = 2.674
FILLING AREA (SQ.M) = 2.324

CH. (KM):- 8+400
DESIGNED BED LEVEL = 114.411 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

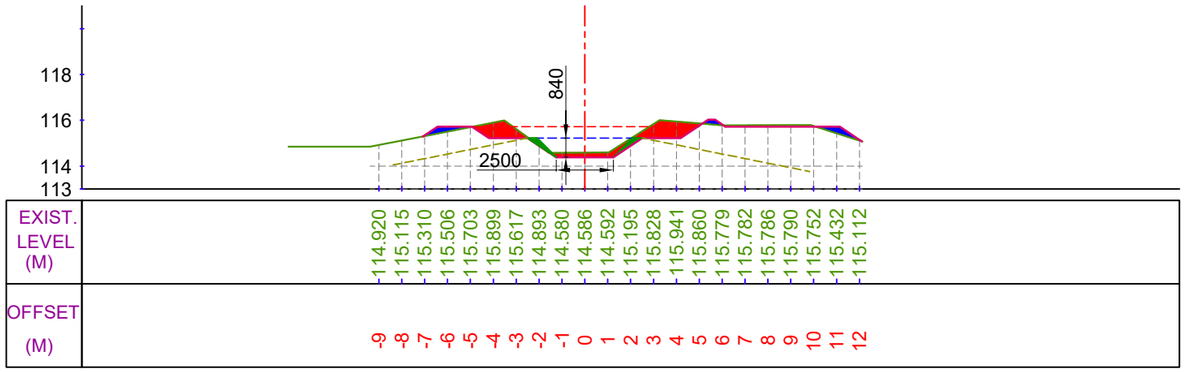
H.G. LINE

Prepared by :-

WAPCOS LTD.

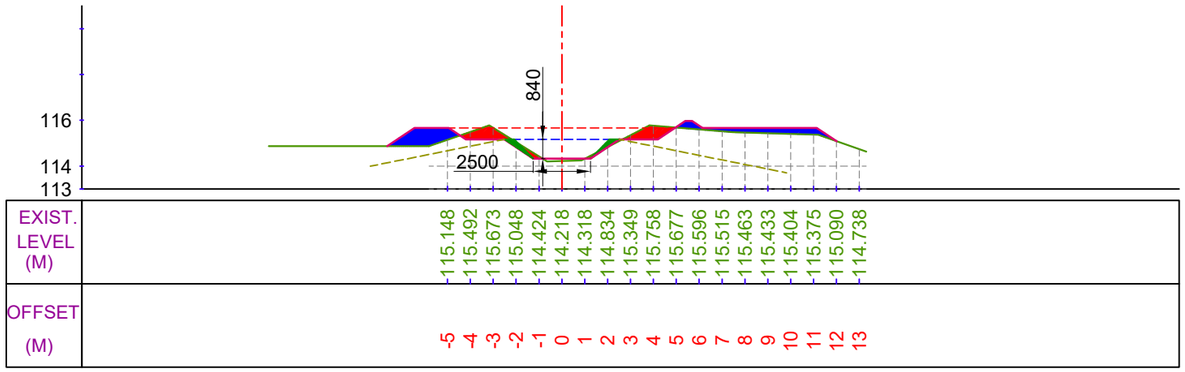
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 21 of 36

X SECTION OF PRITAMPURA SUB DY.



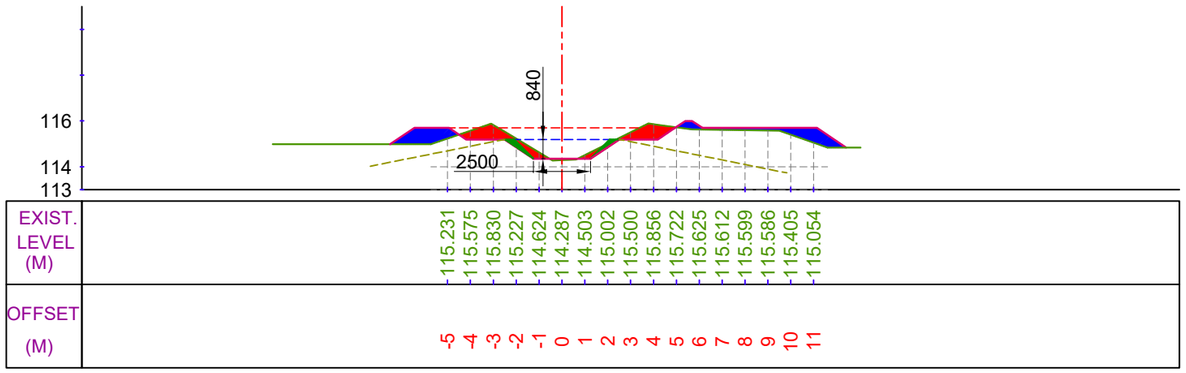
CUTTING AREA (SQ.M) = 3.544
FILLING AREA (SQ.M) = 0.798

CH. (KM):- 8+500
DESIGNED BED LEVEL = 114.383 M



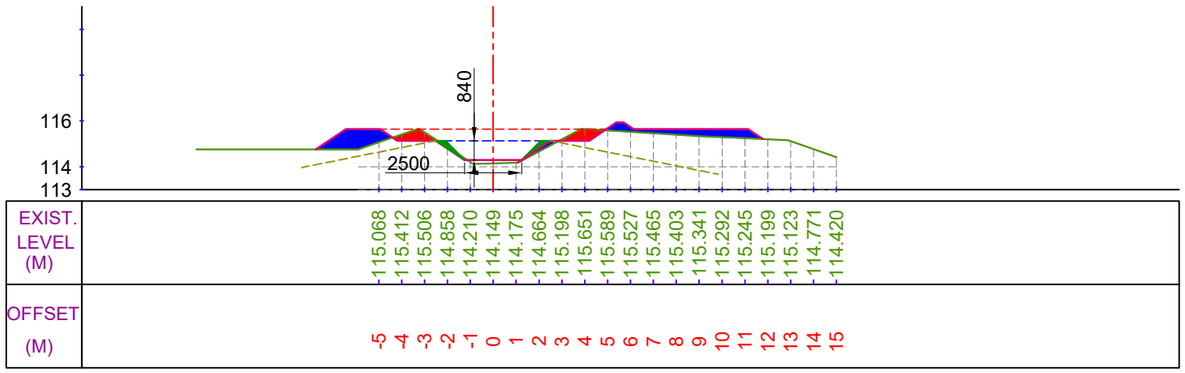
CUTTING AREA (SQ.M) = 1.742
FILLING AREA (SQ.M) = 3.111

CH. (KM):- 8+700
DESIGNED BED LEVEL = 114.326 M



CUTTING AREA (SQ.M) = 2.511
FILLING AREA (SQ.M) = 3.189

CH. (KM):- 8+600
DESIGNED BED LEVEL = 114.354 M



CUTTING AREA (SQ.M) = 1.196
FILLING AREA (SQ.M) = 3.860

CH. (KM):- 8+800
DESIGNED BED LEVEL = 114.297 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

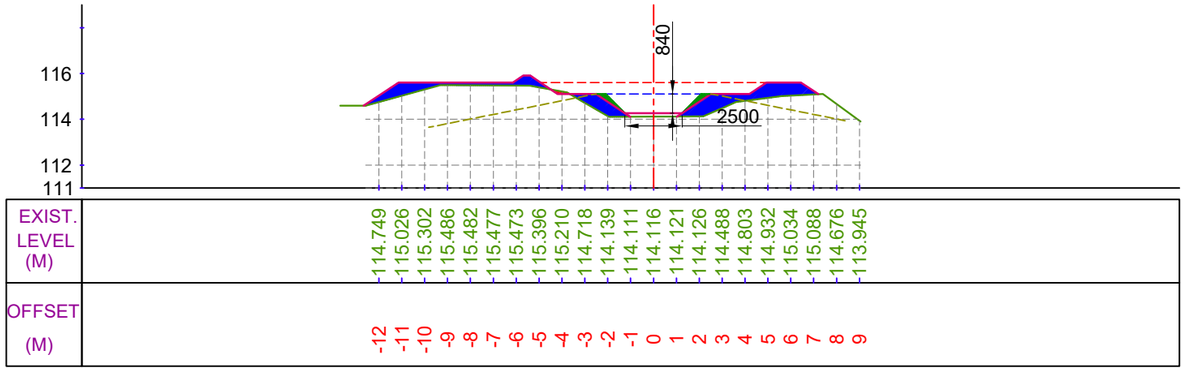
H.G. LINE

Prepared by :-

WAPCOS LTD.

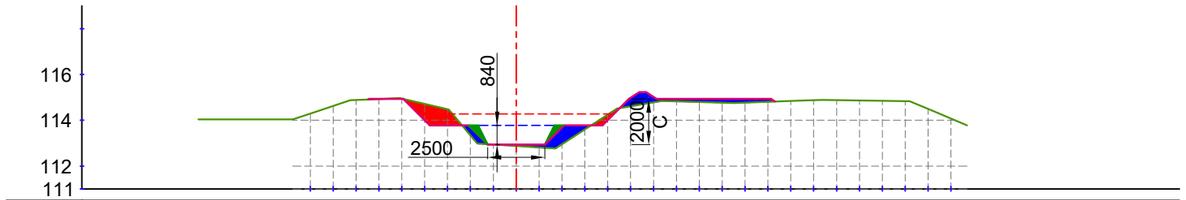
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 22 of 36

X SECTION OF PRITAMPURA SUB DY.



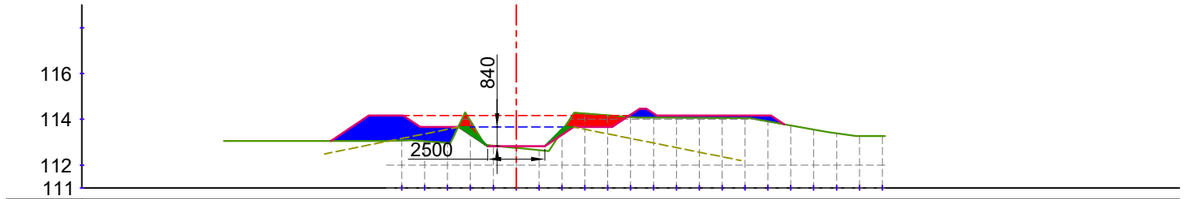
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X SECTION OF PRITAMPURA SUB DY.



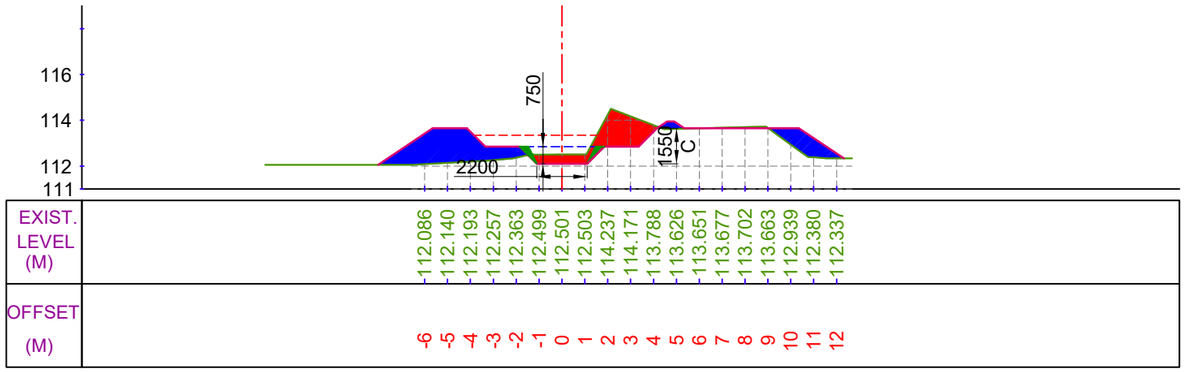
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X SECTION OF PRITAMPURA SUB DY.



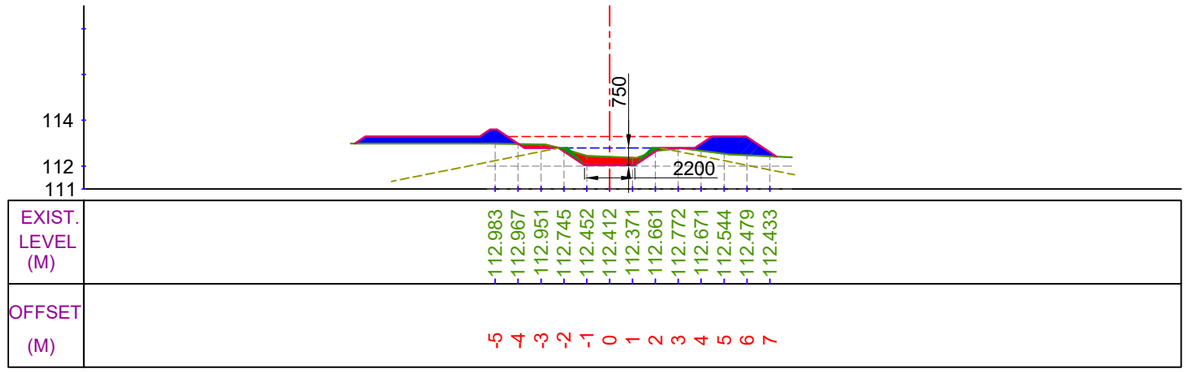
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X SECTION OF PRITAMPURA SUB DY.



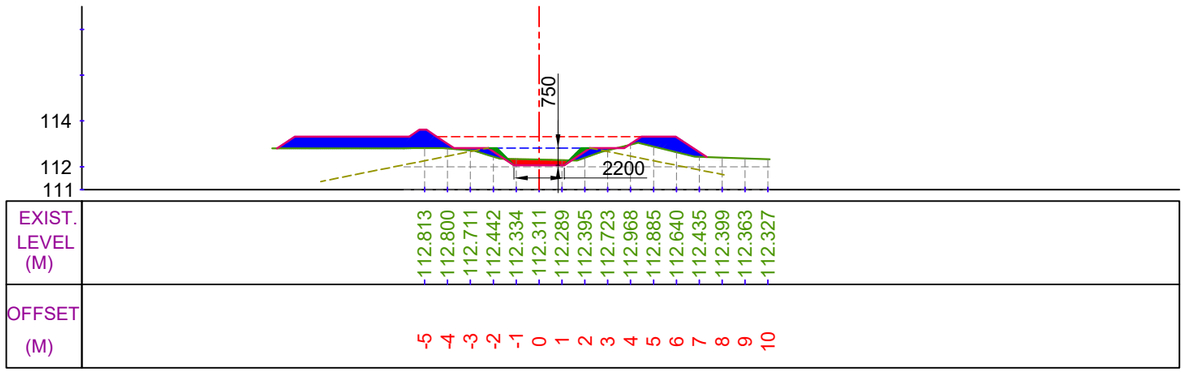
CUTTING AREA (SQ.M) = 4.141
FILLING AREA (SQ.M) = 7.933

CH. (KM):- 10+100
DESIGNED BED LEVEL = 112.097 M



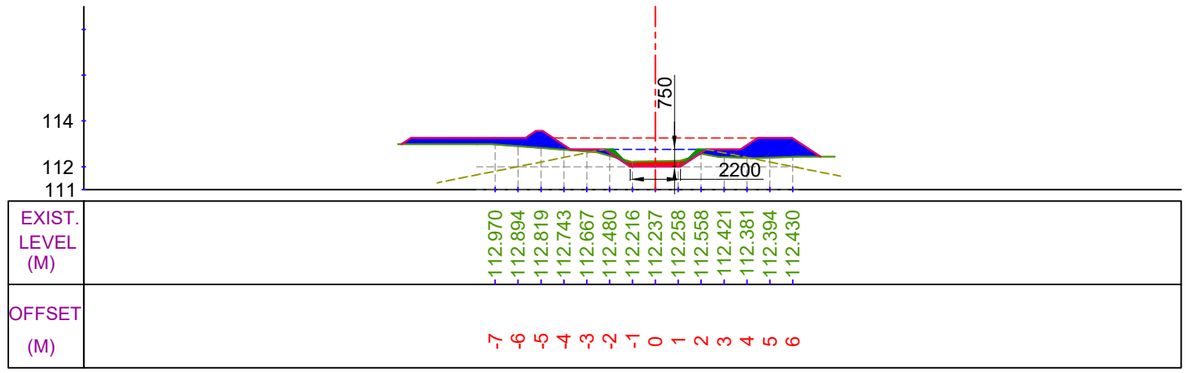
CUTTING AREA (SQ.M) = 1.226
FILLING AREA (SQ.M) = 4.346

CH. (KM):- 10+300
DESIGNED BED LEVEL = 112.040 M



CUTTING AREA (SQ.M) = 0.618
FILLING AREA (SQ.M) = 5.755

CH. (KM):- 10+200
DESIGNED BED LEVEL = 112.068 M



CUTTING AREA (SQ.M) = 0.577
FILLING AREA (SQ.M) = 5.497

CH. (KM):- 10+400
DESIGNED BED LEVEL = 112.011 M

LEGEND

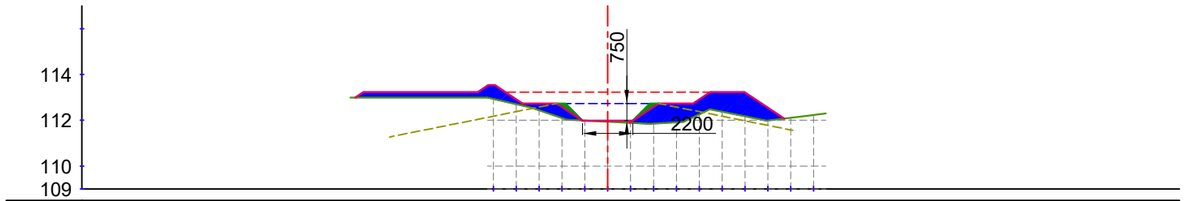
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

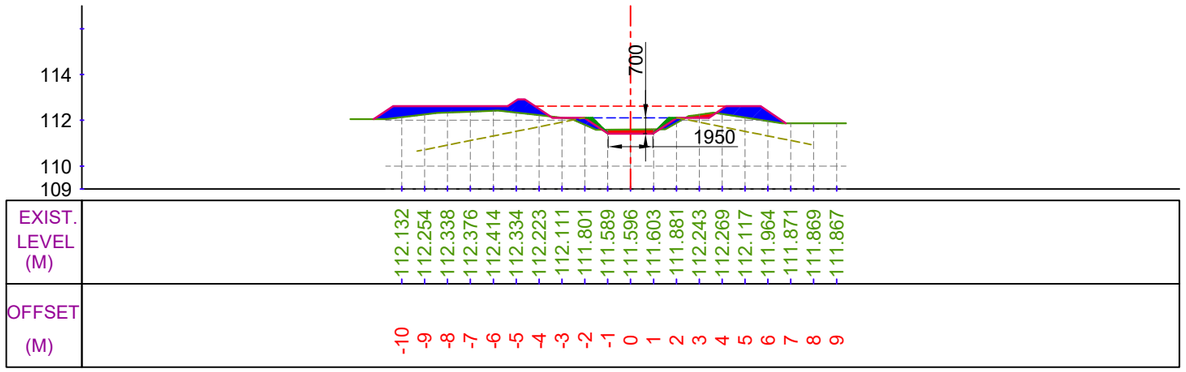
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 26 of 36

X SECTION OF PRITAMPURA SUB DY.



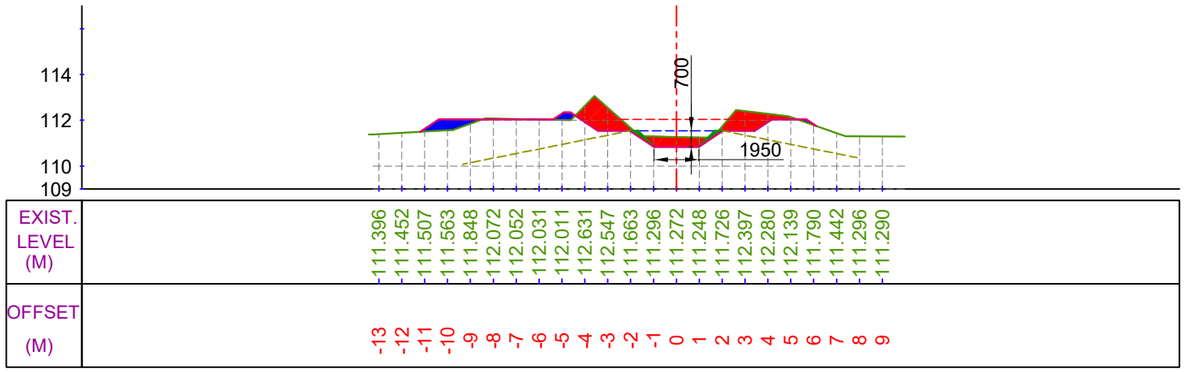
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X SECTION OF PRITAMPURA SUB DY.



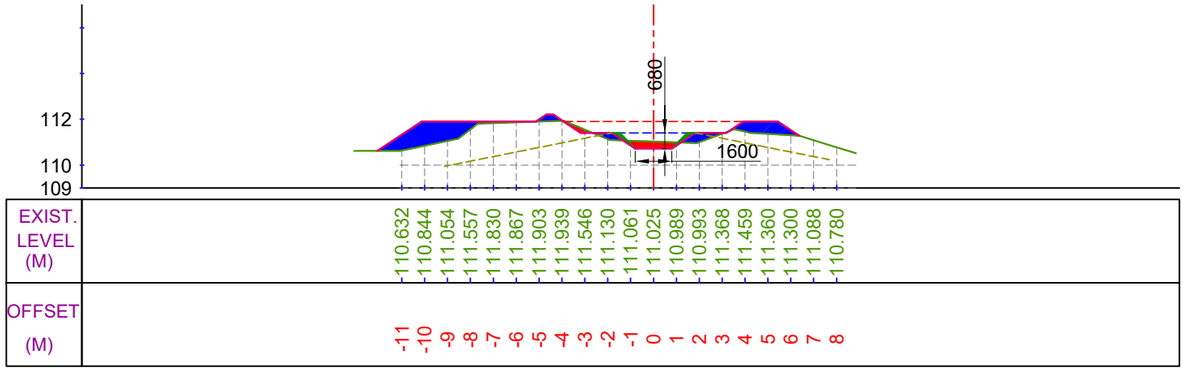
| | | |

X SECTION OF PRITAMPURA SUB DY.



| | | |

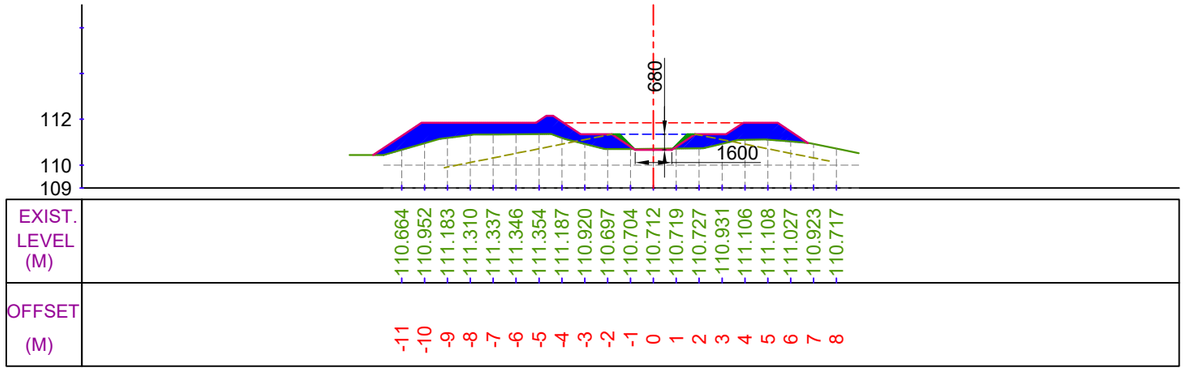
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	110.632	110.844	111.054	111.557	111.830	111.867	111.903	111.939	111.546	111.130	111.061	111.025	110.989	110.993	111.368	111.459	111.360	111.300	111.088	110.780
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.722
FILLING AREA (SQ.M) = 5.173

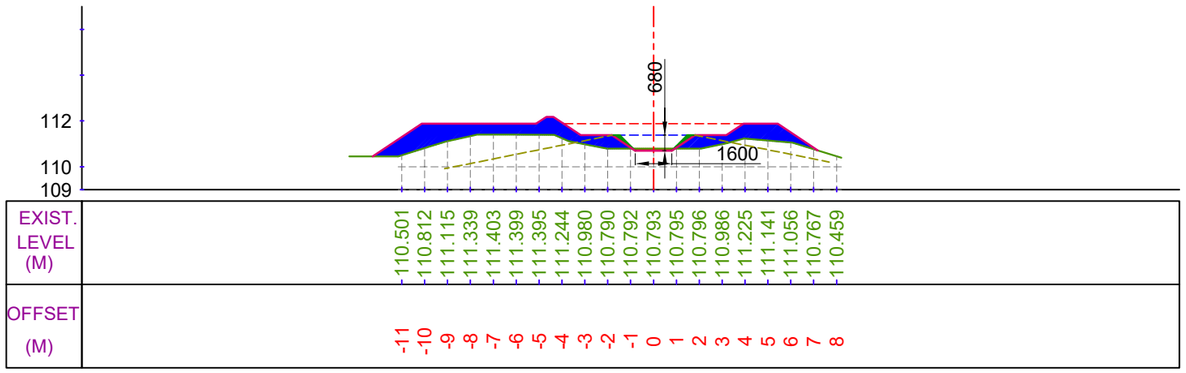
CH. (KM):- 11+700
DESIGNED BED LEVEL = 110.726 M



EXIST. LEVEL (M)	110.664	110.952	111.183	111.310	111.337	111.346	111.354	111.187	110.920	110.697	110.704	110.712	110.719	110.727	110.931	111.106	111.108	111.027	110.923	110.717
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.072
FILLING AREA (SQ.M) = 9.407

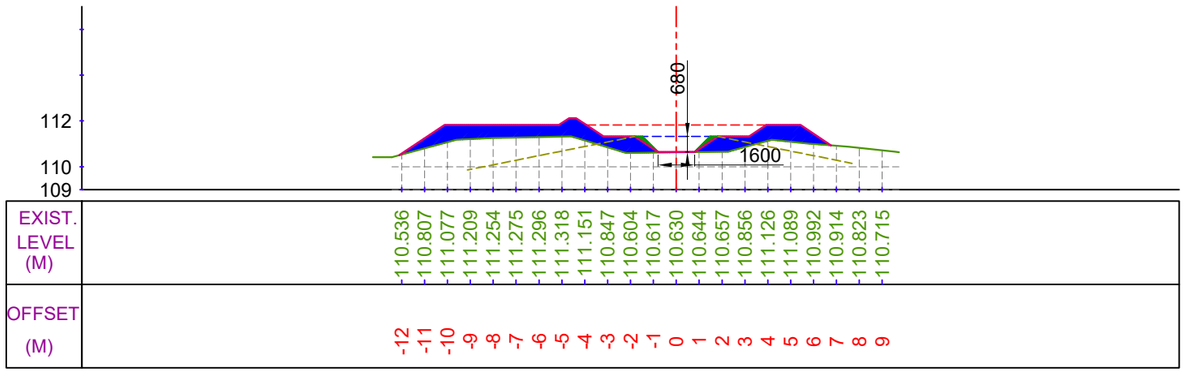
CH. (KM):- 11+900
DESIGNED BED LEVEL = 110.668 M



EXIST. LEVEL (M)	110.501	110.812	111.115	111.339	111.403	111.399	111.395	111.244	110.980	110.790	110.792	110.793	110.795	110.796	110.986	111.225	111.141	111.056	110.767	110.459
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8

CUTTING AREA (SQ.M) = 0.163
FILLING AREA (SQ.M) = 9.562

CH. (KM):- 11+800
DESIGNED BED LEVEL = 110.697 M



EXIST. LEVEL (M)	110.536	110.807	111.077	111.209	111.254	111.275	111.296	111.318	111.151	110.847	110.604	110.617	110.630	110.644	110.657	110.856	111.126	111.089	110.992	110.914	110.823	110.715
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 9.288

CH. (KM):- 12+000
DESIGNED BED LEVEL = 110.640 M

LEGEND

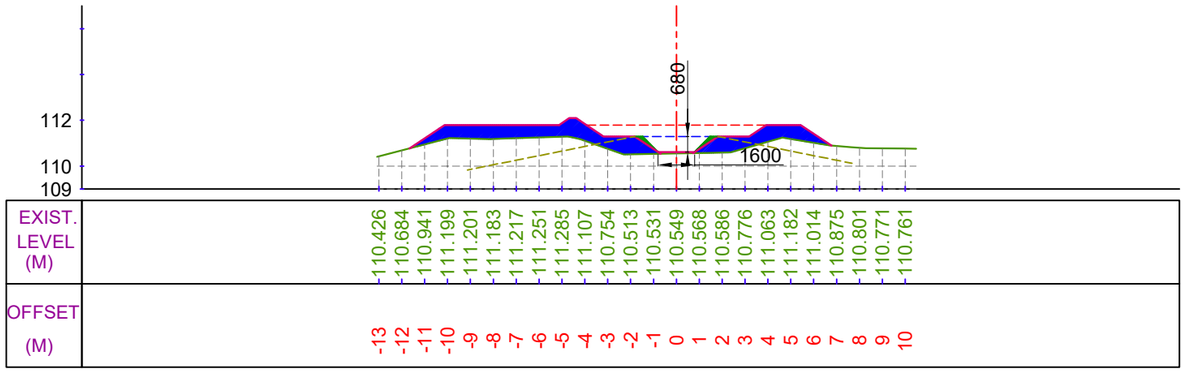
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

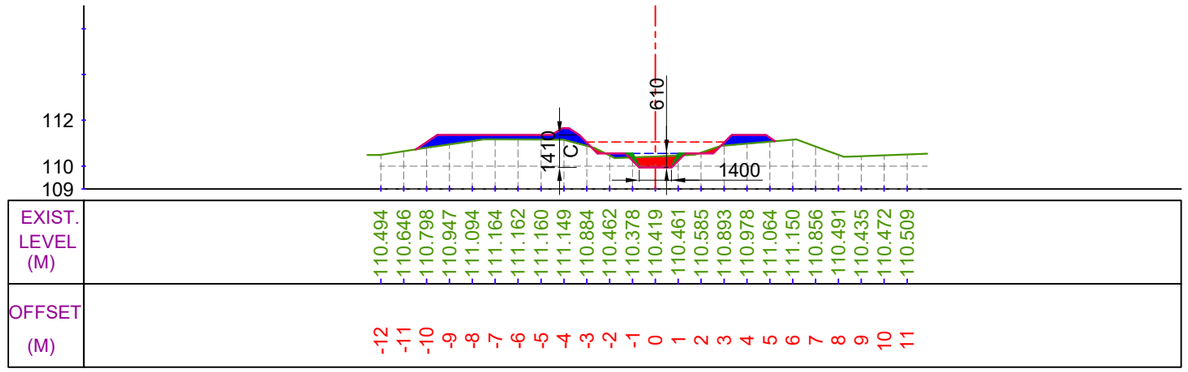
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 30 of 36

X SECTION OF PRITAMPURA SUB DY.



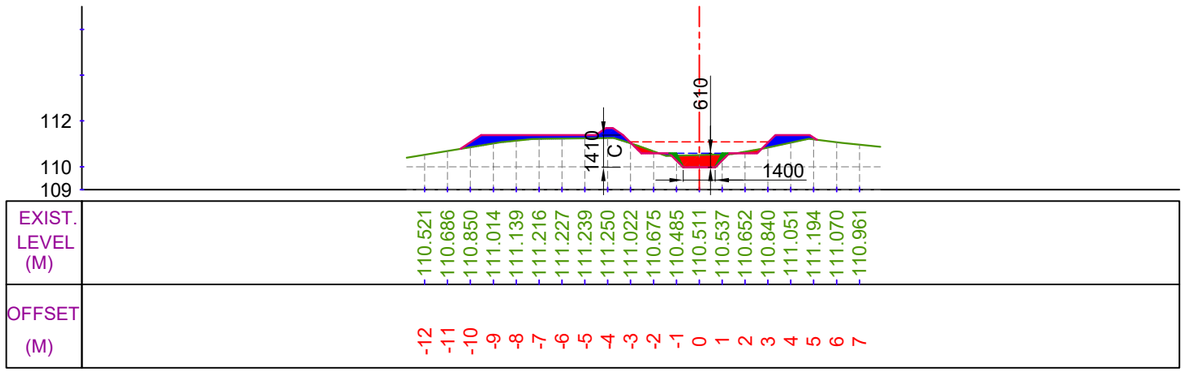
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 9.160

CH. (KM):- 12+100
DESIGNED BED LEVEL = 110.611 M



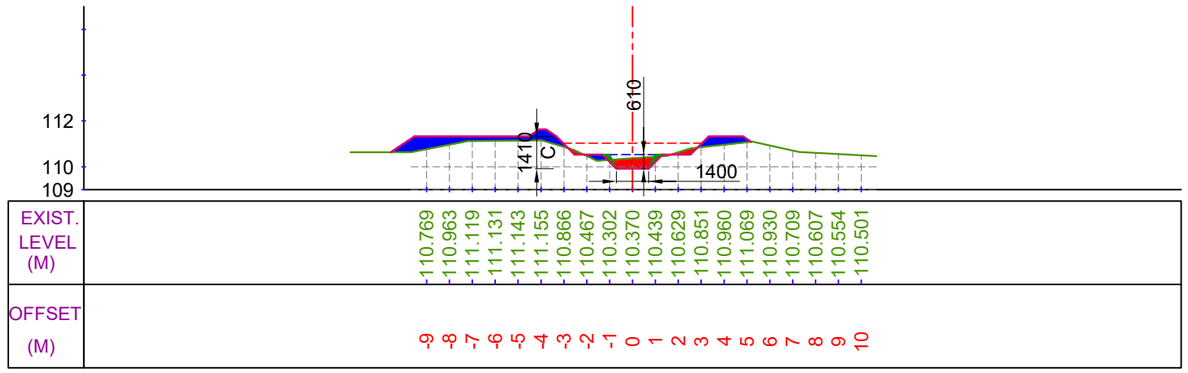
CUTTING AREA (SQ.M) = 0.935
FILLING AREA (SQ.M) = 3.015

CH. (KM):- 12+300
DESIGNED BED LEVEL = 109.944 M



CUTTING AREA (SQ.M) = 1.164
FILLING AREA (SQ.M) = 2.444

CH. (KM):- 12+200
DESIGNED BED LEVEL = 109.973 M



CUTTING AREA (SQ.M) = 0.964
FILLING AREA (SQ.M) = 3.341

CH. (KM):- 12+400
DESIGNED BED LEVEL = 109.916 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

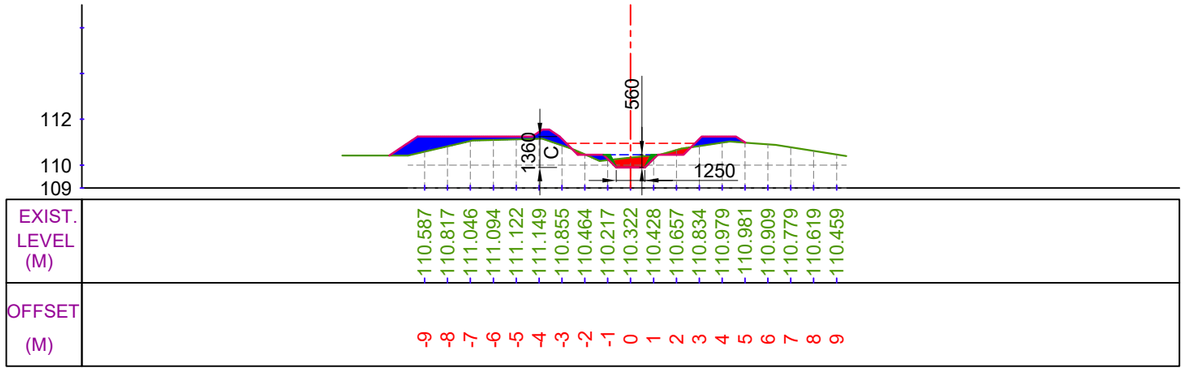
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 31 of 36

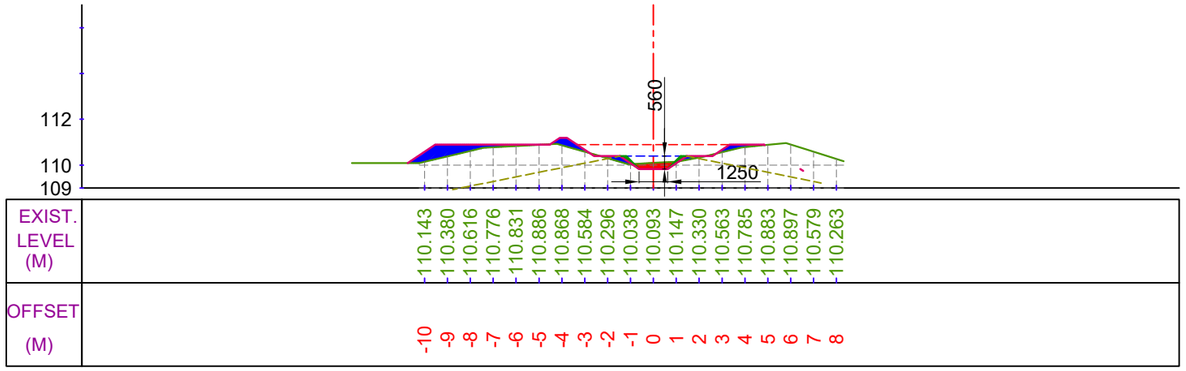
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	110.587	110.817	111.046	111.094	111.122	111.149	110.855	110.464	110.217	110.322	110.428	110.657	110.834	110.979	110.981	110.909	110.779	110.619	110.459	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	

CUTTING AREA (SQ.M) = 0.884
FILLING AREA (SQ.M) = 3.245

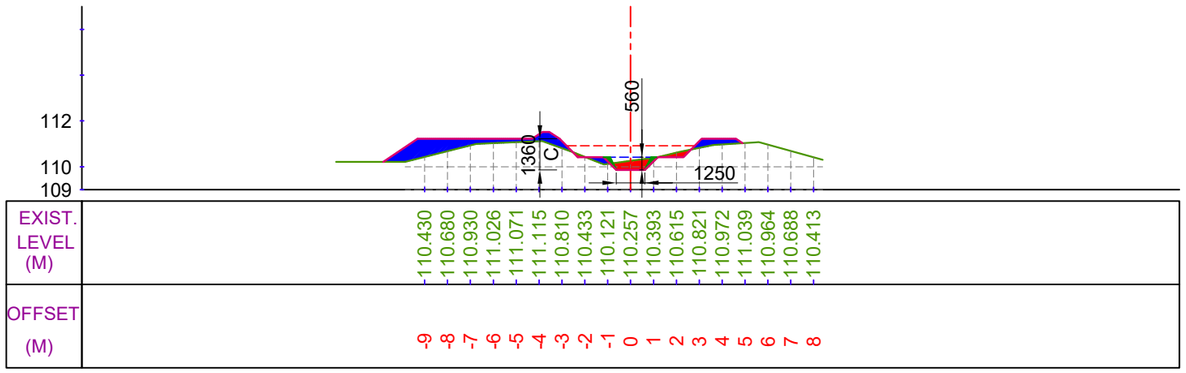
CH. (KM):- 12+500
DESIGNED BED LEVEL = 109.887 M



EXIST. LEVEL (M)	110.143	110.380	110.616	110.776	110.831	110.886	110.868	110.584	110.296	110.038	110.093	110.147	110.330	110.563	110.785	110.883	110.897	110.579	110.263	
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	

CUTTING AREA (SQ.M) = 0.438
FILLING AREA (SQ.M) = 2.275

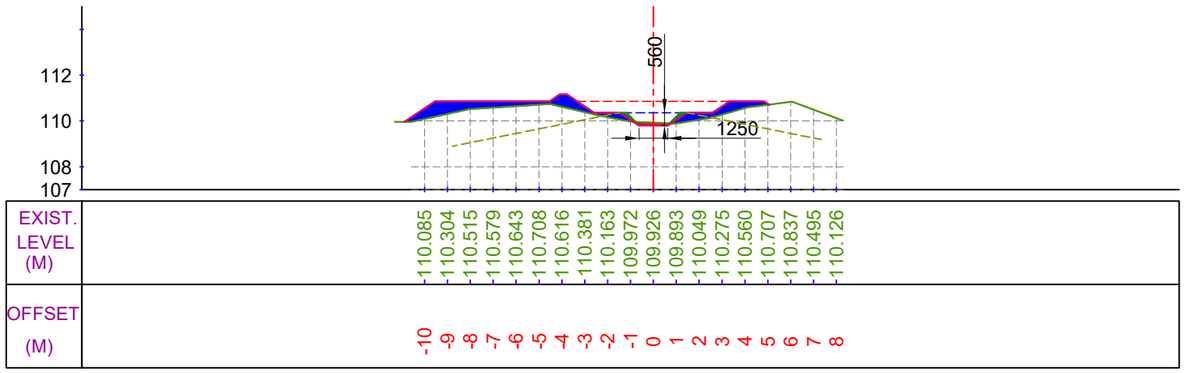
CH. (KM):- 12+700
DESIGNED BED LEVEL = 109.830 M



EXIST. LEVEL (M)	110.430	110.680	110.930	111.026	111.071	111.115	110.810	110.433	110.121	110.257	110.393	110.615	110.821	110.972	111.039	110.964	110.688	110.413		
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8		

CUTTING AREA (SQ.M) = 0.818
FILLING AREA (SQ.M) = 3.766

CH. (KM):- 12+600
DESIGNED BED LEVEL = 109.858 M



EXIST. LEVEL (M)	110.085	110.304	110.515	110.579	110.643	110.708	110.616	110.381	110.163	109.972	109.926	109.893	110.049	110.275	110.560	110.707	110.837	110.495	110.126	
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	

CUTTING AREA (SQ.M) = 0.173
FILLING AREA (SQ.M) = 4.336

CH. (KM):- 12+800
DESIGNED BED LEVEL = 109.801 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

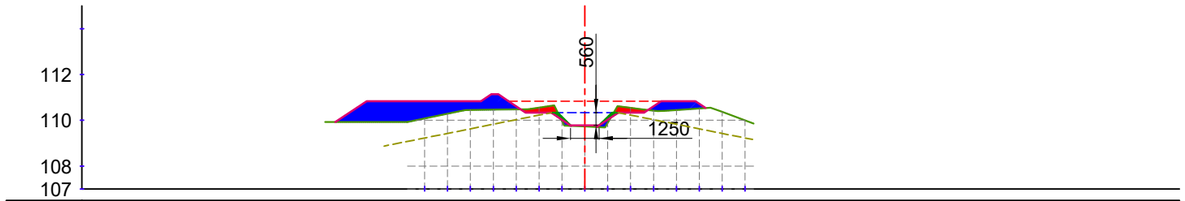
H.G. LINE

Prepared by :-

WAPCOS LTD.

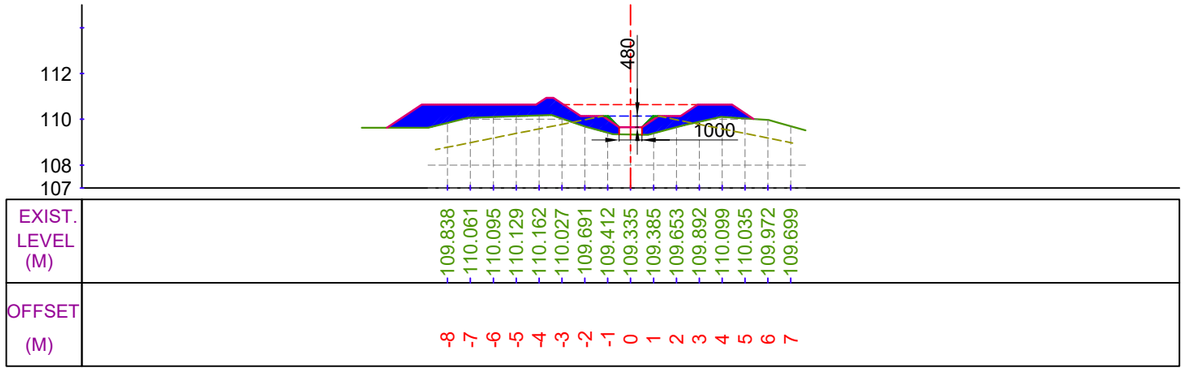
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 32 of 36

X SECTION OF PRITAMPURA SUB DY.



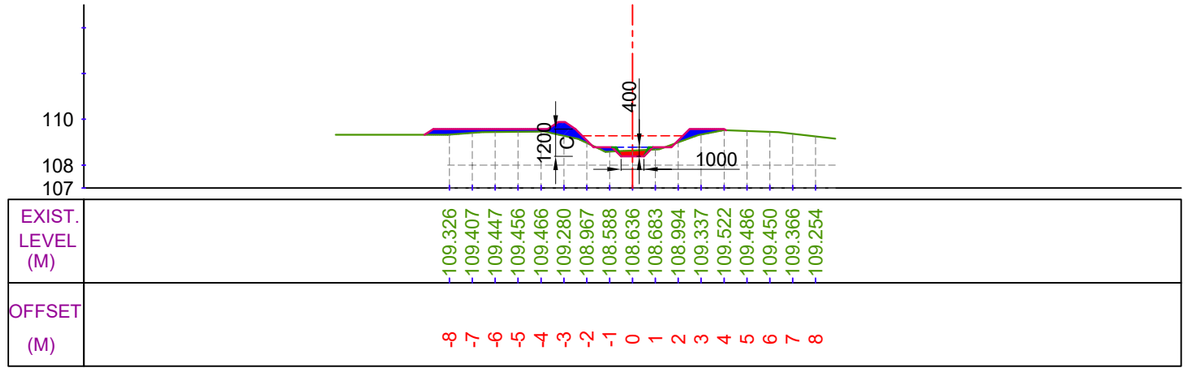
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X SECTION OF PRITAMPURA SUB DY.



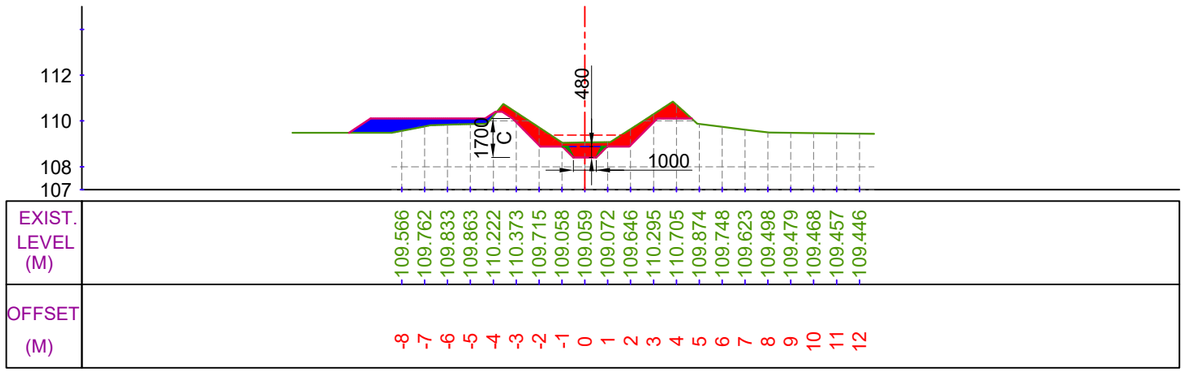
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.644

CH. (KM):- 13+300
DESIGNED BED LEVEL = 109.656 M



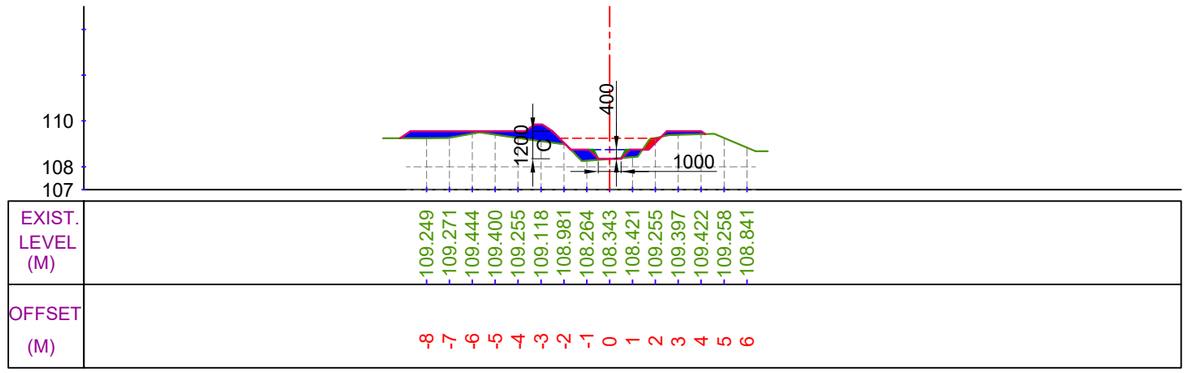
CUTTING AREA (SQ.M) = 0.322
FILLING AREA (SQ.M) = 2.132

CH. (KM):- 13+500
DESIGNED BED LEVEL = 108.377 M



CUTTING AREA (SQ.M) = 3.973
FILLING AREA (SQ.M) = 2.360

CH. (KM):- 13+400
DESIGNED BED LEVEL = 108.406 M



CUTTING AREA (SQ.M) = 0.179
FILLING AREA (SQ.M) = 2.886

CH. (KM):- 13+600
DESIGNED BED LEVEL = 108.348 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

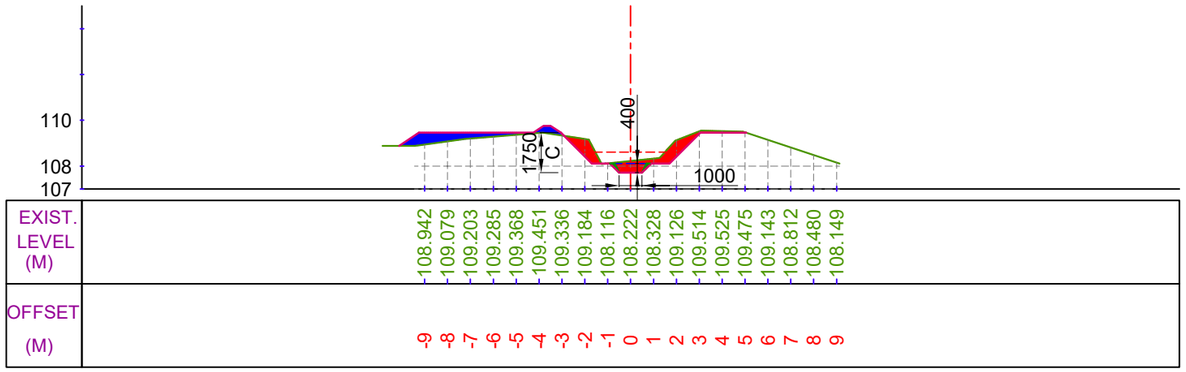
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 34 of 36

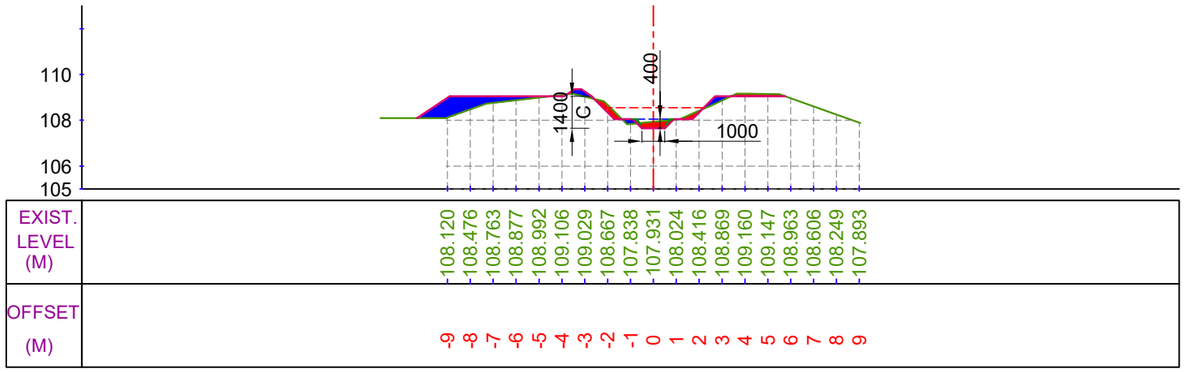
X SECTION OF PRITAMPURA SUB DY.



EXIST. LEVEL (M)	108.942	109.079	109.203	109.285	109.368	109.451	109.336	109.184	108.116	108.222	108.328	108.126	109.514	109.525	109.475	109.143	108.812	108.480	108.149
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 2.536
FILLING AREA (SQ.M) = 1.812

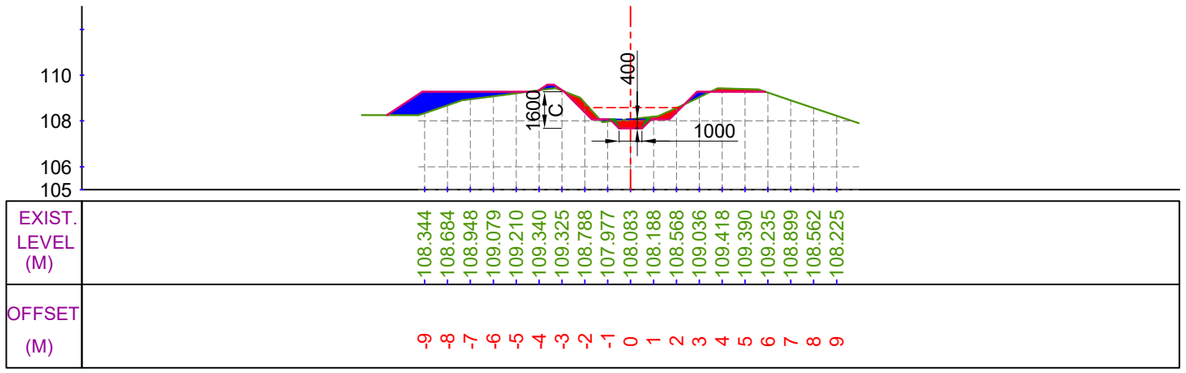
CH. (KM):- 13+700
DESIGNED BED LEVEL = 107.708 M



EXIST. LEVEL (M)	108.120	108.476	108.763	108.877	108.992	109.106	109.029	108.667	107.838	107.931	108.024	108.416	108.869	109.160	109.147	108.963	108.606	108.249	107.893
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 0.947
FILLING AREA (SQ.M) = 2.599

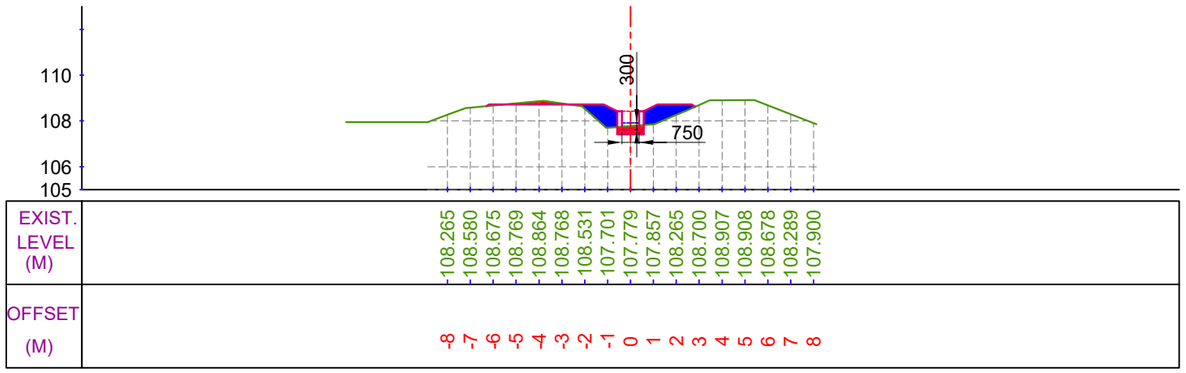
CH. (KM):- 13+900
DESIGNED BED LEVEL = 107.649 M



EXIST. LEVEL (M)	108.344	108.684	108.948	109.079	109.210	109.340	109.325	108.788	107.977	108.083	108.188	108.568	109.036	109.418	109.390	109.235	108.899	108.562	108.225
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 1.453
FILLING AREA (SQ.M) = 2.838

CH. (KM):- 13+800
DESIGNED BED LEVEL = 107.679 M



EXIST. LEVEL (M)	108.265	108.580	108.675	108.769	108.864	108.768	108.531	107.701	107.779	107.857	108.265	108.700	108.907	108.908	108.678	108.289	107.900		
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8		

CUTTING AREA (SQ.M) = 0.646
FILLING AREA (SQ.M) = 2.198

CH. (KM):- 14+000
DESIGNED BED LEVEL = 107.620 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

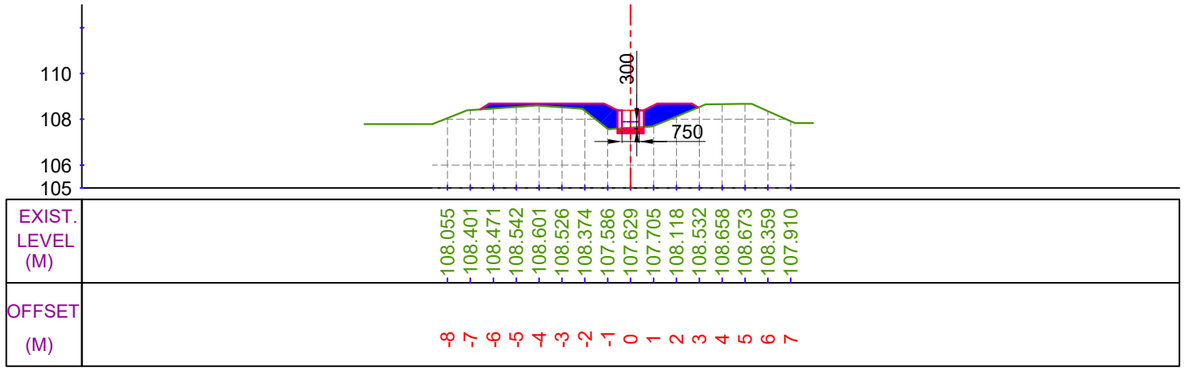
H.G. LINE

Prepared by :-

WAPCOS LTD.

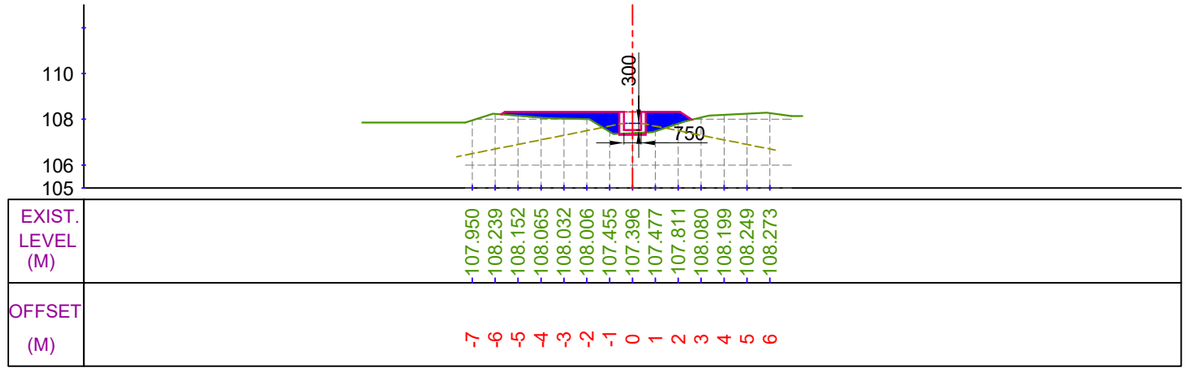
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 35 of 36

X SECTION OF PRITAMPURA SUB DY.



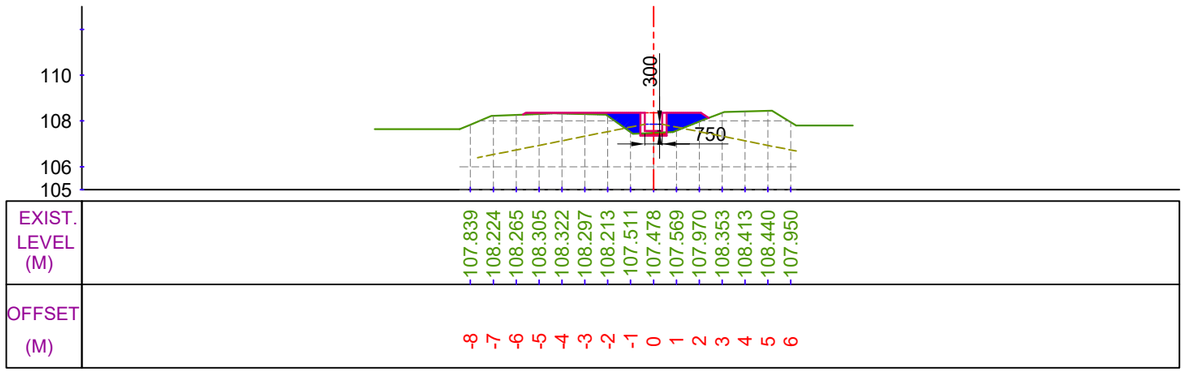
CUTTING AREA (SQ.M) = 0.276
FILLING AREA (SQ.M) = 3.245

CH. (KM):- 14+100
DESIGNED BED LEVEL = 107.589 M



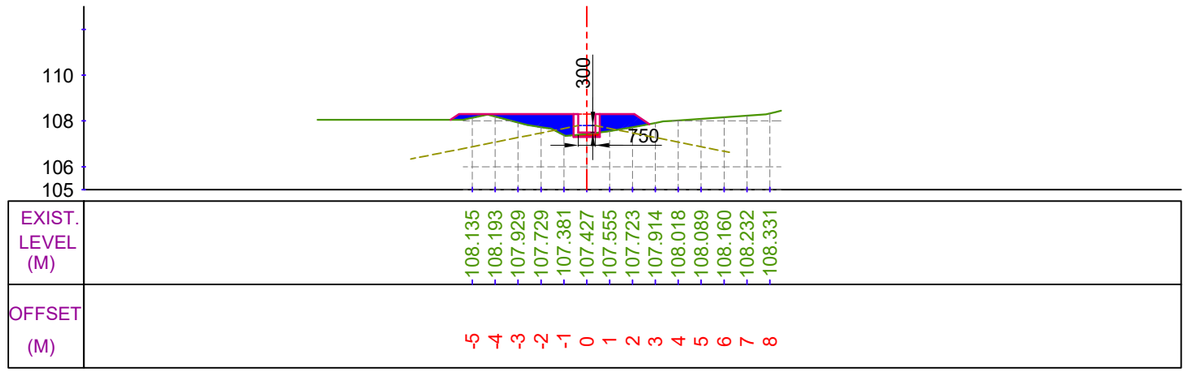
CUTTING AREA (SQ.M) = 0.081
FILLING AREA (SQ.M) = 3.089

CH. (KM):- 14+300
DESIGNED BED LEVEL = 107.526 M



CUTTING AREA (SQ.M) = 0.138
FILLING AREA (SQ.M) = 2.117

CH. (KM):- 14+200
DESIGNED BED LEVEL = 107.558 M



CUTTING AREA (SQ.M) = 0.153
FILLING AREA (SQ.M) = 3.299

CH. (KM):- 14+384
DESIGNED BED LEVEL = 107.500 M

LEGEND

CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

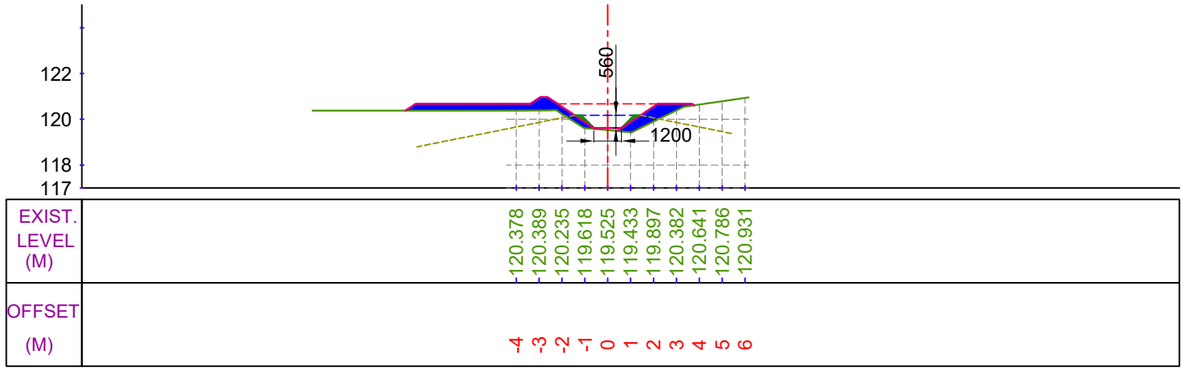
Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF PRITAMPURA SUB DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ XSEC- 36 of 36

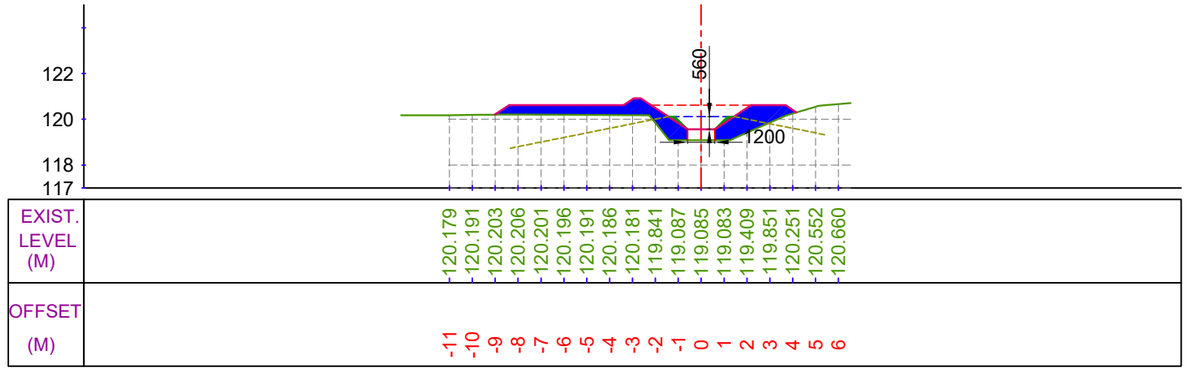
SIMRA MINOR

X SECTION OF SIMRA MINOR



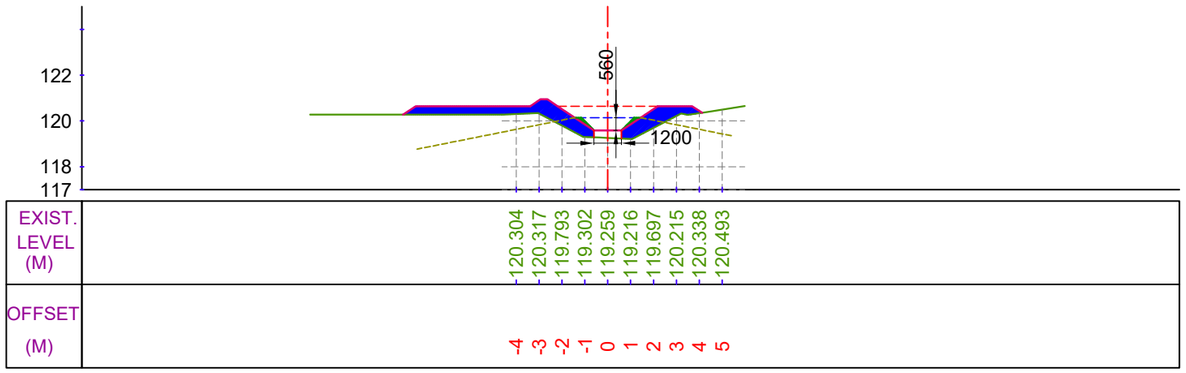
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.871

CH. (KM):- 0+100
DESIGNED BED LEVEL = 119.614 M



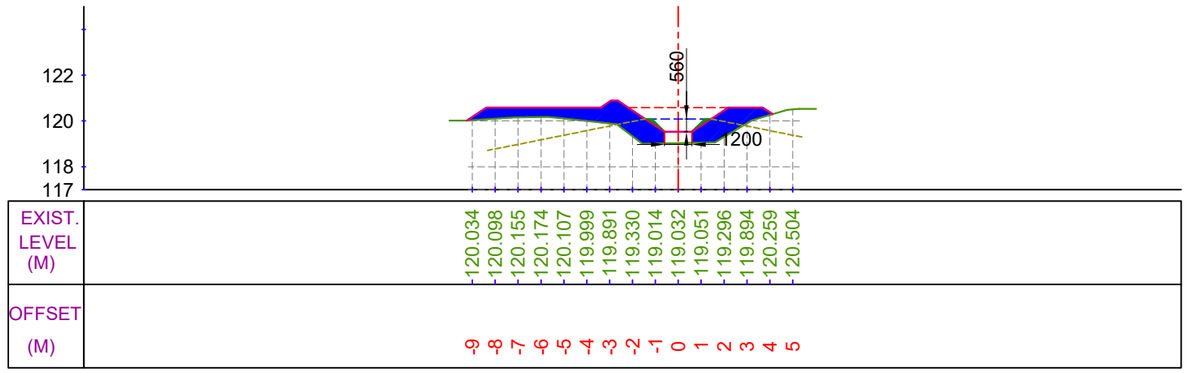
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.886

CH. (KM):- 0+300
DESIGNED BED LEVEL = 119.557 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.604

CH. (KM):- 0+200
DESIGNED BED LEVEL = 119.586 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.064

CH. (KM):- 0+400
DESIGNED BED LEVEL = 119.529 M

LEGEND

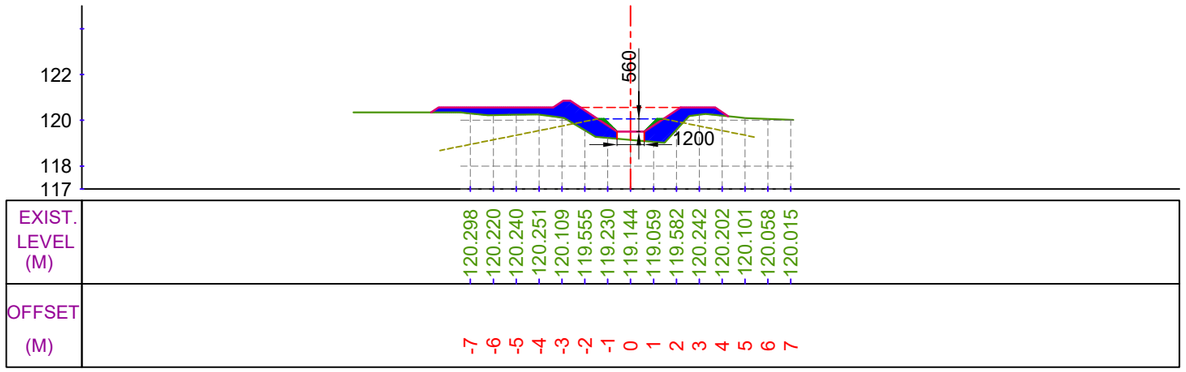
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

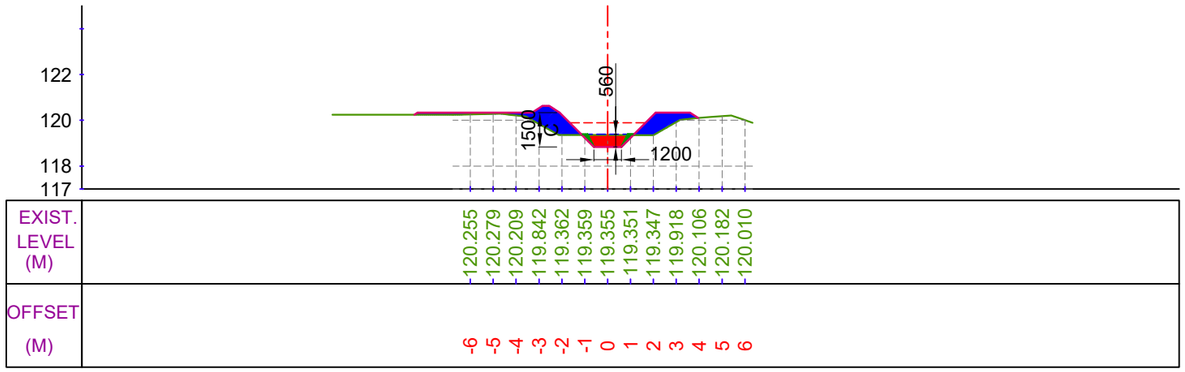
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 1 of 13

X SECTION OF SIMRA MINOR



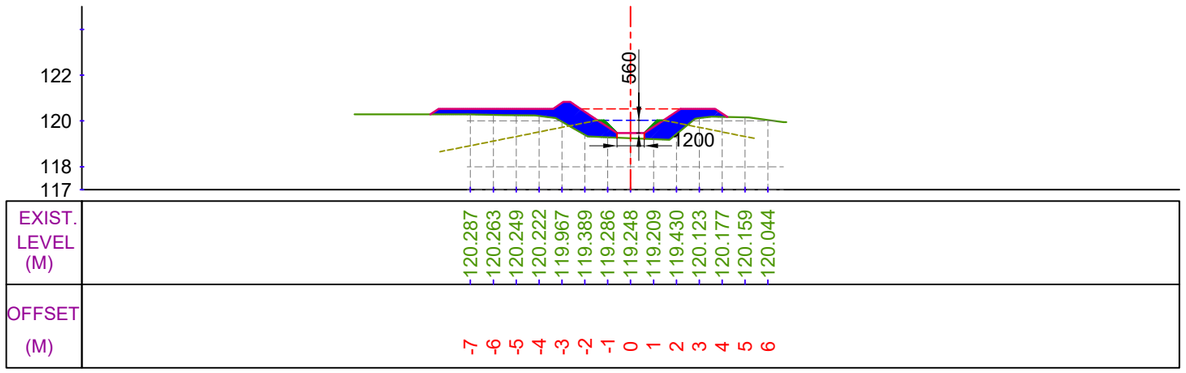
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.507

CH. (KM):- 0+500
DESIGNED BED LEVEL = 119.500 M



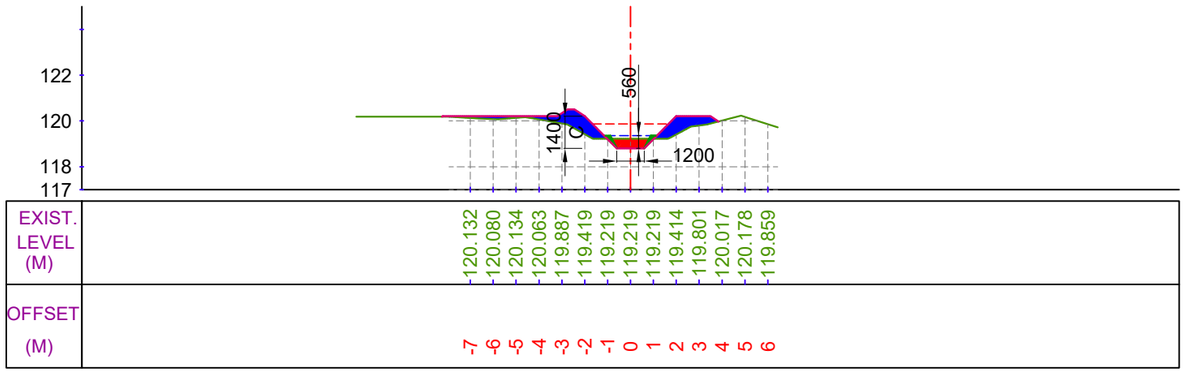
CUTTING AREA (SQ.M) = 0.763
FILLING AREA (SQ.M) = 3.300

CH. (KM):- 0+700
DESIGNED BED LEVEL = 118.833 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.596

CH. (KM):- 0+600
DESIGNED BED LEVEL = 119.472 M



CUTTING AREA (SQ.M) = 0.584
FILLING AREA (SQ.M) = 2.988

CH. (KM):- 0+800
DESIGNED BED LEVEL = 118.804 M

LEGEND

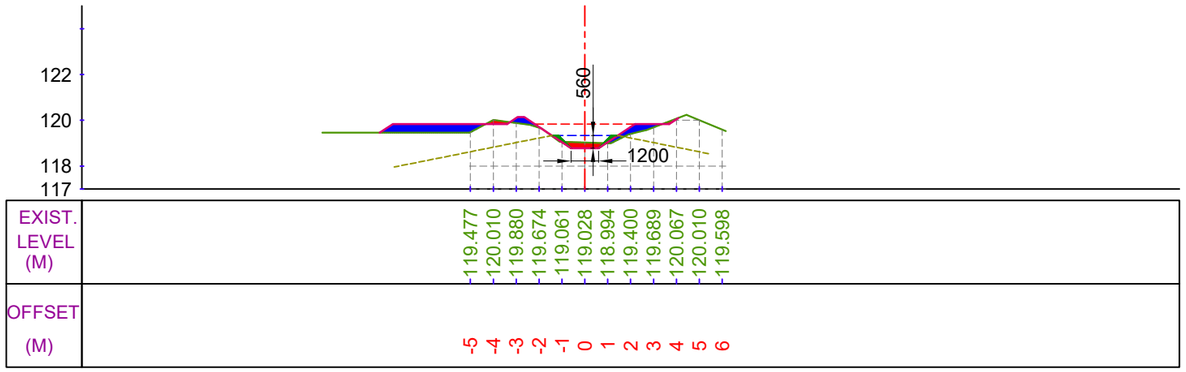
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

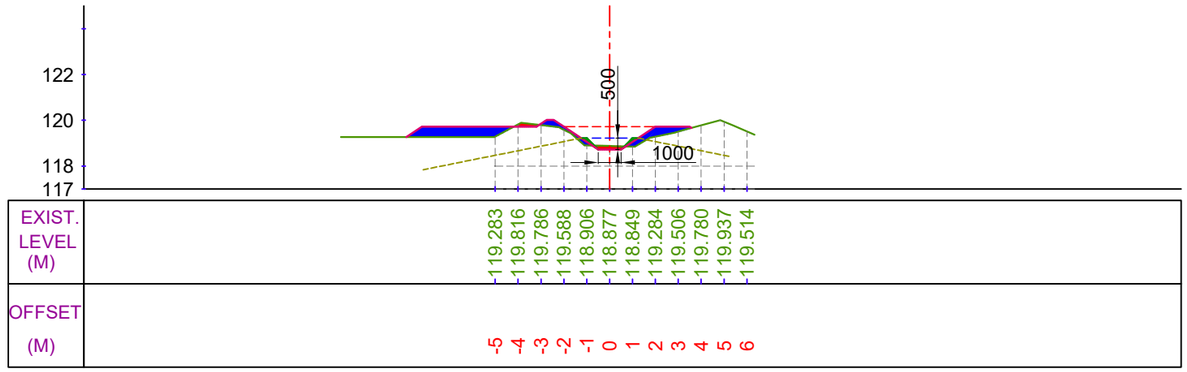
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 2 of 13

X SECTION OF SIMRA MINOR



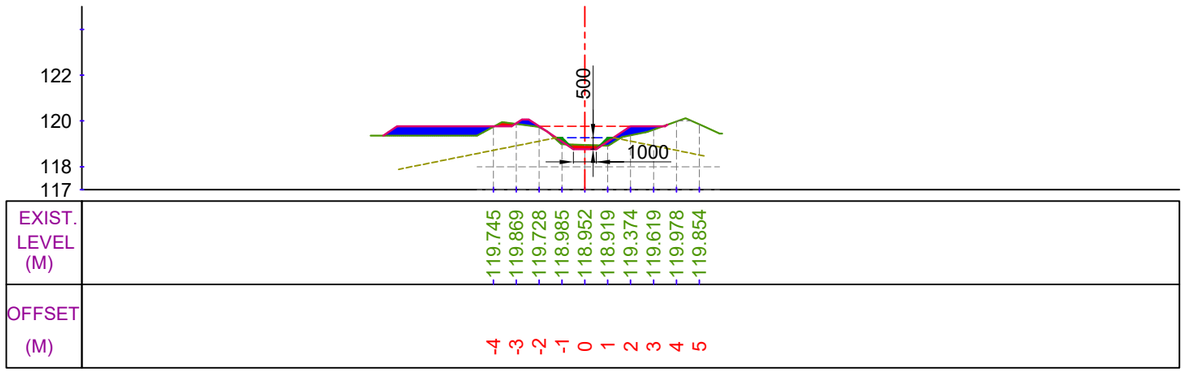
CUTTING AREA (SQ.M) = 0.523
FILLING AREA (SQ.M) = 2.270

CH. (KM):- 0+900
DESIGNED BED LEVEL = 118.776 M



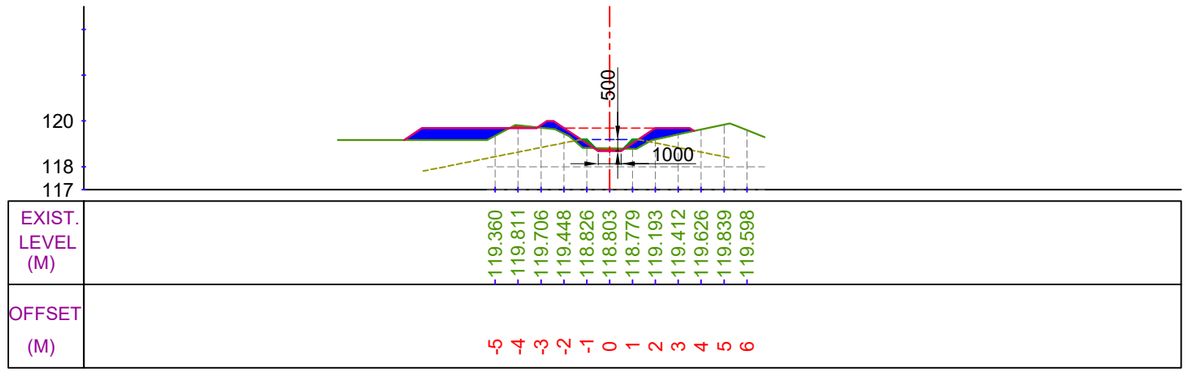
CUTTING AREA (SQ.M) = 0.301
FILLING AREA (SQ.M) = 2.897

CH. (KM):- 1+100
DESIGNED BED LEVEL = 118.719 M



CUTTING AREA (SQ.M) = 0.329
FILLING AREA (SQ.M) = 2.513

CH. (KM):- 1+000
DESIGNED BED LEVEL = 118.747 M



CUTTING AREA (SQ.M) = 0.221
FILLING AREA (SQ.M) = 3.445

CH. (KM):- 1+200
DESIGNED BED LEVEL = 118.690 M

LEGEND

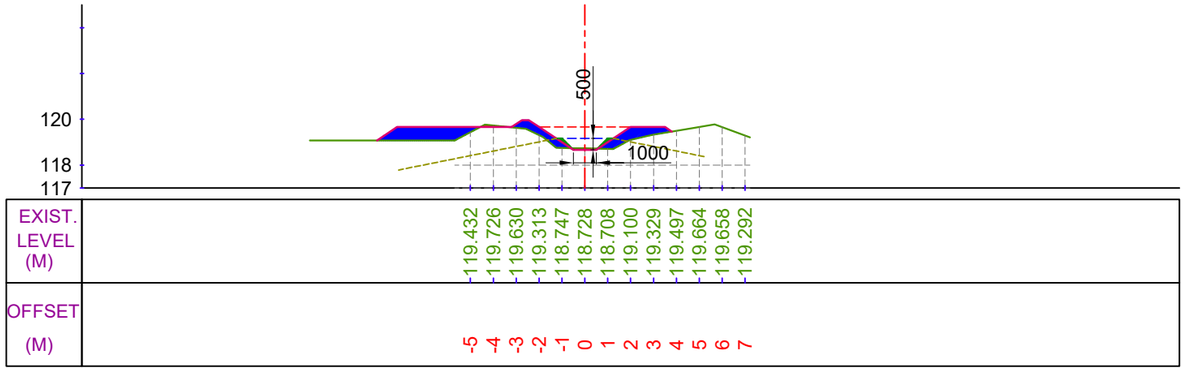
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

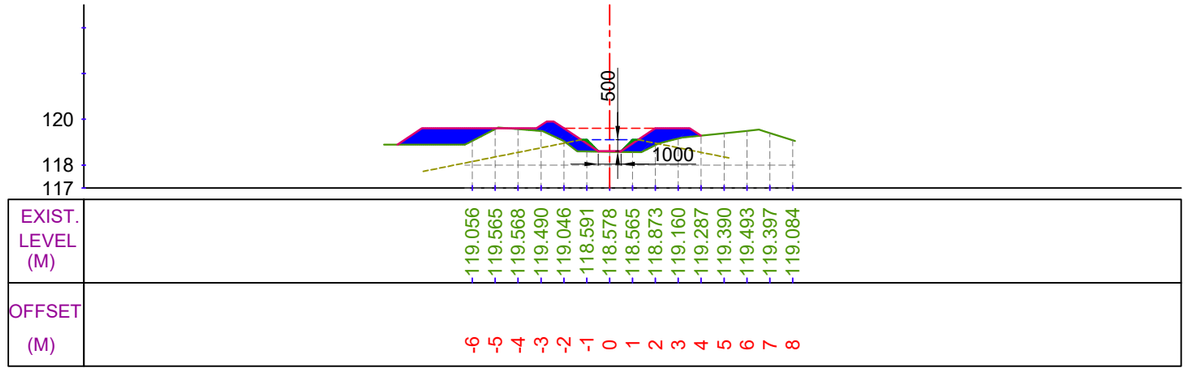
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 3 of 13

X SECTION OF SIMRA MINOR



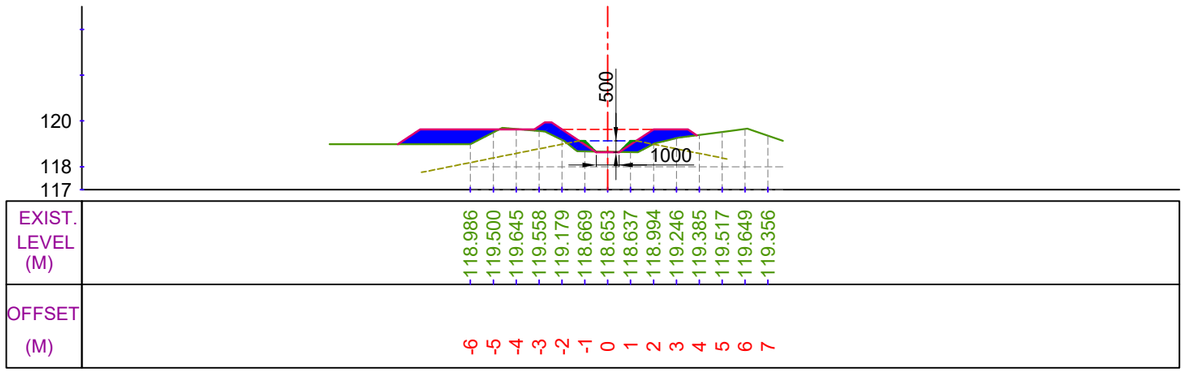
CUTTING AREA (SQ.M) = 0.131
FILLING AREA (SQ.M) = 3.989

CH. (KM):- 1+300
DESIGNED BED LEVEL = 118.662 M



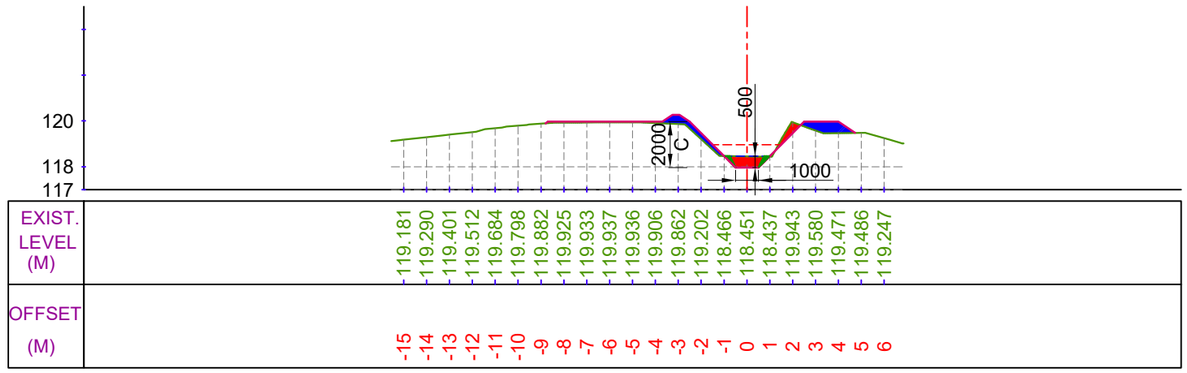
CUTTING AREA (SQ.M) = 0.007
FILLING AREA (SQ.M) = 5.067

CH. (KM):- 1+500
DESIGNED BED LEVEL = 118.604 M



CUTTING AREA (SQ.M) = 0.049
FILLING AREA (SQ.M) = 4.524

CH. (KM):- 1+400
DESIGNED BED LEVEL = 118.633 M



CUTTING AREA (SQ.M) = 0.920
FILLING AREA (SQ.M) = 1.745

CH. (KM):- 1+600
DESIGNED BED LEVEL = 117.966 M

LEGEND

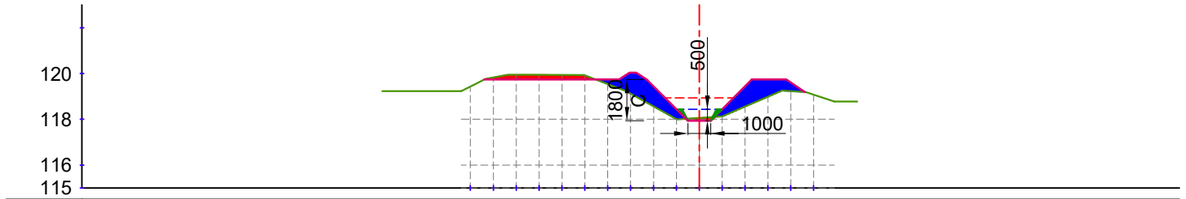
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

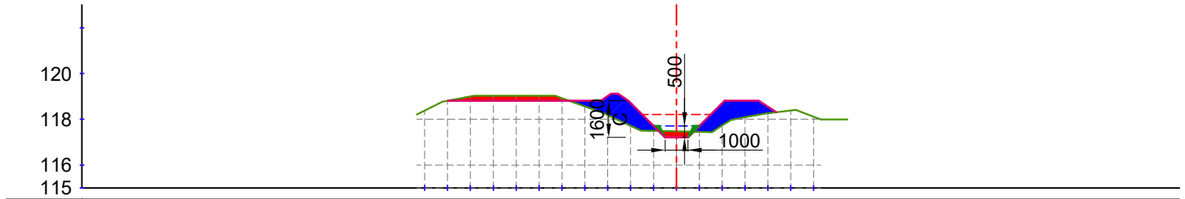
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 4 of 13

X SECTION OF SIMRA MINOR



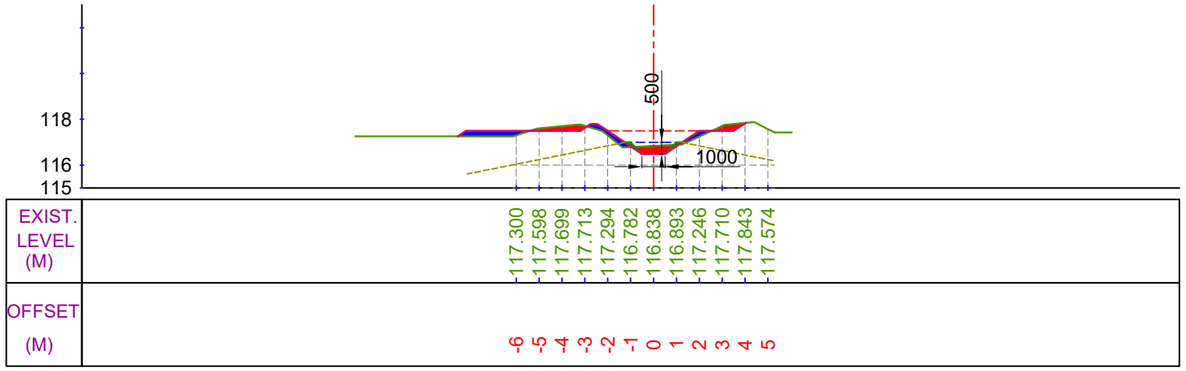
| | | |

X SECTION OF SIMRA MINOR



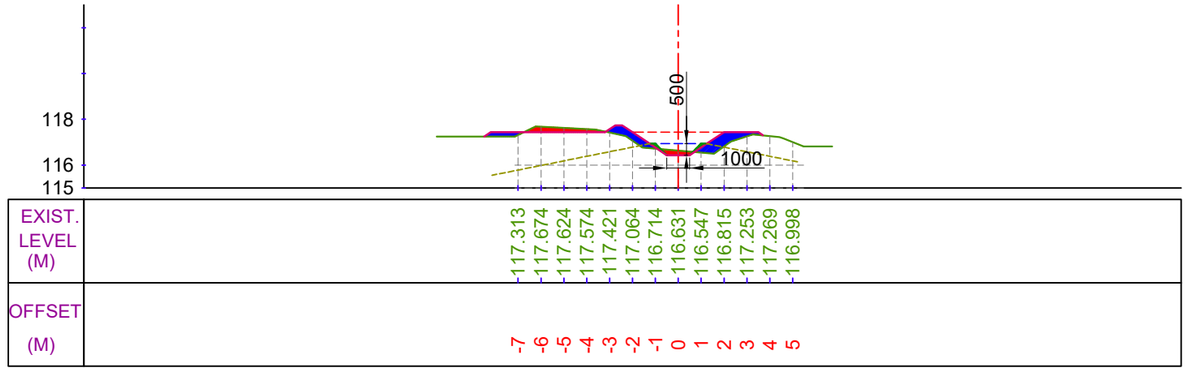
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X SECTION OF SIMRA MINOR



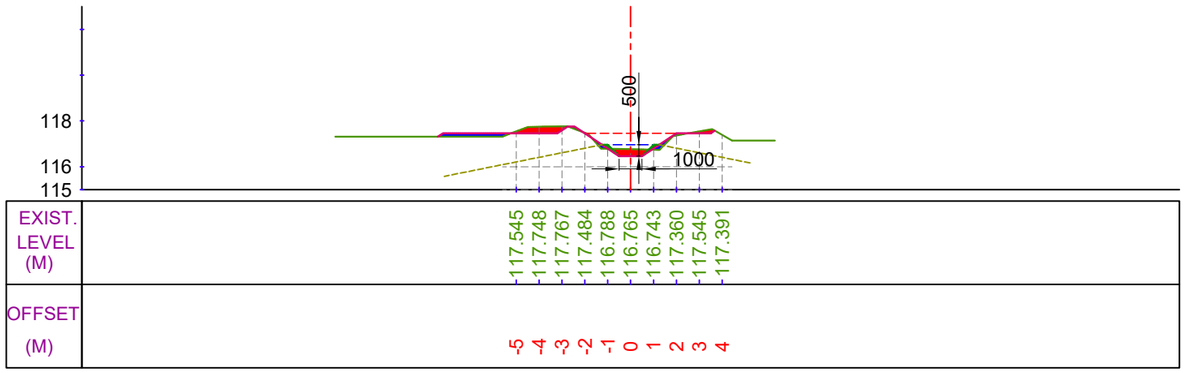
CUTTING AREA (SQ.M) = 1.170
FILLING AREA (SQ.M) = 1.175

CH. (KM):- 2+500
DESIGNED BED LEVEL = 116.489 M



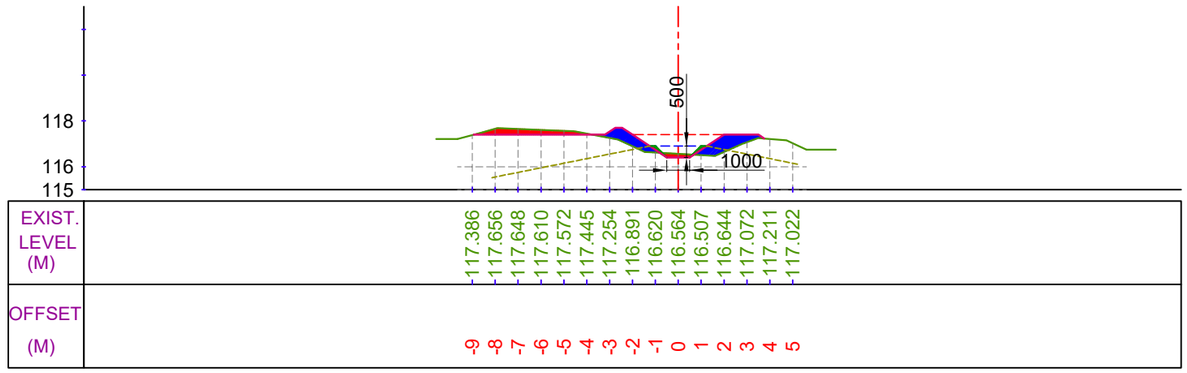
CUTTING AREA (SQ.M) = 0.833
FILLING AREA (SQ.M) = 1.887

CH. (KM):- 2+700
DESIGNED BED LEVEL = 116.432 M



CUTTING AREA (SQ.M) = 1.063
FILLING AREA (SQ.M) = 0.687

CH. (KM):- 2+600
DESIGNED BED LEVEL = 116.460 M



CUTTING AREA (SQ.M) = 1.113
FILLING AREA (SQ.M) = 2.225

CH. (KM):- 2+800
DESIGNED BED LEVEL = 116.403 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

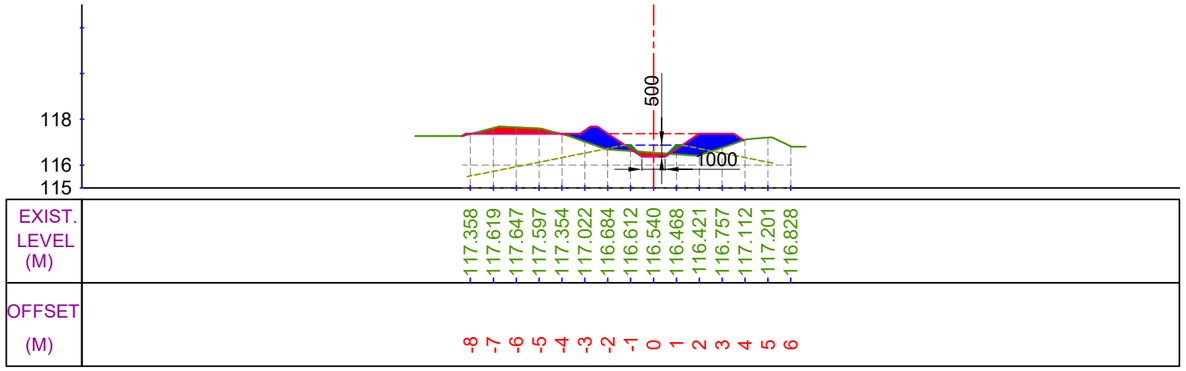
H.G. LINE

Prepared by :-

WAPCOS LTD.

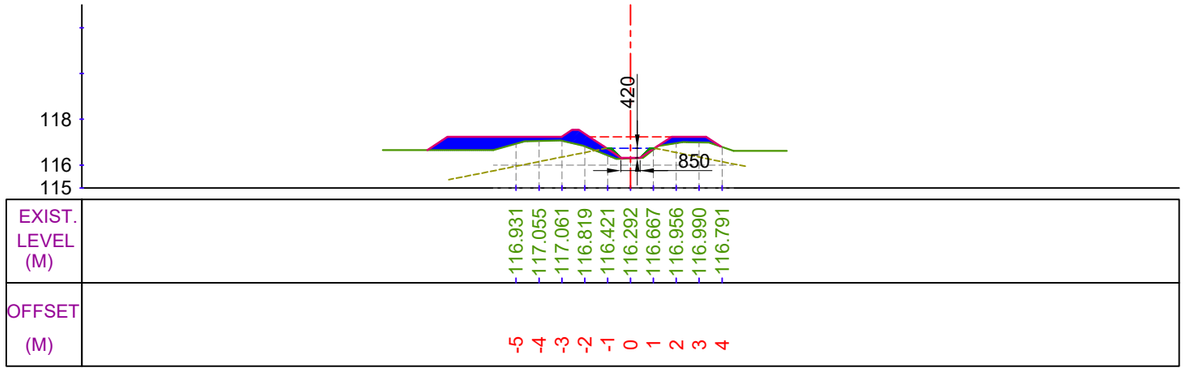
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 7 of 13

X SECTION OF SIMRA MINOR



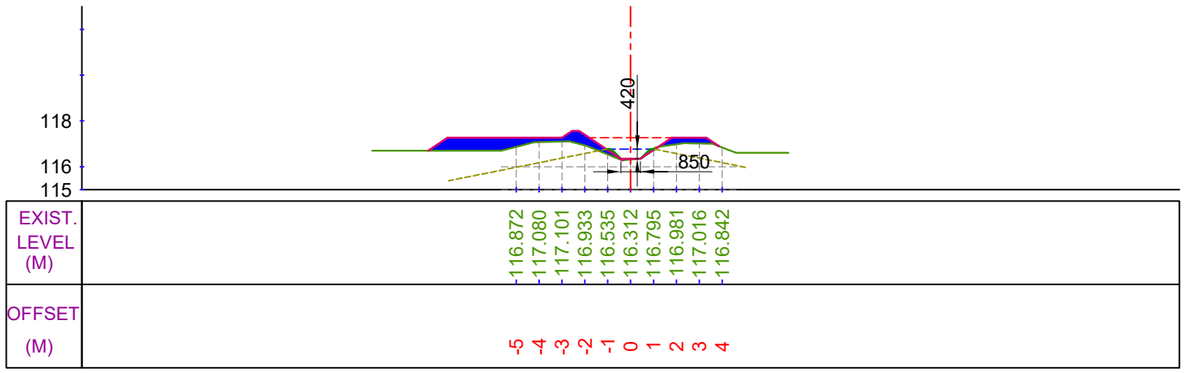
CUTTING AREA (SQ.M) = 0.958
FILLING AREA (SQ.M) = 3.142

CH. (KM):- 2+900
DESIGNED BED LEVEL = 116.374 M



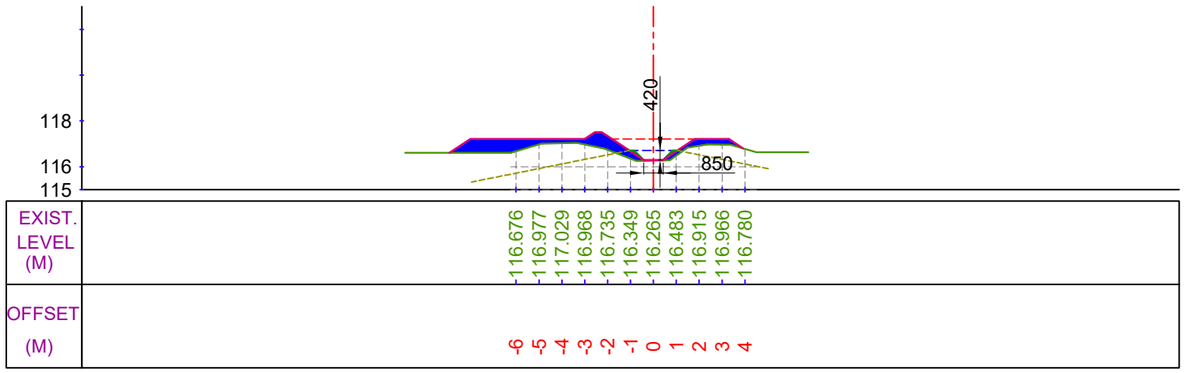
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.823

CH. (KM):- 3+100
DESIGNED BED LEVEL = 116.317 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.680

CH. (KM):- 3+000
DESIGNED BED LEVEL = 116.346 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.078

CH. (KM):- 3+200
DESIGNED BED LEVEL = 116.289 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

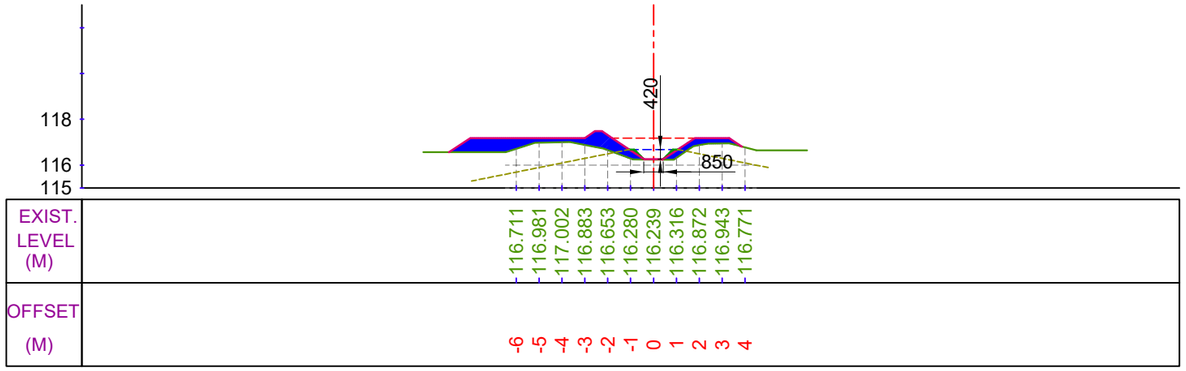
H.G. LINE

Prepared by :-

WAPCOS LTD.

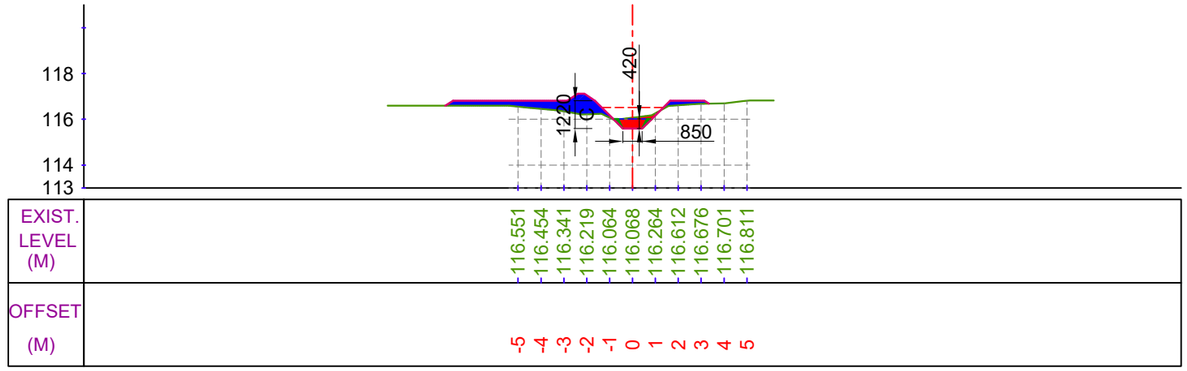
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 8 of 13

X SECTION OF SIMRA MINOR



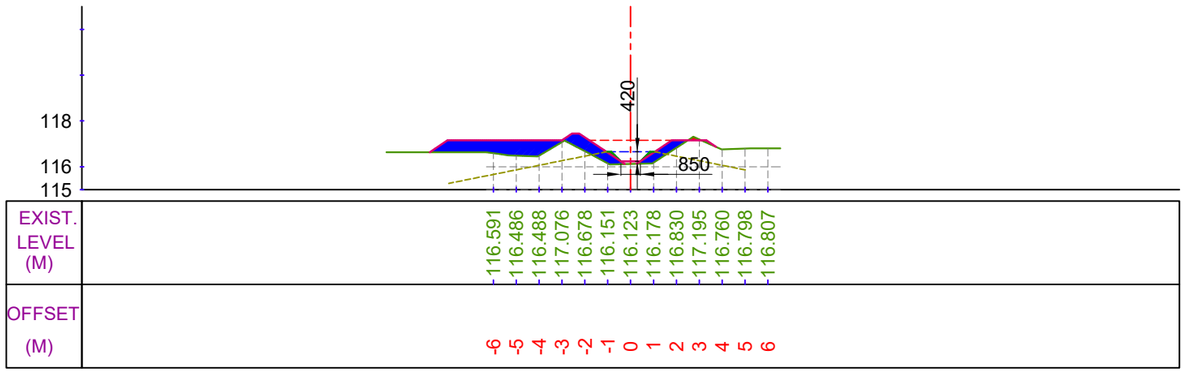
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.285

CH. (KM):- 3+300
DESIGNED BED LEVEL = 116.260 M



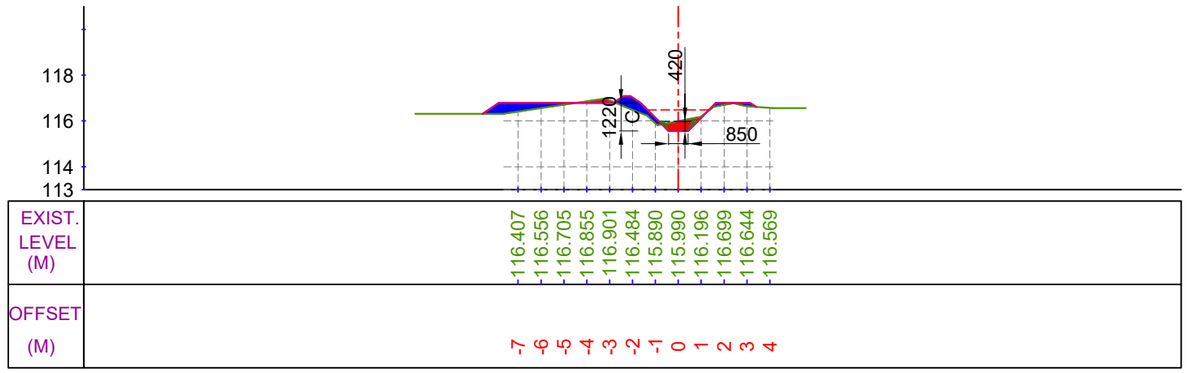
CUTTING AREA (SQ.M) = 0.578
FILLING AREA (SQ.M) = 2.903

CH. (KM):- 3+500
DESIGNED BED LEVEL = 115.593 M



CUTTING AREA (SQ.M) = 0.048
FILLING AREA (SQ.M) = 4.788

CH. (KM):- 3+400
DESIGNED BED LEVEL = 116.232 M



CUTTING AREA (SQ.M) = 0.678
FILLING AREA (SQ.M) = 1.887

CH. (KM):- 3+600
DESIGNED BED LEVEL = 115.564 M

LEGEND

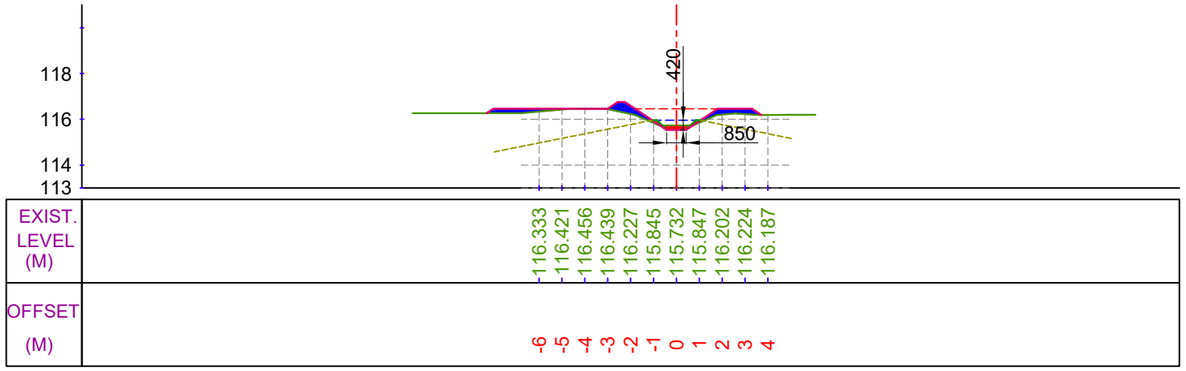
CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

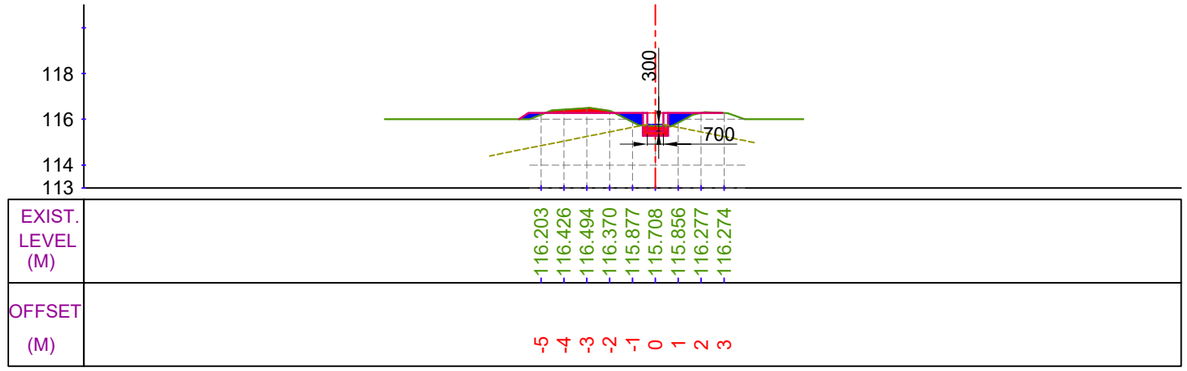
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 9 of 13

X SECTION OF SIMRA MINOR



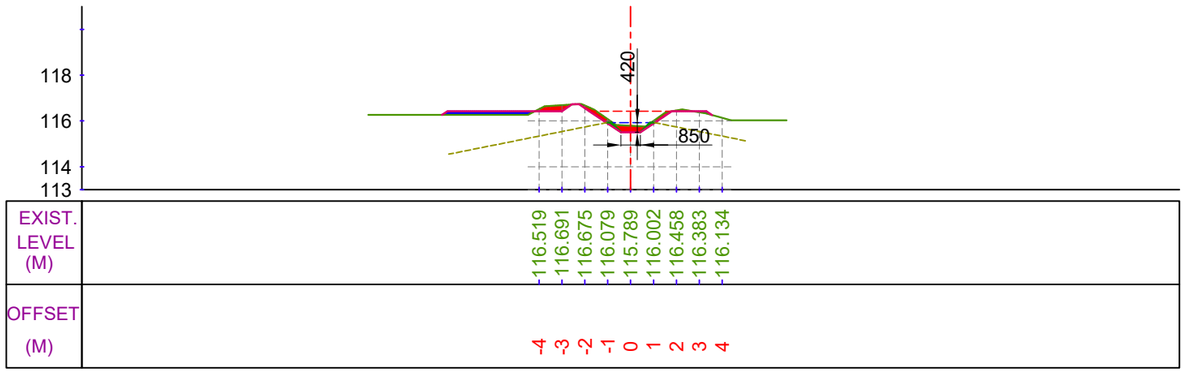
CUTTING AREA (SQ.M) = 0.207
FILLING AREA (SQ.M) = 1.569

CH. (KM):- 3+700
DESIGNED BED LEVEL = 115.536 M



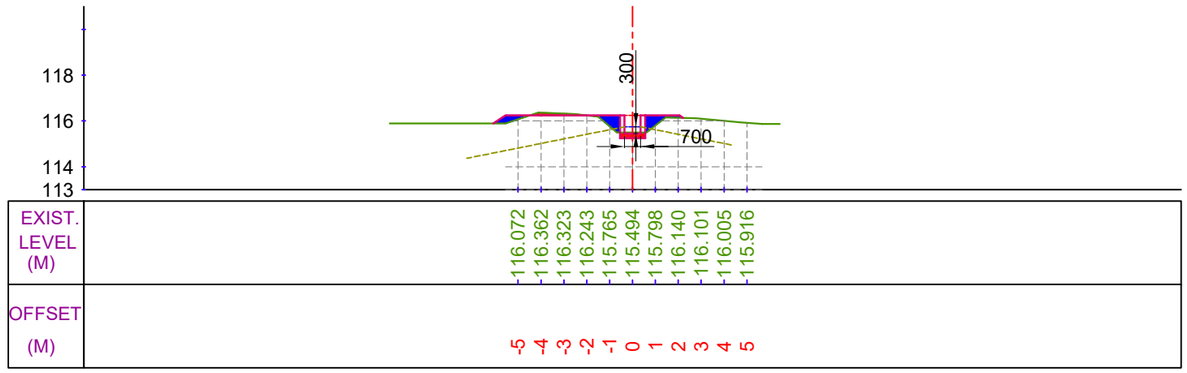
CUTTING AREA (SQ.M) = 0.935
FILLING AREA (SQ.M) = 0.960

CH. (KM):- 3+900
DESIGNED BED LEVEL = 115.477 M



CUTTING AREA (SQ.M) = 0.955
FILLING AREA (SQ.M) = 0.632

CH. (KM):- 3+800
DESIGNED BED LEVEL = 115.507 M



CUTTING AREA (SQ.M) = 0.452
FILLING AREA (SQ.M) = 1.204

CH. (KM):- 4+000
DESIGNED BED LEVEL = 115.446 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

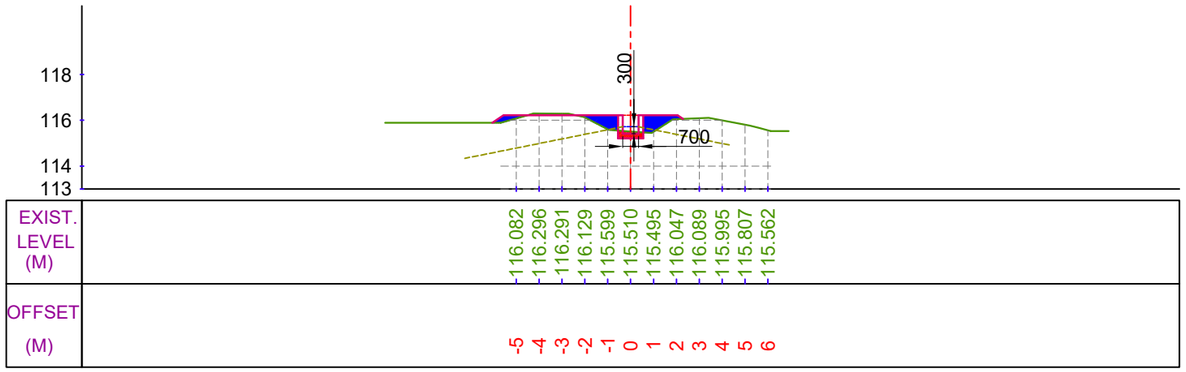
H.G. LINE

Prepared by :-

WAPCOS LTD.

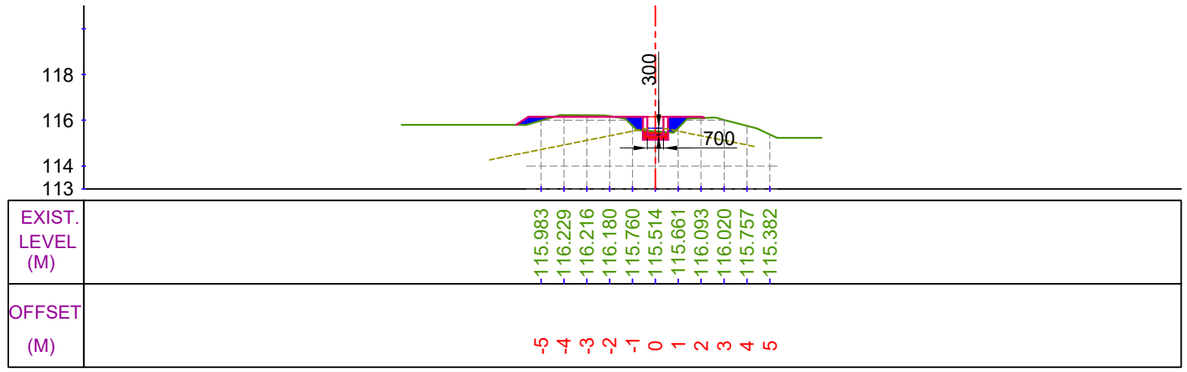
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 10 of 13

X SECTION OF SIMRA MINOR



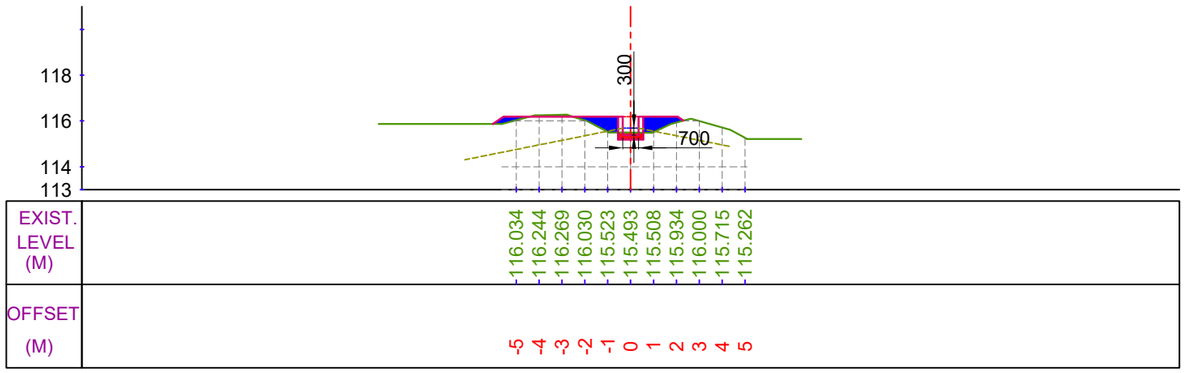
CUTTING AREA (SQ.M) = 0.469
FILLING AREA (SQ.M) = 1.656

CH. (KM):- 4+100
DESIGNED BED LEVEL = 115.415 M



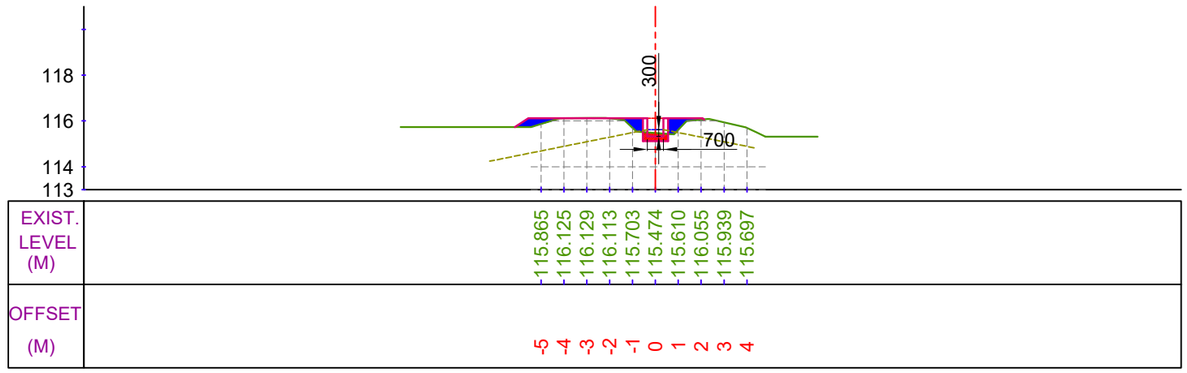
CUTTING AREA (SQ.M) = 0.551
FILLING AREA (SQ.M) = 1.072

CH. (KM):- 4+300
DESIGNED BED LEVEL = 115.352 M



CUTTING AREA (SQ.M) = 0.460
FILLING AREA (SQ.M) = 1.782

CH. (KM):- 4+200
DESIGNED BED LEVEL = 115.384 M



CUTTING AREA (SQ.M) = 0.402
FILLING AREA (SQ.M) = 1.254

CH. (KM):- 4+400
DESIGNED BED LEVEL = 115.321 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

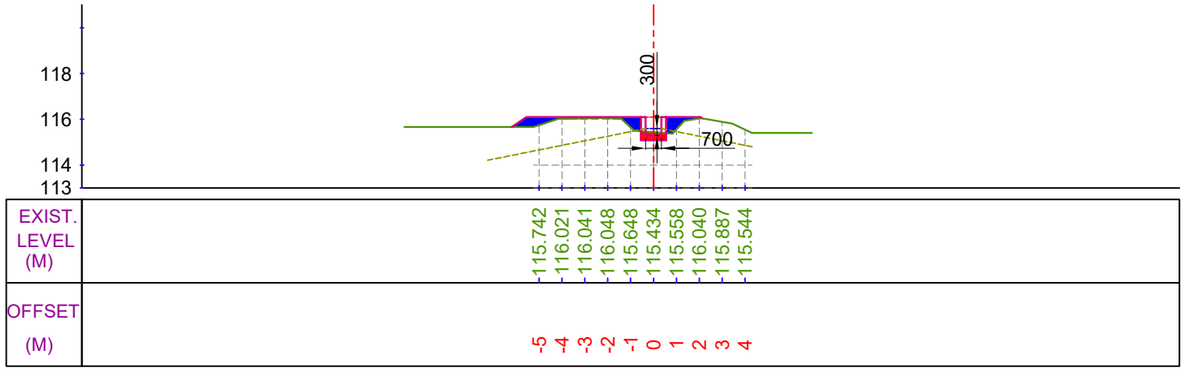
H.G. LINE

Prepared by :-

WAPCOS LTD.

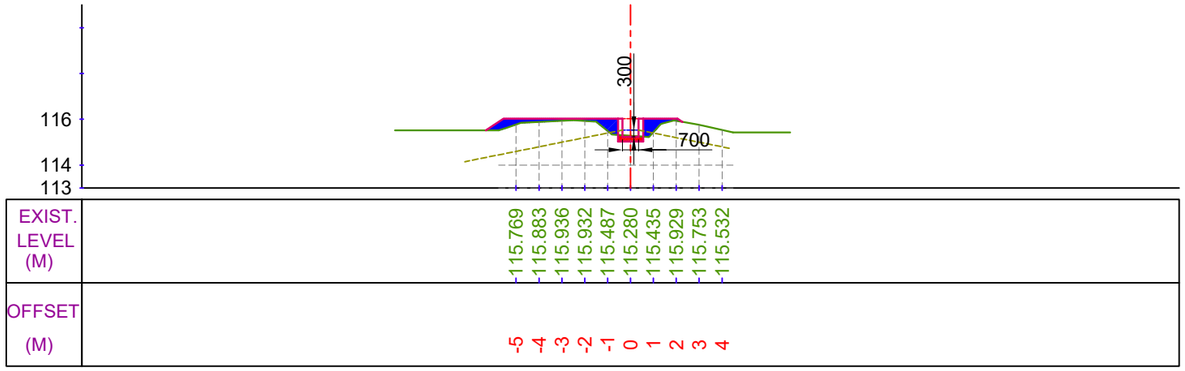
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 11 of 13

X SECTION OF SIMRA MINOR



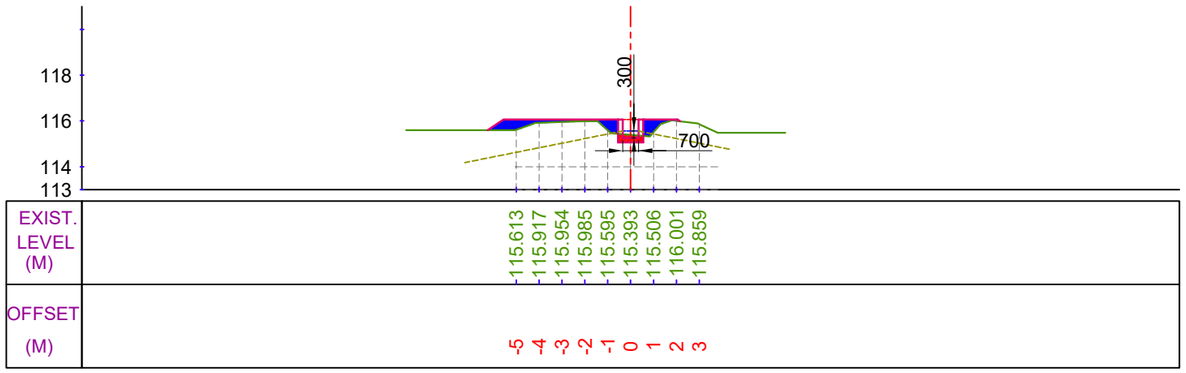
CUTTING AREA (SQ.M) = 0.378
FILLING AREA (SQ.M) = 1.541

CH. (KM):- 4+500
DESIGNED BED LEVEL = 115.290 M



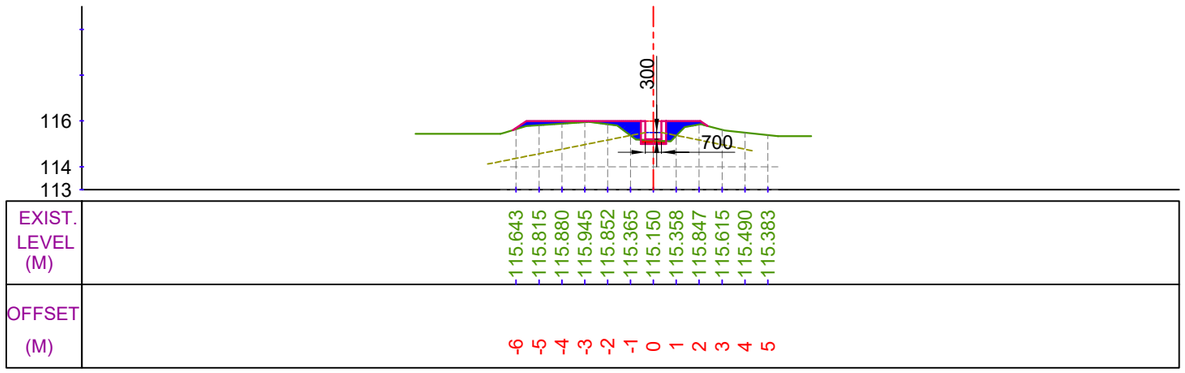
CUTTING AREA (SQ.M) = 0.278
FILLING AREA (SQ.M) = 1.867

CH. (KM):- 4+700
DESIGNED BED LEVEL = 115.227 M



CUTTING AREA (SQ.M) = 0.368
FILLING AREA (SQ.M) = 1.827

CH. (KM):- 4+600
DESIGNED BED LEVEL = 115.259 M



CUTTING AREA (SQ.M) = 0.169
FILLING AREA (SQ.M) = 1.837

CH. (KM):- 4+800
DESIGNED BED LEVEL = 115.196 M

LEGEND

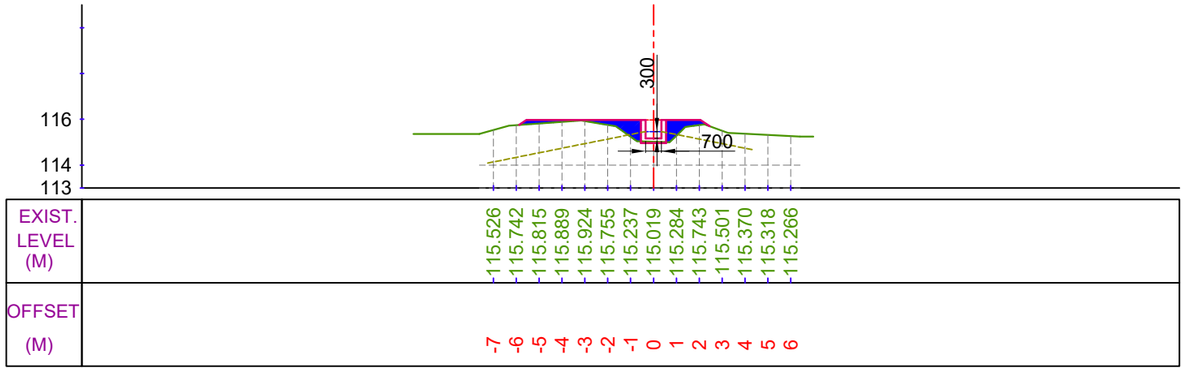
CUT AREA		
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

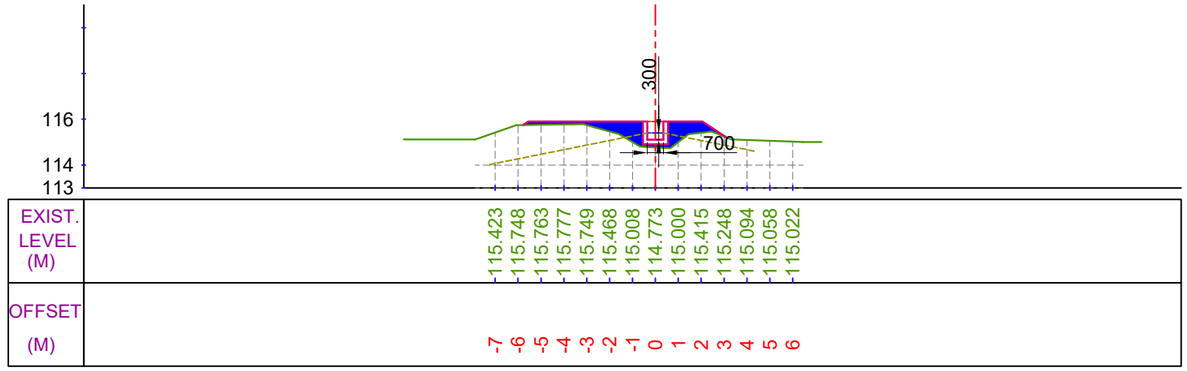
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 12 of 13

X SECTION OF SIMRA MINOR



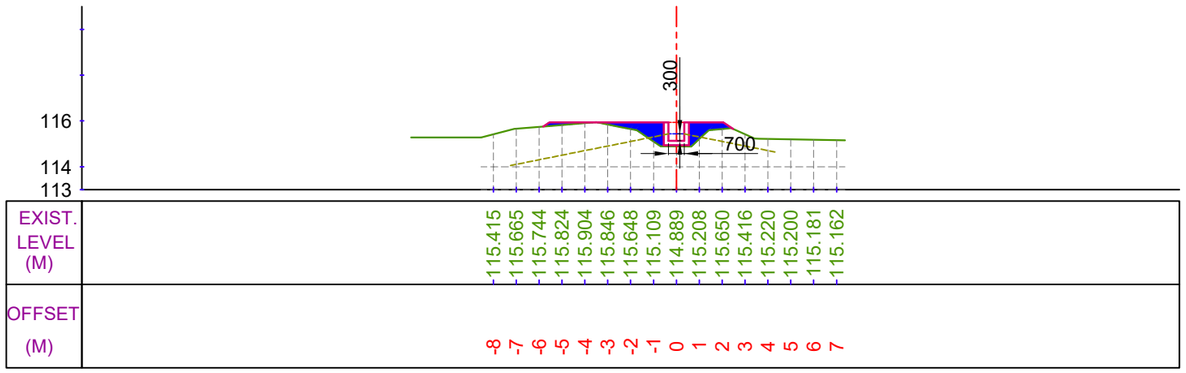
CUTTING AREA (SQ.M) = 0.060
FILLING AREA (SQ.M) = 1.992

CH. (KM):- 4+900
DESIGNED BED LEVEL = 115.165 M



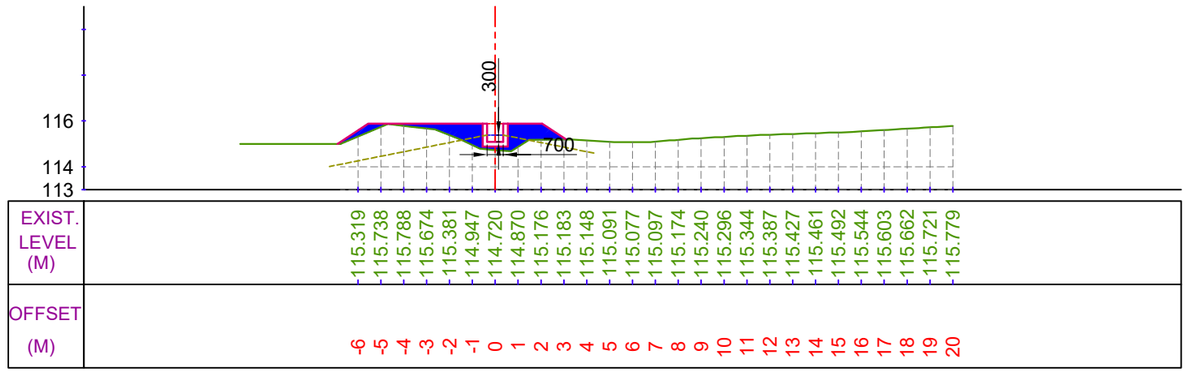
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.169

CH. (KM):- 5+100
DESIGNED BED LEVEL = 115.102 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 2.252

CH. (KM):- 5+000
DESIGNED BED LEVEL = 115.134 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 4.037

CH. (KM):- 5+151
DESIGNED BED LEVEL = 115.086 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

H.G. LINE

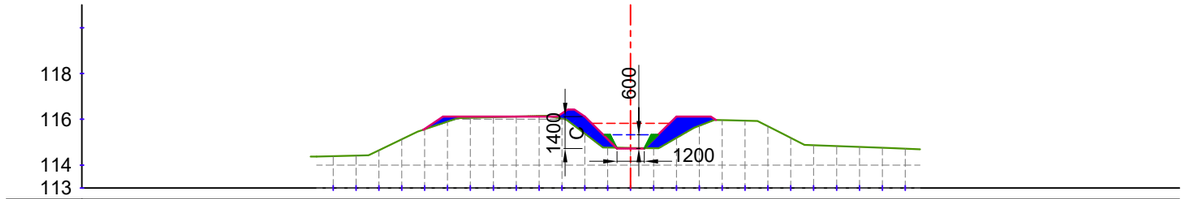
Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 13 of 13

SALEMPUR MINOR

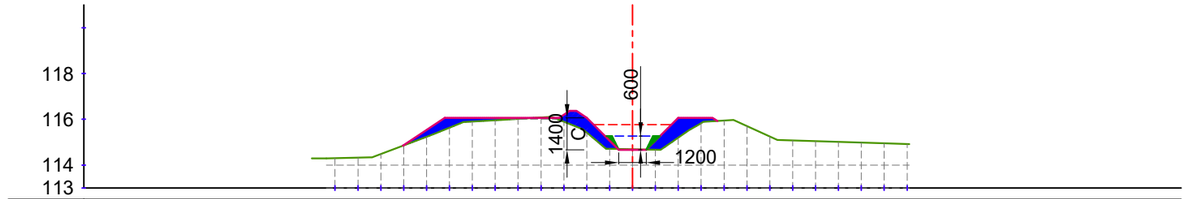
X SECTION OF SALEMPUR MINOR



EXIST. LEVEL (M)	114.386	114.414	114.647	115.129	115.565	115.897	116.068	116.095	116.122	116.149	116.025	115.372	114.767	114.750	114.733	115.184	115.720	115.960	115.938	115.695	115.187	114.869	114.831	114.793	114.755	114.717
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

CUTTING AREA (SQ.M) = 0.065
FILLING AREA (SQ.M) = 3.239

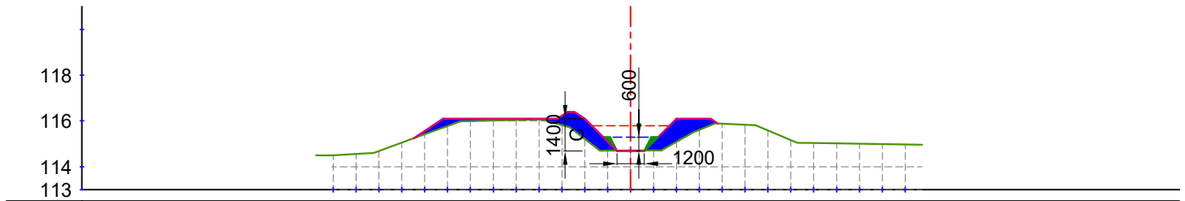
CH. (KM):- 0+100
DESIGNED BED LEVEL = 114.720 M



EXIST. LEVEL (M)	114.303	114.323	114.479	114.855	115.230	115.631	115.901	115.960	116.020	116.079	115.892	115.420	114.710	114.689	114.669	115.198	115.833	115.942	115.697	115.242	115.072	115.041	115.010	114.978	114.947	114.916
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

CUTTING AREA (SQ.M) = 0.050
FILLING AREA (SQ.M) = 3.709

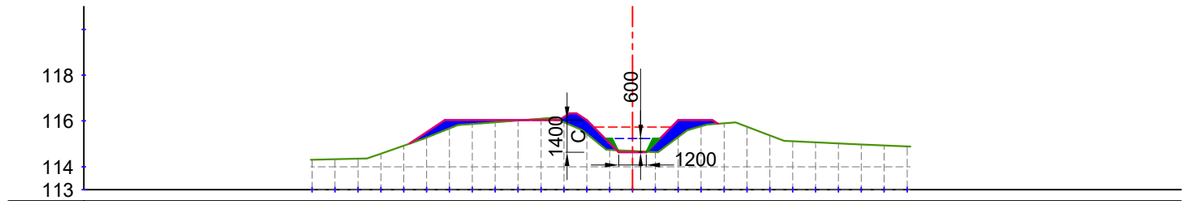
CH. (KM):- 0+300
DESIGNED BED LEVEL = 114.663 M



EXIST. LEVEL (M)	114.498	114.558	114.689	115.053	115.417	115.778	115.993	116.020	116.046	116.073	115.819	115.215	114.703	114.708	114.713	115.083	115.611	115.885	115.833	115.587	115.169	115.033	115.018	115.002	114.986	114.970
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

CUTTING AREA (SQ.M) = 0.019
FILLING AREA (SQ.M) = 4.120

CH. (KM):- 0+200
DESIGNED BED LEVEL = 114.692 M



EXIST. LEVEL (M)	114.300	114.324	114.348	114.569	114.920	115.275	115.671	115.870	115.946	116.022	116.099	115.948	115.440	114.737	114.688	114.638	115.301	115.766	115.901	115.749	115.368	115.112	115.066	115.021	114.976	114.931	114.886
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

CUTTING AREA (SQ.M) = 0.152
FILLING AREA (SQ.M) = 3.175

CH. (KM):- 0+400
DESIGNED BED LEVEL = 114.635 M

LEGEND

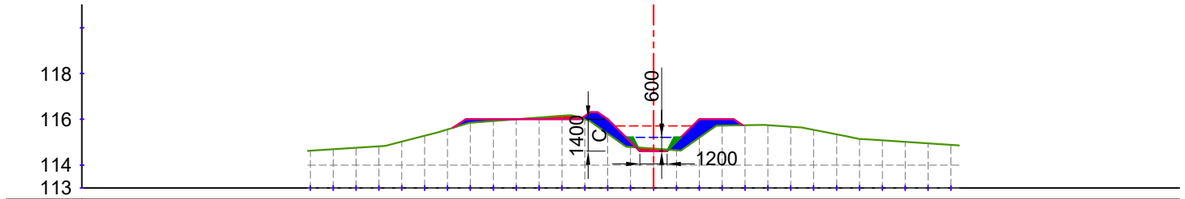
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

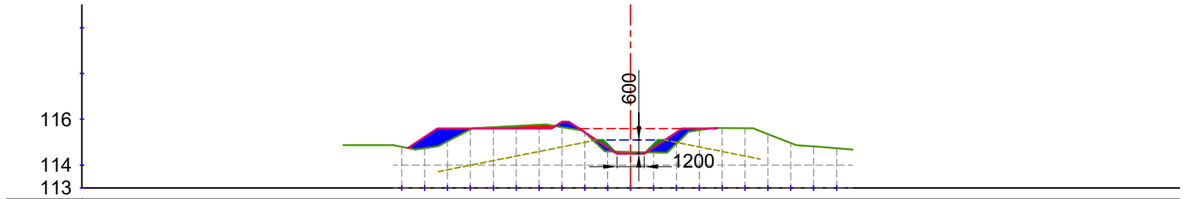
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SALEMPUR MINOR (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC- 1 of 15

X SECTION OF SALEMPUR MINOR



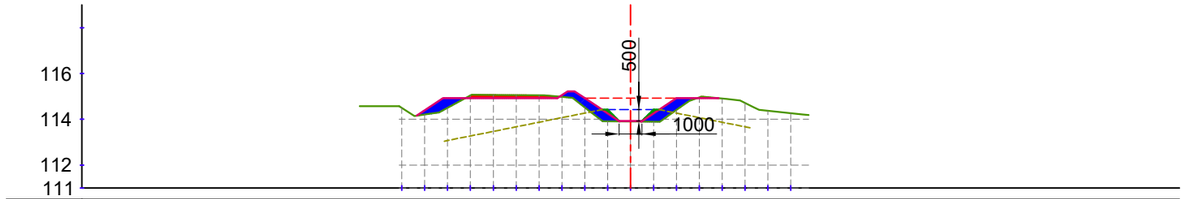
| | | |

X SECTION OF SALEMPUR MINOR



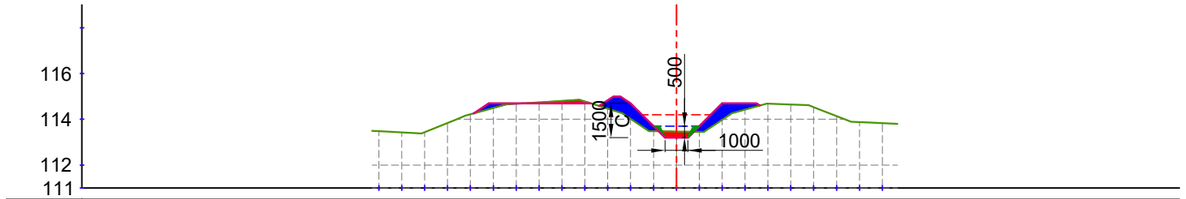
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X SECTION OF SALEMPUR MINOR



| | | |

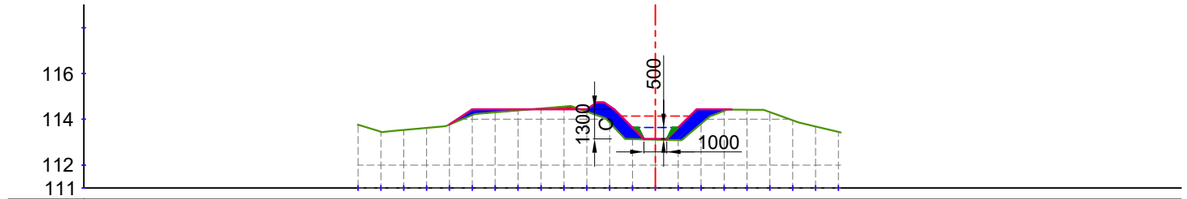
X SECTION OF SALEMPUR MINOR



EXIST. LEVEL (M)	113.482	113.425	113.430	113.838	114.219	114.492	114.675	114.739	114.804	114.779	114.463	114.019	113.480	113.464	113.449	113.979	114.424	114.681	114.643	114.526	114.136	113.872	113.831		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9		

CUTTING AREA (SQ.M) = 0.535
FILLING AREA (SQ.M) = 2.563

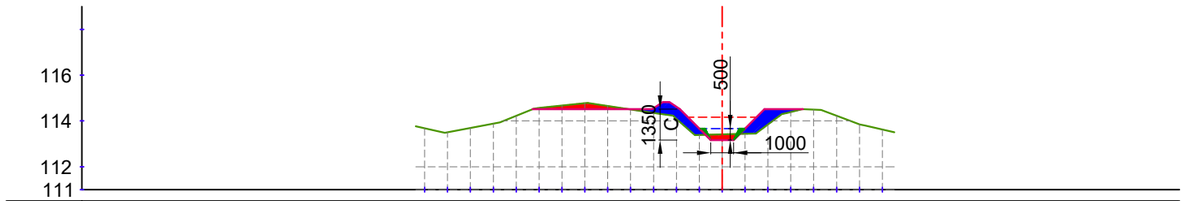
CH. (KM):- 1+700
DESIGNED BED LEVEL = 113.196 M



EXIST. LEVEL (M)	113.768	113.453	113.531	113.625	113.773	114.188	114.306	114.388	114.470	114.553	114.332	113.854	113.134	113.111	113.088	113.805	114.365	114.414	114.313	113.959	113.683	113.453			
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8			

CUTTING AREA (SQ.M) = 0.143
FILLING AREA (SQ.M) = 2.996

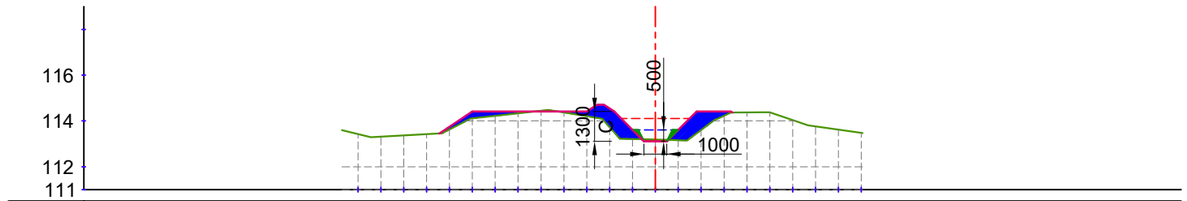
CH. (KM):- 1+900
DESIGNED BED LEVEL = 113.139 M



EXIST. LEVEL (M)	113.681	113.511	113.698	113.886	114.227	114.567	114.672	114.776	114.655	114.505	114.356	114.097	113.390	113.415	113.441	113.844	114.393	114.494	114.228	113.857	113.629				
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7				

CUTTING AREA (SQ.M) = 0.867
FILLING AREA (SQ.M) = 2.081

CH. (KM):- 1+800
DESIGNED BED LEVEL = 113.168 M



EXIST. LEVEL (M)	113.424	113.311	113.366	113.420	113.627	114.117	114.228	114.339	114.451	114.374	114.209	113.726	113.209	113.183	113.158	113.605	114.228	114.370	114.376	114.037	113.767	113.626	113.485		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9		

CUTTING AREA (SQ.M) = 0.118
FILLING AREA (SQ.M) = 3.540

CH. (KM):- 2+000
DESIGNED BED LEVEL = 113.111 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

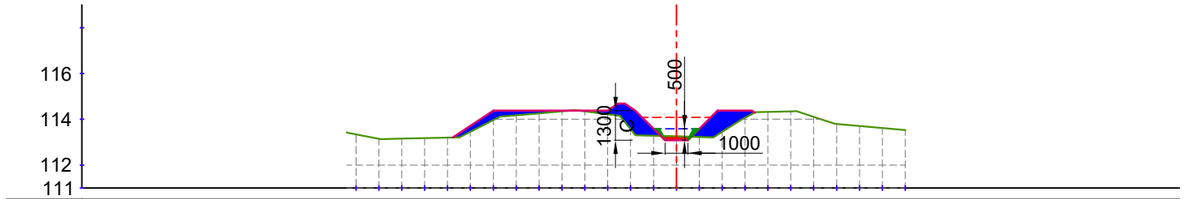
H.G. LINE

Prepared by :-

WAPCOS LTD.

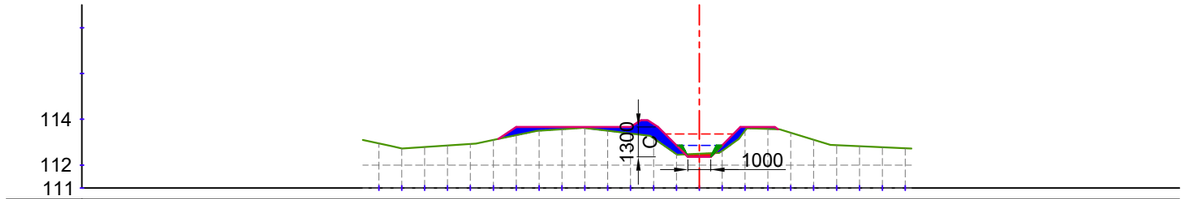
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SALEMPUR MINOR (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC- 5 of 15

X SECTION OF SALEMPUR MINOR



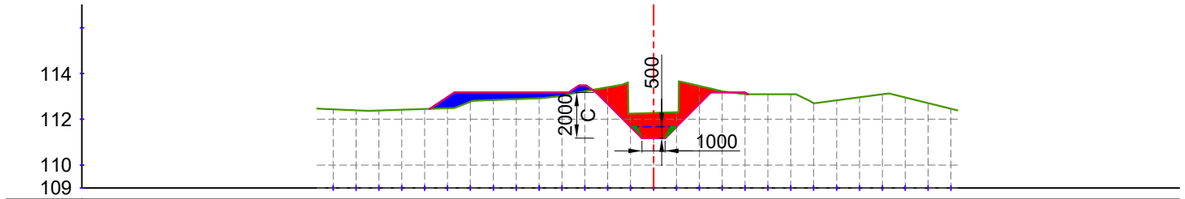
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X SECTION OF SALEMPUR MINOR



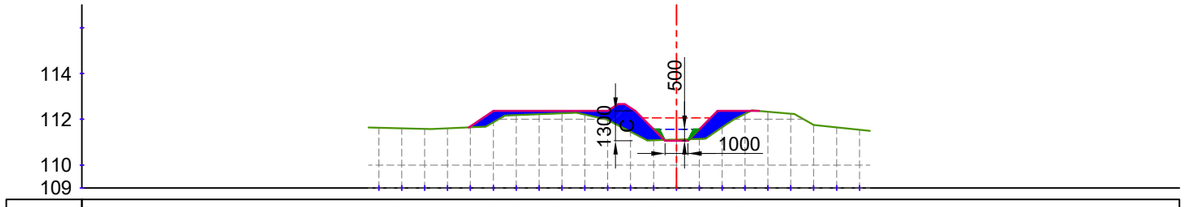
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X SECTION OF SALEMPUR MINOR



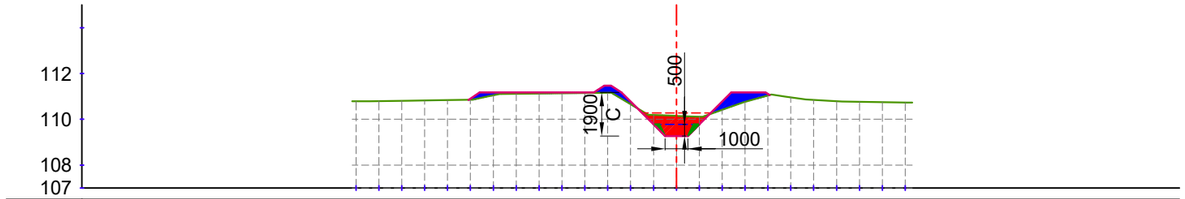
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X SECTION OF SALEMPUR MINOR



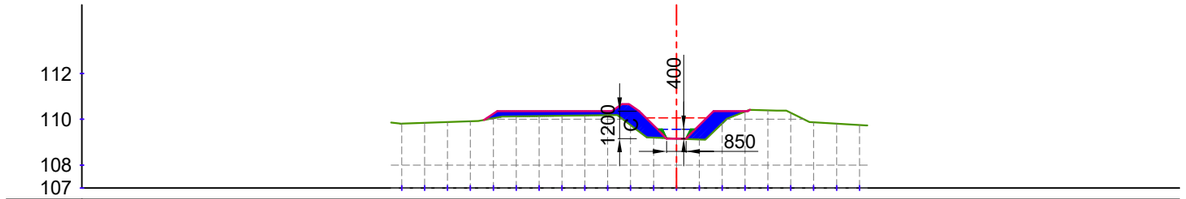
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X SECTION OF SALEMPUR MINOR



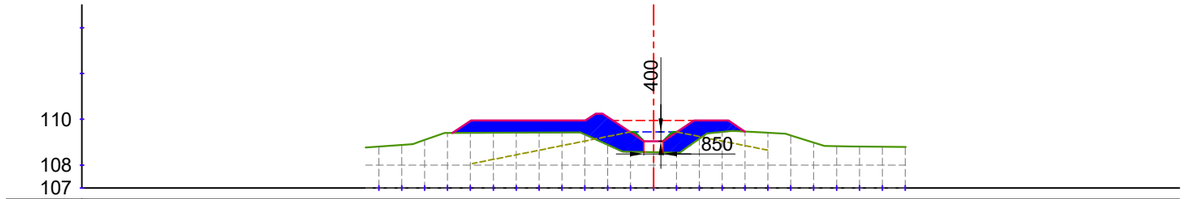
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X SECTION OF SALEMPUR MINOR



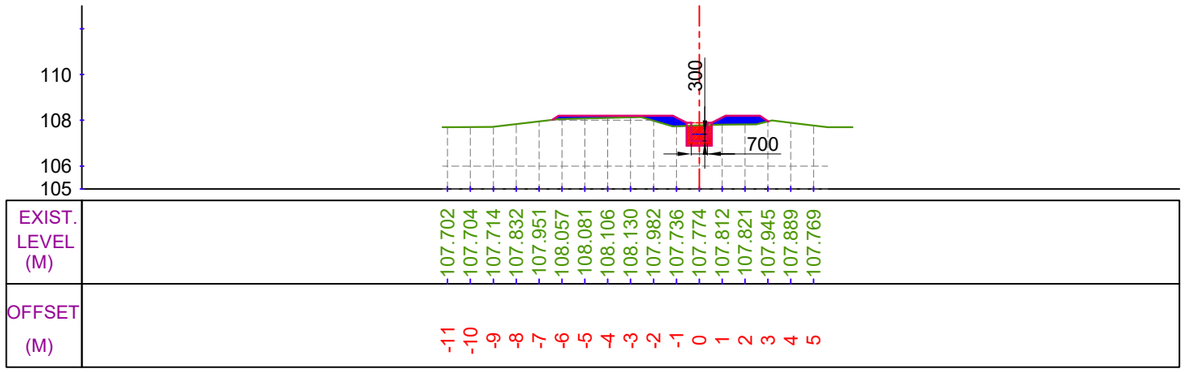
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X SECTION OF SALEMPUR MINOR



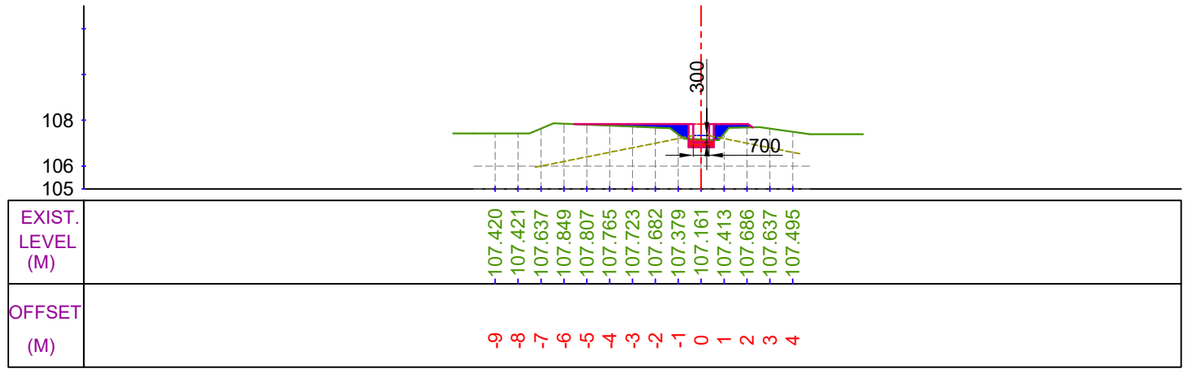
| | | |

X SECTION OF SALEMPUR MINOR



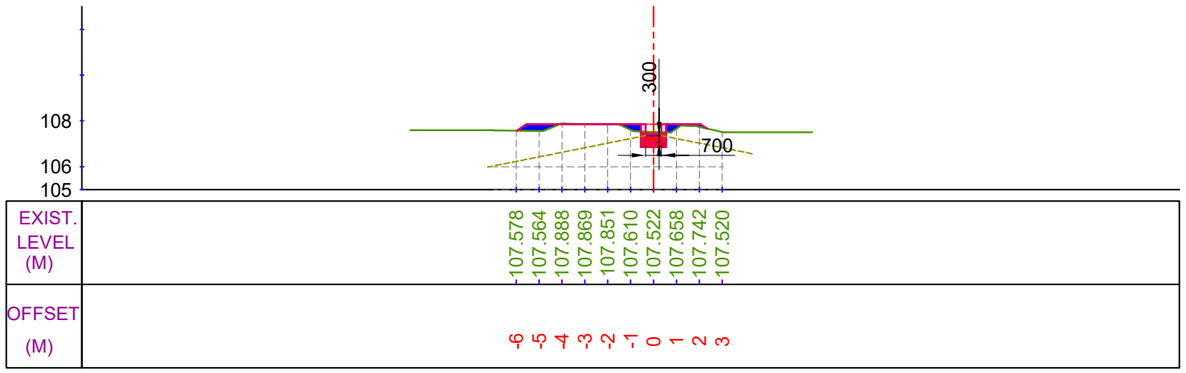
CUTTING AREA (SQ.M) = 0.970
FILLING AREA (SQ.M) = 1.650

CH. (KM):- 4+900
DESIGNED BED LEVEL = 107.092 M



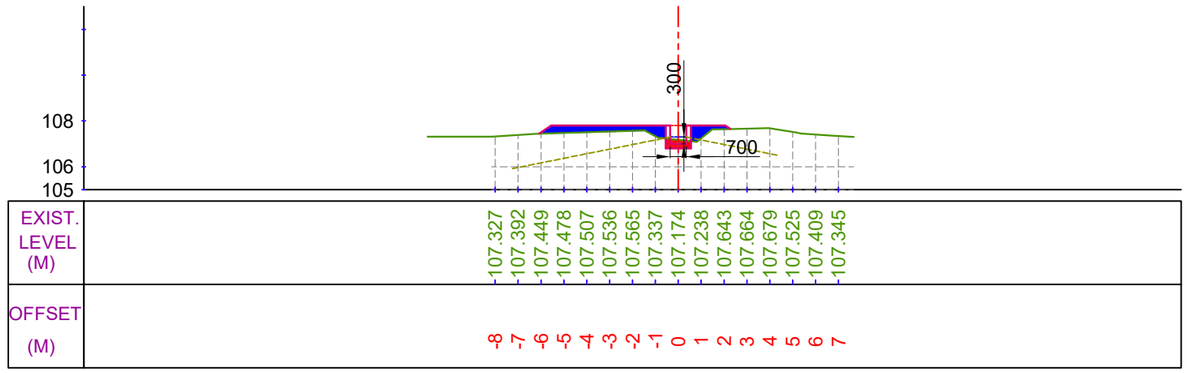
CUTTING AREA (SQ.M) = 0.365
FILLING AREA (SQ.M) = 1.222

CH. (KM):- 5+100
DESIGNED BED LEVEL = 107.029 M



CUTTING AREA (SQ.M) = 0.748
FILLING AREA (SQ.M) = 0.860

CH. (KM):- 5+000
DESIGNED BED LEVEL = 107.061 M



CUTTING AREA (SQ.M) = 0.414
FILLING AREA (SQ.M) = 2.203

CH. (KM):- 5+200
DESIGNED BED LEVEL = 106.998 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

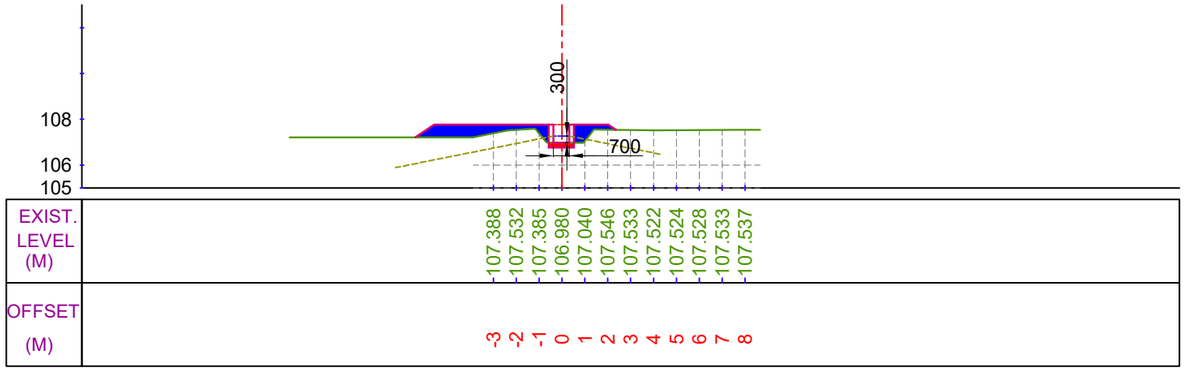
H.G. LINE

Prepared by :-

WAPCOS LTD.

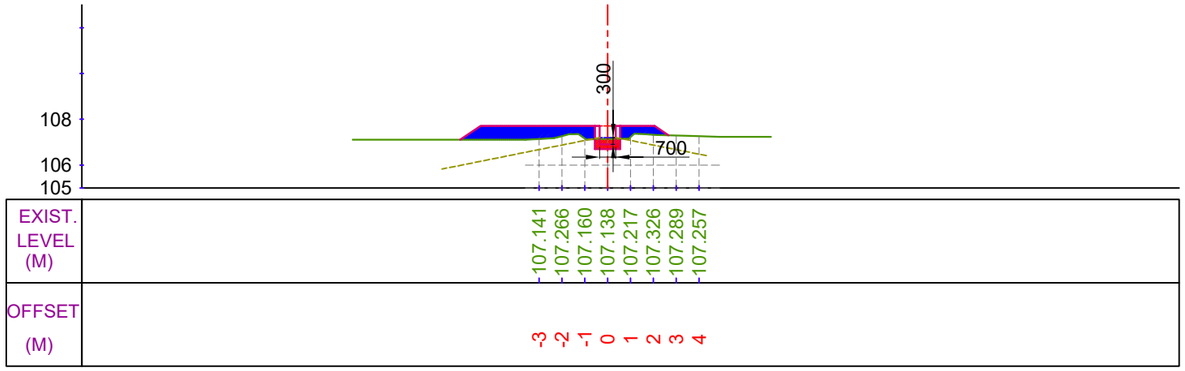
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SALEMPUR MINOR (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC- 13 of 15

X SECTION OF SALEMPUR MINOR



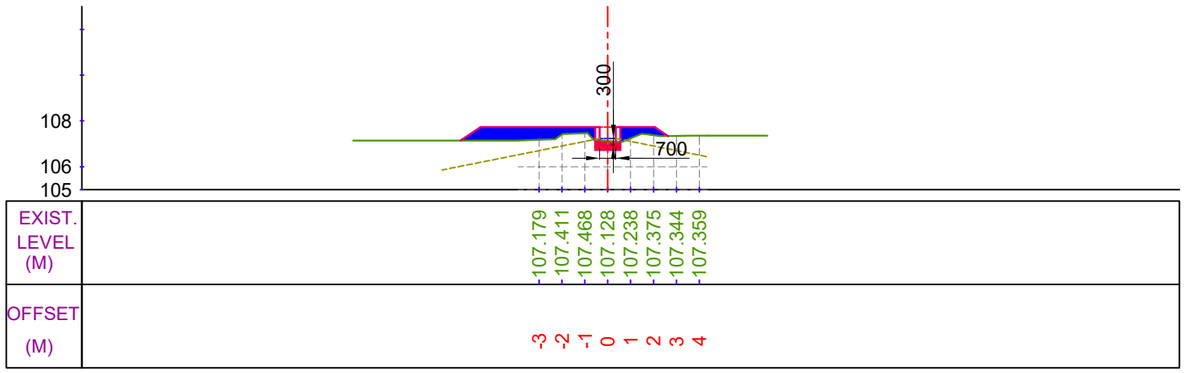
CUTTING AREA (SQ.M) = 0.225
FILLING AREA (SQ.M) = 3.099

CH. (KM):- 5+300
DESIGNED BED LEVEL = 106.967 M



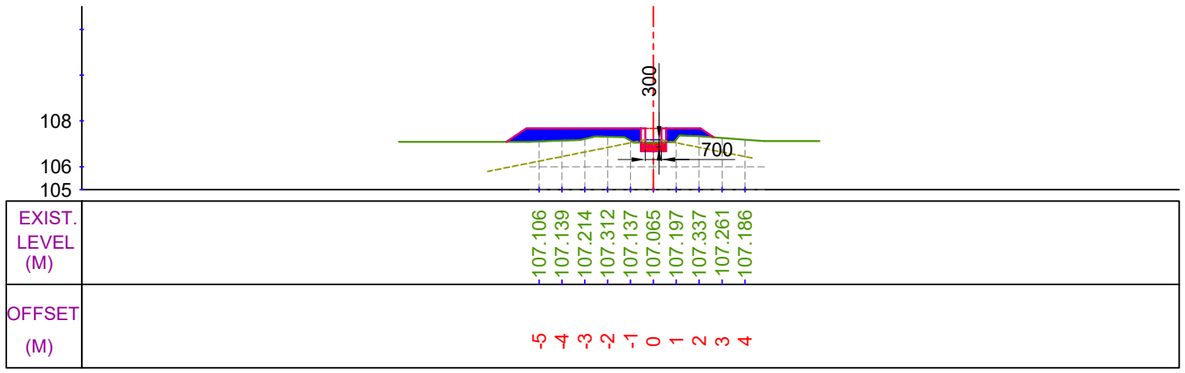
CUTTING AREA (SQ.M) = 0.478
FILLING AREA (SQ.M) = 3.692

CH. (KM):- 5+500
DESIGNED BED LEVEL = 106.904 M



CUTTING AREA (SQ.M) = 0.431
FILLING AREA (SQ.M) = 3.484

CH. (KM):- 5+400
DESIGNED BED LEVEL = 106.936 M



CUTTING AREA (SQ.M) = 0.431
FILLING AREA (SQ.M) = 3.385

CH. (KM):- 5+600
DESIGNED BED LEVEL = 106.873 M

LEGEND

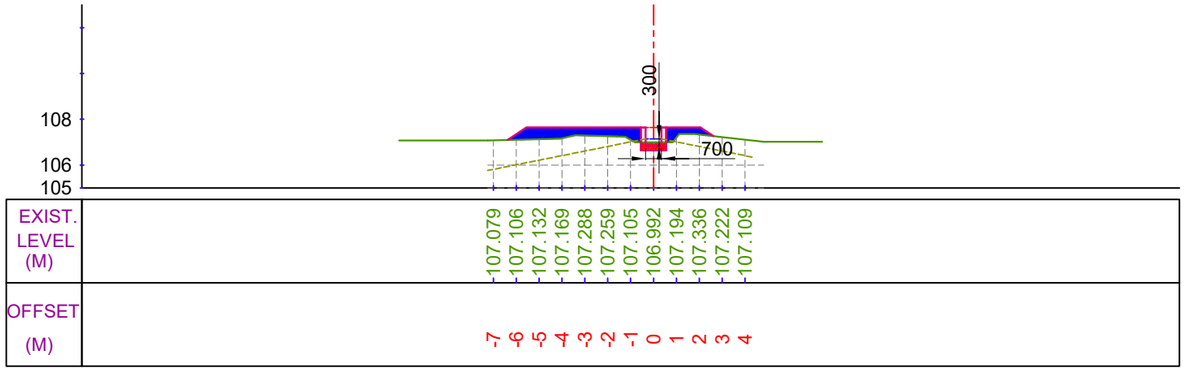
	CUT AREA		
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

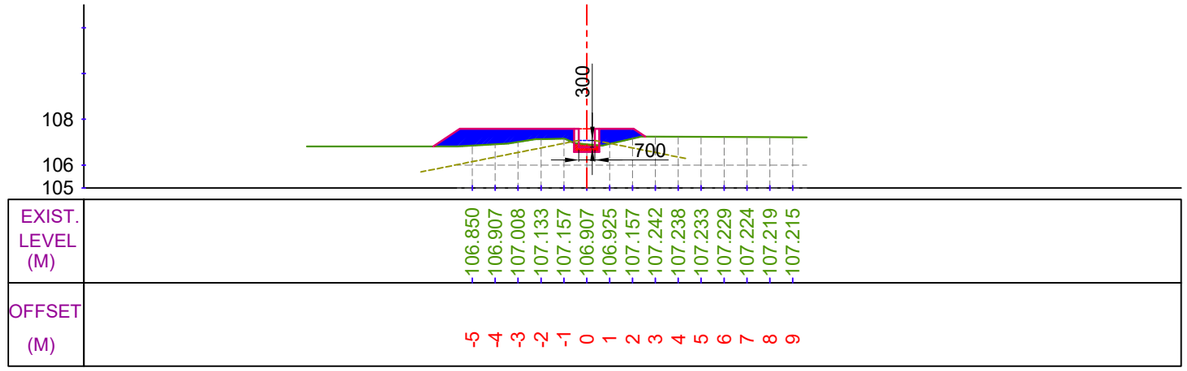
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SALEMPUR MINOR (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC- 14 of 15

X SECTION OF SALEMPUR MINOR



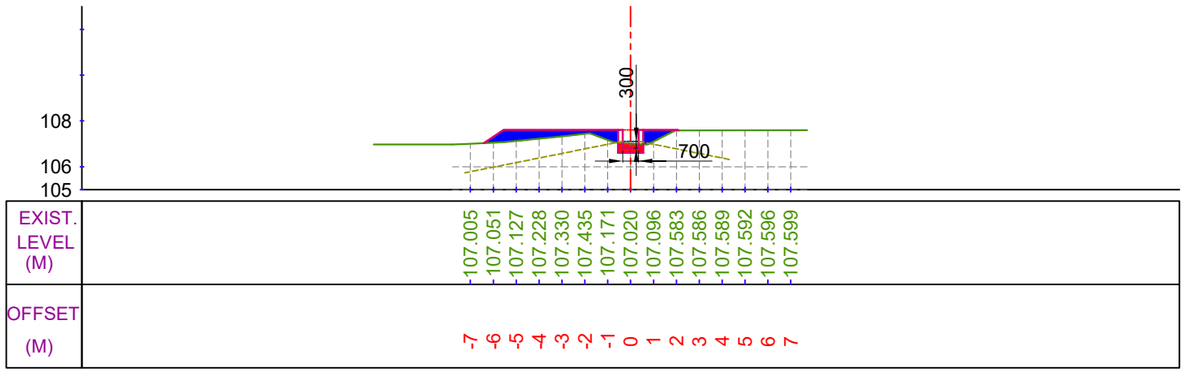
CUTTING AREA (SQ.M) = 0.385
FILLING AREA (SQ.M) = 3.116

CH. (KM):- 5+700
DESIGNED BED LEVEL = 106.842 M



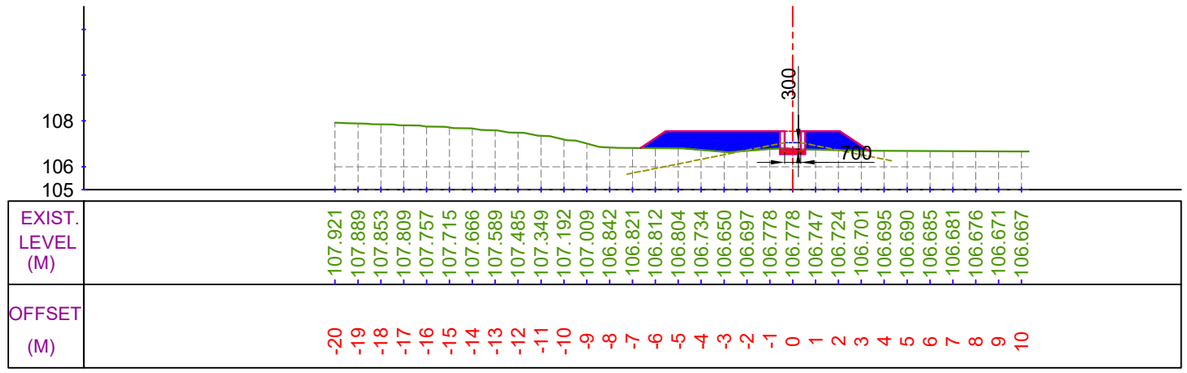
CUTTING AREA (SQ.M) = 0.361
FILLING AREA (SQ.M) = 4.318

CH. (KM):- 5+900
DESIGNED BED LEVEL = 106.779 M



CUTTING AREA (SQ.M) = 0.450
FILLING AREA (SQ.M) = 2.544

CH. (KM):- 5+800
DESIGNED BED LEVEL = 106.811 M



CUTTING AREA (SQ.M) = 0.251
FILLING AREA (SQ.M) = 6.276

CH. (KM):- 5+980
DESIGNED BED LEVEL = 106.754 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

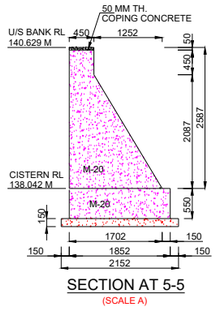
H.G. LINE

Prepared by :-

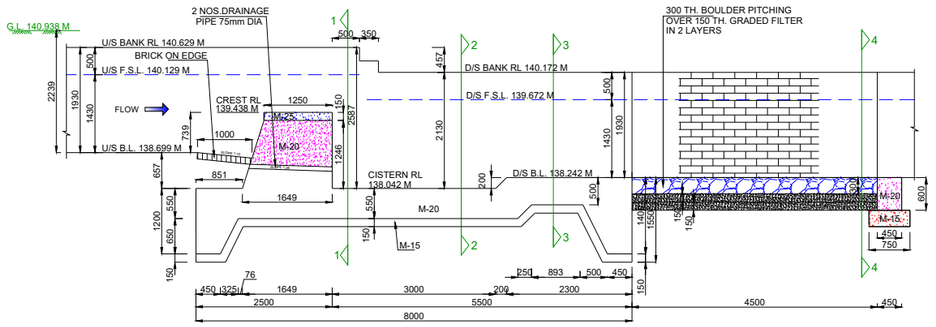
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF SALEMPUR MINOR (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ XSEC- 15 of 15

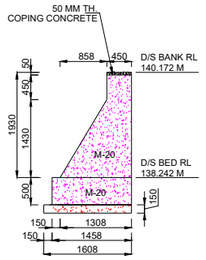
DRAWING OF STRUCTURES



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

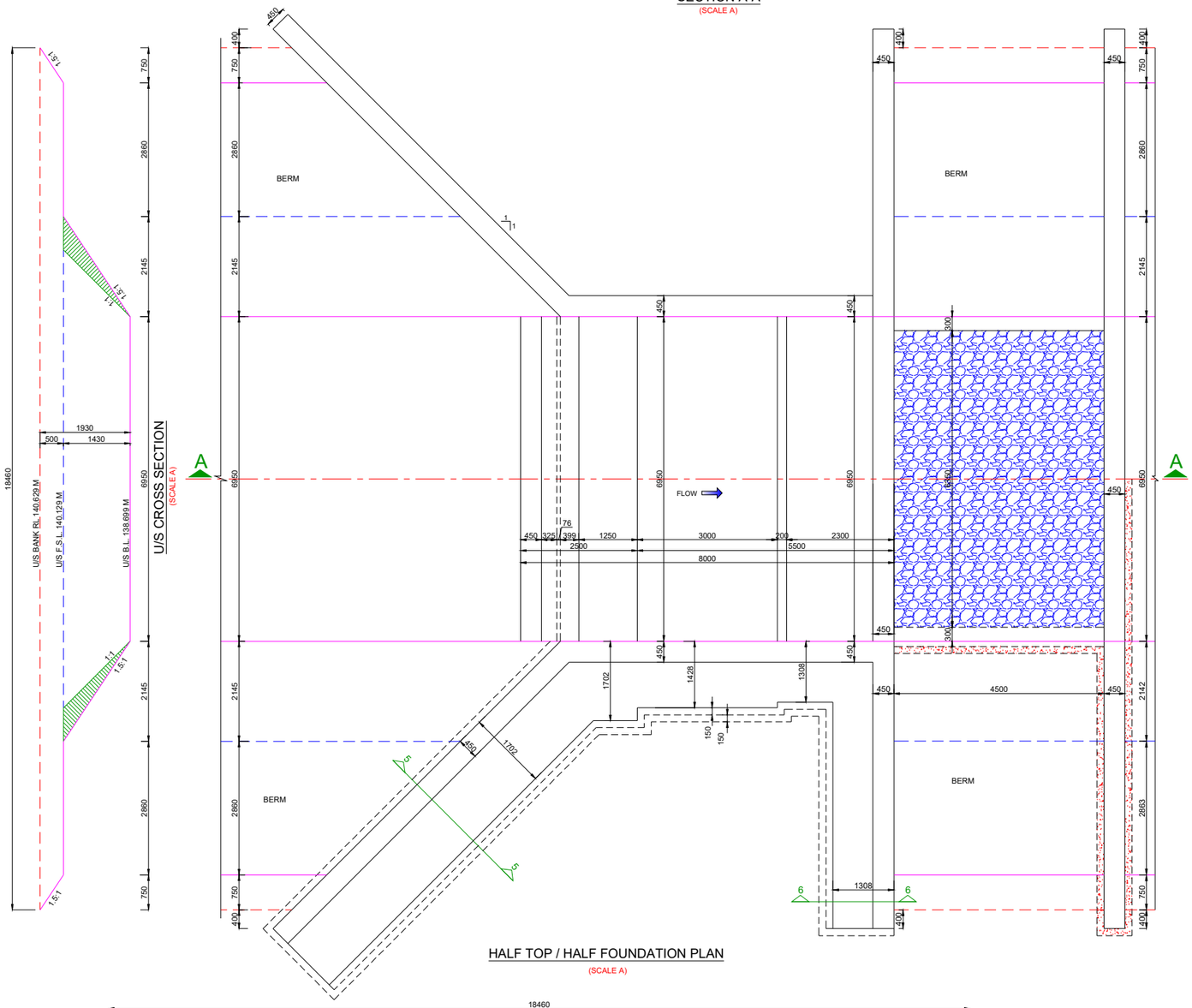
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

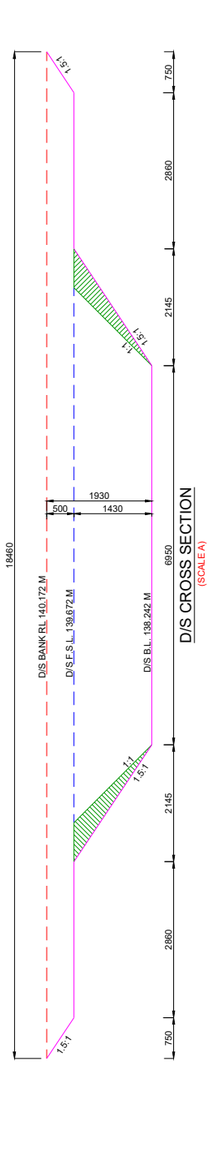
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

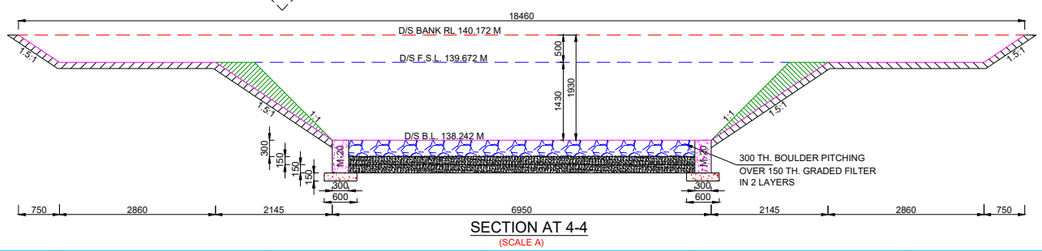
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	6.880	6.880	CUMEC
VERTICAL DROP	0.457	0.457	METRE
FULL SUPPLY DEPTH	1.430	1.430	METRE
BED WIDTH	6.950	6.950	METRE
BED SLOPE	1 : 4500	1 : 4500	

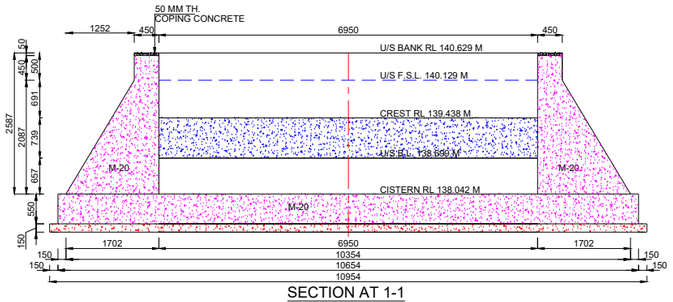


HALF TOP / HALF FOUNDATION PLAN
(SCALE A)

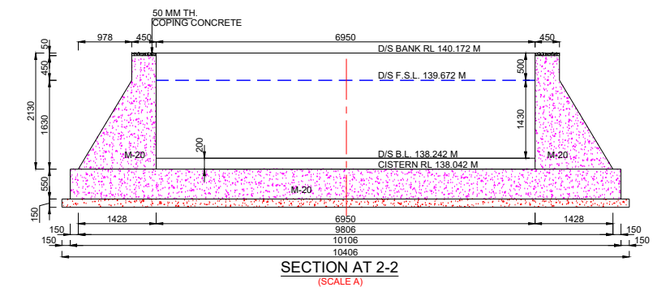




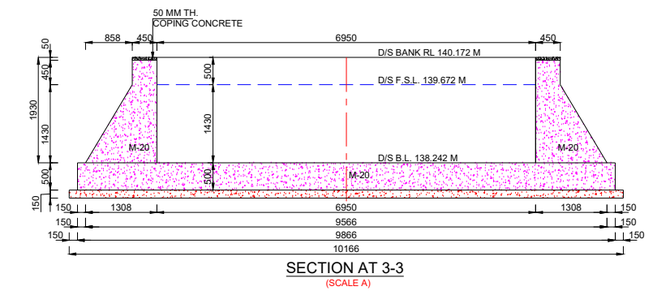
SECTION AT 4-4
(SCALE A)



SECTION AT 1-1
(SCALE A)



SECTION AT 2-2
(SCALE A)

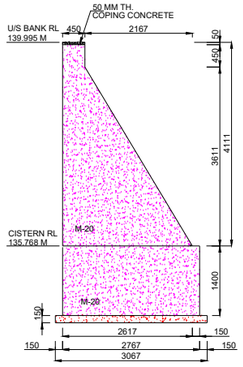


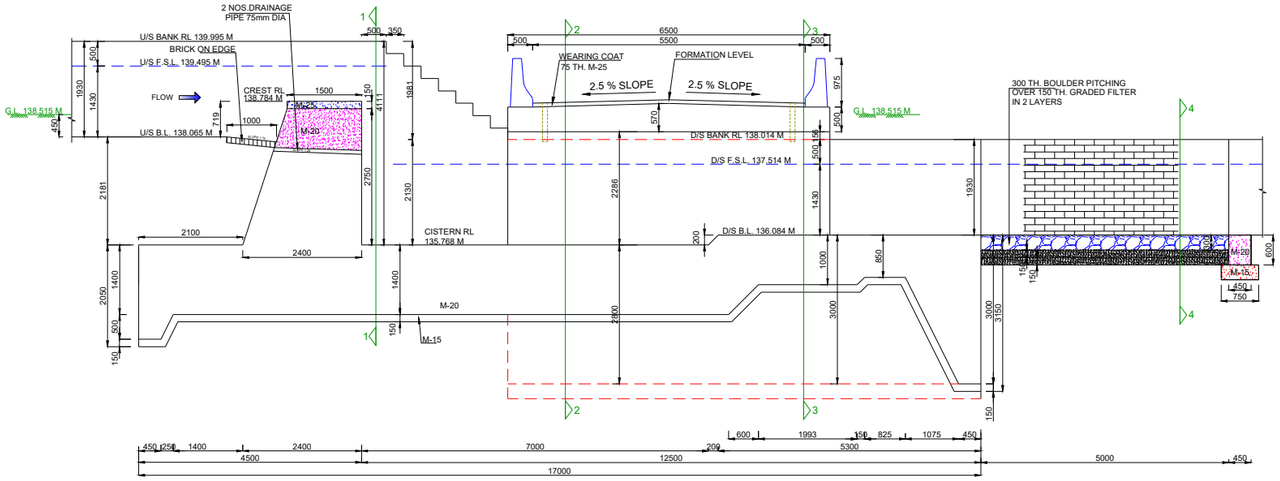
SECTION AT 3-3
(SCALE A)

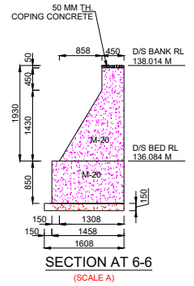
SCALE A:-

1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.457 M HT. FALL AT KM. 0.355 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
	.	. .







NOTES:-

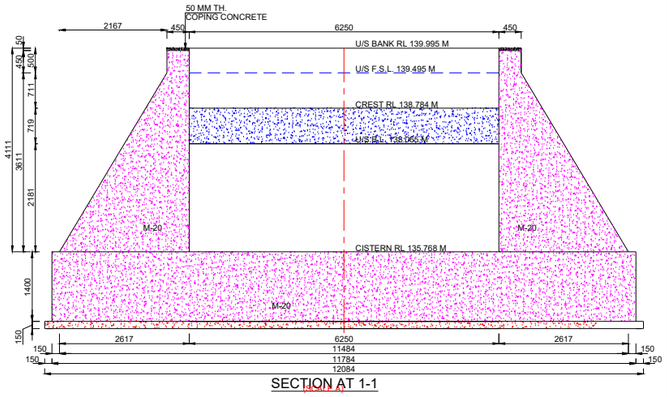
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2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

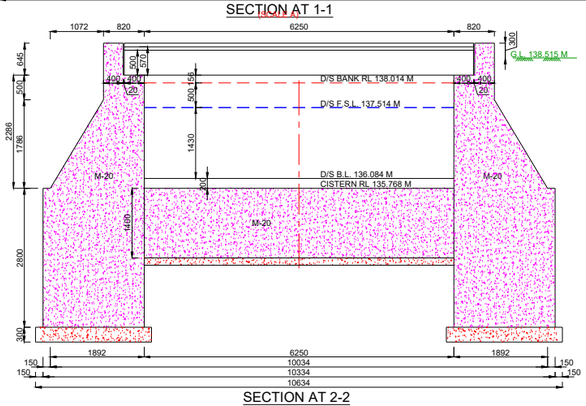
FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

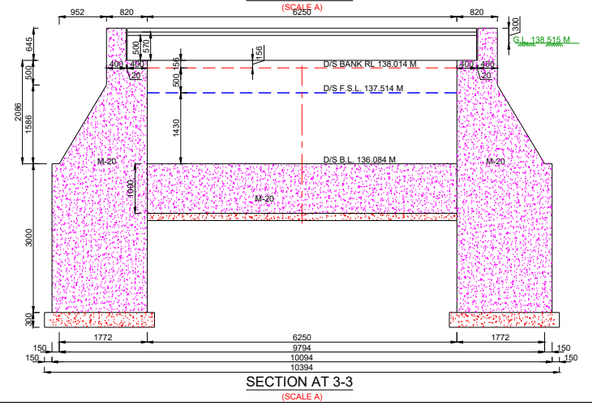
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

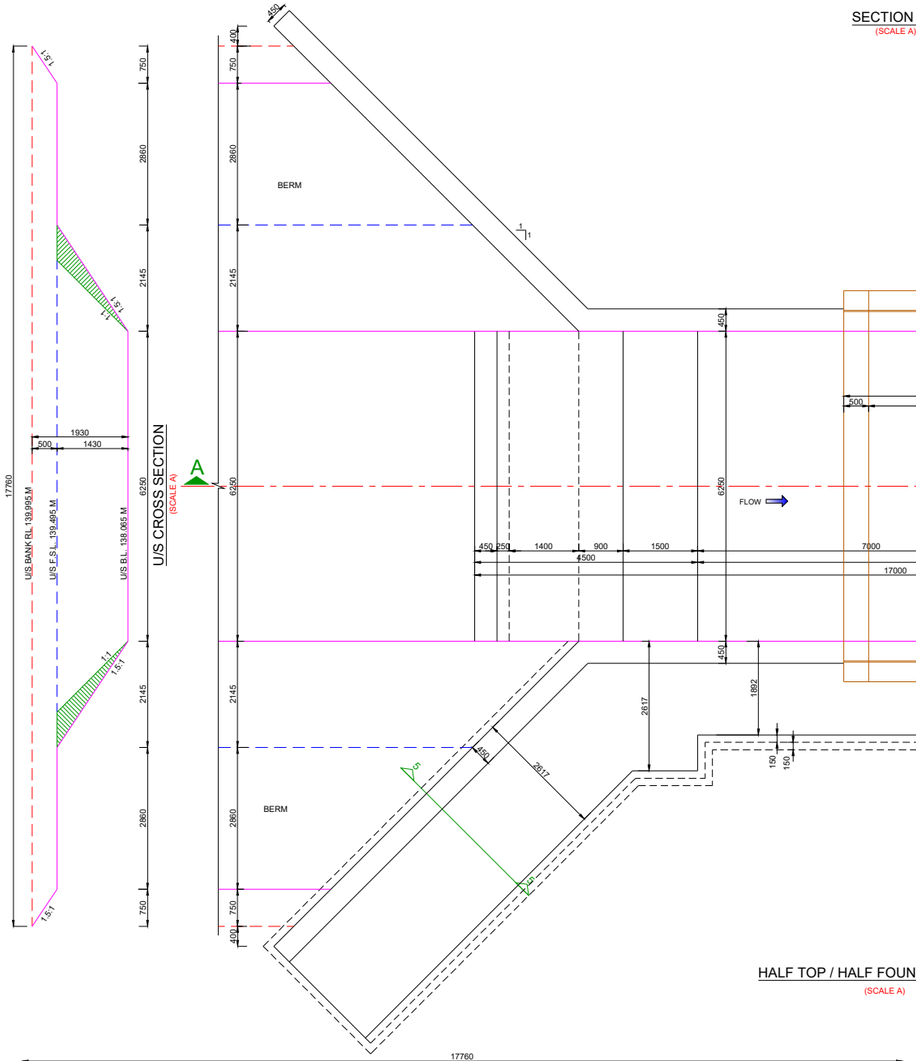
HYDRAULIC:- DATA

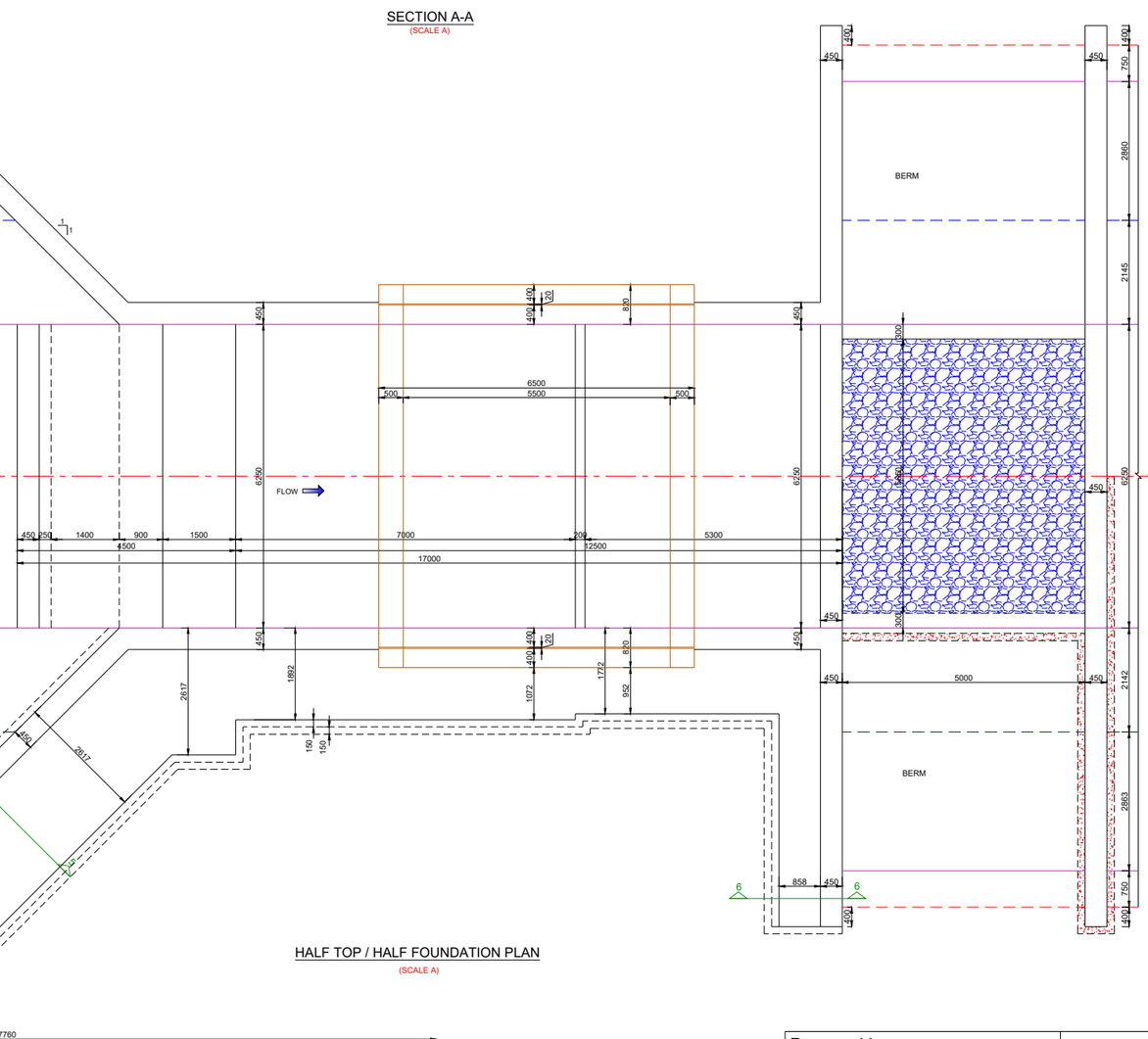
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	6.880	6.880	CUMEC
VERTICAL DROP	1.981	1.981	METRE
FULL SUPPLY DEPTH	1.430	1.430	METRE
BED WIDTH	6.950	6.950	METRE
BED SLOPE	1 : 4500	1 : 4500	

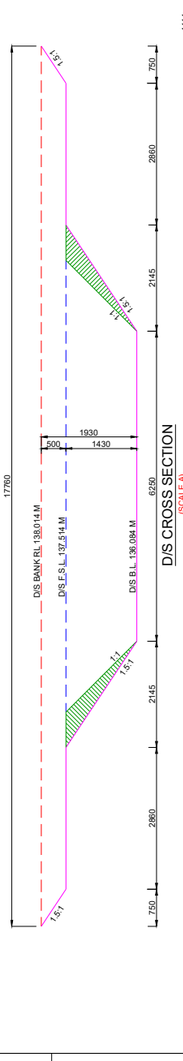


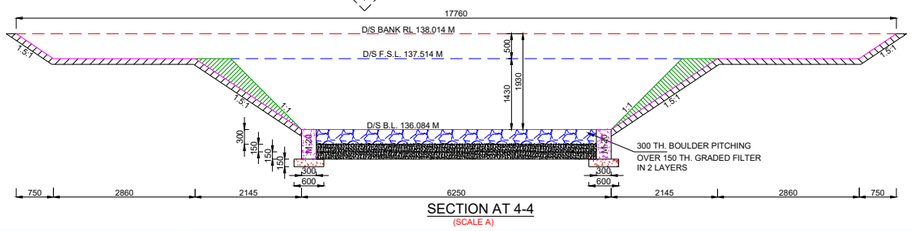










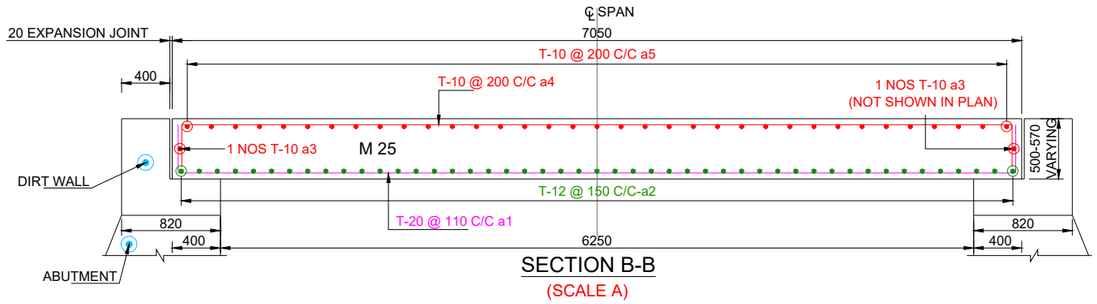


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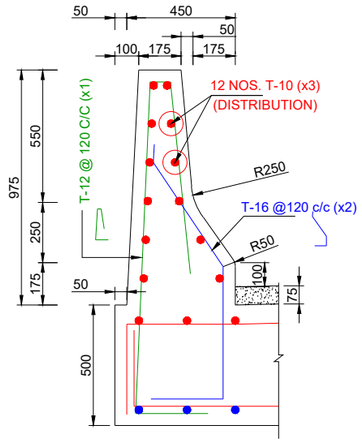
Prepared by :-

WAPCOS LTD.

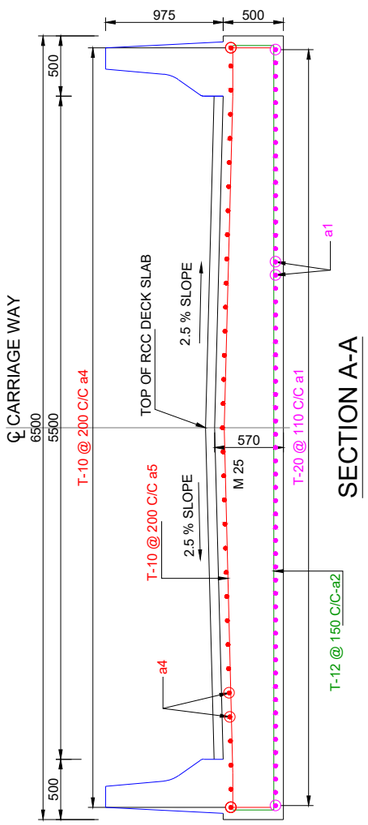
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 1.981 M HT. FALL AT KM. 1.150 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 2



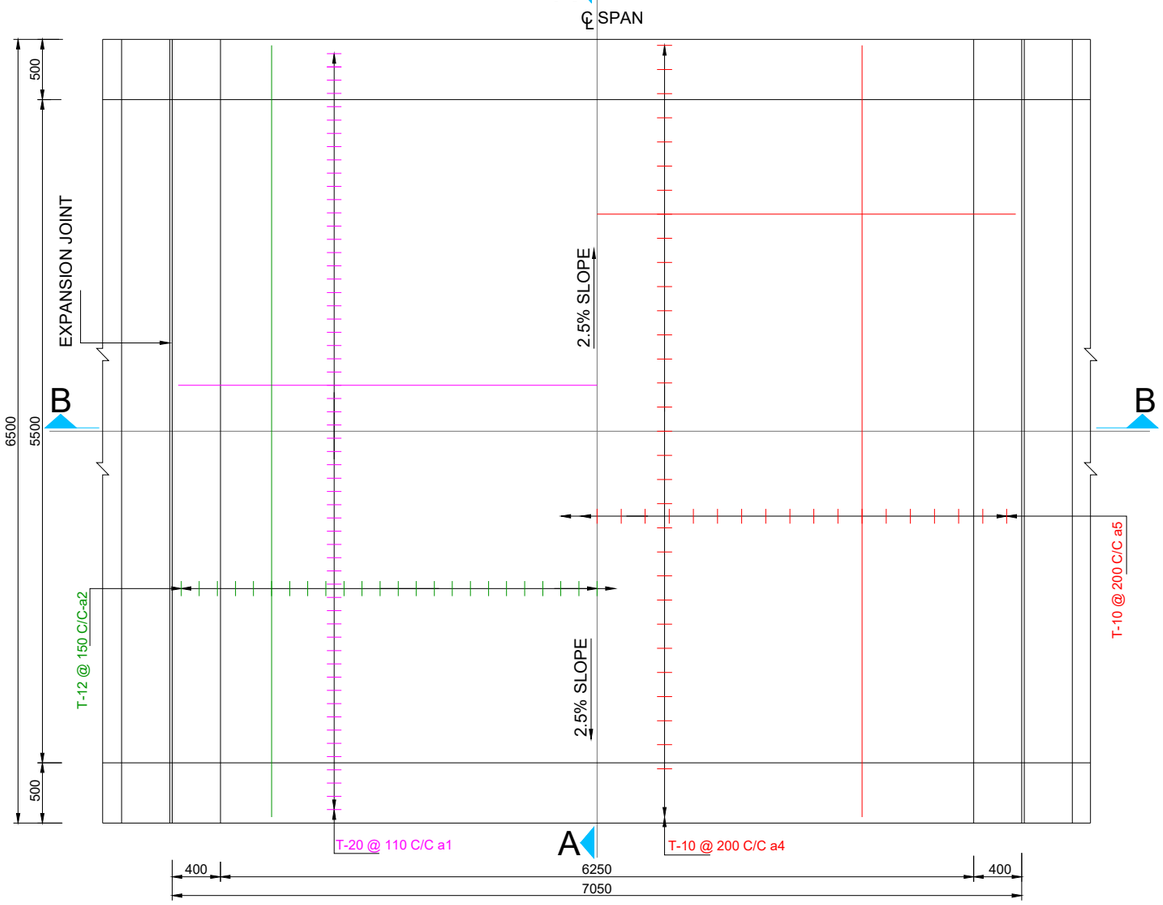
SECTION B-B
(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB
(SCALE B)



SECTION A-A



BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB
(SCALE A)

NOTES:-

1 ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25
4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 500) COMFORMING I.S. 1786.
5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.
6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.
7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.
8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.
9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.
10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.
11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.
12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.
13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.
14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.
15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (f_y=500N/mm^2) (IS 456 CLAUSE 26.2.1)

TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = α1. lbnet
WHERE, αl = 1.0 for p%≤25%
αl = 1.15 for 25%≤p%≤33%
αl = 1.4 for 33%≤p%≤50%
17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)
18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.
19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.
20. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.

BAR BENDING SCHEDULE

S. No.	Type of bars	Shape of bars (not to scale (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	400, R=80, 6950, 400	20	110	59
2	a2	400, R=50, 6400, 400	12	150	47
3	a3	6400	10	-	2
4	a4	6950, 400, R=40, 400	10	200	31
5	a5	400, 450, 2750, 2750, 450, 400	10	200	35

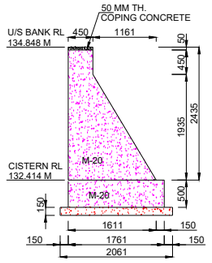
CRASH BARRIER					
1	x1	75, 1376, 950, 300	12	120	58X2
2	x2	75, 540, 550, 300	16	120	58X2
3	x3	6950	10	-	12X2

SCALE A:- 400 0 400 800 1200

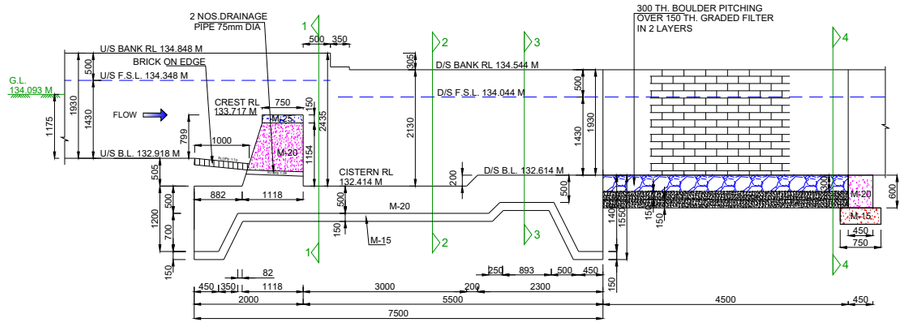
SCALE B:- 200 0 200 400 600

Prepared by :-
WAPCOS LTD.

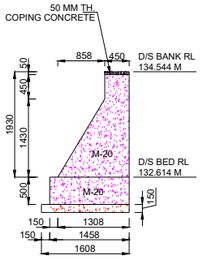
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 1.150 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 2 of 2



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

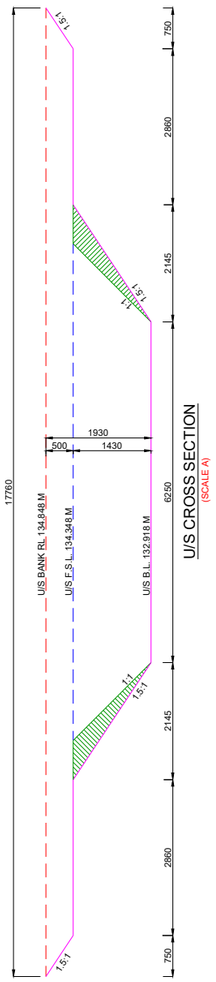
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

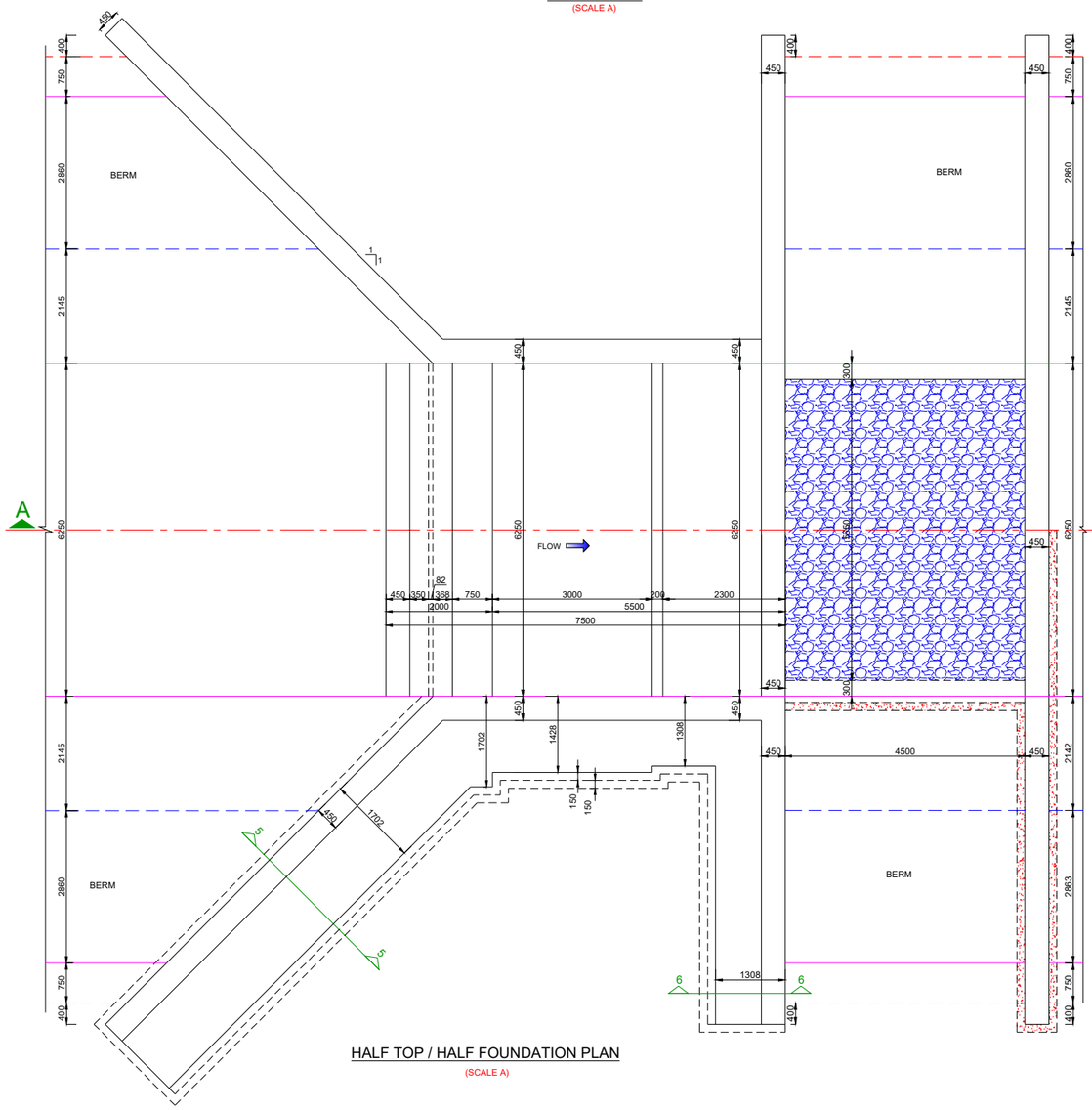
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

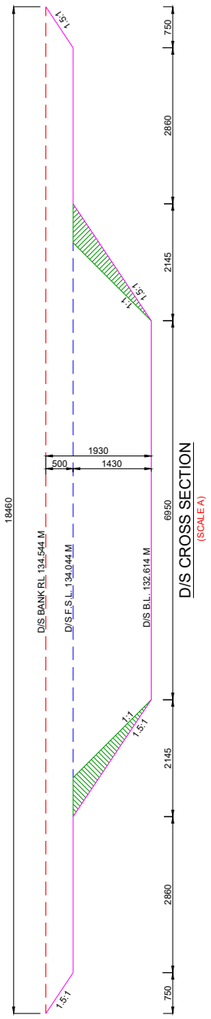
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	6.150	6.150	CUMEC
VERTICAL DROP	0.304	0.304	METRE
FULL SUPPLY DEPTH	1.430	1.430	METRE
BED WIDTH	6.250	6.250	METRE
BED SLOPE	1 : 4500	1 : 4500	



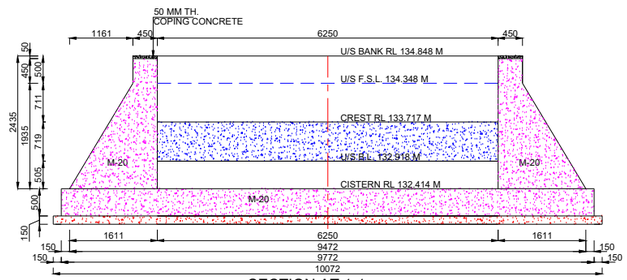
U/S CROSS SECTION
(SCALE A)



HALF TOP / HALF FOUNDATION PLAN
(SCALE A)

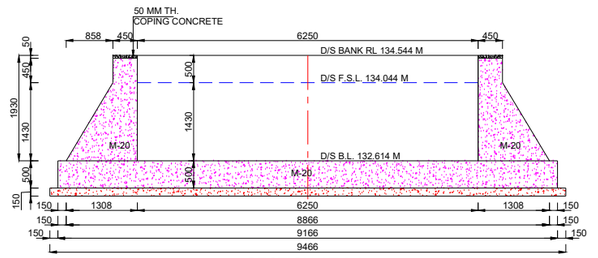


D/S CROSS SECTION
(SCALE A)



SECTION AT 1-1
(SCALE A)

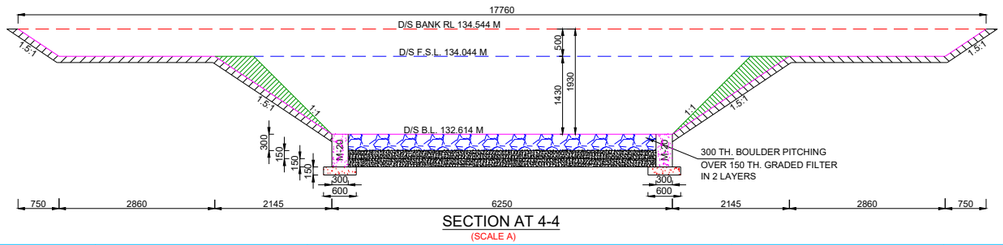
SECTION AT 2-2
(SCALE A)



SECTION AT 3-3
(SCALE A)

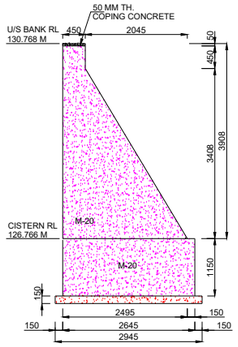
SCALE A:-

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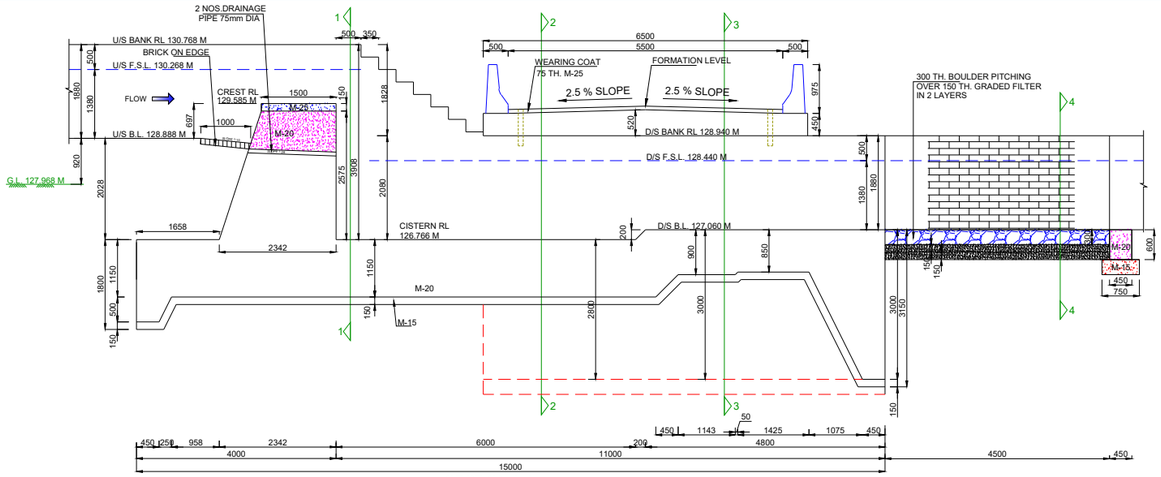


SECTION AT 4-4
(SCALE A)

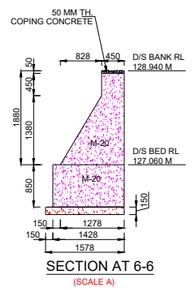
Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.304 M HT. FALL AT KM. 3.050 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

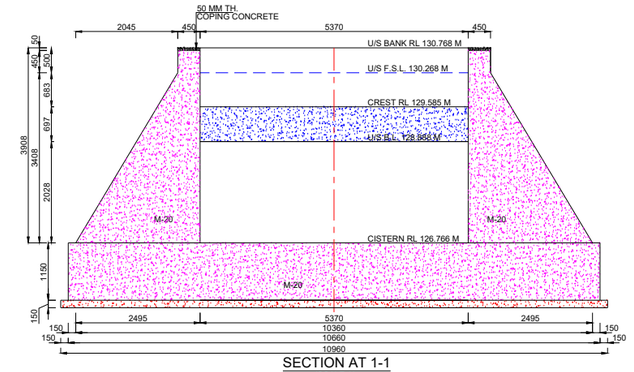
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

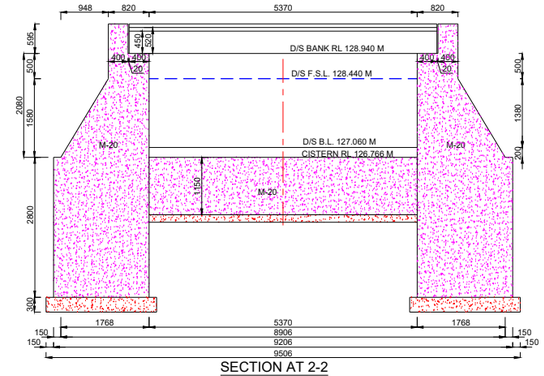
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

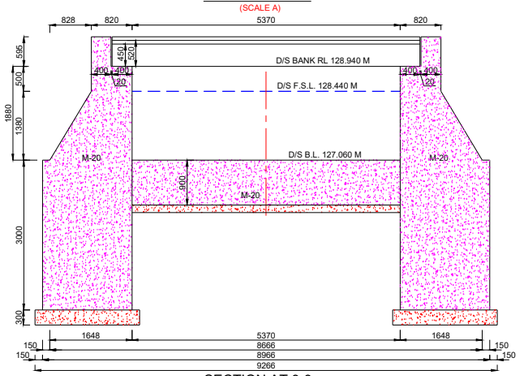
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	4.940	4.940	CUMEC
VERTICAL DROP	1.828	1.828	METRE
FULL SUPPLY DEPTH	1.380	1.380	METRE
BED WIDTH	5.370	5.370	METRE
BED SLOPE	1 : 4500	1 : 4500	



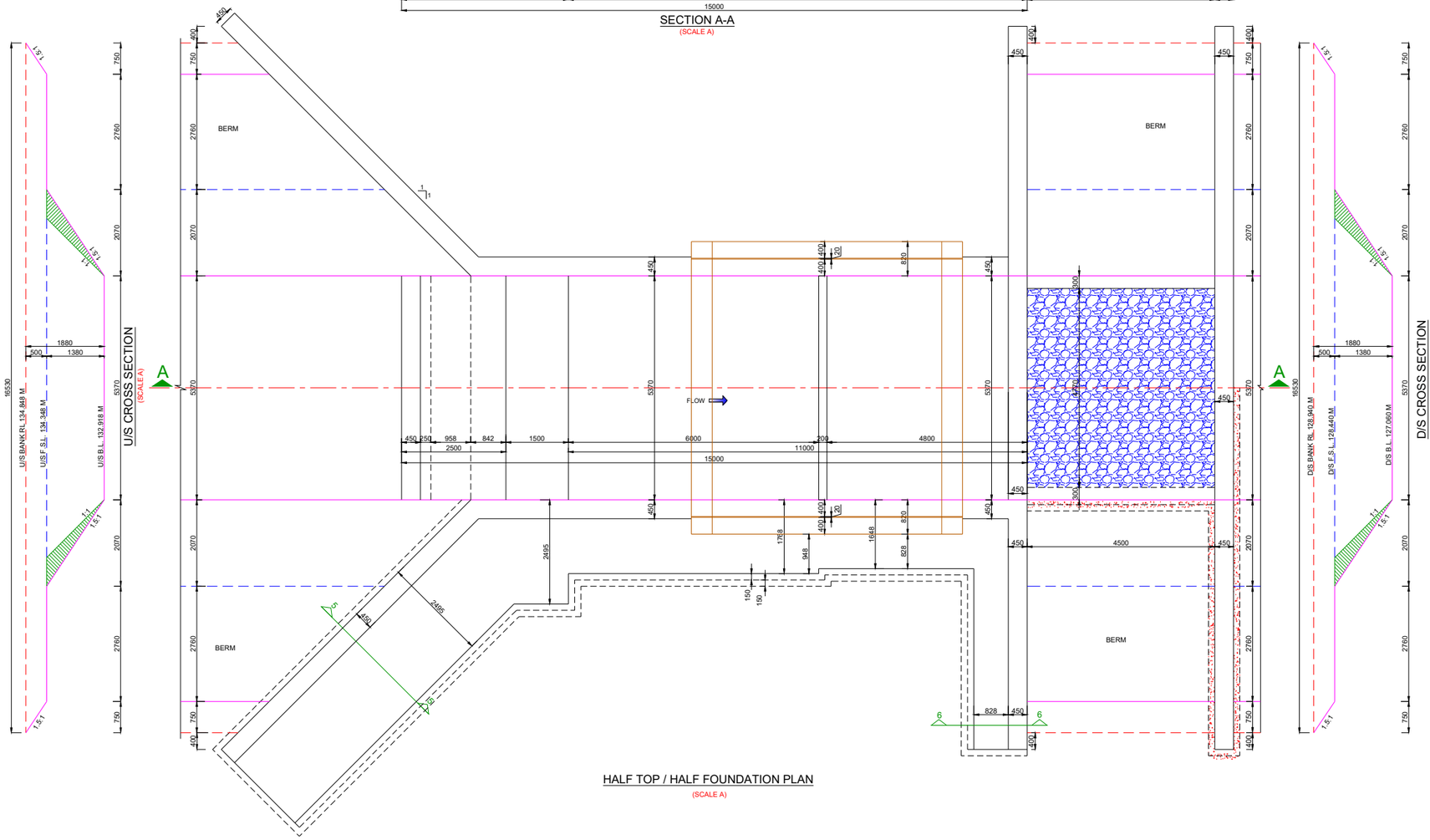
SECTION AT 1-1
(SCALE A)



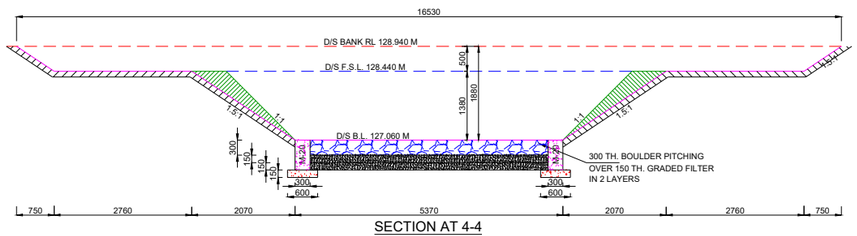
SECTION AT 2-2
(SCALE A)



SECTION AT 3-3
(SCALE A)

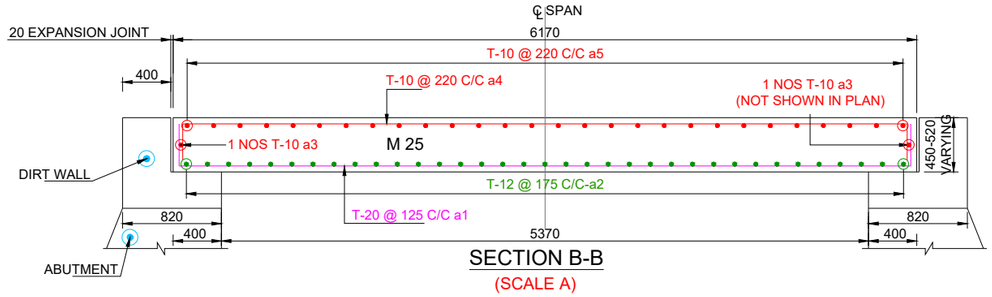


HALF TOP / HALF FOUNDATION PLAN
(SCALE A)



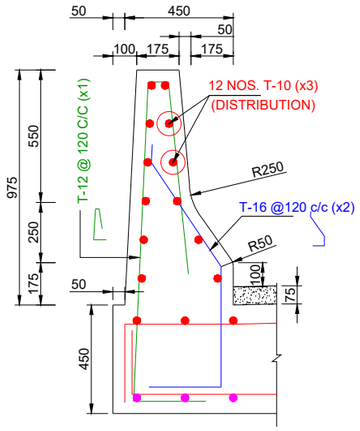
SECTION AT 4-4
(SCALE A)

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.828 M HT. FALL AT KM. 6.100 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 2
	.	. .



SECTION B-B

(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB

(SCALE B)

NOTES:-

1 ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.

2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25

4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 500) COMFORMING I.S. 1786.

5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.

6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.

7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.

8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.

9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.

10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.

11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.

12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.

13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.

14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.

15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (fy=500N/mm²) (IS 456 CLAUSE 26.2.1)

TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

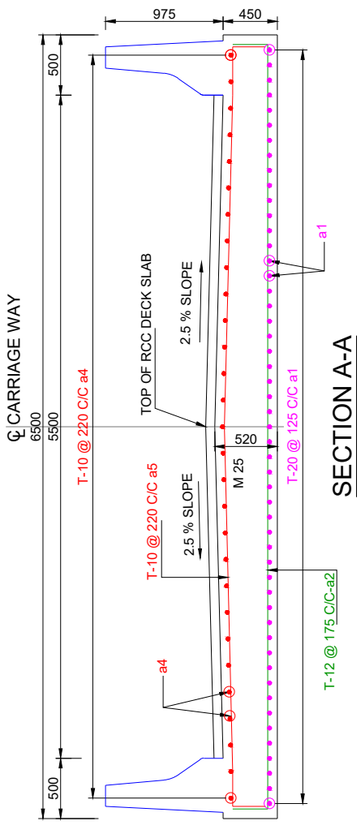
16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = $\alpha 1$. lbnet
WHERE, $\alpha 1$ = 1.0 for p%≤25%
$\alpha 1$ = 1.15 for 25%≤p%≤33%
$\alpha 1$ = 1.4 for 33%≤p%≤50%

17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)

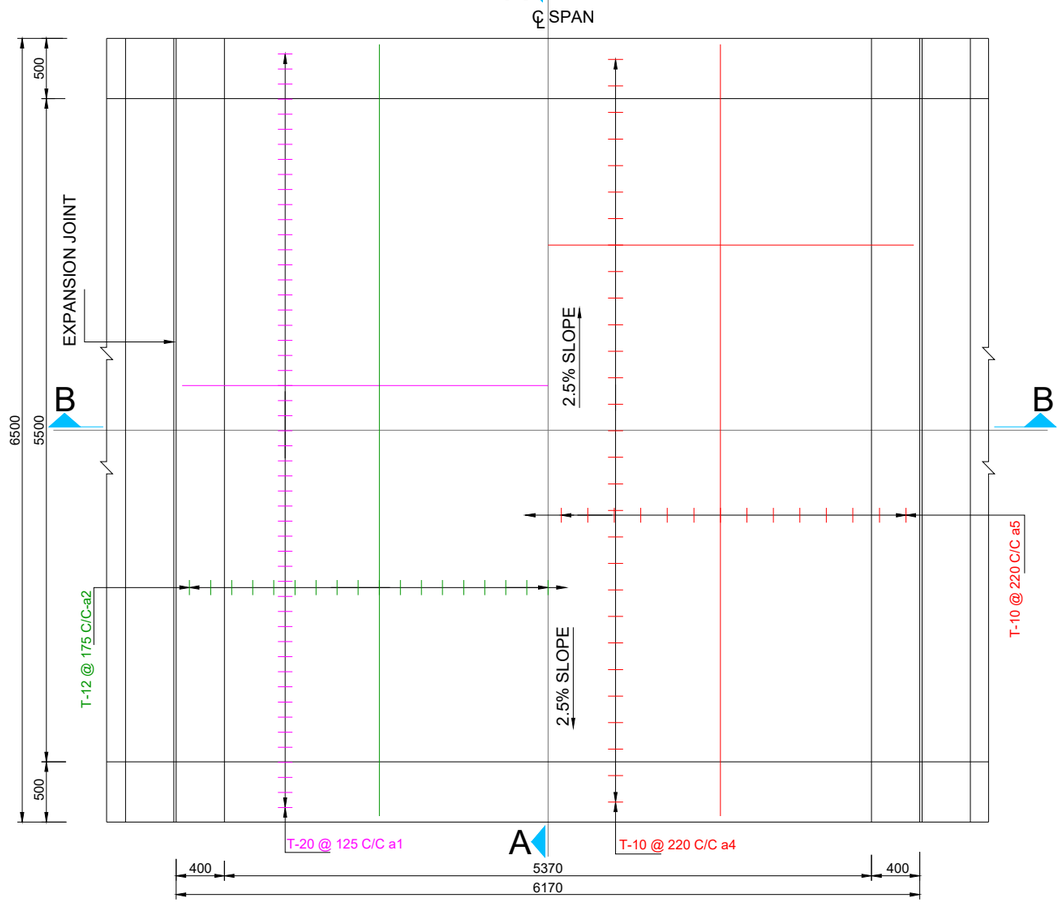
18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.

19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.

20. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.



SECTION A-A



BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB

(SCALE A)

SCALE A:- 400 0 400 800 1200

SCALE B:- 200 0 200 400 600

BAR BENDING SCHEDULE

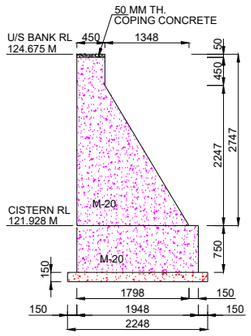
S. No.	Type of bars	Shape of bars (not to scale (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	350, R=80, 6070, 350	20	125	51
2	a2	350, R=50, 6400, 350	12	175	35
3	a3	6400	10	-	2
4	a4	6070, 350, R=40, 350	10	220	29
5	a5	450, 2750, 2750, 450, 350, 350	10	220	28

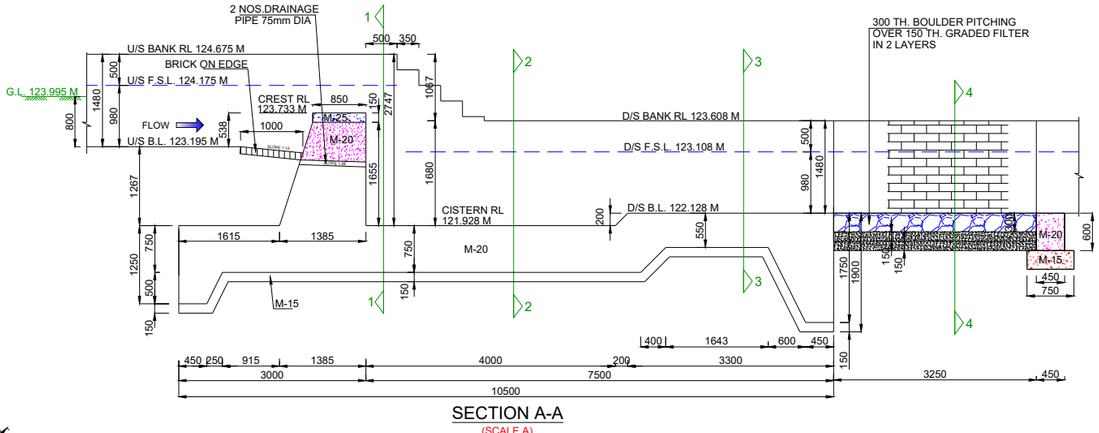
CRASH BARRIER					
1	x1	75, 1326, 950, 300	12	120	51X2
2	x2	75, 540, 500, 300	16	120	51X2
3	x3	6070	10	-	12X2

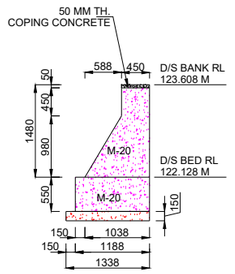
Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 6.100 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 2 of 2







NOTES:-

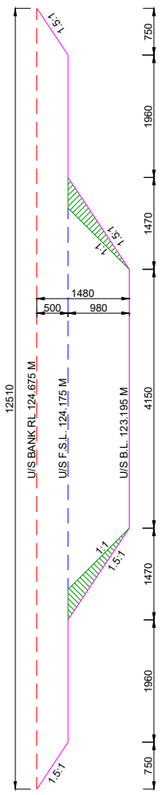
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

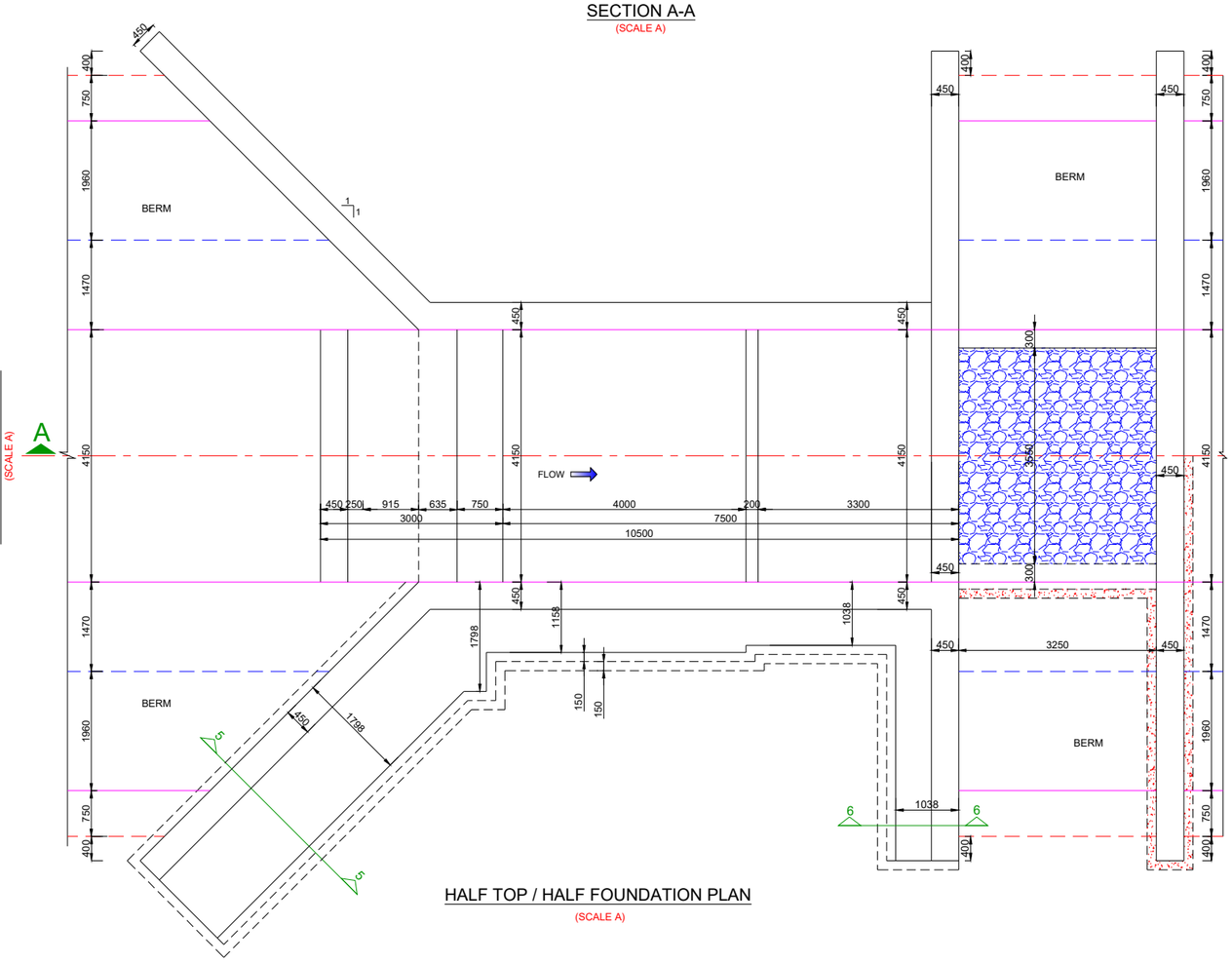
FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

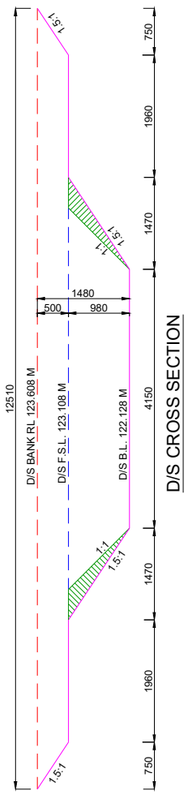
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

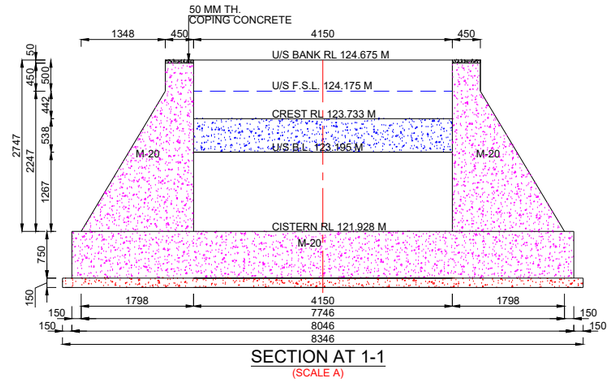
HYDRAULIC:- DATA

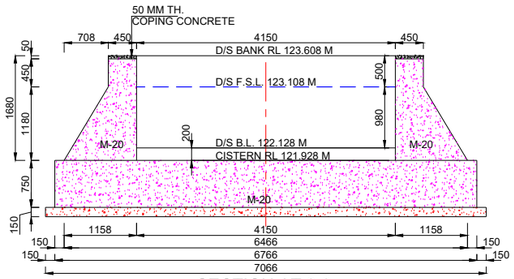
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	2.160	2.160	CUMEC
VERTICAL DROP	1.067	1.067	METRE
FULL SUPPLY DEPTH	0.980	0.980	METRE
BED WIDTH	4.150	4.150	METRE
BED SLOPE	1 : 4500	1 : 4500	

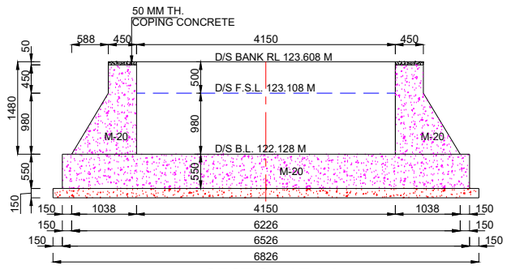


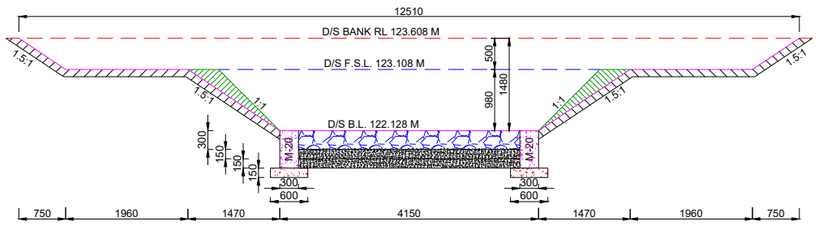




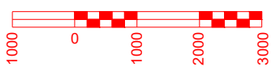




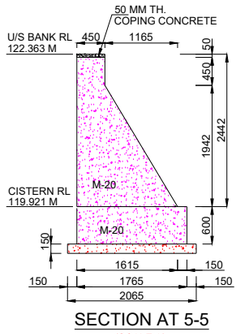




SCALE A:-

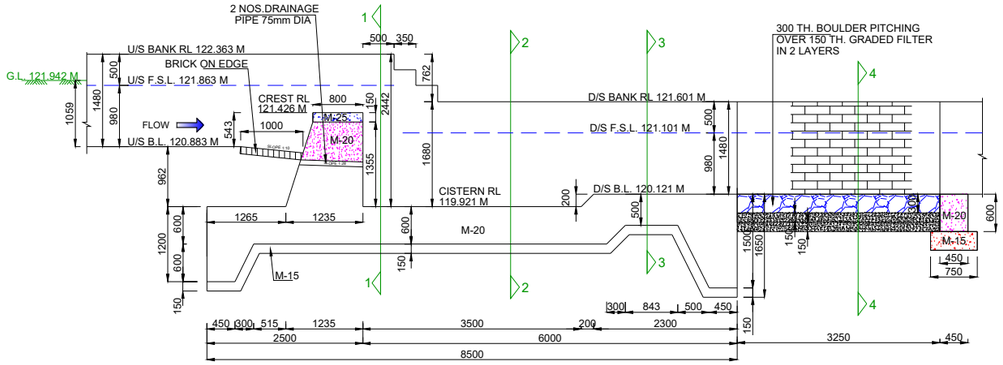


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.067 M HT. FALL AT KM. 11.150 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
.	.	.



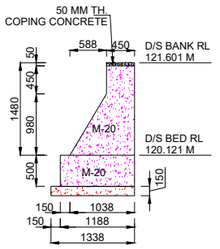
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

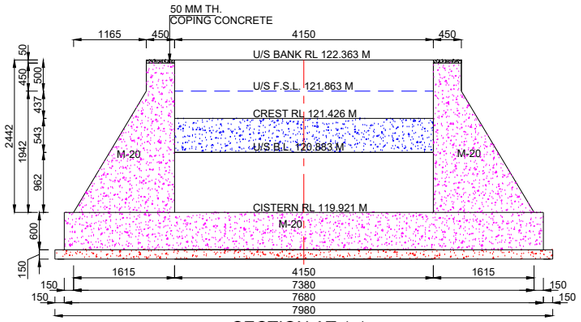
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

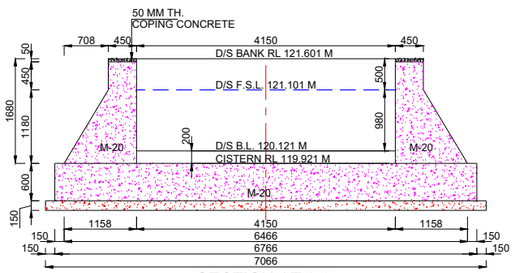
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	2.160	2.160	CUMEC
VERTICAL DROP	0.762	0.762	METRE
FULL SUPPLY DEPTH	0.980	0.980	METRE
BED WIDTH	4.150	4.150	METRE
BED SLOPE	1 : 4500	1 : 4500	



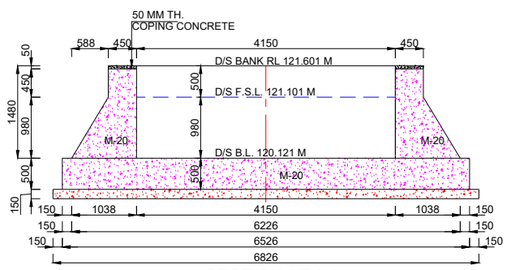
SECTION AT 1-1

(SCALE A)



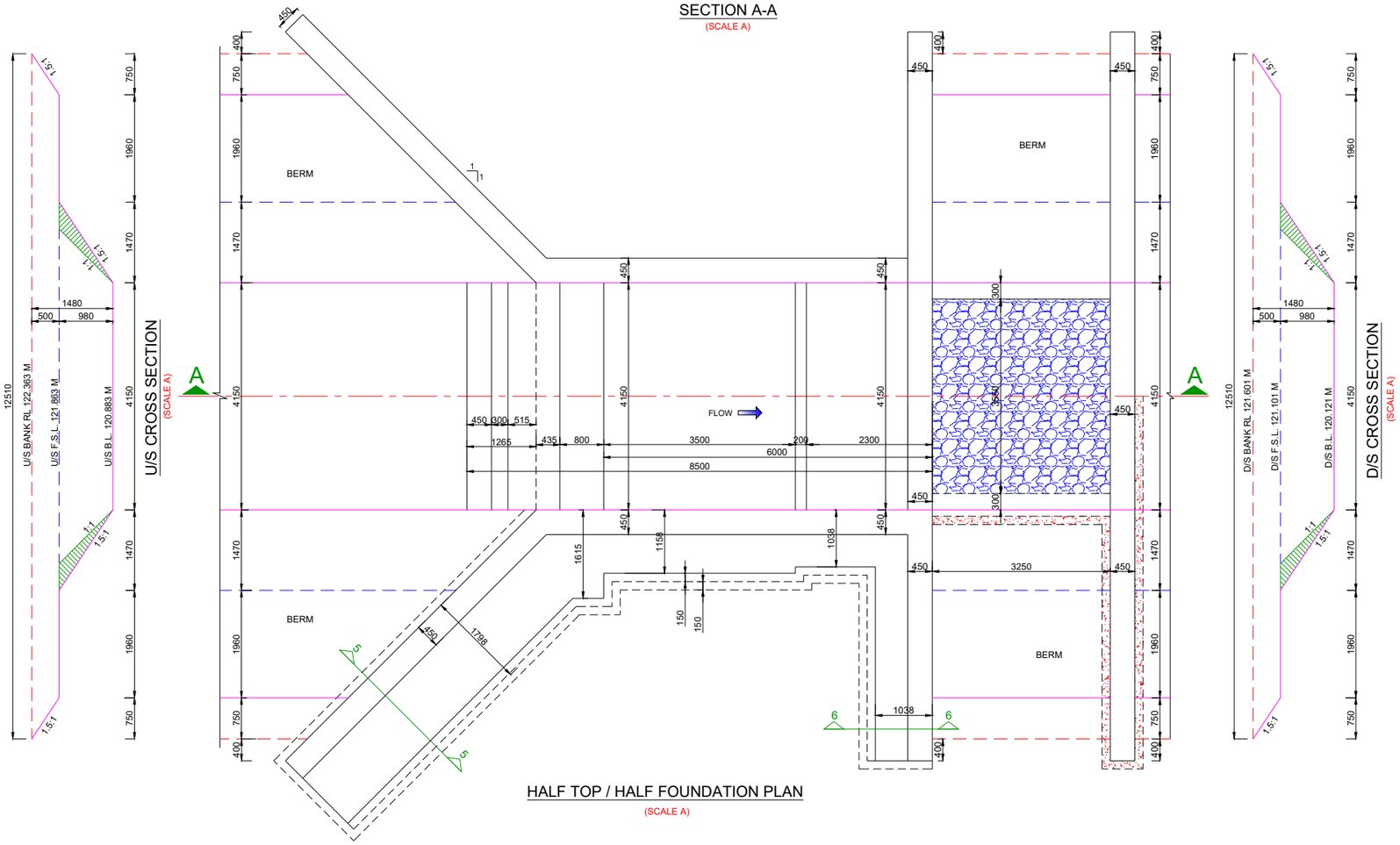
SECTION AT 2-2

(SCALE A)



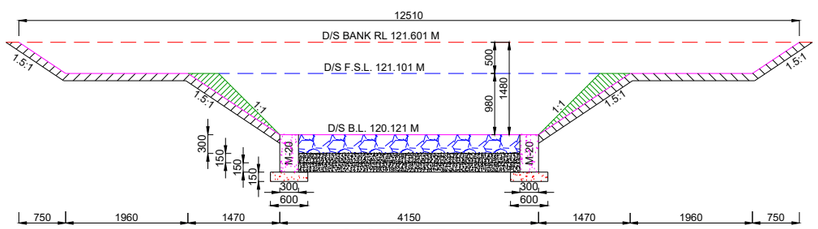
SECTION AT 3-3

(SCALE A)



HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



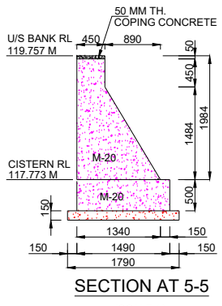
SECTION AT 4-4

(SCALE A)

SCALE A:-

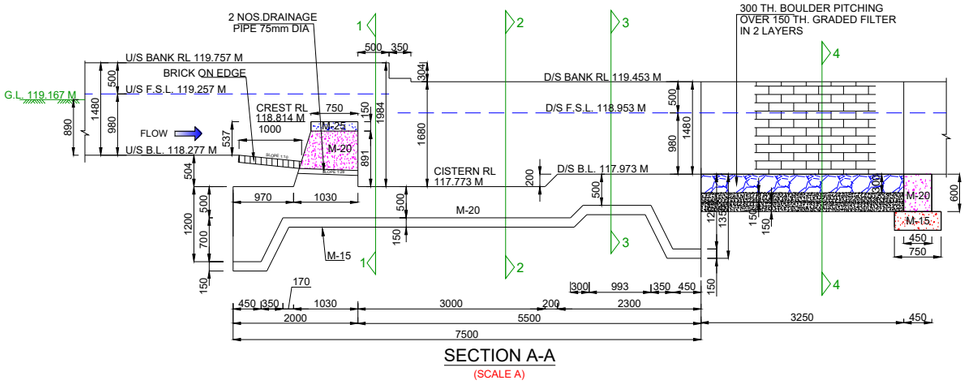
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Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.762 M HT. FALL AT KM. 11.950 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
	.	. .



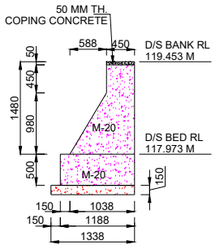
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

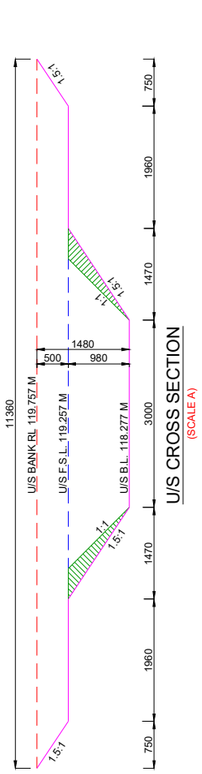
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PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

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5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

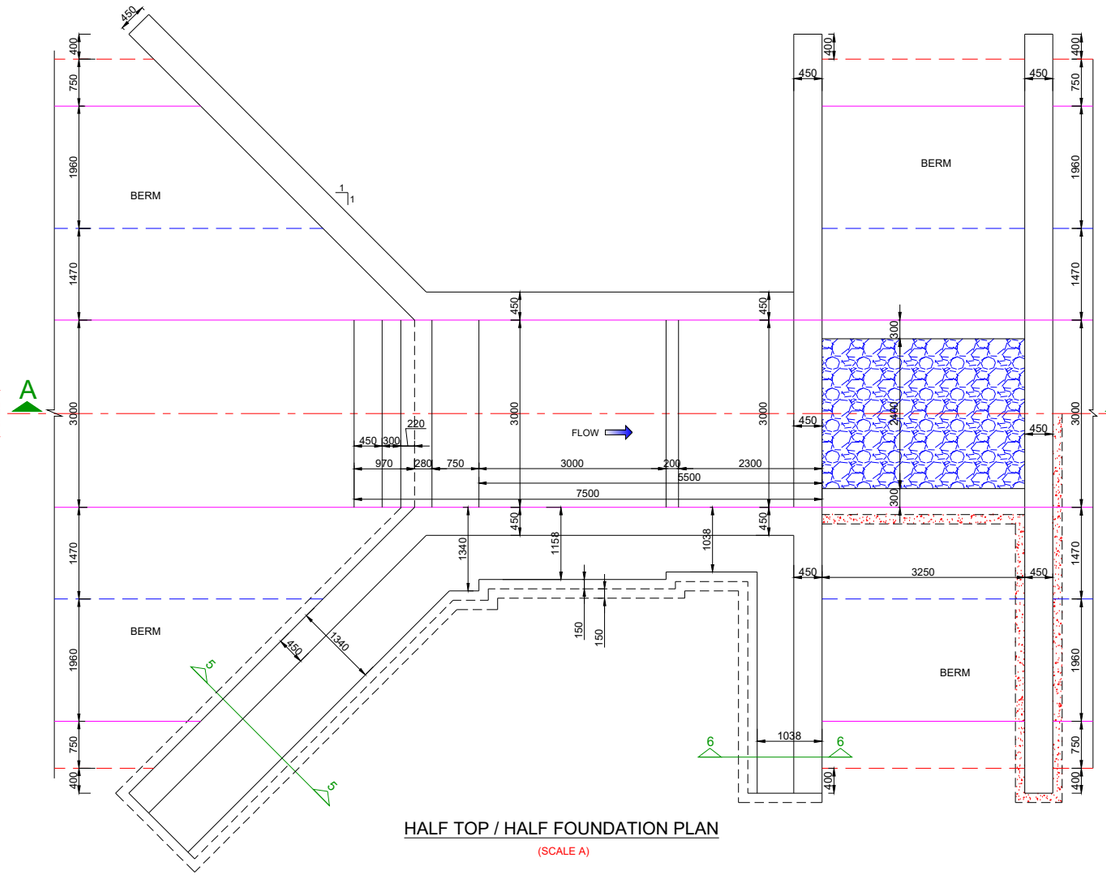
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	1.630	1.630	CUMEC
VERTICAL DROP	0.304	0.304	METRE
FULL SUPPLY DEPTH	0.980	0.980	METRE
BED WIDTH	3.000	3.000	METRE
BED SLOPE	1 : 4000	1 : 4000	



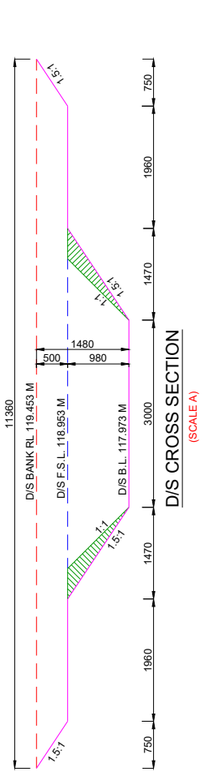
U/S CROSS SECTION

(SCALE A)



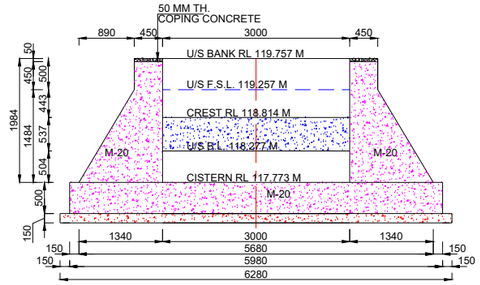
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



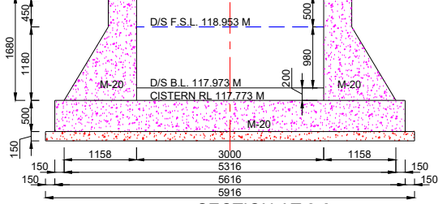
D/S CROSS SECTION

(SCALE A)



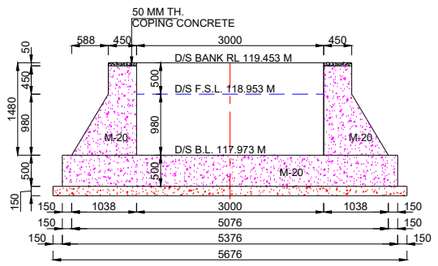
SECTION AT 1-1

(SCALE A)



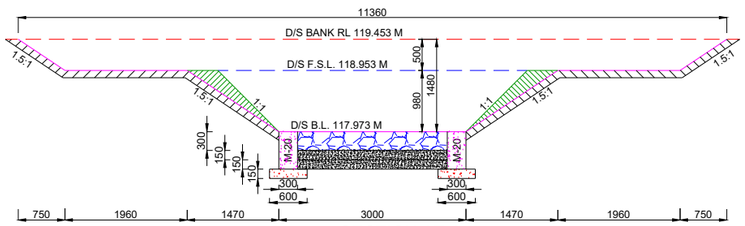
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



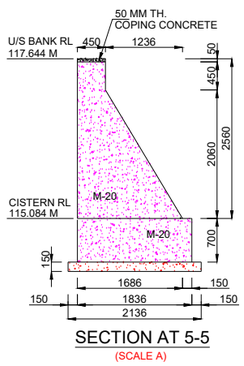
SECTION AT 4-4

(SCALE A)

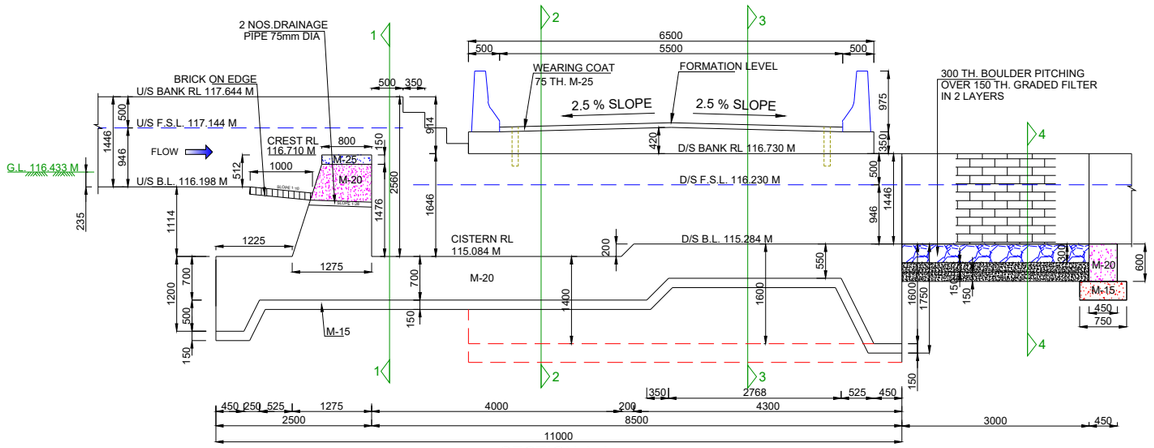
SCALE A:-

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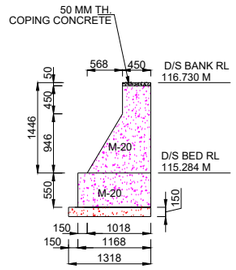
Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.304 M HT. FALL AT KM. 13.900 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
	.	. .



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

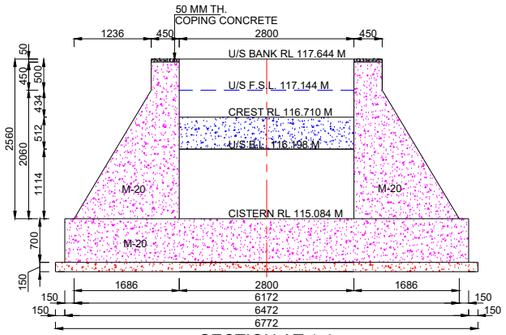
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

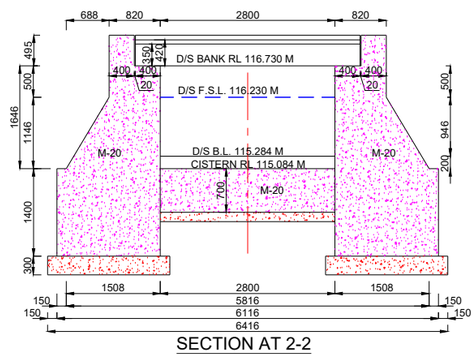
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

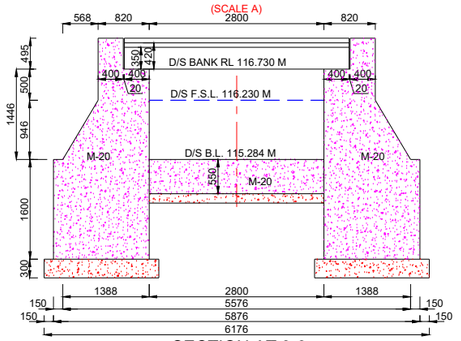
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	1.440	1.440	CUMEC
VERTICAL DROP	0.914	0.914	METRE
FULL SUPPLY DEPTH	0.946	0.946	METRE
BED WIDTH	2.800	2.800	METRE
BED SLOPE	1 : 4000	1 : 4000	



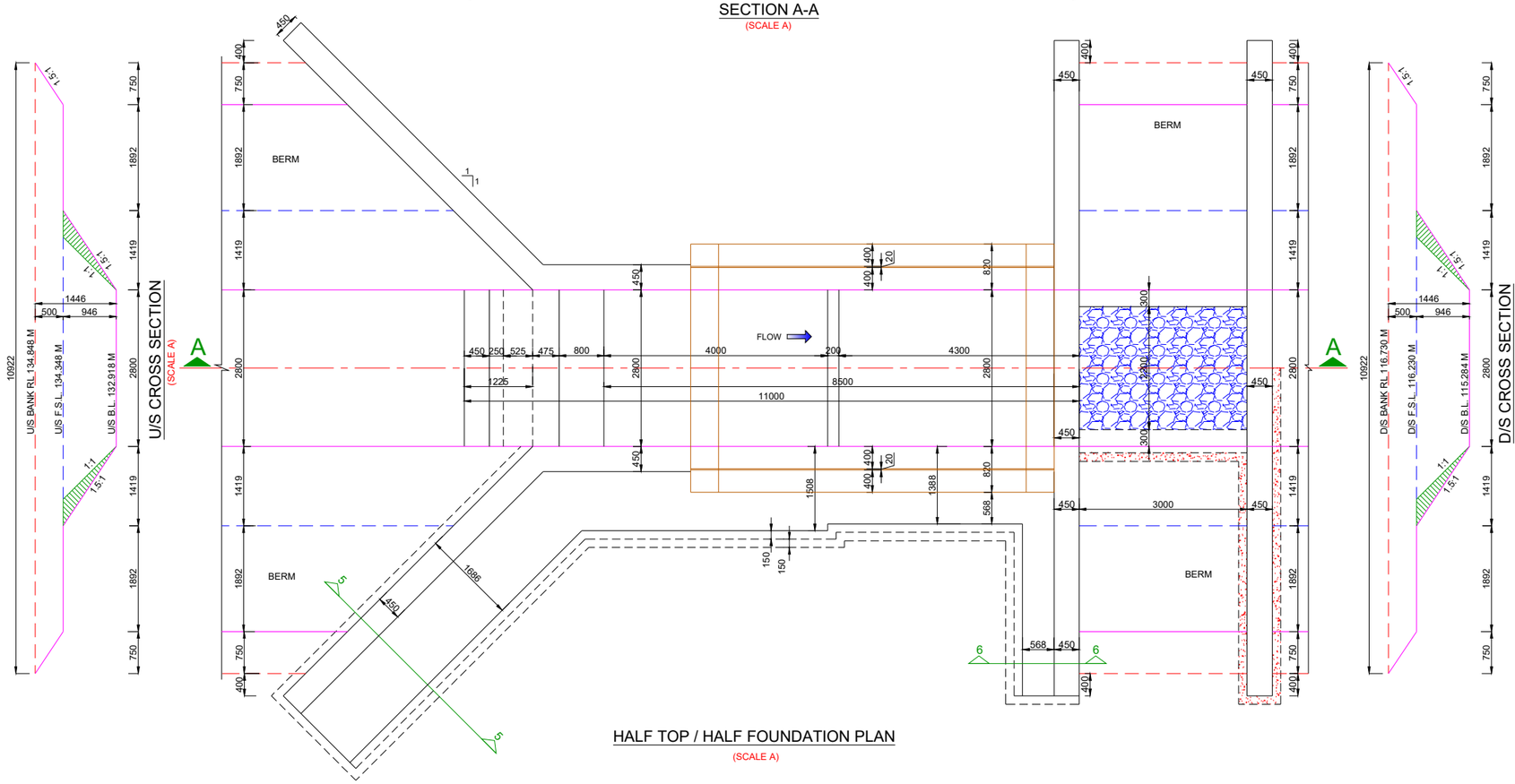
SECTION AT 1-1
(SCALE A)



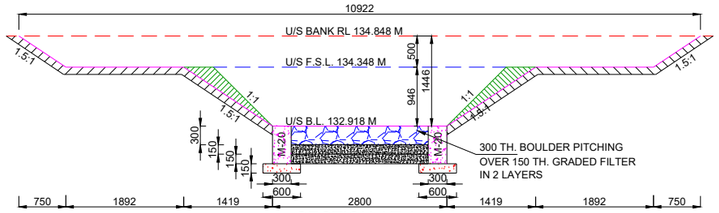
SECTION AT 2-2
(SCALE A)



SECTION AT 3-3
(SCALE A)



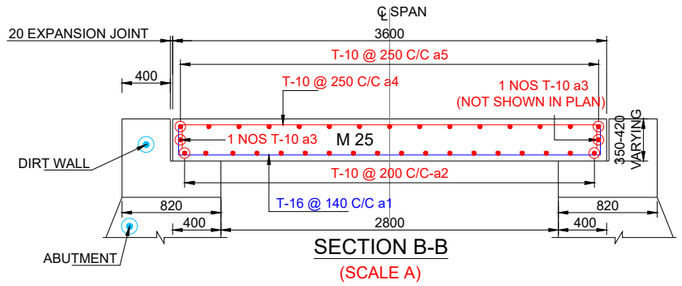
HALF TOP / HALF FOUNDATION PLAN
(SCALE A)



SECTION AT 4-4
(SCALE A)

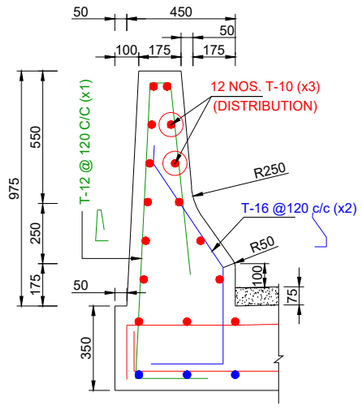
SCALE A:-

Prepared by :-		
WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 15.515 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 2



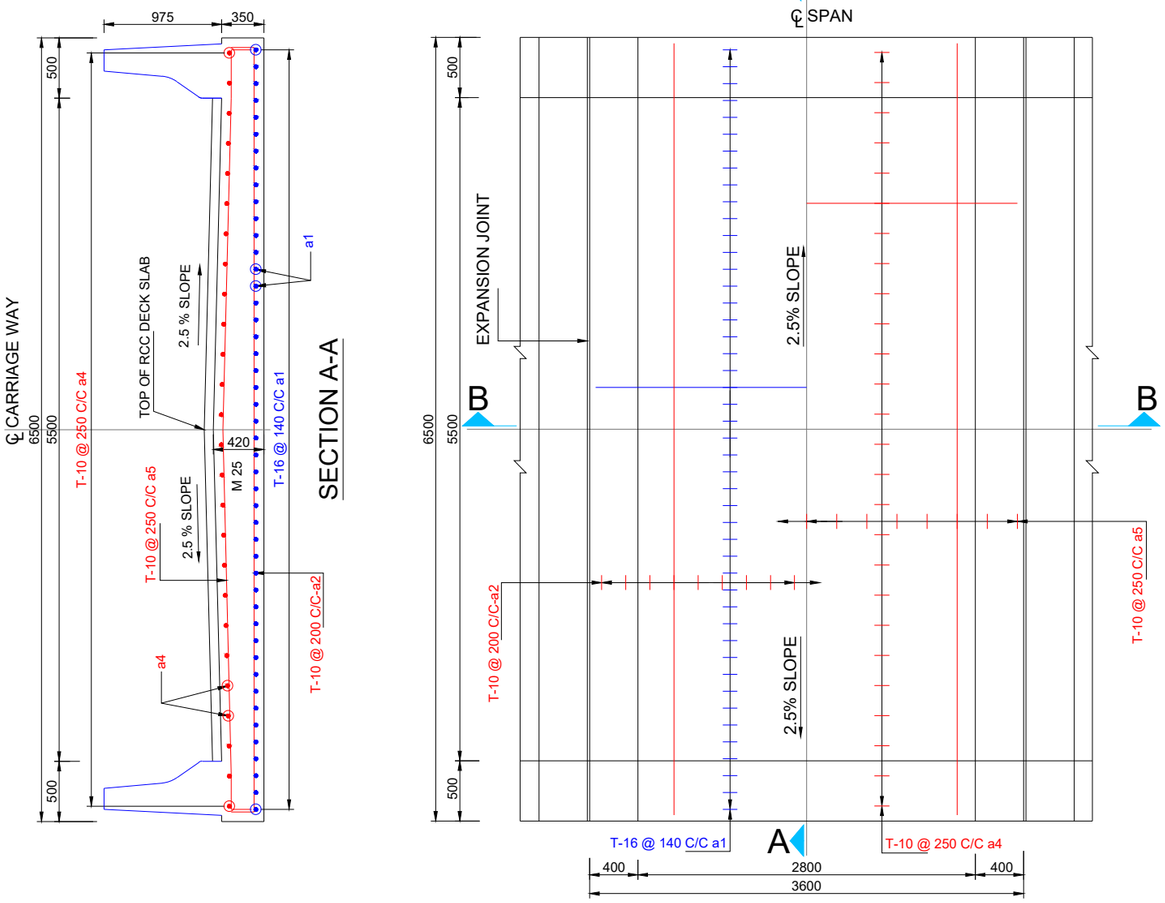
SECTION B-B

(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB

(SCALE B)



BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB

(SCALE A)

NOTES:-

1 ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.

2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25

4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 500) COMFORMING I.S. 1786.

5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.

6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.

7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.

8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.

9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.

10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.

11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.

12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.

13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.

14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.

15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (fy=500N/mm²) (IS 456 CLAUSE 26.2.1)							
TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = $\alpha 1$. lbnet
WHERE, $\alpha 1$ = 1.0 for p%≤25%
$\alpha 1$ = 1.15 for 25%≤p%≤33%
$\alpha 1$ = 1.4 for 33%≤p%≤50%

17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)

18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.

19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.

20. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.

BAR BENDING SCHEDULE

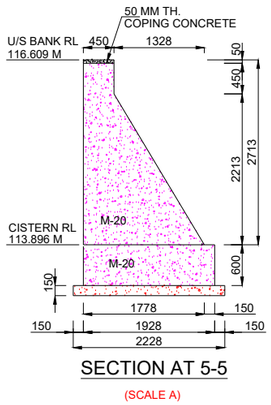
S. No.	Type of bars	Shape of bars (not to scale (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	R=80, 250, 3500, 250	16	140	45
2	a2	R=50, 250, 6400, 250	10	200	18
3	a3	6400	10	-	2
4	a4	3500, 250, R=40, 250	10	250	26
5	a5	450, 2750, 2750, 450, 250, 250	10	250	14

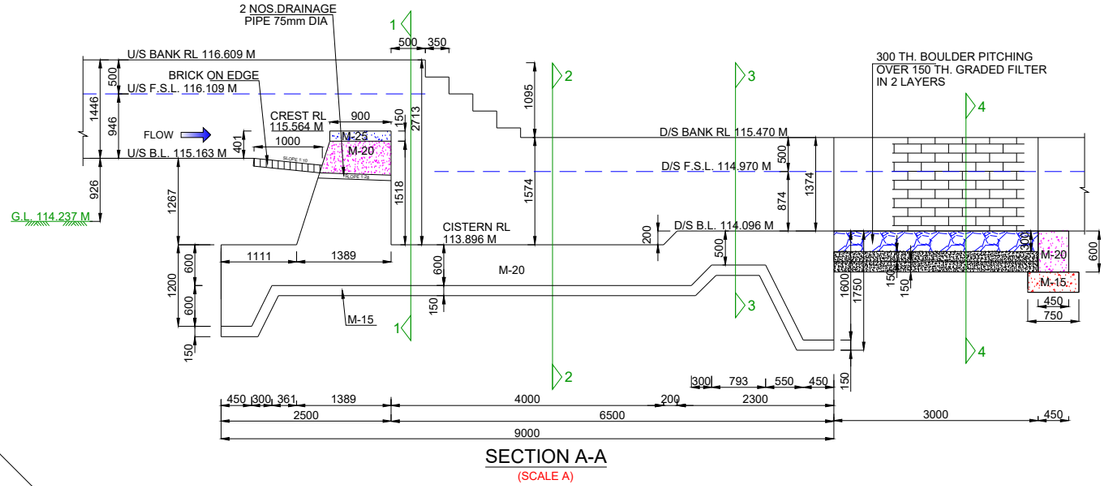
CRASH BARRIER					
1	x1	75, 1226, 950, 300	12	120	30X2
2	x2	75, 540, 400, 300	16	120	30X2
3	x3	3500	12	-	10X2

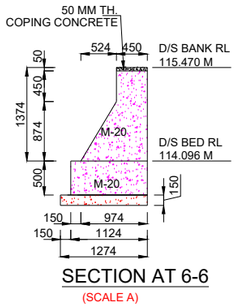
SCALE A:- 400 0 400 800 1200

SCALE B:- 200 0 200 400 600

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 15.515 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 2 of 2
	.	. .







NOTES:-

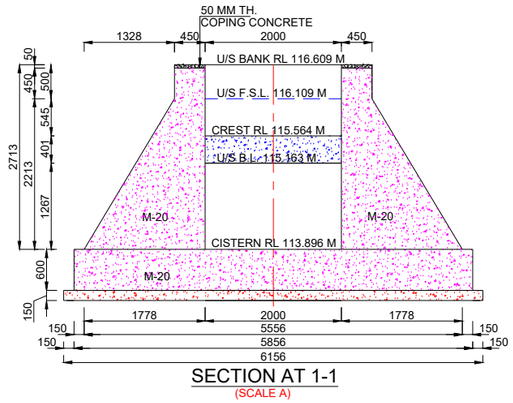
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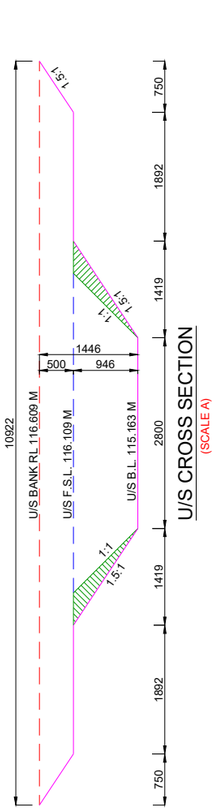
FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

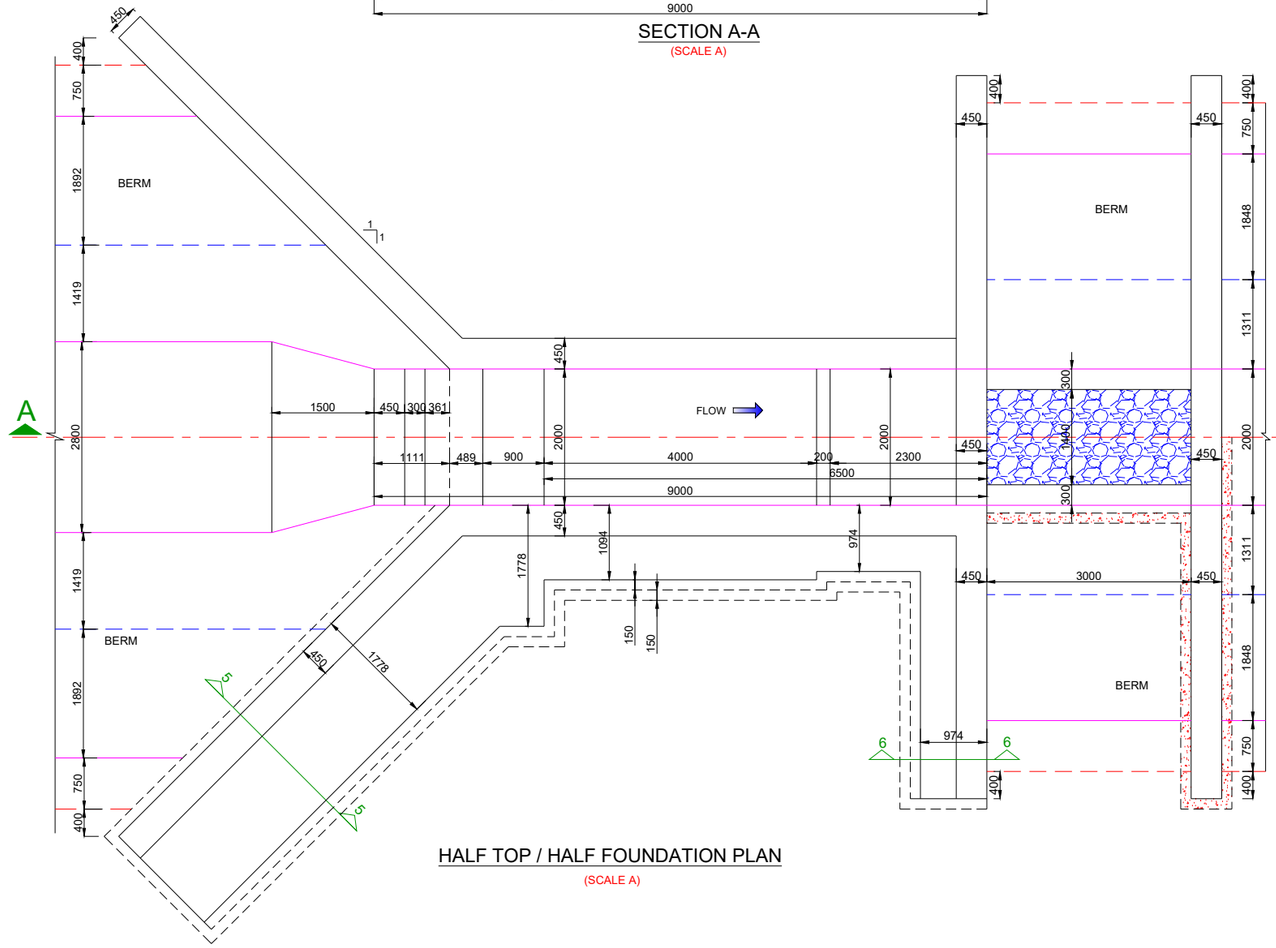
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

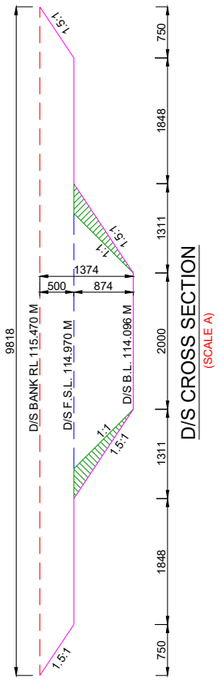
HYDRAULIC:- DATA

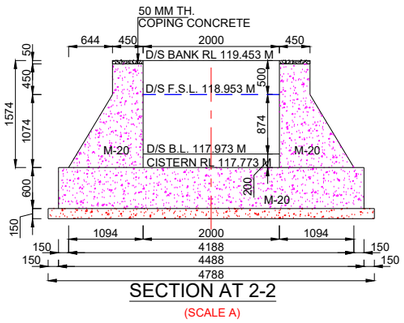
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	1.440	1.440	CUMEC
VERTICAL DROP	1.067	1.067	METRE
FULL SUPPLY DEPTH	0.946	0.874	METRE
BED WIDTH	2.800	2.000	METRE
BED SLOPE	1 : 3500	1 : 3500	

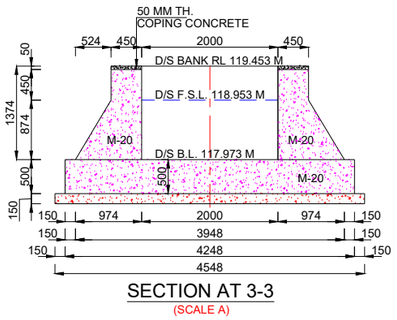


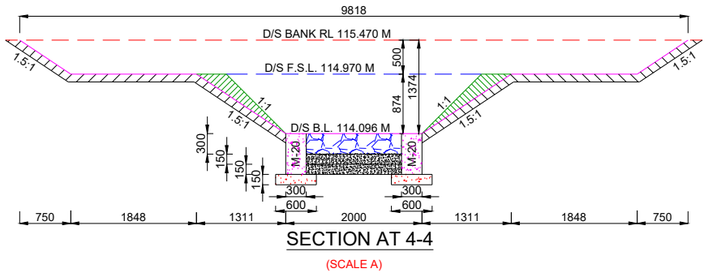




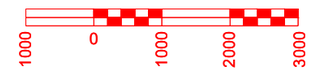




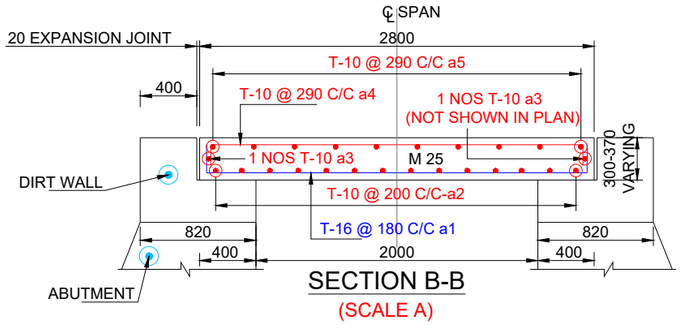




SCALE A:-

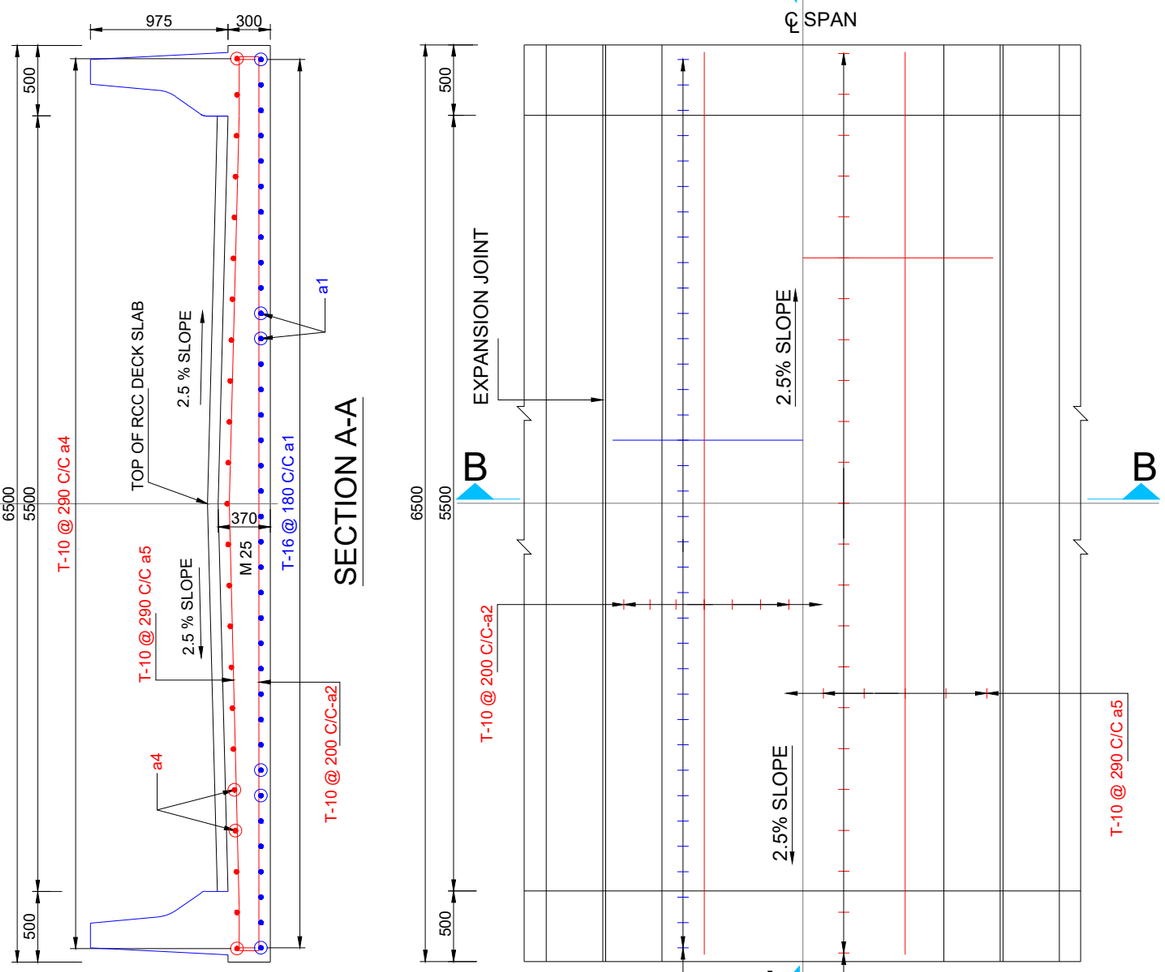


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.067 M HT. FALL AT KM. 16.000 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
	.	. .



SECTION B-B
(SCALE A)

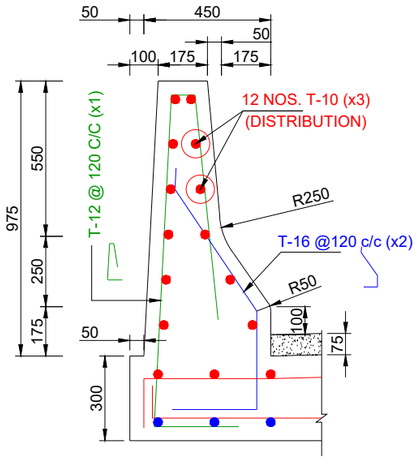
A



SECTION A-A

BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB
(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB
(SCALE B)

BAR BENDING SCHEDULE

S. No.	Type of bars	Shape of bars (not to scale) (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	200, R=80, 2700, 200	16	180	36
2	a2	200, R=50, 6400, 200	10	200	14
3	a3	6400	10	-	2
4	a4	200, R=40, 2700, 200	10	290	23
5	a5	200, 450, 2750, 2750, 450, 200	10	290	10
CRASH BARRIER					
1	x1	75, 1176, 950, 300	12	120	23X2
2	x2	75, 540, 350, 300	16	120	23X2
3	x3	2700	10	-	12X2

NOTES:-

1 ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25
4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 415) COMFORMING I.S. 1786.
5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.
6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.
7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.
8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.
9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.
10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.
11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.
12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.
13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.
14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.
15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (fy=500N/mm²) (IS 456 CLAUSE 26.2.1)

TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

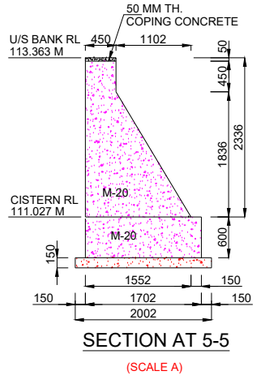
1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = $\alpha 1$. lbnet
WHERE, $\alpha 1$ = 1.0 for p%≤25%
$\alpha 1$ = 1.15 for 25%≤p%≤33%
$\alpha 1$ = 1.4 for 33%≤p%≤50%
17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)
18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.
19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.
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SCALE A:- 400 0 400 800 1200
SCALE B:- 200 0 200 400 600

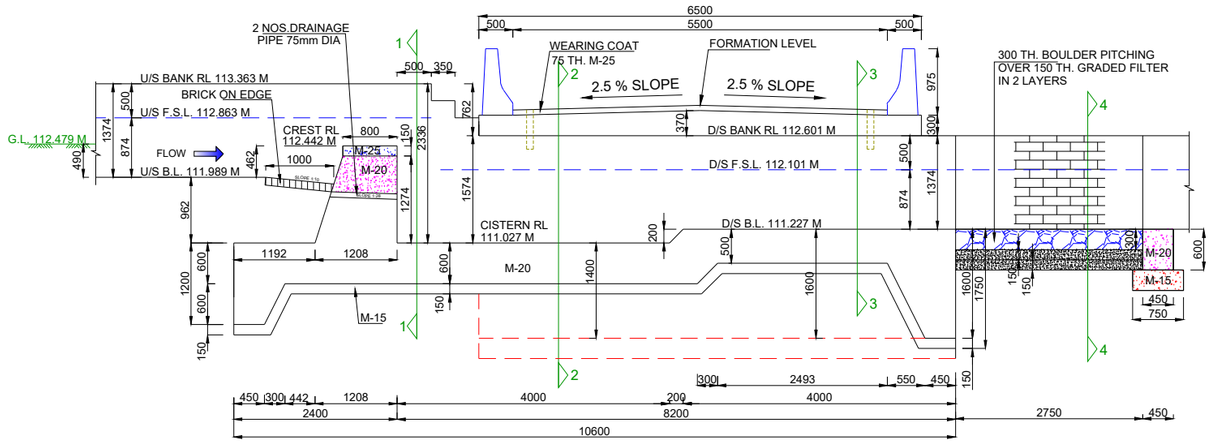
Prepared by :-
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 18.040 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 2 of 2



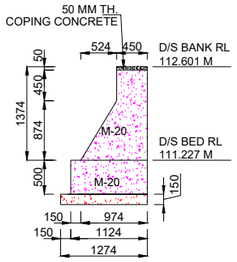
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

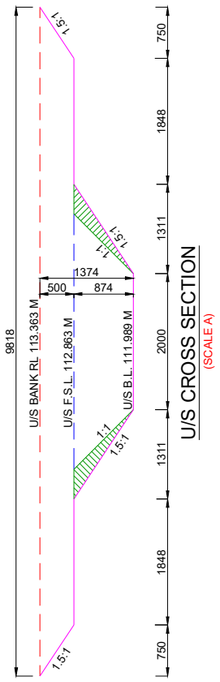
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

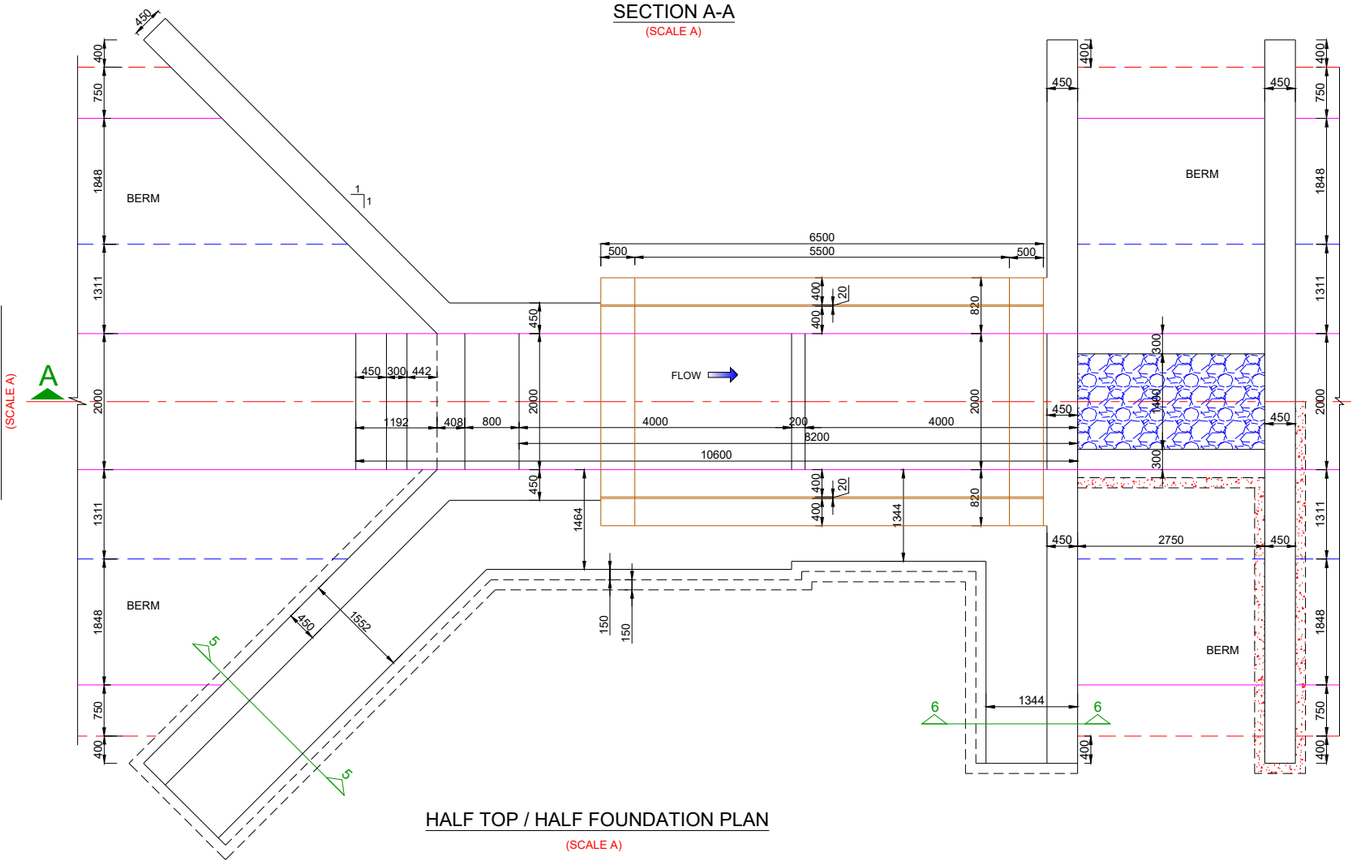
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.950	0.950	CUMEC
VERTICAL DROP	0.762	0.762	METRE
FULL SUPPLY DEPTH	0.874	0.874	METRE
BED WIDTH	2.000	2.000	METRE
BED SLOPE	1 : 3500	1 : 3500	



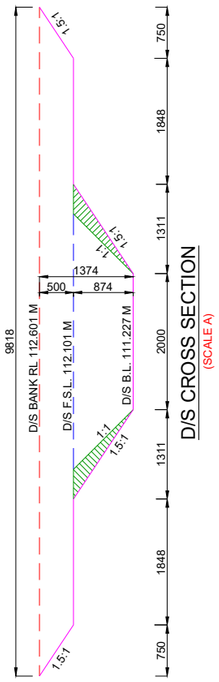
U/S CROSS SECTION

(SCALE A)



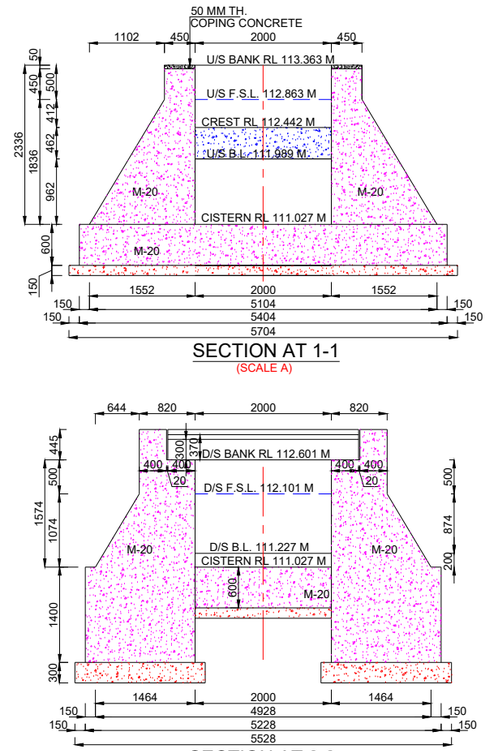
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



D/S CROSS SECTION

(SCALE A)

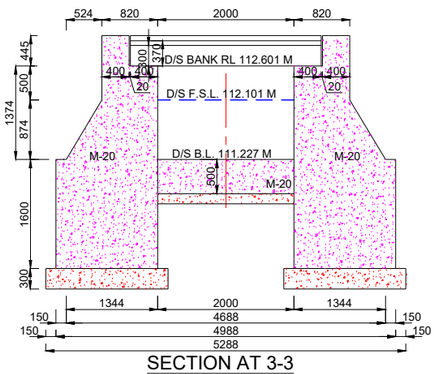


SECTION AT 1-1

(SCALE A)

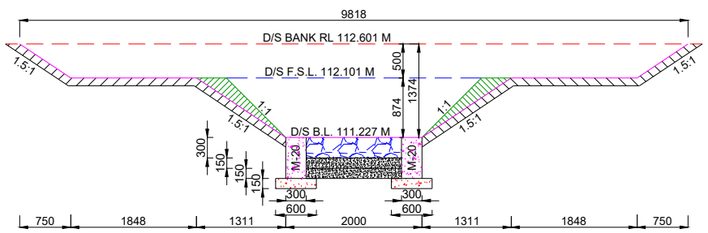
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



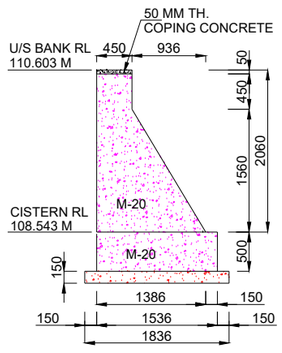
SECTION AT 4-4

(SCALE A)

SCALE A:-

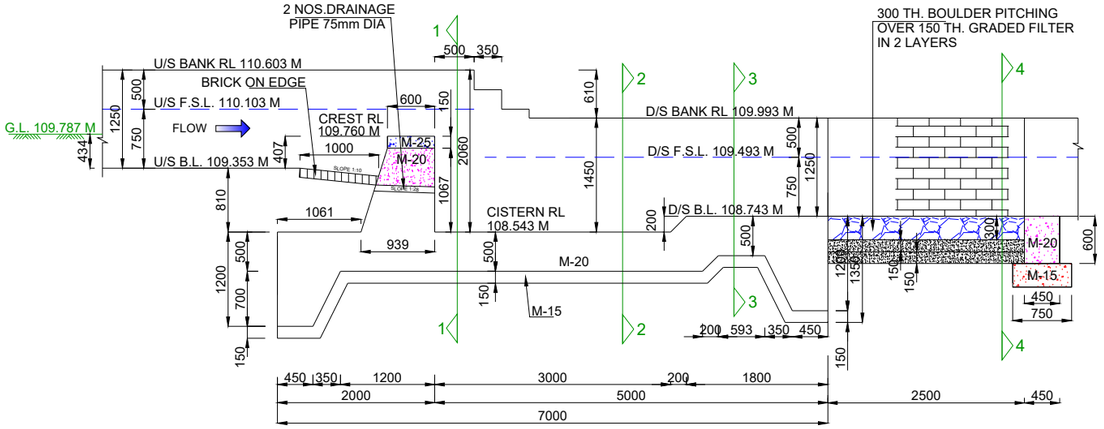
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Prepared by :- WAPCOS LTD.	Project Title :- NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :- SHARDA TYPE 0.762 M HT. FALL AT KM. 18.040 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :- WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 2
	. . .



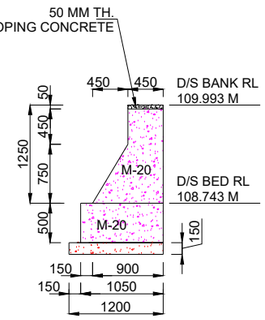
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

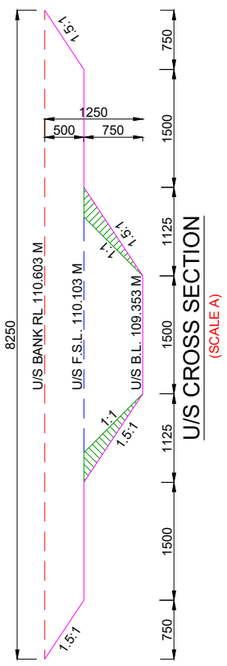
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

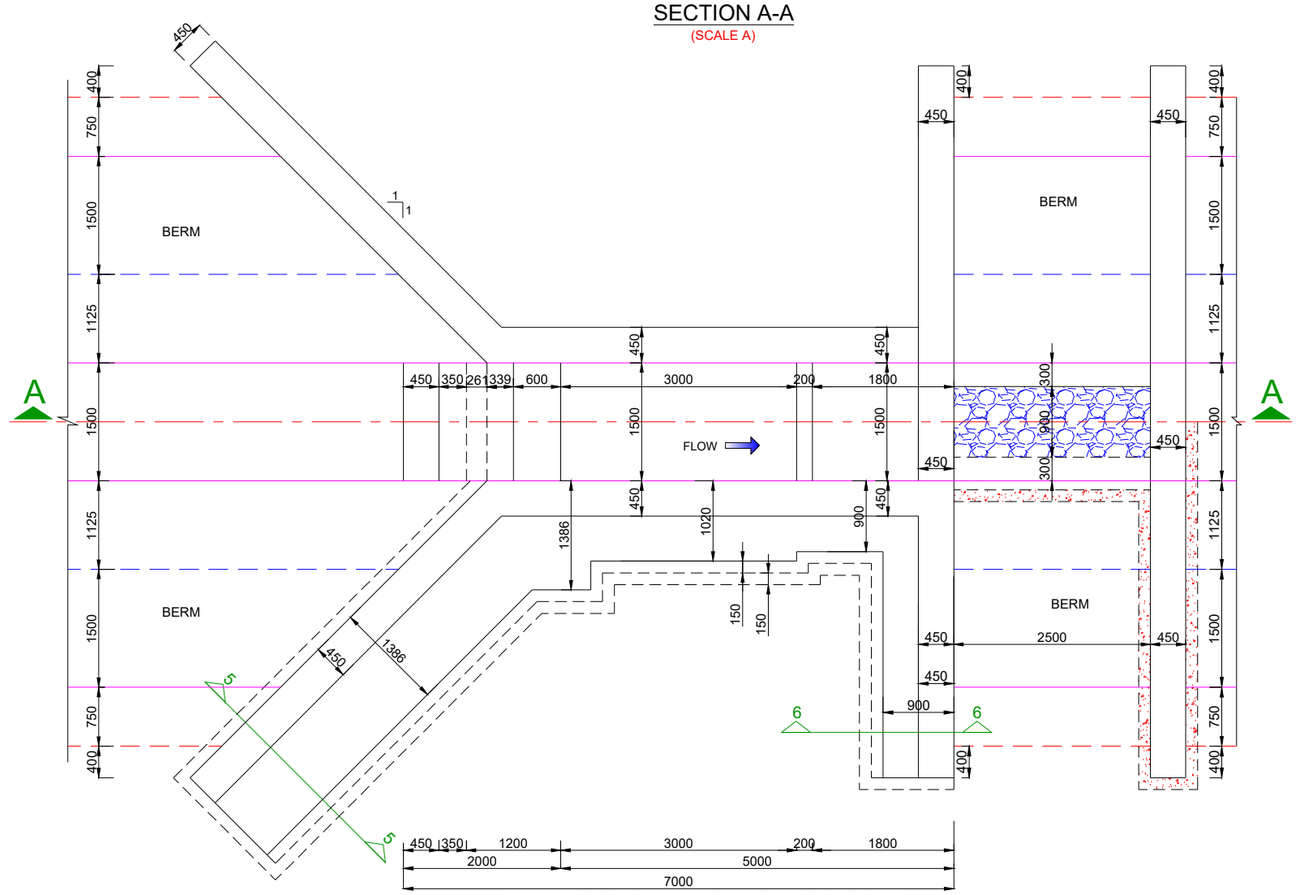
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.570	0.570	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.750	0.750	METRE
BED WIDTH	1.500	1.500	METRE
BED SLOPE	1 : 3300	1 : 3300	



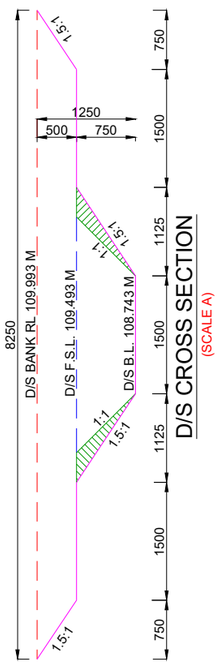
U/S CROSS SECTION

(SCALE A)



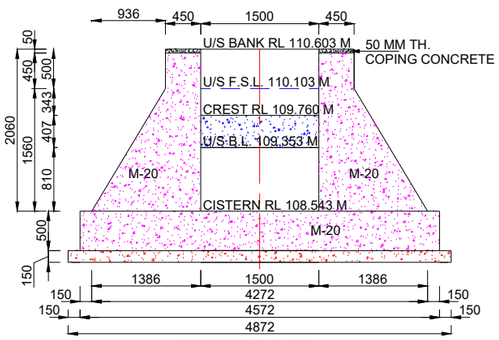
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



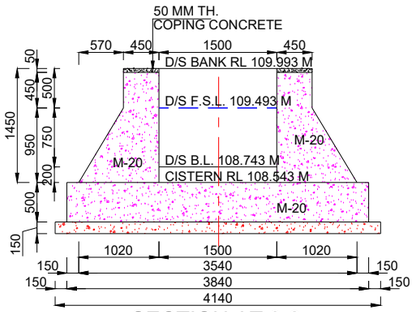
D/S CROSS SECTION

(SCALE A)



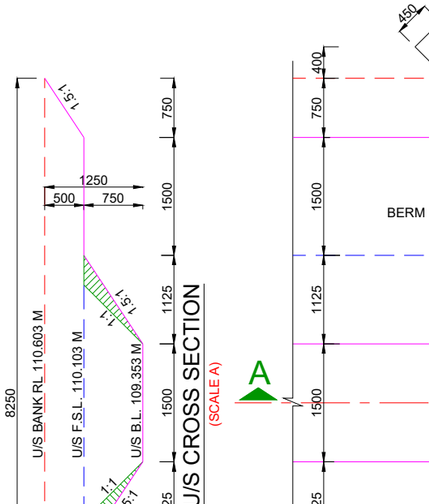
SECTION AT 1-1

(SCALE A)



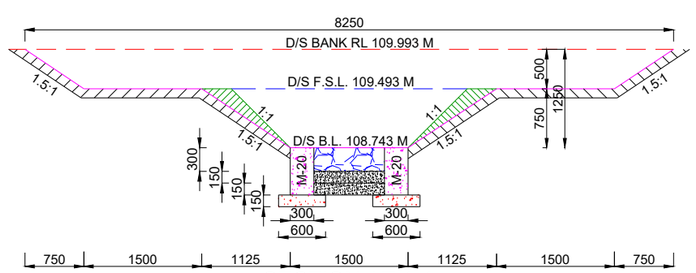
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



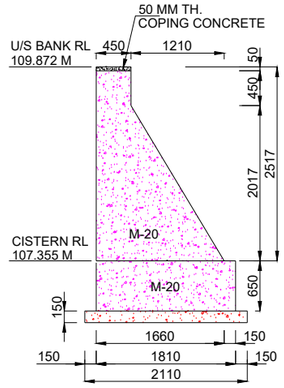
SECTION AT 4-4

(SCALE A)

SCALE A:-

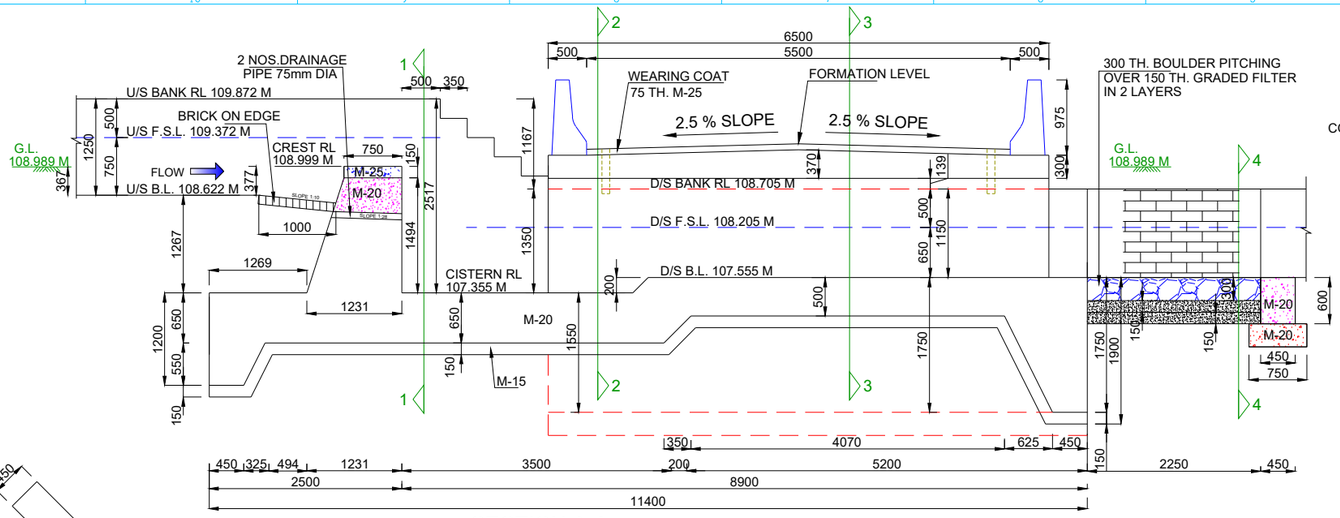
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Prepared by :- WAPCOS LTD.	Project Title :- NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :- SHARDA TYPE 0.610 M HT. FALL AT KM. 19.700 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :- WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
	. . .



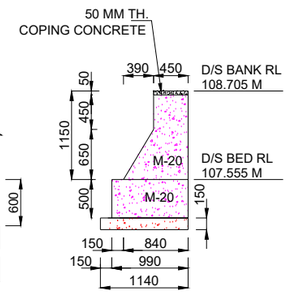
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

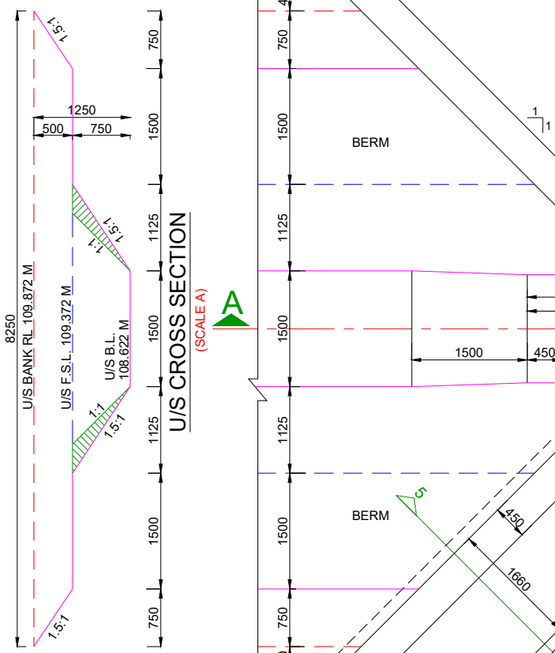
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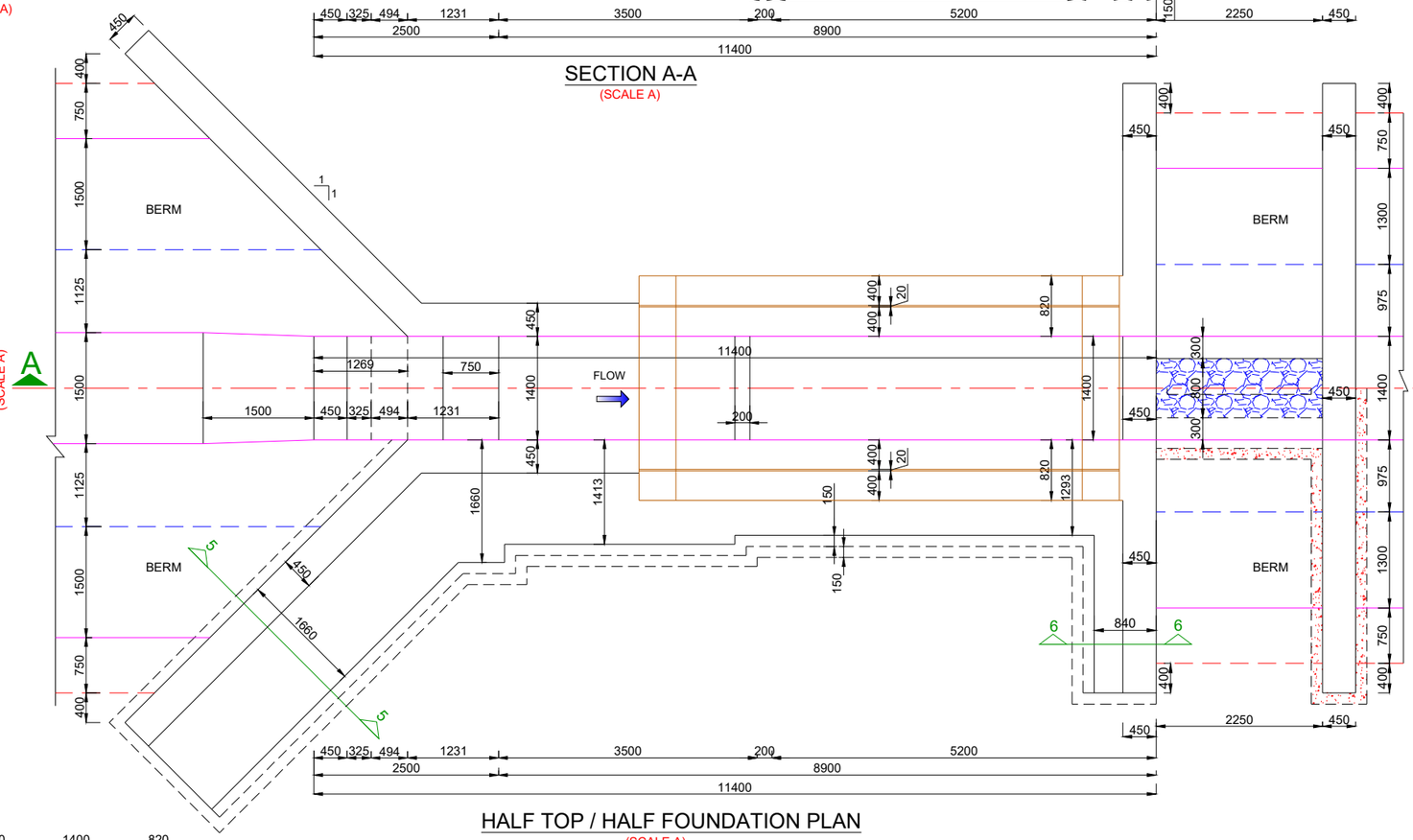
FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

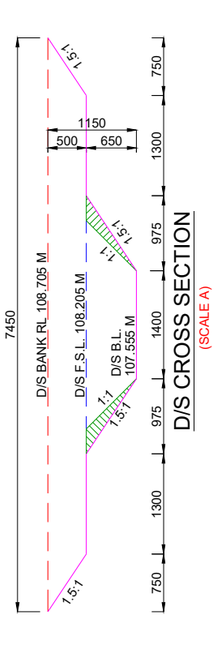
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.570	0.570	CUMEC
VERTICAL DROP	1.067	1.067	METRE
FULL SUPPLY DEPTH	0.750	0.650	METRE
BED WIDTH	1.500	1.400	METRE
BED SLOPE	1 : 3300	1 : 3300	

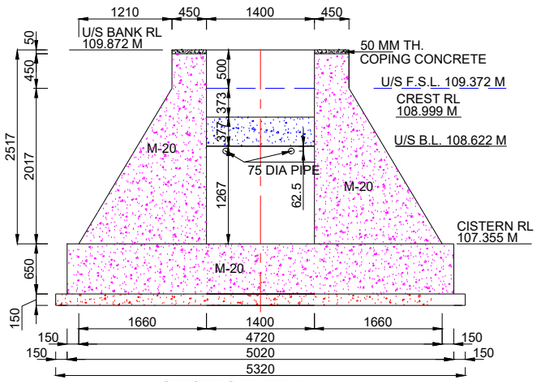




HALF TOP / HALF FOUNDATION PLAN

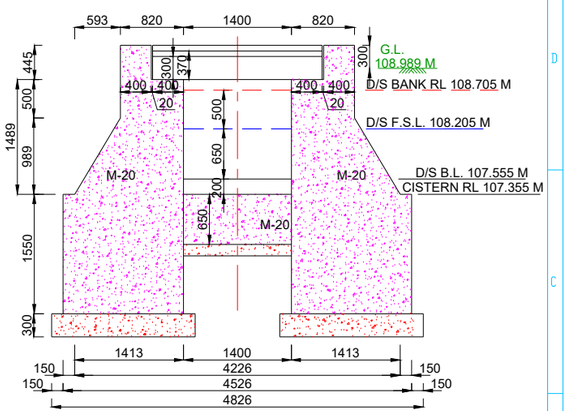
(SCALE A)





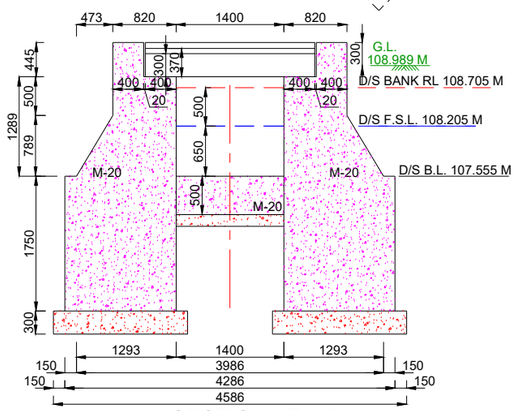
SECTION AT 1-1

(SCALE A)



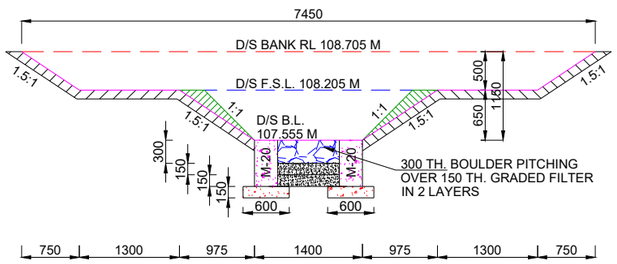
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



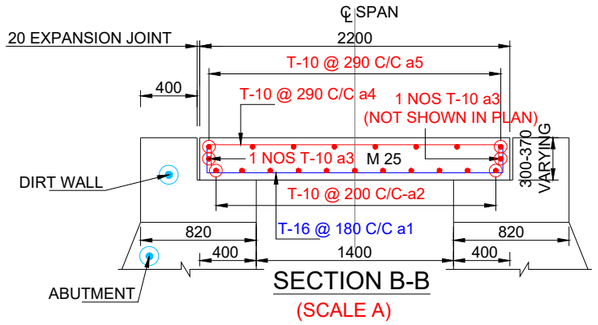
SECTION AT 4-4

(SCALE A)

SCALE A:-

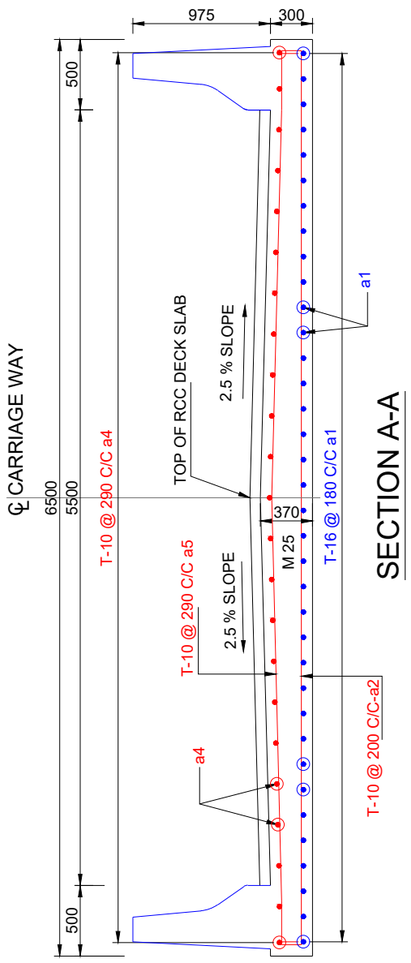
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Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.067 M HT. FALL AT KM. 20.100 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 2
	.	. .

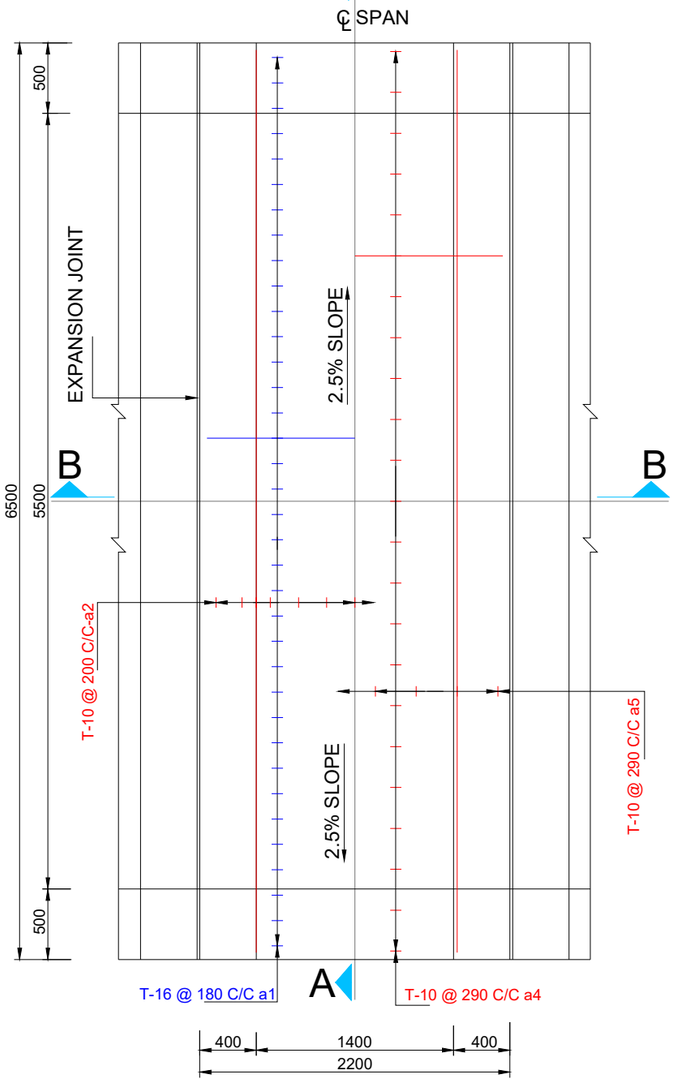


SECTION B-B
(SCALE A)

A

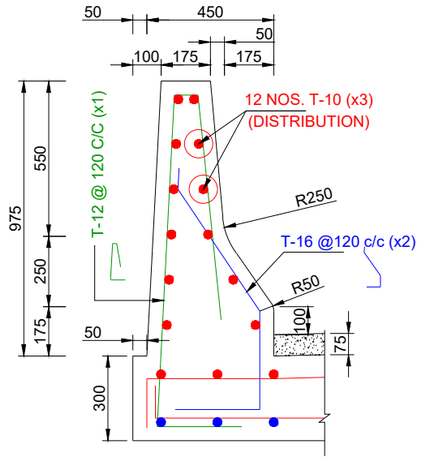


SECTION A-A



BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB
(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB
(SCALE B)

BAR BENDING SCHEDULE

S. No.	Type of bars	Shape of bars (not to scale) (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	200, R=80, 2100, 200	16	180	36
2	a2	200, R=50, 6400, 200	10	200	11
3	a3	6400	10	-	2
4	a4	2100, 200, R=40, 200	10	290	23
5	a5	200, 450, 2750, 2750, 450, 200	10	290	8
CRASH BARRIER					
1	x1	75, 1176, 950, 300	12	120	18X2
2	x2	75, 540, 350, 300	16	120	18X2
3	x3	2100	10	-	12X2

NOTES:-

1 ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25
4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 415) COMFORMING I.S. 1786.
5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.
6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.
7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.
8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.
9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.
10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.
11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.
12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.
13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.
14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.
15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (fy=500N/mm^2) (IS 456 CLAUSE 26.2.1)

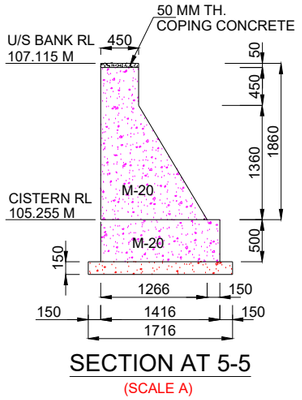
TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = α1. lbnet
WHERE, α1 = 1.0 for p%≤25%
α1 = 1.15 for 25%≤p%≤33%
α1 = 1.4 for 33%≤p%≤50%
17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)
18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.
19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.
20. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.

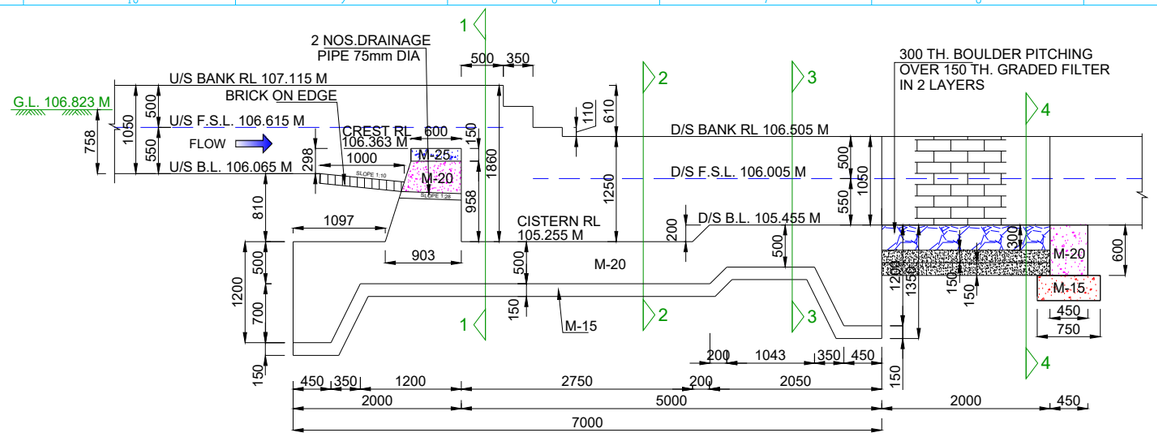
SCALE A:- 400 0 400 800 1200
SCALE B:- 200 0 200 400 600

Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 20.100 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 2 of 2



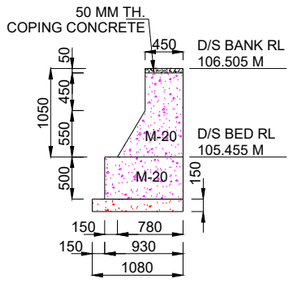
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

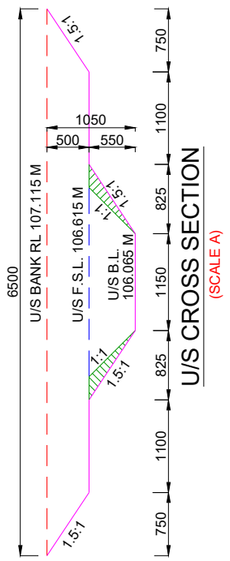
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

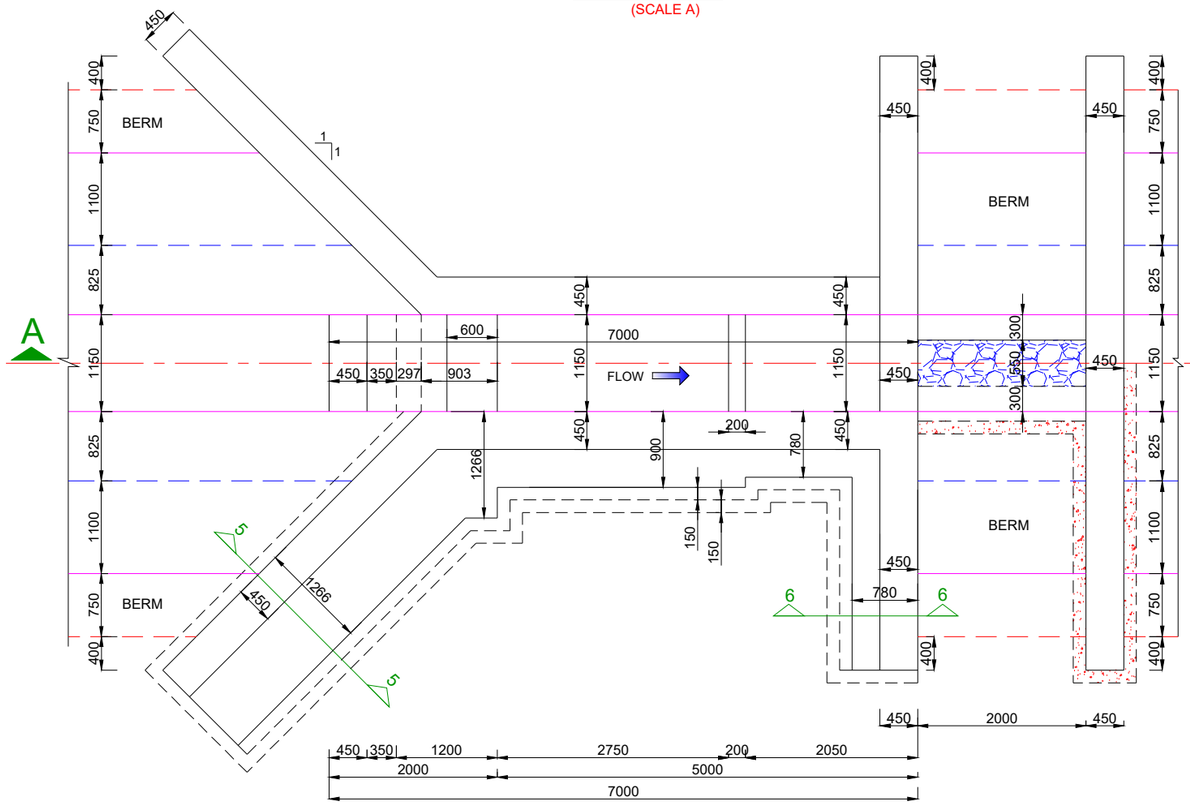
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.260	0.260	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.550	0.550	METRE
BED WIDTH	1.150	1.150	METRE
BED SLOPE	1 : 3300	1 : 3300	



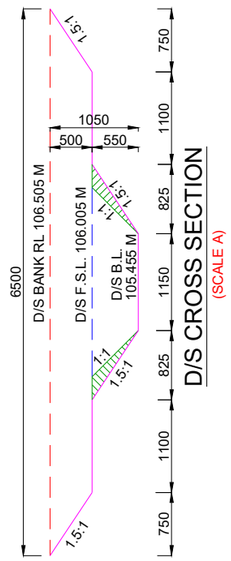
U/S CROSS SECTION

(SCALE A)



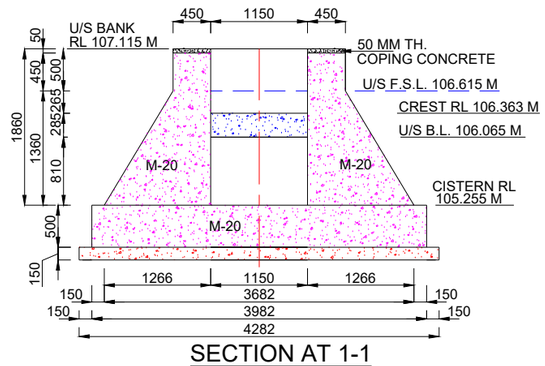
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



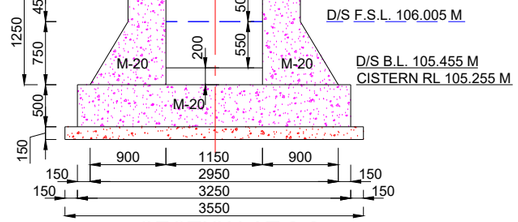
D/S CROSS SECTION

(SCALE A)



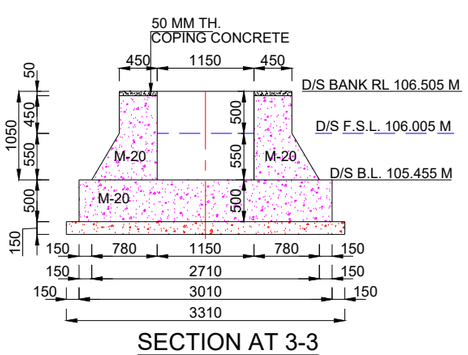
SECTION AT 1-1

(SCALE A)



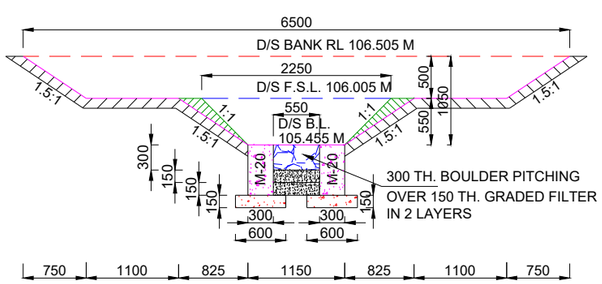
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



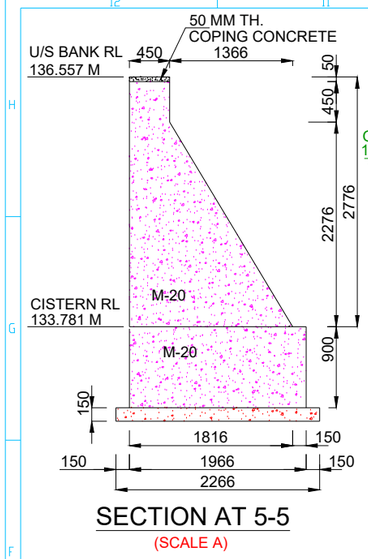
SECTION AT 4-4

(SCALE A)

SCALE A:-

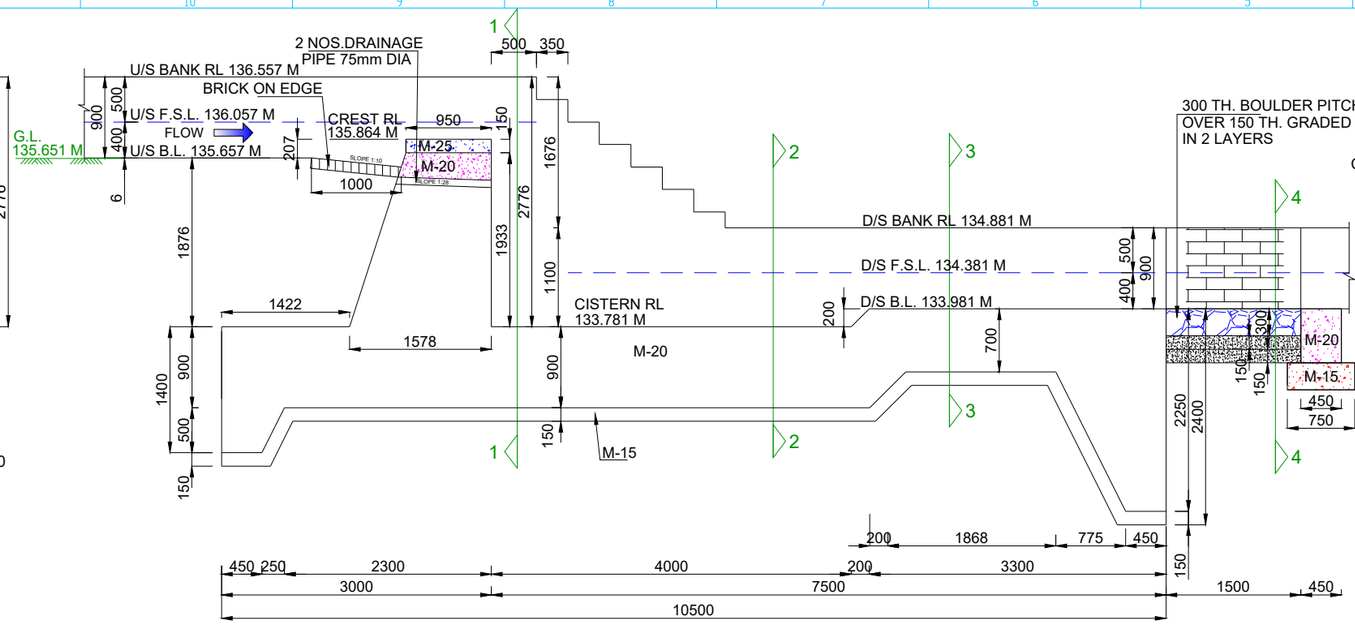
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Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 22.000 OF BASDIHA DY. (OFFTAKE FROM RD - 51+349 KM. (LT), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-013/ FALL 1 of 1
	.	. .



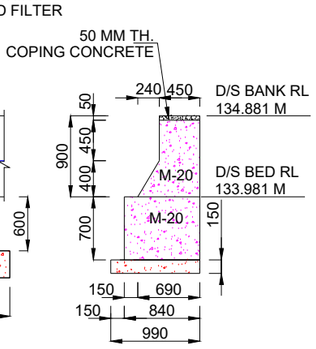
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

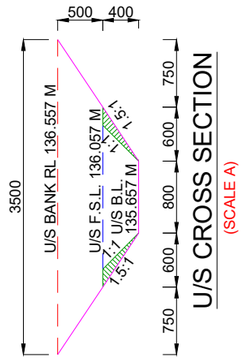
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

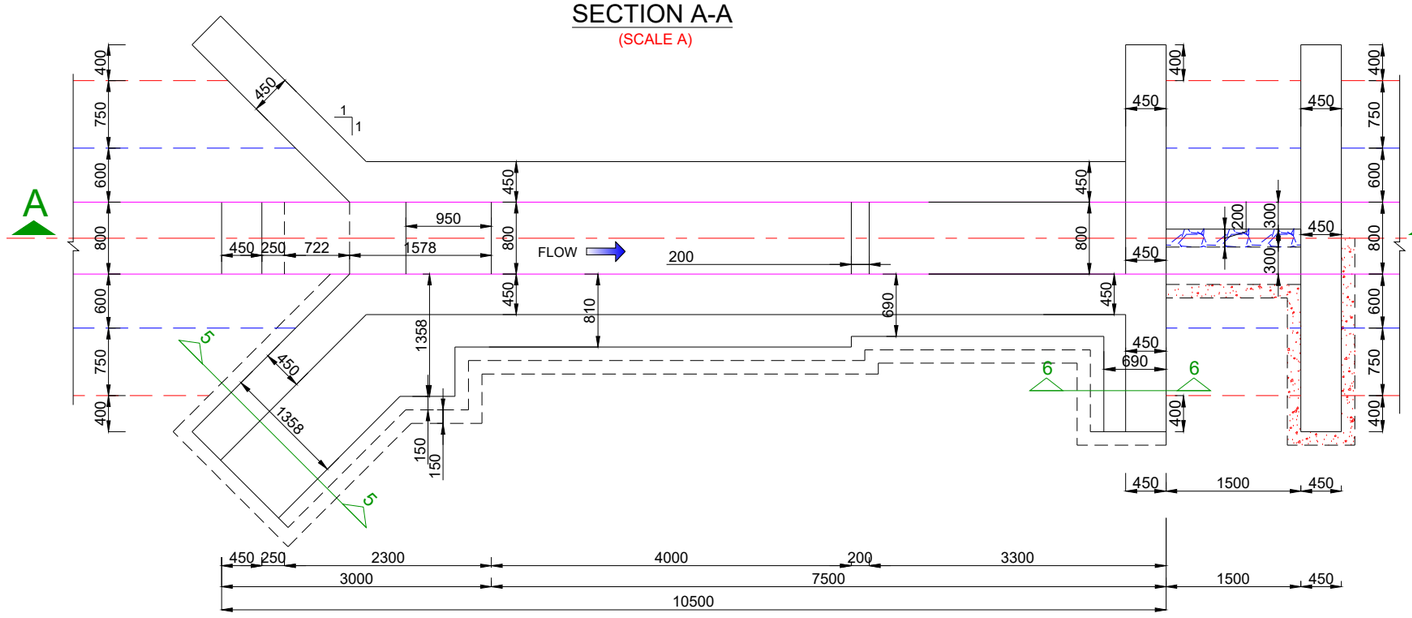
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.100	0.100	CUMEC
VERTICAL DROP	1.676	1.676	METRE
FULL SUPPLY DEPTH	0.400	0.400	METRE
BED WIDTH	0.800	0.800	METRE
BED SLOPE	1 : 3500	1 : 3500	



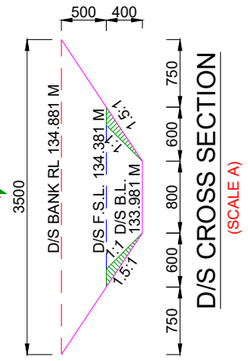
U/S CROSS SECTION

(SCALE A)



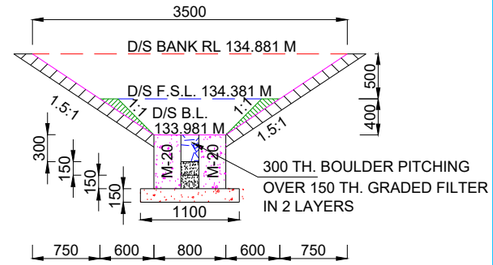
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



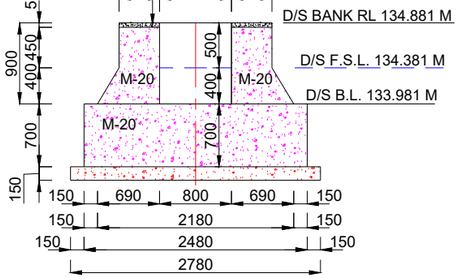
D/S CROSS SECTION

(SCALE A)



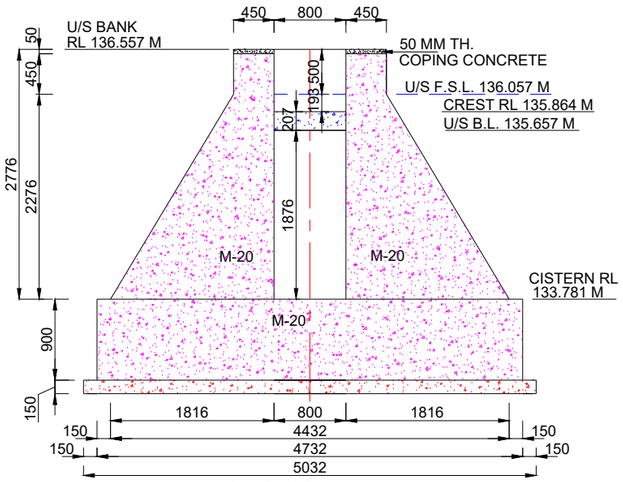
SECTION AT 4-4

(SCALE A)



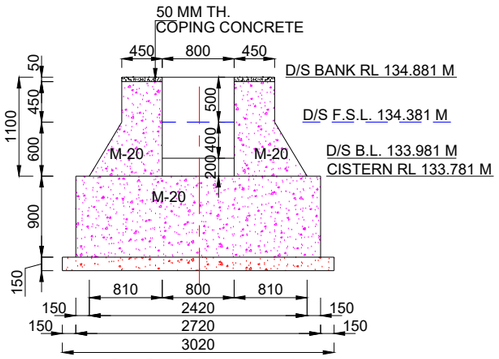
SECTION AT 3-3

(SCALE A)



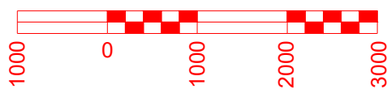
SECTION AT 1-1

(SCALE A)

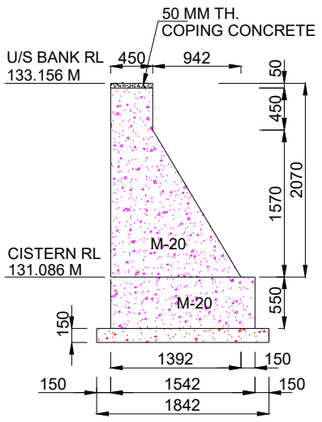


SECTION AT 2-2

SCALE A:-

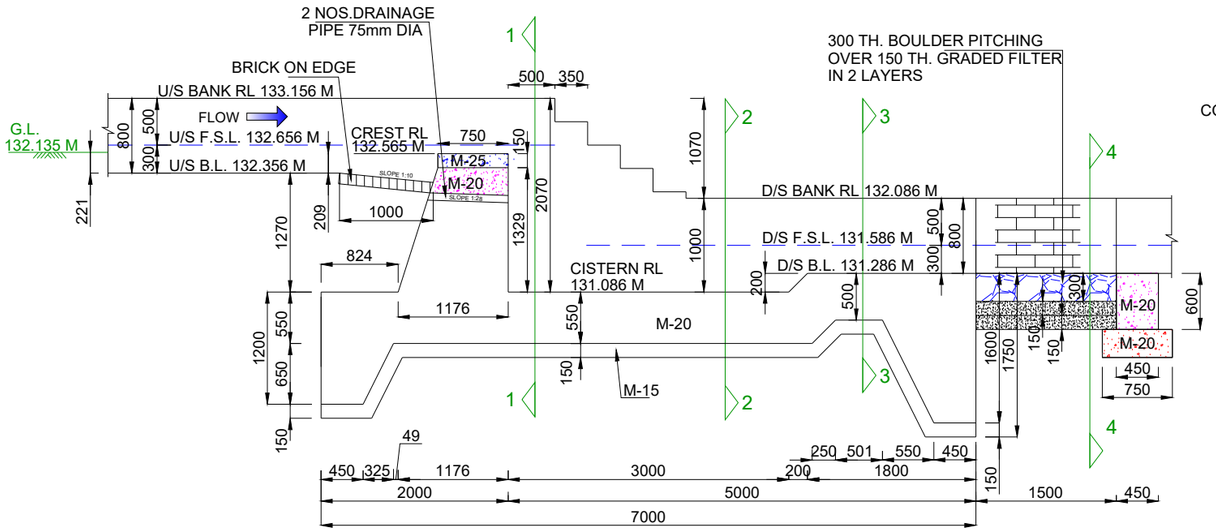


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.676 M HT. FALL AT KM. 2.950 OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ FALL 1 of 1
	.	. .



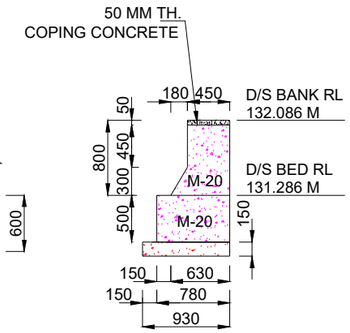
SECTION AT 5-5

(SCALE A)



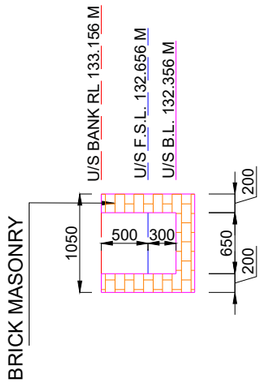
SECTION A-A

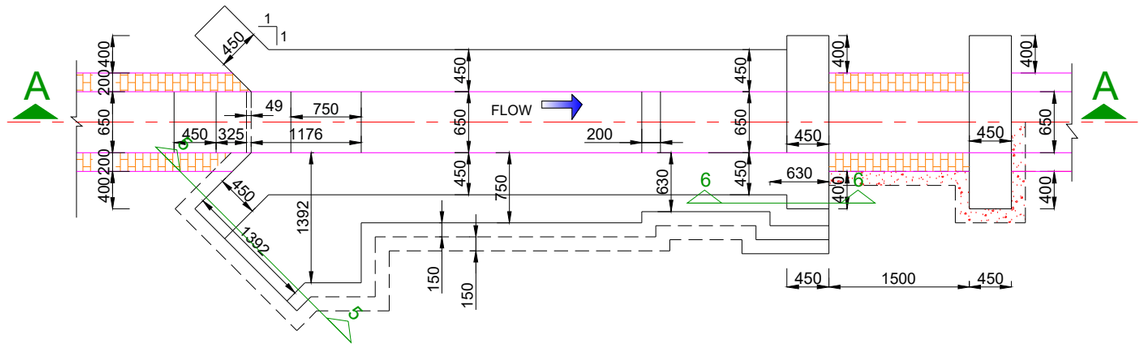
(SCALE A)



SECTION AT 6-6

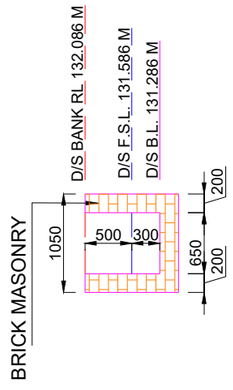
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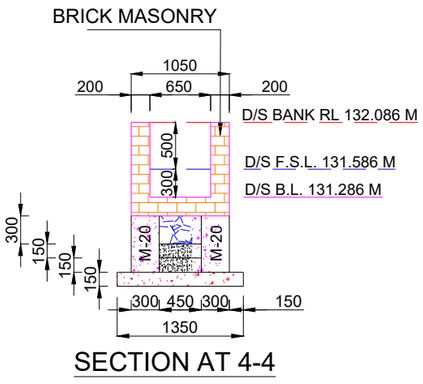




HALF TOP / HALF FOUNDATION PLAN

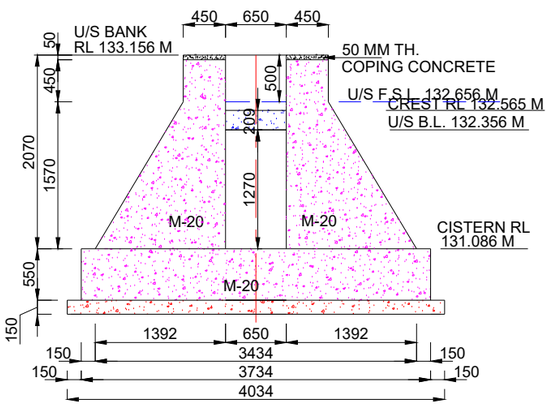
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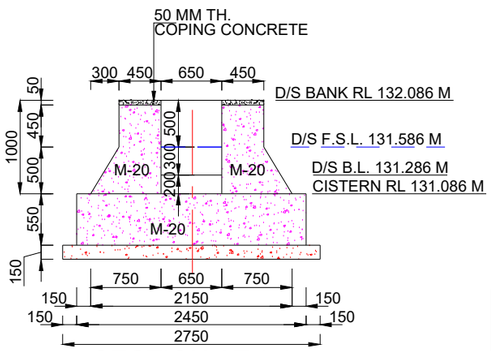
SECTION AT 4-4

(SCALE A)



SECTION AT 1-1

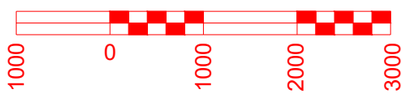
(SCALE A)

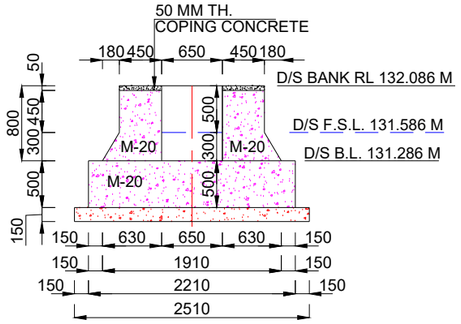


SECTION AT 2-2

(SCALE A)

SCALE A:-





SECTION AT 3-3

(SCALE A)

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

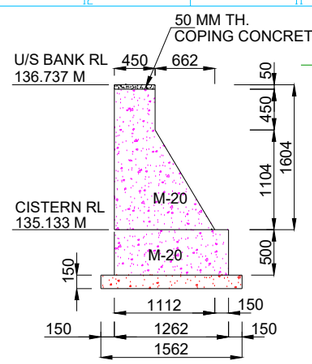
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.030	0.030	CUMEC
VERTICAL DROP	1.070	1.070	METRE
FULL SUPPLY DEPTH	0.300	0.300	METRE
BED WIDTH	0.650	0.650	METRE
BED SLOPE	1 : 3200	1 : 3200	

Prepared by :-

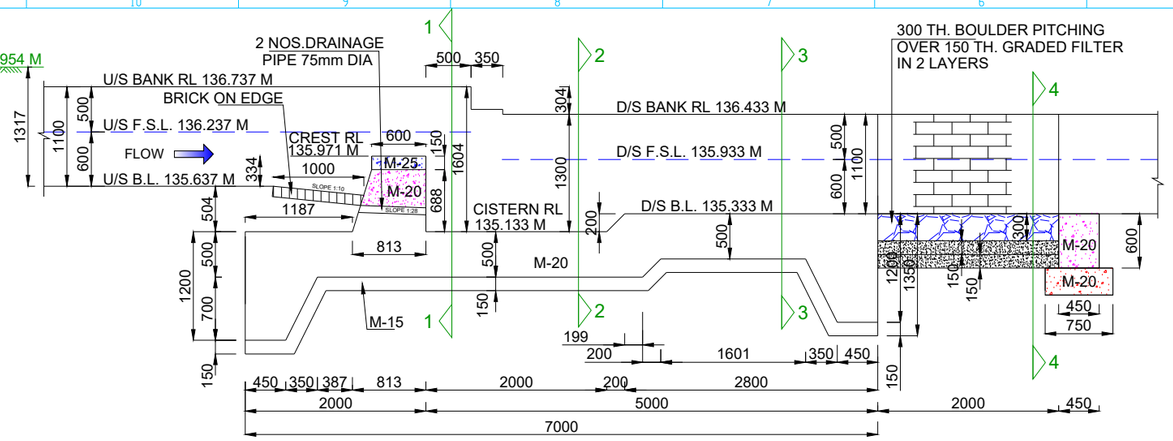
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 1.070 M HT. FALL AT KM. 4.350 OF SHANKARPUR MR. (OFFTAKE FROM RD - 0+345 KM. (L), BASDIHA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-01/ FALL 1 of 1



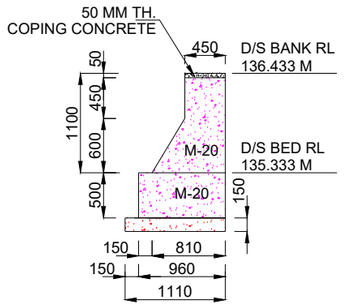
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

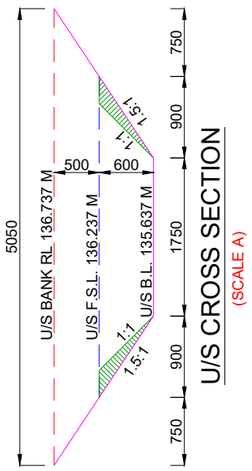
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

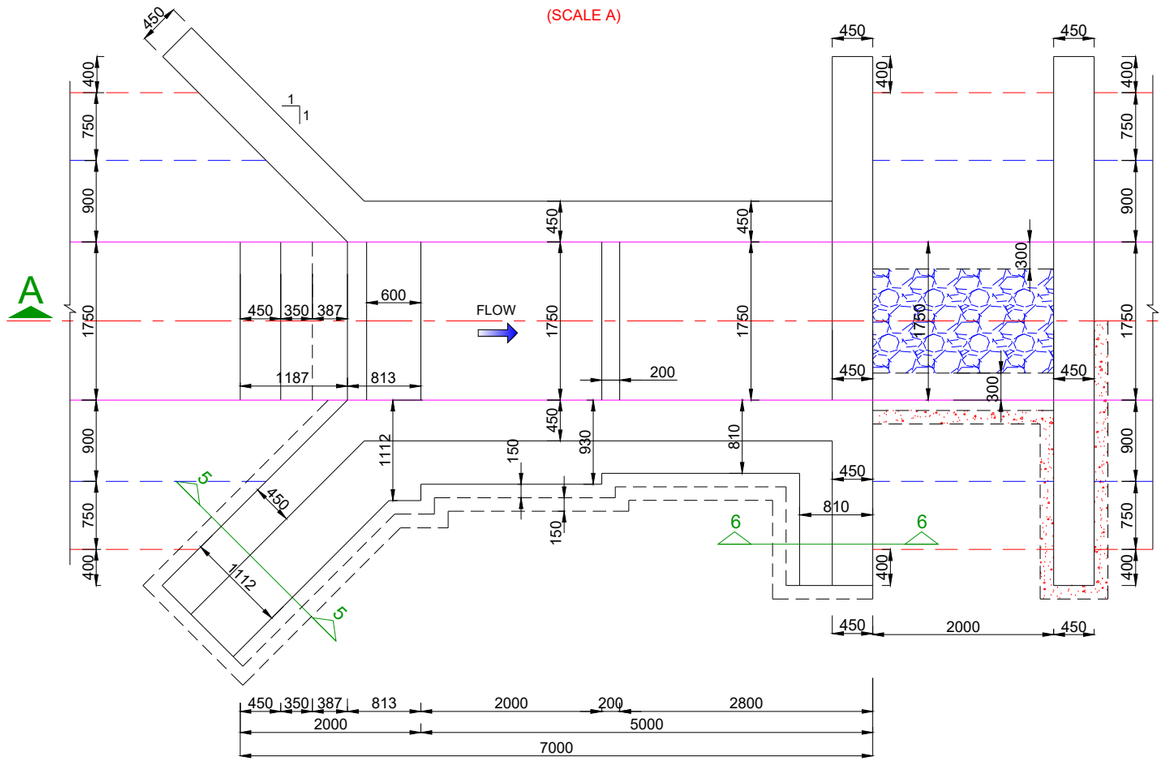
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.430	0.430	CUMEC
VERTICAL DROP	0.304	0.304	METRE
FULL SUPPLY DEPTH	0.600	0.600	METRE
BED WIDTH	1.750	1.750	METRE
BED SLOPE	1 : 4000	1 : 4000	



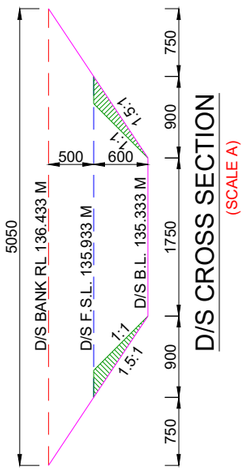
U/S CROSS SECTION

(SCALE A)



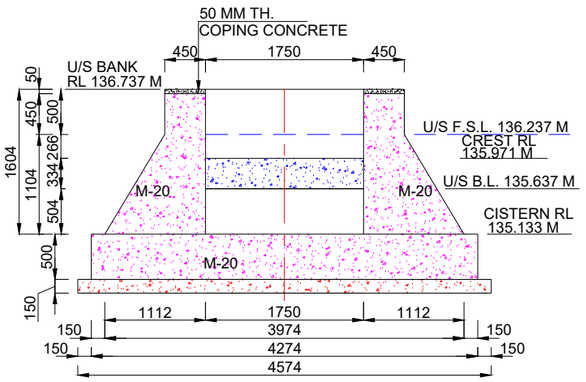
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



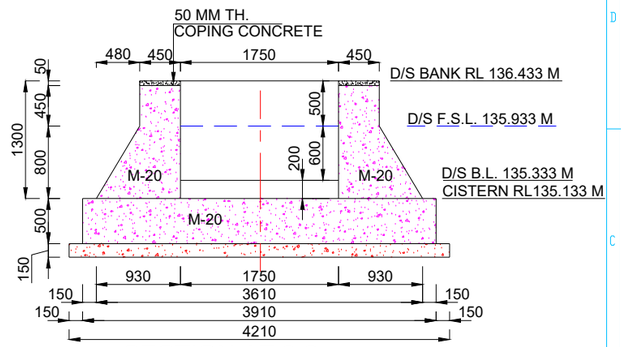
D/S CROSS SECTION

(SCALE A)



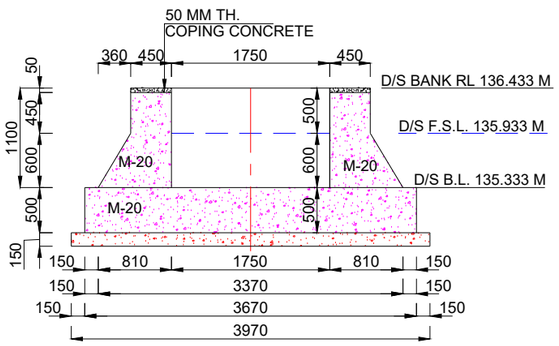
SECTION AT 1-1

(SCALE A)



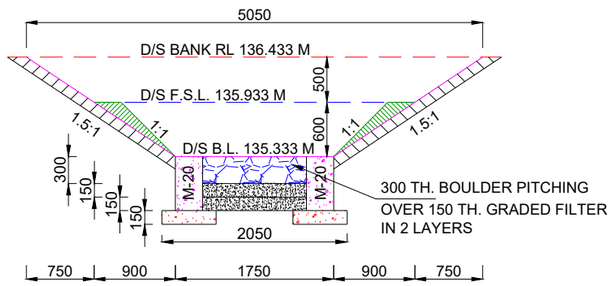
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

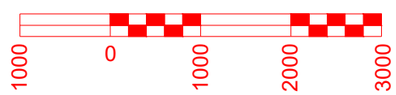
(SCALE A)



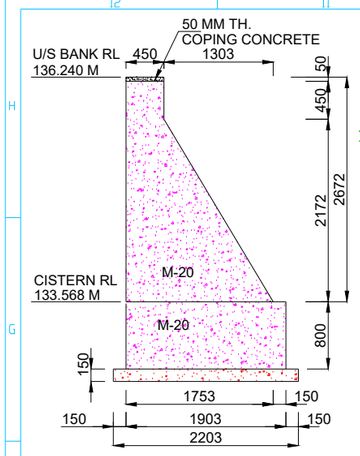
SECTION AT 4-4

(SCALE A)

SCALE A:-

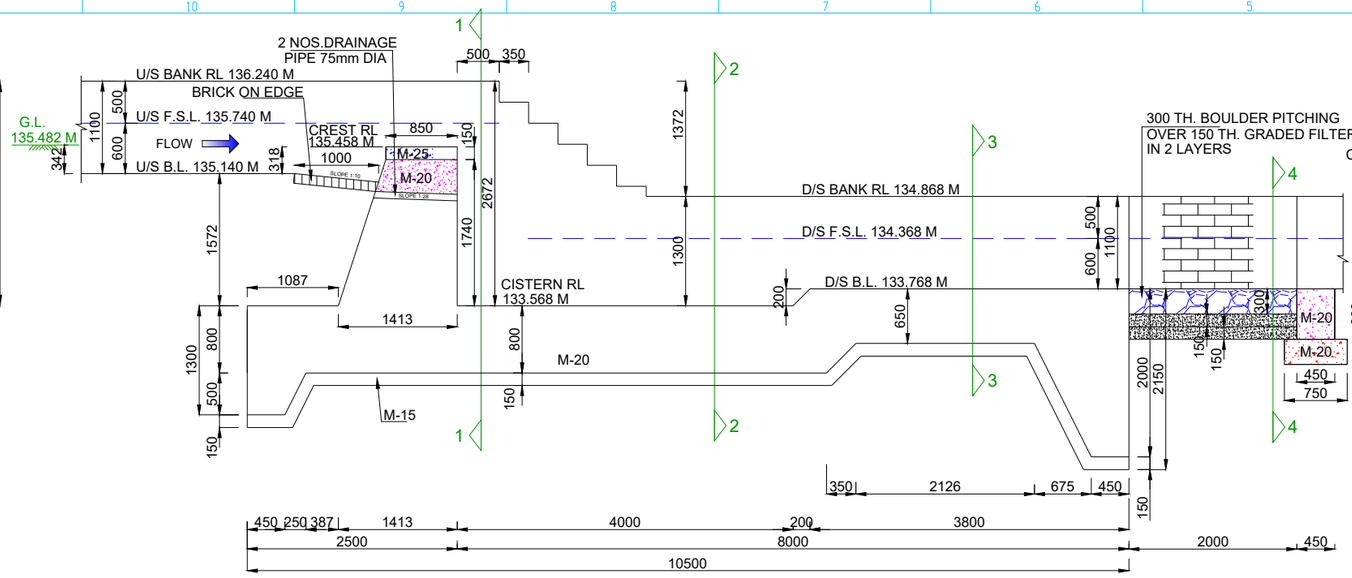


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.304 M HT. FALL AT KM. 3.075 OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ FALL 1 of 1
	.	. .



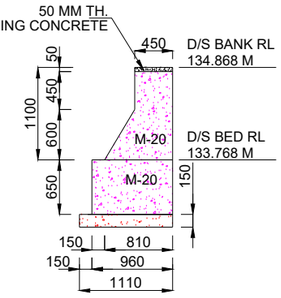
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

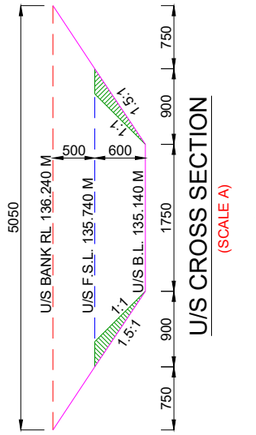
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

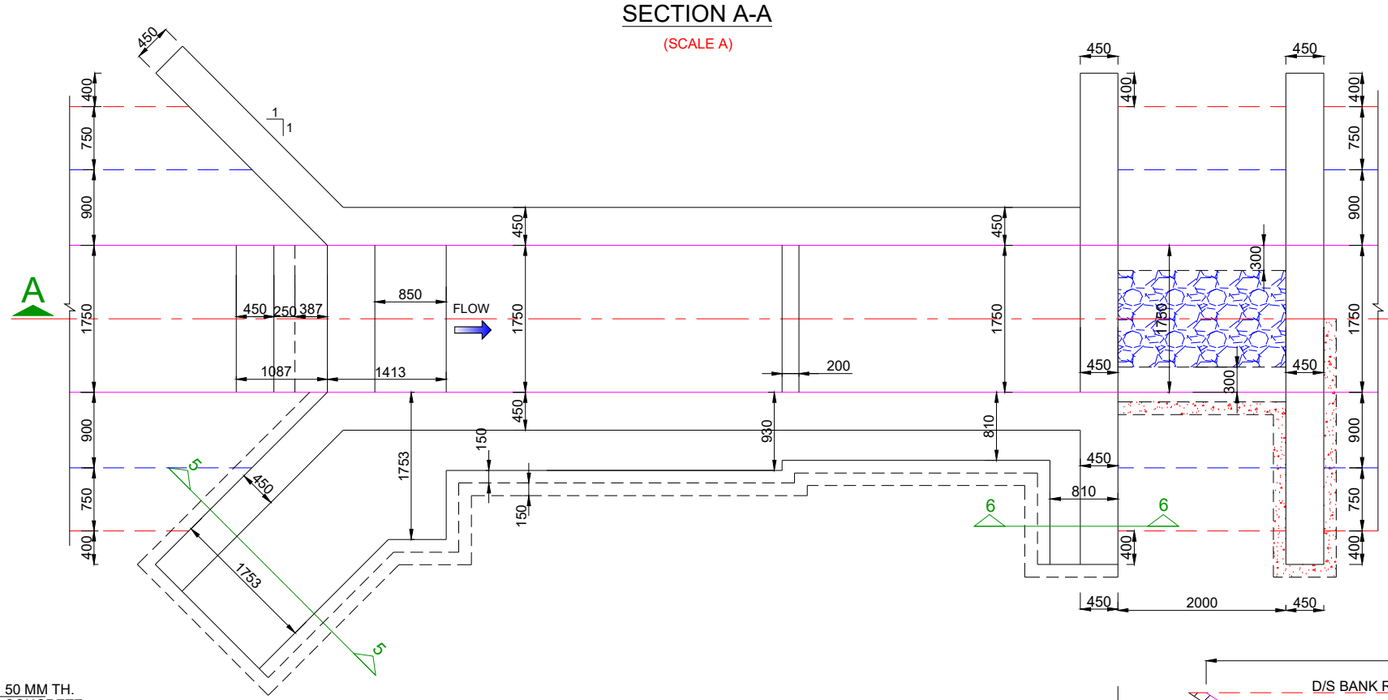
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.430	0.430	CUMEC
VERTICAL DROP	0.304	0.304	METRE
FULL SUPPLY DEPTH	0.600	0.600	METRE
BED WIDTH	1.750	1.750	METRE
BED SLOPE	1 : 4000	1 : 4000	



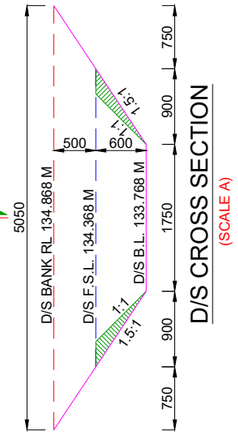
U/S CROSS SECTION

(SCALE A)



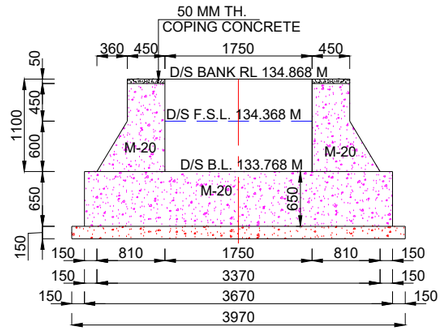
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



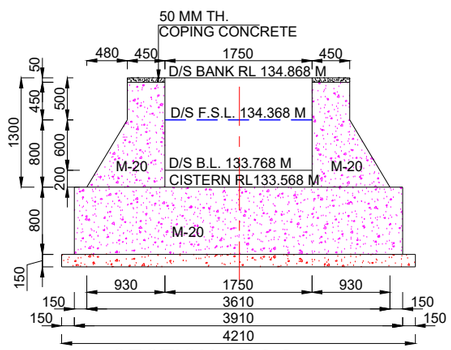
D/S CROSS SECTION

(SCALE A)



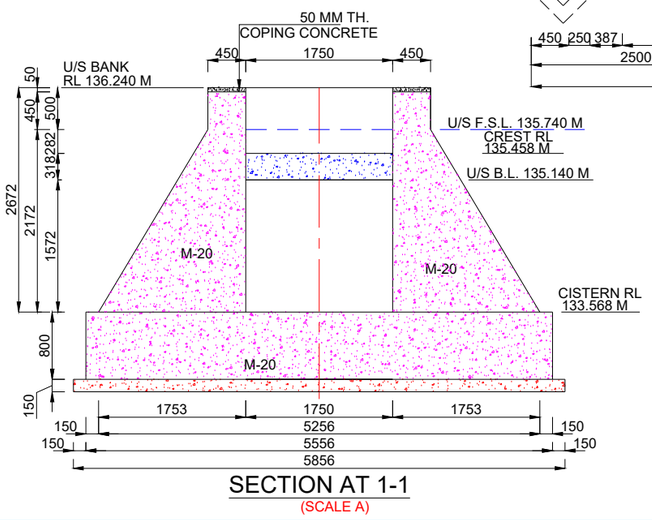
SECTION AT 3-3

(SCALE A)



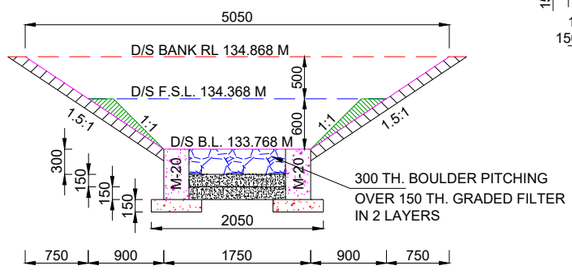
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

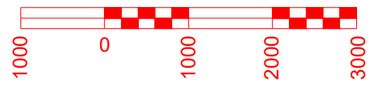
(SCALE A)



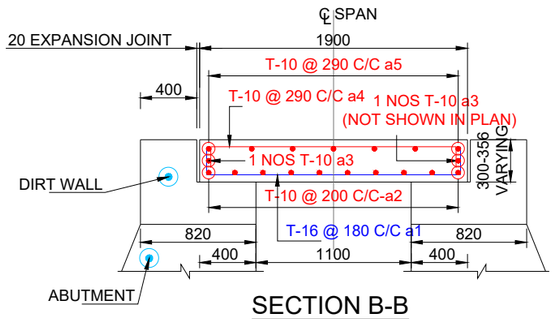
SECTION AT 4-4

(SCALE A)

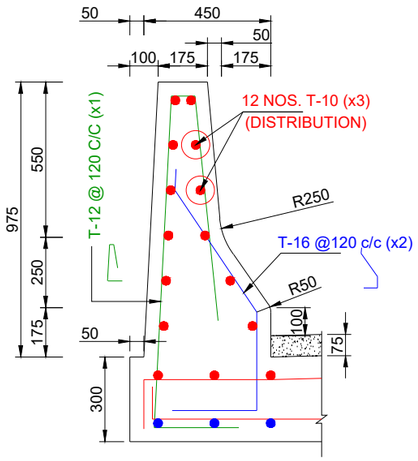
SCALE A:-



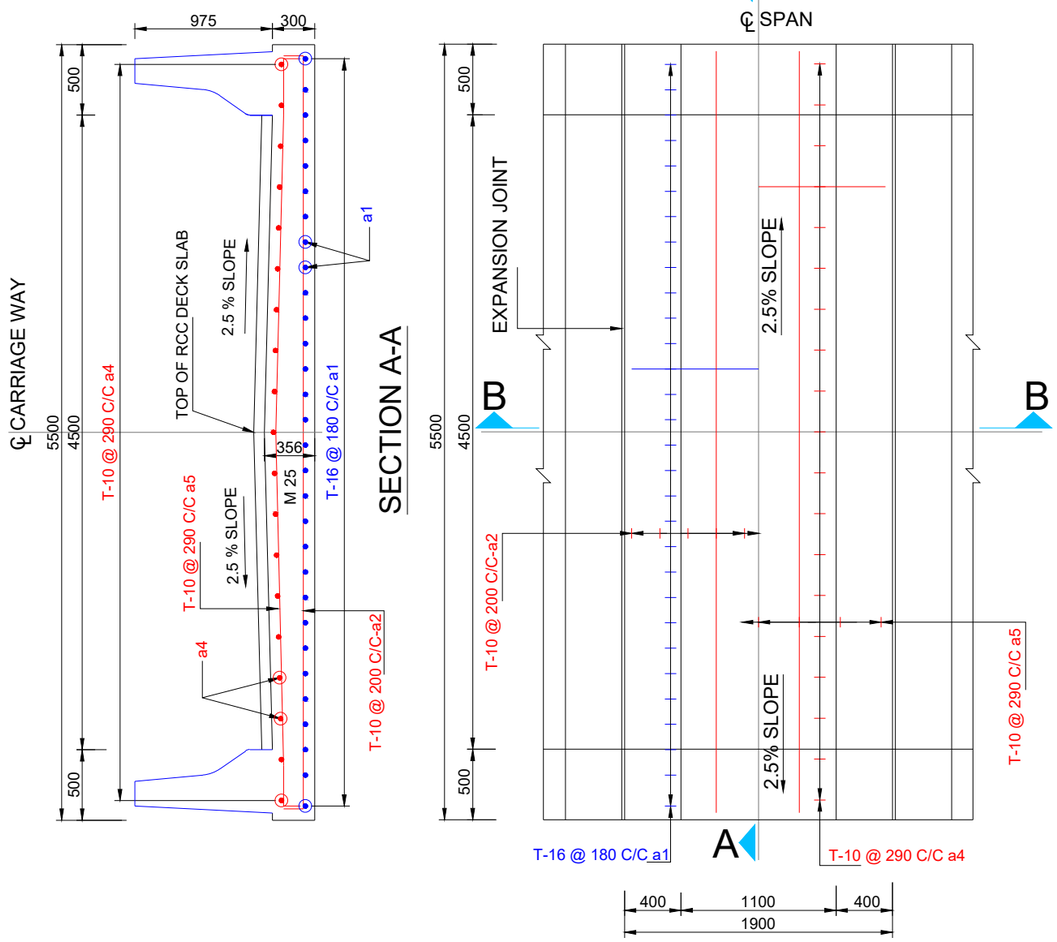
Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.372 M HT. FALL AT KM. 3.850 OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ FALL 1 of 1
	.	. .



SECTION B-B
(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB
(SCALE B)



BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB
(SCALE A)

BAR BENDING SCHEDULE

S. No.	Type of bars	Shape of bars (not to scale) (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	200, R=80, 1800, 200	16	180	31
2	a2	200, R=50, 5400, 200	10	200	10
3	a3	5400	10	-	2
4	a4	1800, 200, R=40, 200	10	290	19
5	a5	200, 450, 2250, 2250, 450, 200	10	290	7
CRASH BARRIER					
1	x1	75, 1176, 950, 300	12	120	16X2
2	x2	75, 540, 350, 300	16	120	16X2
3	x3	1800	10	-	12X2

NOTES:-

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2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25
4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 500) COMFORMING I.S. 1786.
5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.
6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.
7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.
8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.
9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.
10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.
11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.
12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.
13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.
14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.
15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (fy=500N/mm^2) (IS 456 CLAUSE 26.2.1)

TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

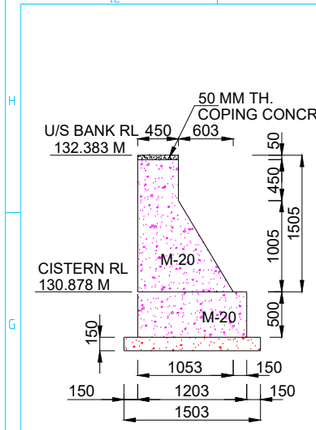
16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = α1. lbnet
WHERE, α1 = 1.0 for p%≤25%
α1 = 1.15 for 25%≤p%≤33%
α1 = 1.4 for 33%≤p%≤50%
17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)
18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.
19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.
20. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.

SCALE A:- 400 0 400 800 1200

SCALE B:- 200 0 200 400 600

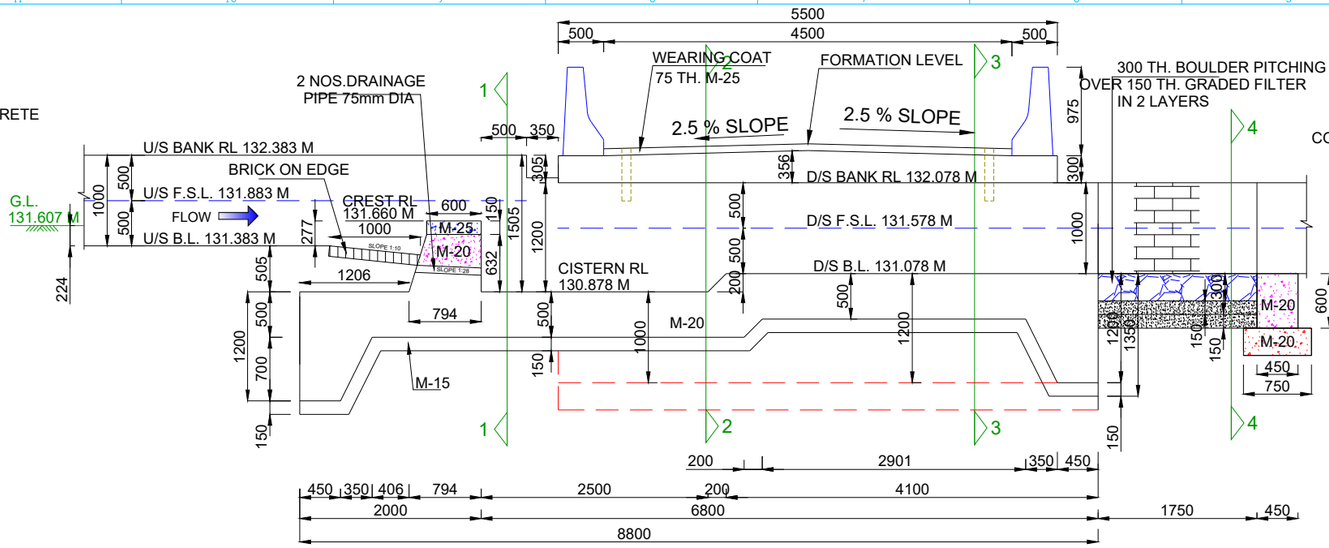
Prepared by :-
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 6.635 OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY. CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ FALL 2 of 2



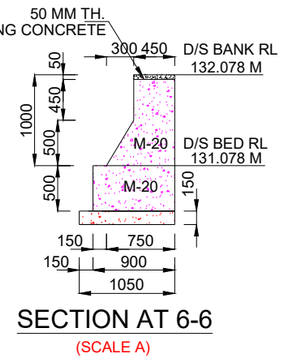
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

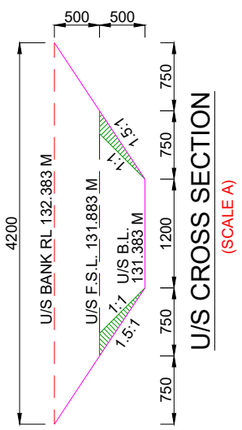
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2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

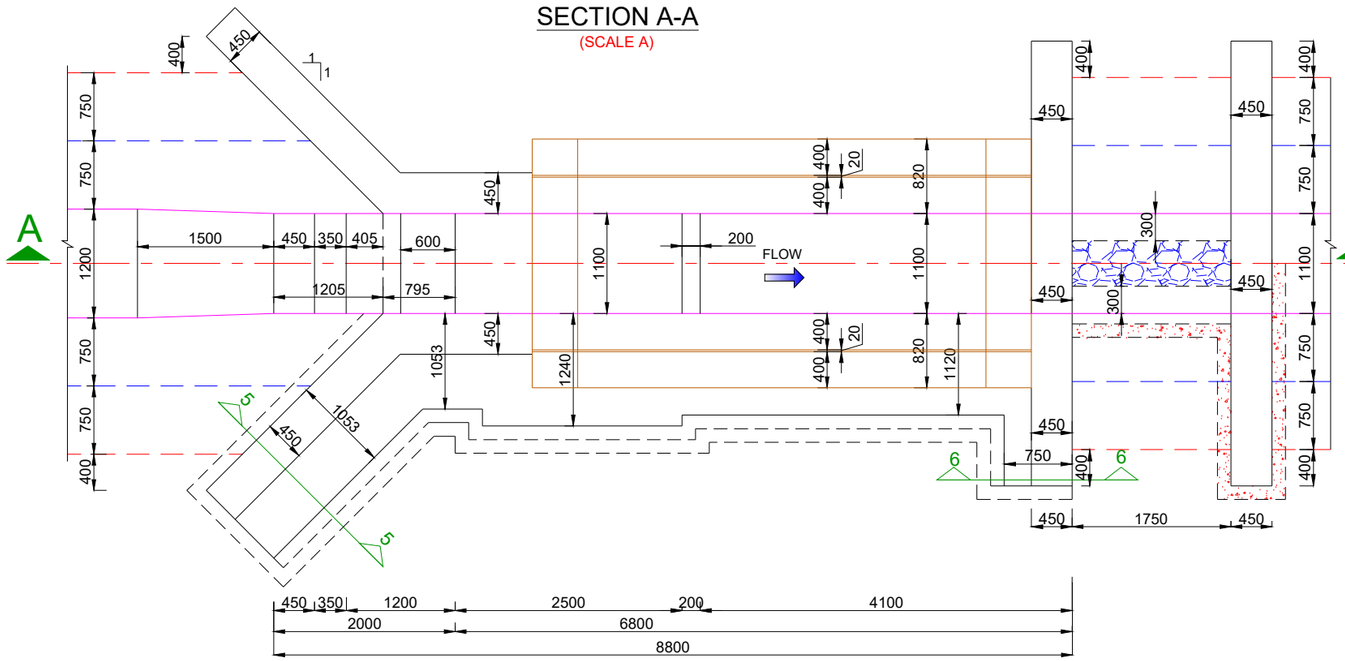
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.200	0.200	CUMEC
VERTICAL DROP	0.305	0.305	METRE
FULL SUPPLY DEPTH	0.500	0.500	METRE
BED WIDTH	1.200	1.100	METRE
BED SLOPE	1 : 4000	1 : 4000	



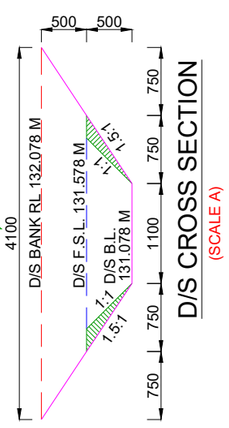
U/S CROSS SECTION

(SCALE A)



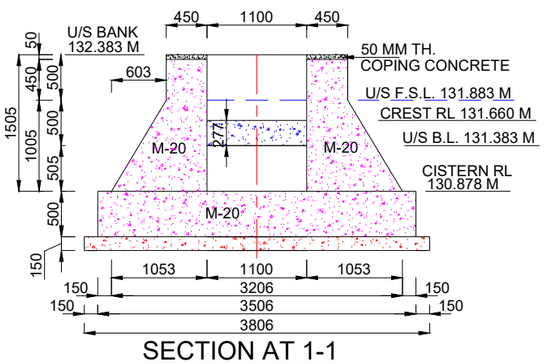
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



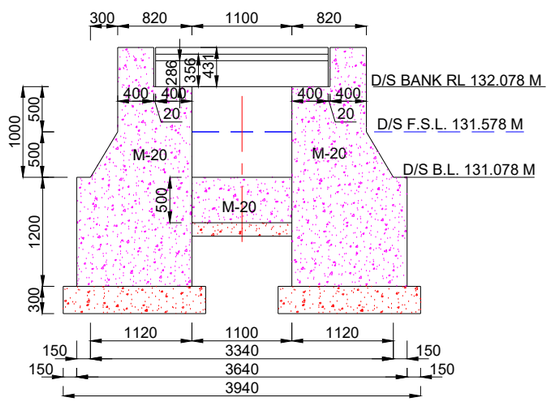
D/S CROSS SECTION

(SCALE A)



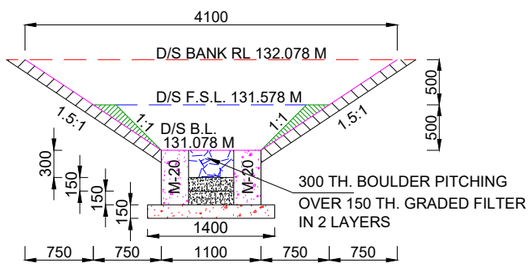
SECTION AT 1-1

(SCALE A)



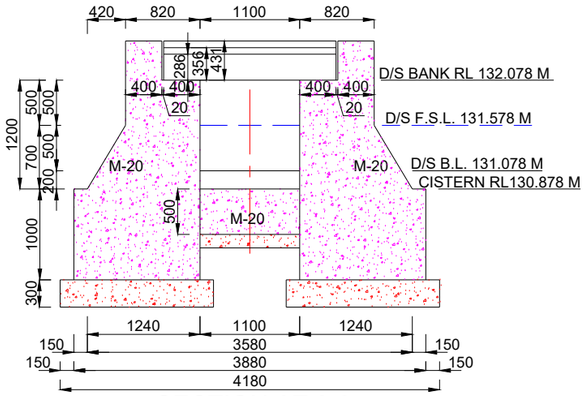
SECTION AT 3-3

(SCALE A)



SECTION AT 4-4

(SCALE A)



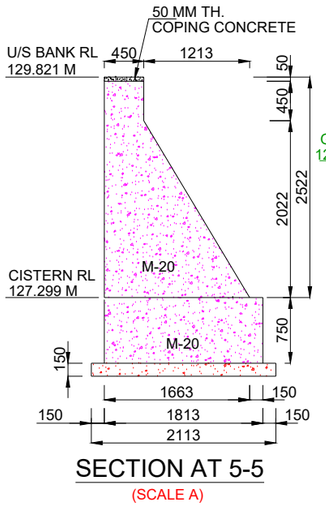
SECTION AT 2-2

(SCALE A)

SCALE A:-

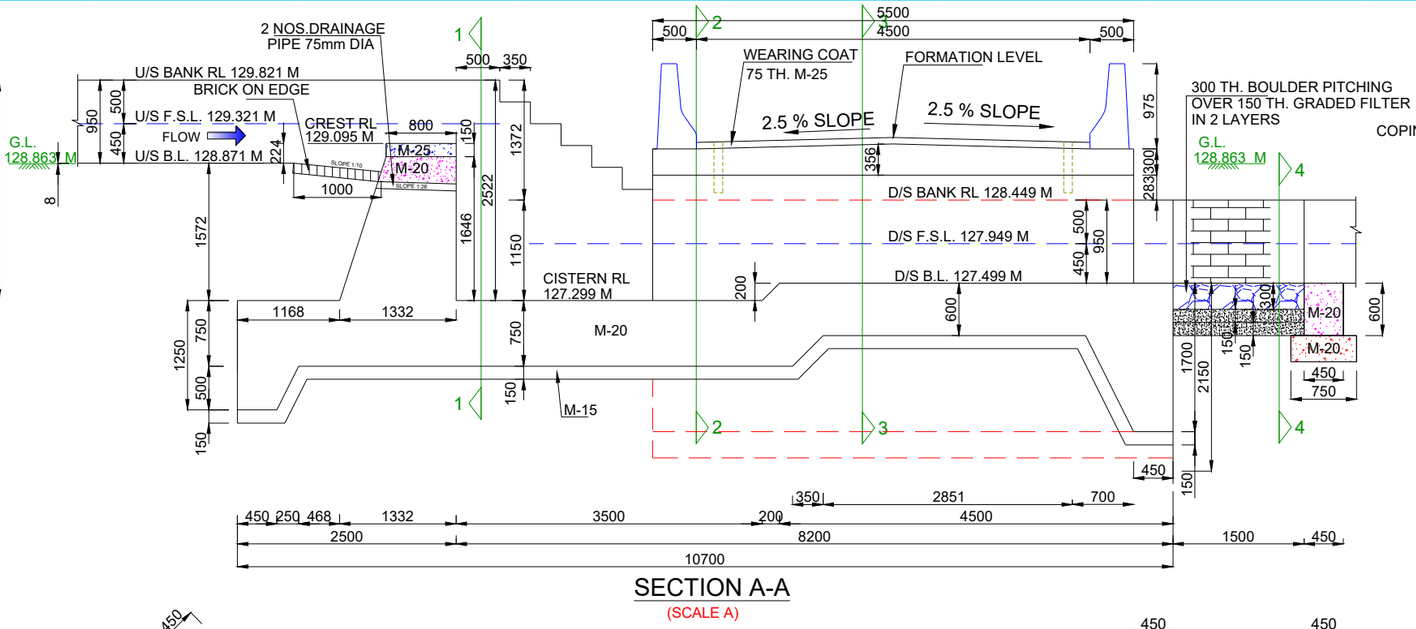
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Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.305 M HT. FALL AT KM. 6.635 OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ FALL 1 of 2
	.	. .



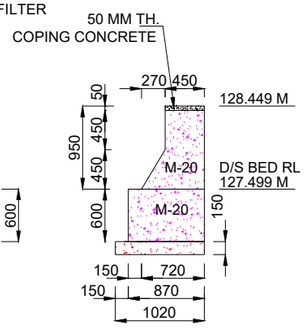
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

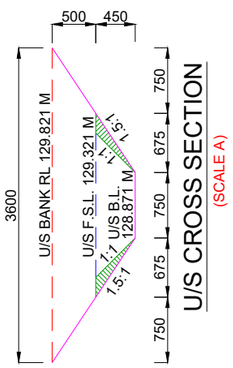
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

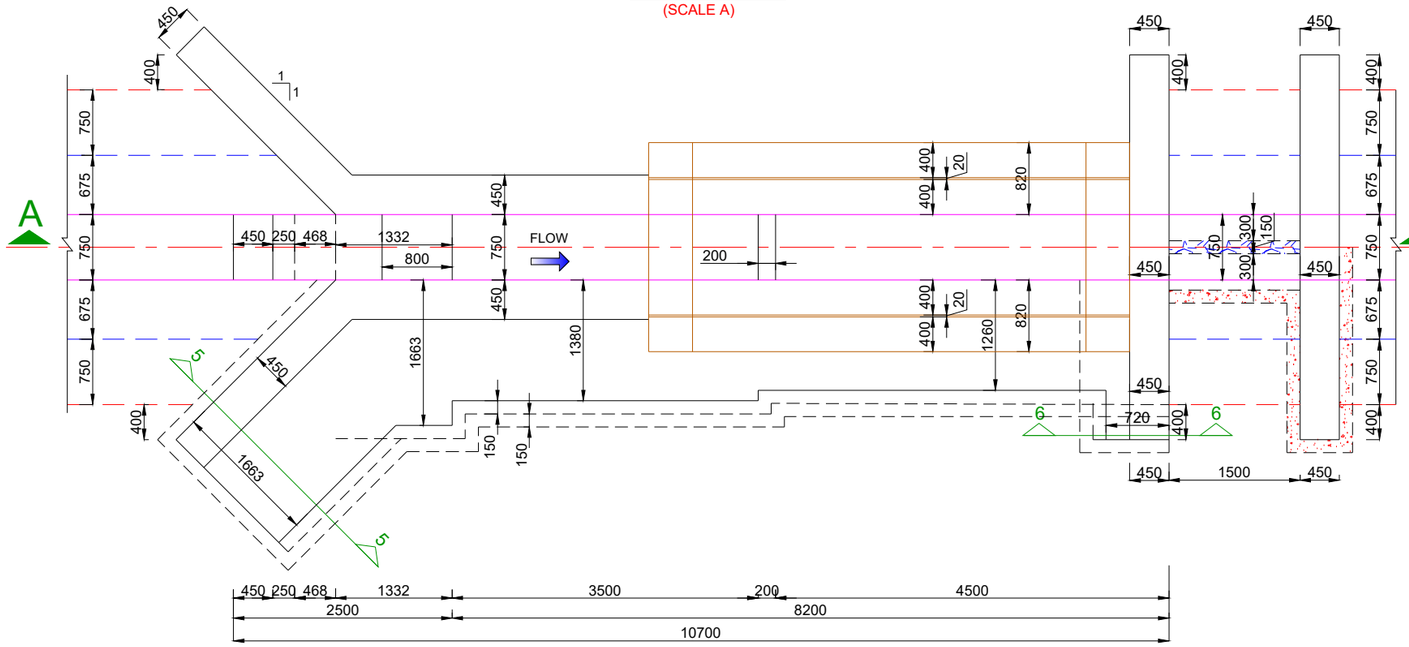
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.130	0.130	CUMEC
VERTICAL DROP	1.372	1.372	METRE
FULL SUPPLY DEPTH	0.450	0.450	METRE
BED WIDTH	0.750	0.750	METRE
BED SLOPE	1 : 4000	1 : 4000	



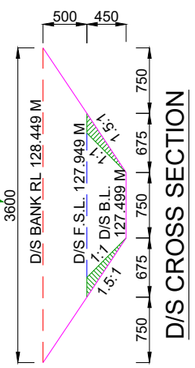
U/S CROSS SECTION

(SCALE A)



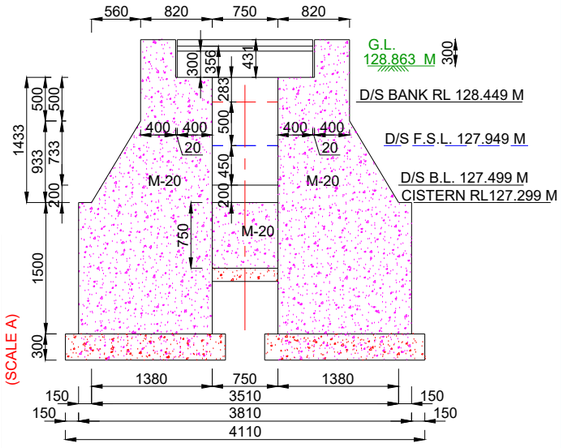
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



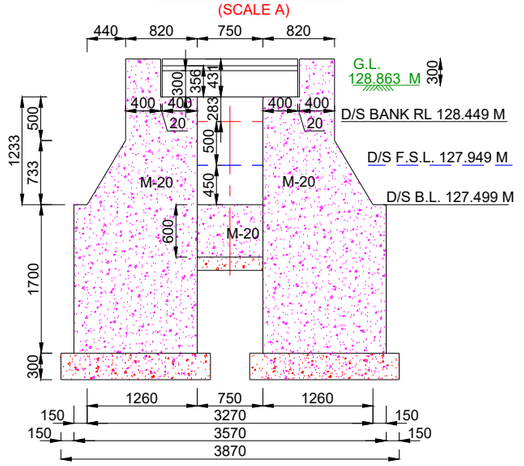
D/S CROSS SECTION

(SCALE A)



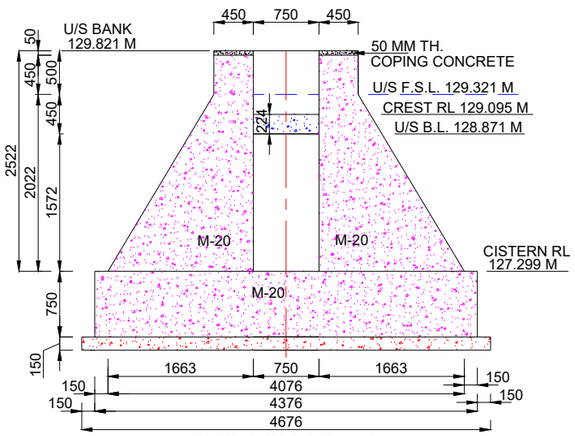
SECTION AT 2-2

(SCALE A)



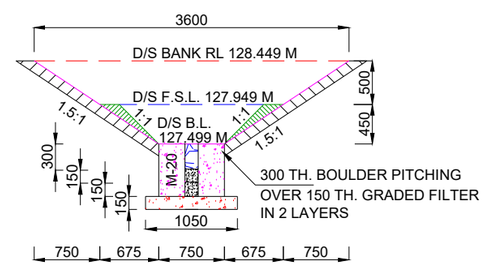
SECTION AT 3-3

(SCALE A)



SECTION AT 1-1

(SCALE A)



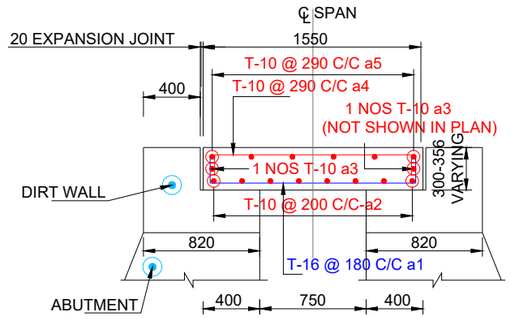
SECTION AT 4-4

(SCALE A)

SCALE A:-

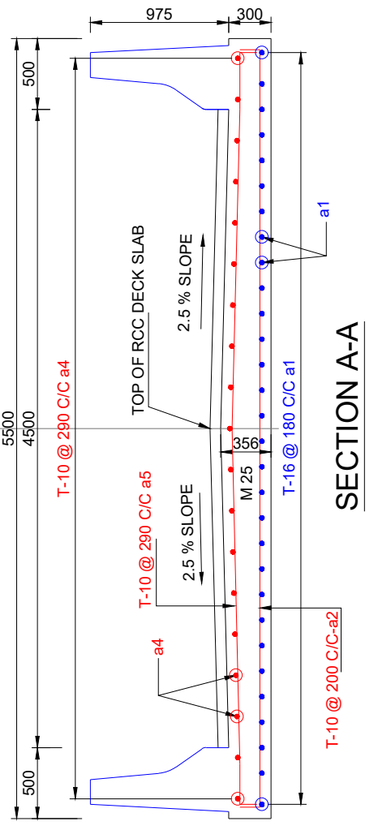
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Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.372 M HT. FALL AT KM. 8.450 OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ FALL 1 of 2
	.	. .

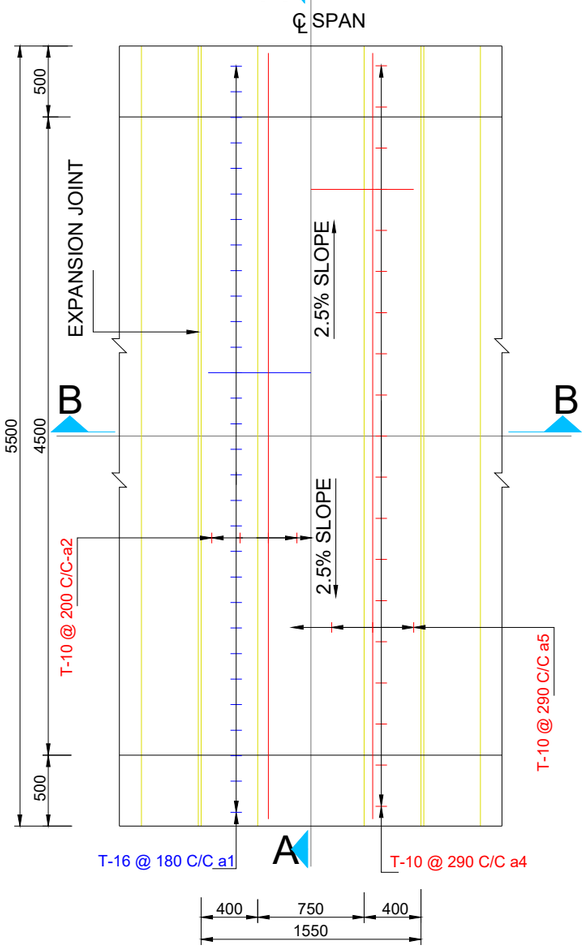


SECTION B-B
(SCALE A)

A

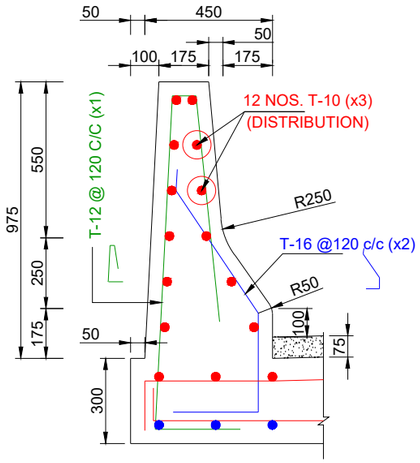


SECTION A-A



BOTTOM REINFORCEMENT TOP REINFORCEMENT

PLAN SHOWING REINFORCEMENT DETAILS OF DECK SLAB
(SCALE A)



REINF. DETAILS OF CRASH BARRIER IN MAIN SLAB
(SCALE B)

BAR BENDING SCHEDULE

S. No.	Type of bars	Shape of bars (not to scale (Dimensions are in millimetres)	Dia of Bars (mm)	Spacing (mm)	Nos. of Bars
SLAB PER SPAN					
1	a1	200, R=80, 1450, 200	16	180	31
2	a2	200, R=50, 5400, 200	10	200	8
3	a3	5400	10	-	2
4	a4	1450, 200, R=40, 200	10	290	19
5	a5	450, 2250, 2250, 450, 200, 200	10	290	6
CRASH BARRIER					
1	x1	75, 1176, 950, 300	12	120	13X2
2	x2	75, 540, 350, 300	16	120	13X2
3	x3	1450	12	-	10X2

NOTES:-

1 ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2 THE DRAWING SHALL NOT BE SCALED OFF ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3 ALL CONCRETE WORK SHALL CONFORM TO IS:456 - 2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,
BRIDGE SLAB & PARAPET M-25
4. ALL REINFORCEMENT BARS SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 500) COMFORMING I.S. 1786.
5. MIN. CLEAR COVER TO ANY REINF. INCLUDING STIRRUPS SHALL BE 40 MM OR UNLESS OTHERWISE SPECIFIED.
6. THE COVER INDICATED IN THIS DRAWINGS IS CLEAR COVER TO MAIN REINFORCEMENT BARS NEAREST TO THE CONCRETE SURFACE INCLUDING STIRRUPS AND BINDERS UNLESS MENTIONED OTHERWISE.
7. BENDING OF REINF. BARS SHALL CONFORM TO I.S. 2502.
8. REINF. BARS SHALL BE CUT AND ADJUSTED TO ACCOMODATE DRAINAGE SPOUT.
9. 75 MM THK. WEARING COAT IN M-25 CC SHALL BE PROVIDED.
10. APPROACH SLAB & APPROACH SLAB SUPPORT SHALL BE DECIDED BY FIELD ENGINEERS ACCORDING TO THE SITE CONDITIONS.
11. TARFELT BEARING SHALL BE PROVIDED UNDER SLAB AT SUPPORT.
12. THE REINFORCEMENT OF CRASH BARRIER SHALL BE INCORPORATED BEFORE CASTING OF THE DECK SLAB.
13. 8 MM DIA BAR @ 200 C/C IN BOTH DIRECTION SHALL BE PROVIDED IN WEARING COAT AT MIDDLE DEPTH.
14. WHEN BARS OF TWO DIFFERENT DIAMETERS ARE TO BE SPLICED, THE LAP LENGTH SHALL BE CALCULATED ON THE BASIS OF DIAMETER OF SMALLER BAR.
15. THE DEVELOPMENT LENGTH OF BARS ARE GIVEN BELOW:

DEVELOPMENT LENGTH FULLY STRESSED DEFORMED BARS (f_y=500N/mm^2) (IS 456 CLAUSE 26.2.1)

TENSION BARS GRADE OF CONCRETE				COMPRESSION BARS GRADE OF CONCRETE			
M15	M20	M25	M30	M15	M20	M25	M30
68.00	56.60	48.50	45.30	54.40	45.30	38.80	36.30
81.60	68.00	58.30	54.40	65.30	54.40	46.60	43.50
108.80	90.60	77.70	72.50	87.00	87.00	62.10	58.00
135.90	113.30	97.10	90.60	108.80	108.80	77.70	72.50
169.90	141.60	121.40	113.30	135.90	135.90	97.10	90.60
217.50	181.30	155.40	145.00	174.00	174.00	124.30	116.00

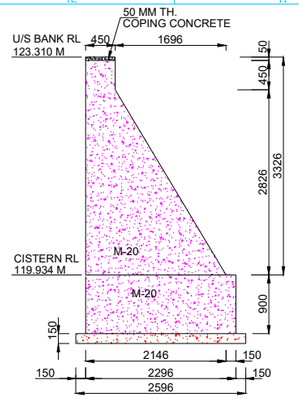
1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

16. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR IS POSSIBLE IN CASE LAPPING OF BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE CALCULATED AS FOLLOW WITH MAXIMUM ALLOWABLE LAPPING (p) OF 50 % ONLY (IRC:112 - 2011) CLAUSE: 15.2.5.1)
LAP LENGTH = α1. lbnet
WHERE, α1 = 1.0 for p%≤25%
α1 = 1.15 for 25%≤p%≤33%
α1 = 1.4 for 33%≤p%≤50%
17. THE STRAIGHT LENGTH OF THE LAP SHOULD NOT BE LESS THAN 15Ø OR 200 MM (WHICH EVER IS MORE)
18. THE LAP LENGTH MUST BE AT LEAST EQUAL TO DEVELOPMENT LENGTH IN NO CASE, THE LAP LENGTH SHOULD BE LESS THAN 30Ø FOR FLEXURAL AND DIRECT TENSION AND 24Ø FOR COMPRESSION.
19. LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF THE C/C DISTANCE OF SPLICES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED.
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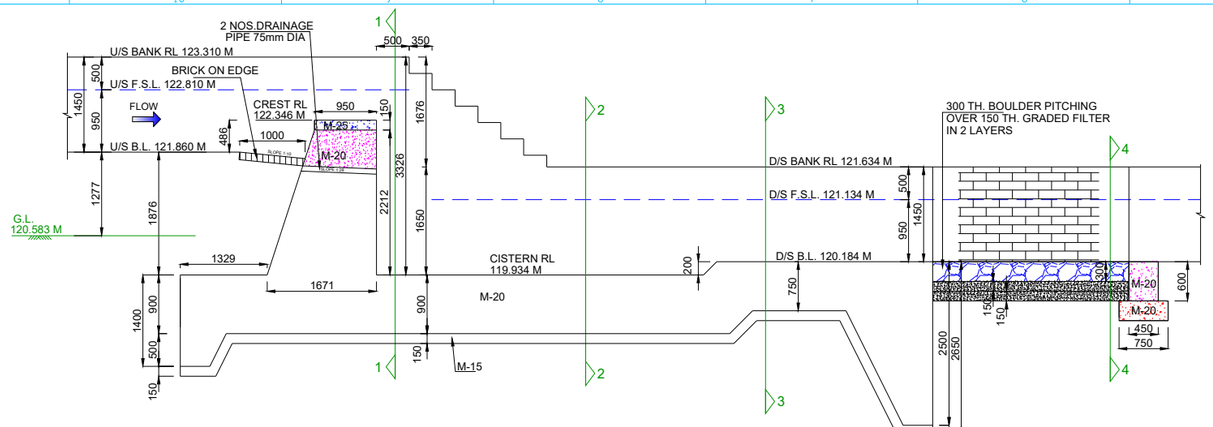
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SCALE B:- 200 0 200 400 600

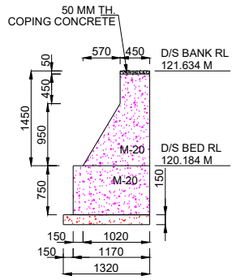
Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 8.450 OF KHAIRA MR. (OFFTAKE FROM RD - 0+345 KM. (R), BASDIHA DY. CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-02/ FALL 2 of 2
	.	. .



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

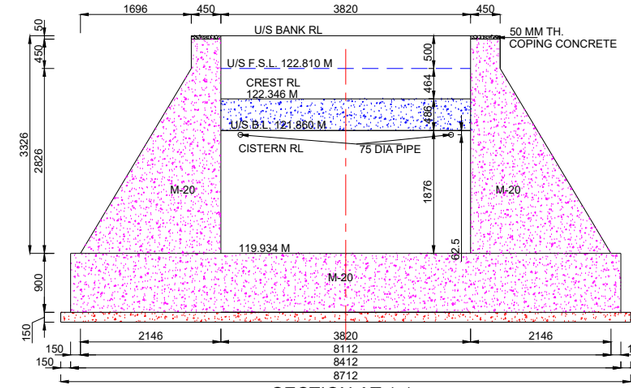
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

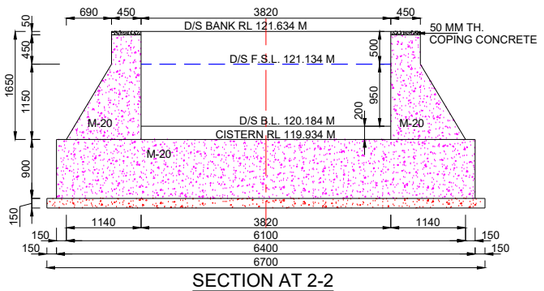
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

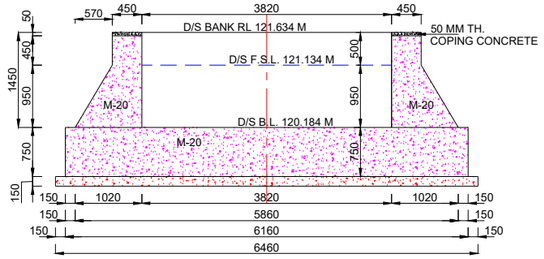
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	2.110	2.110	CUMEC
VERTICAL DROP	1.676	1.676	METRE
FULL SUPPLY DEPTH	0.950	0.950	METRE
BED WIDTH	3.820	3.820	METRE
BED SLOPE	1 : 3500	1 : 3500	



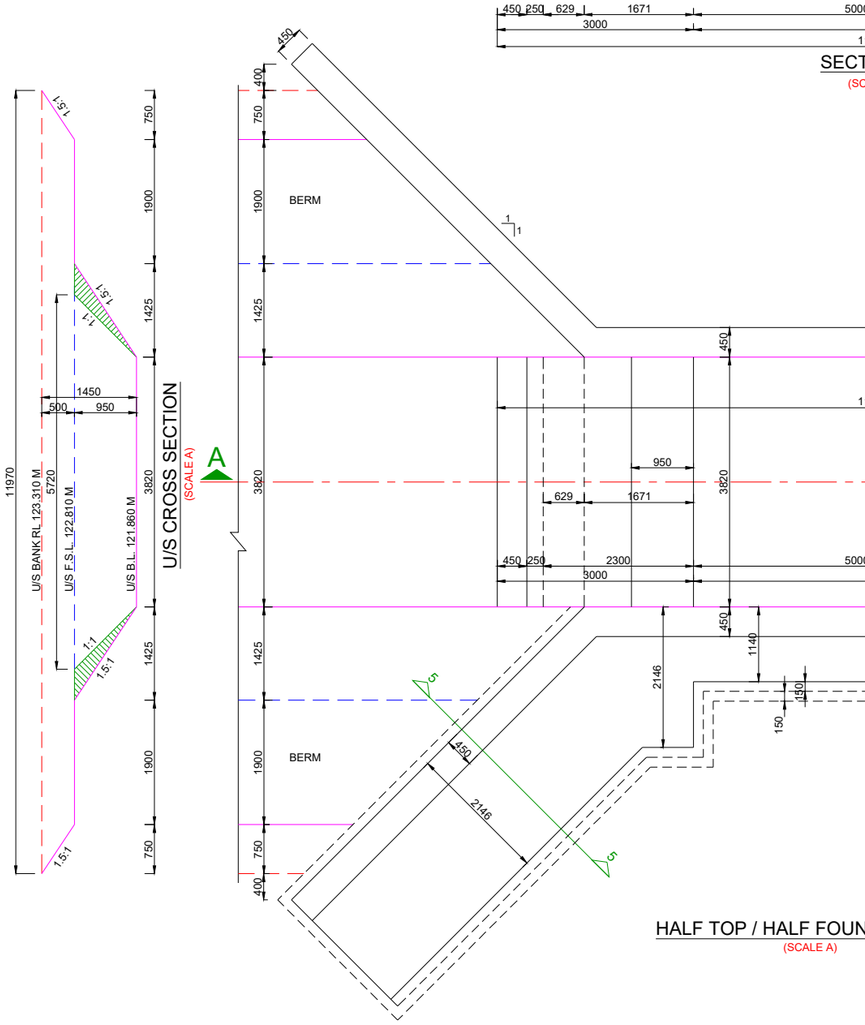
SECTION AT 1-1
(SCALE A)

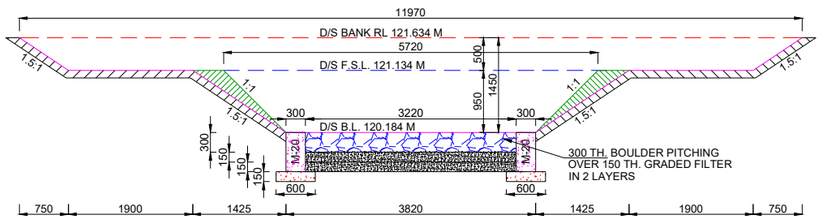


SECTION AT 2-2
(SCALE A)



SECTION AT 3-3
(SCALE A)



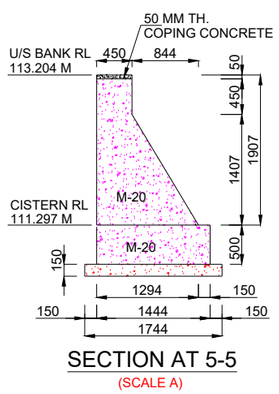


SECTION AT 4-4
(SCALE A)

SCALE A:-

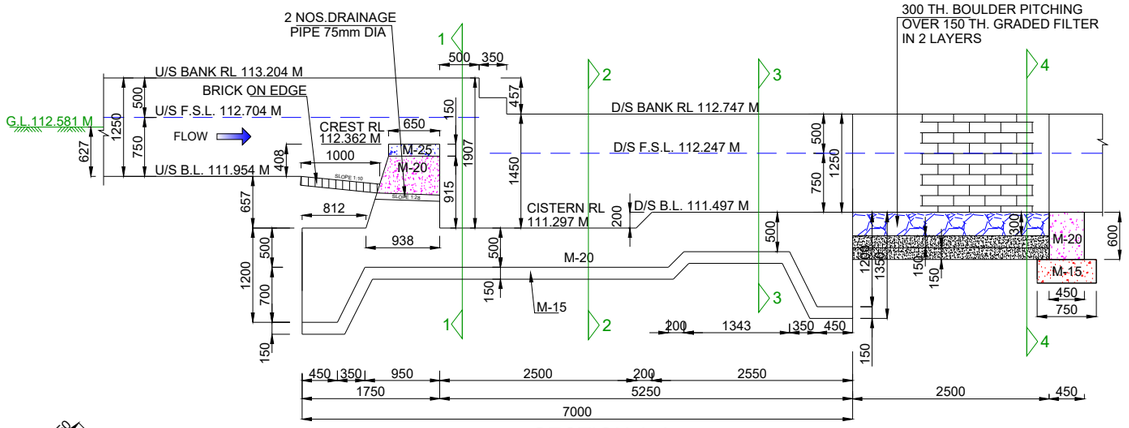
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.676 M HT. FALL AT KM. 2.600 OF PRITAMPURA SUB-DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ FALL 1 of 1
	.	. .



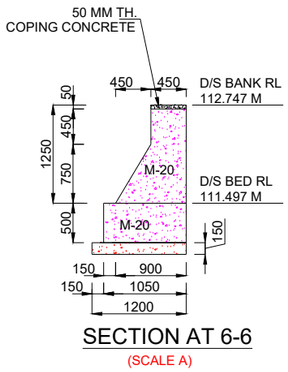
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

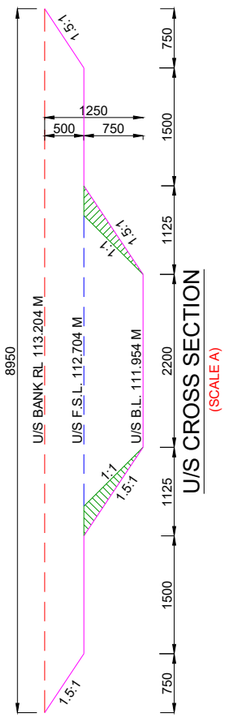
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

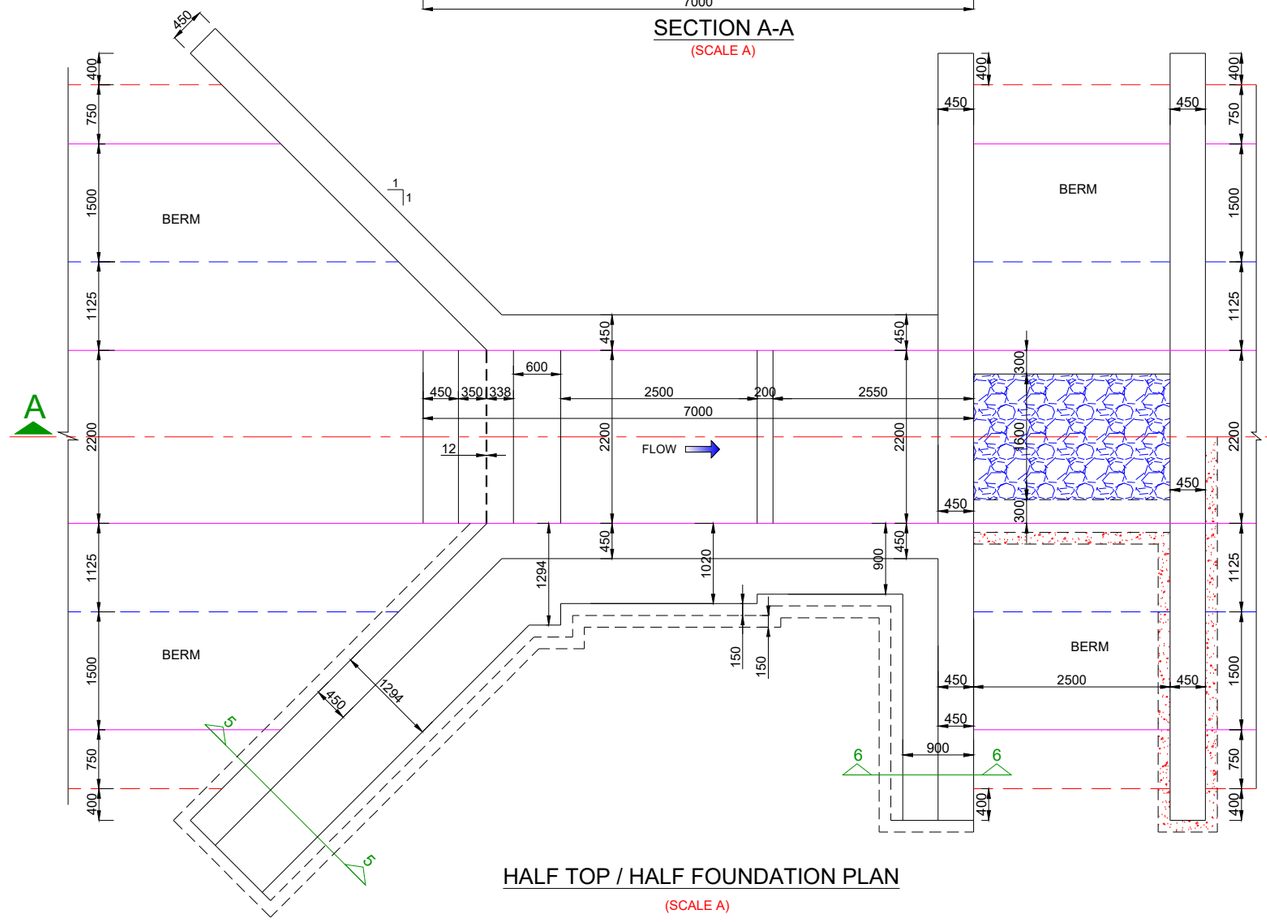
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.810	0.810	CUMEC
VERTICAL DROP	0.457	0.457	METRE
FULL SUPPLY DEPTH	0.750	0.750	METRE
BED WIDTH	2.200	2.200	METRE
BED SLOPE	1 : 3500	1 : 3500	



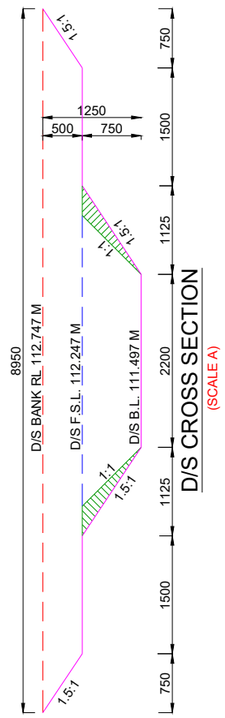
U/S CROSS SECTION

(SCALE A)



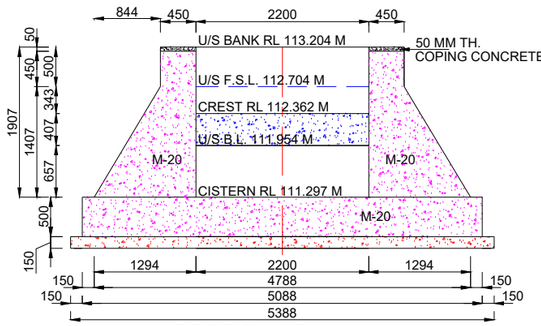
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



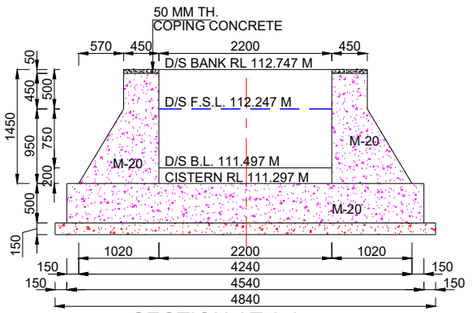
D/S CROSS SECTION

(SCALE A)



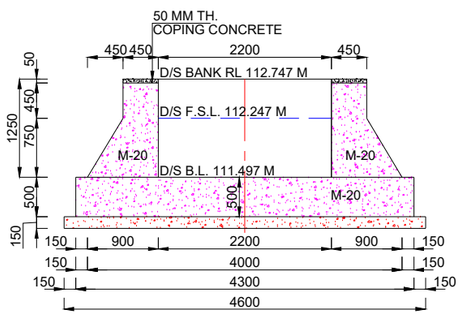
SECTION AT 1-1

(SCALE A)



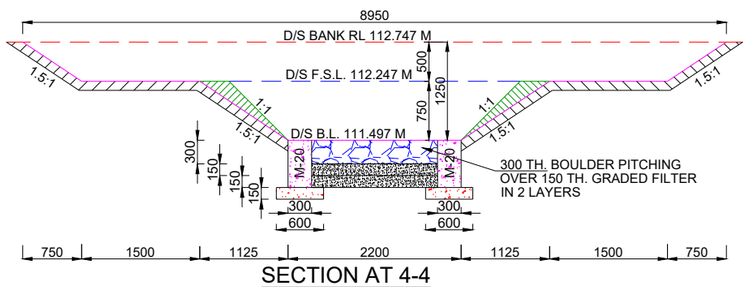
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

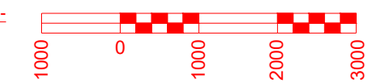
(SCALE A)



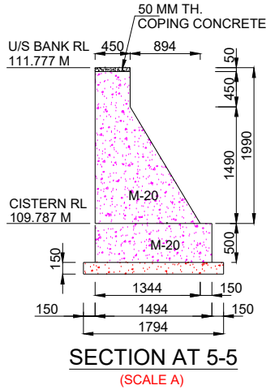
SECTION AT 4-4

(SCALE A)

SCALE A:-

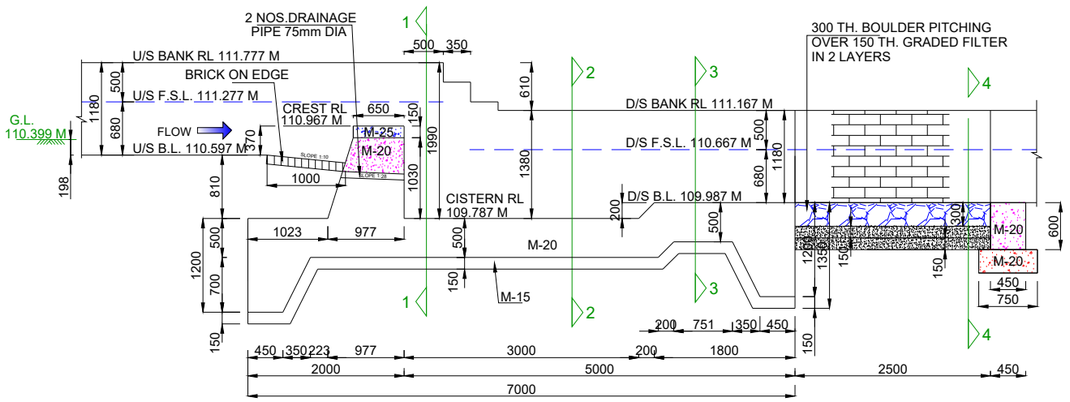


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.457 M HT. FALL AT KM. 10.600 OF PRITAMPURA SUB-DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ FALL 1 of 1
	.	. .



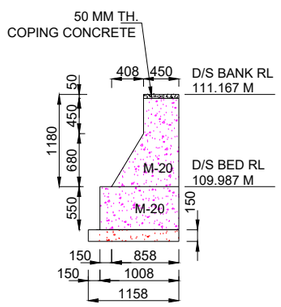
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

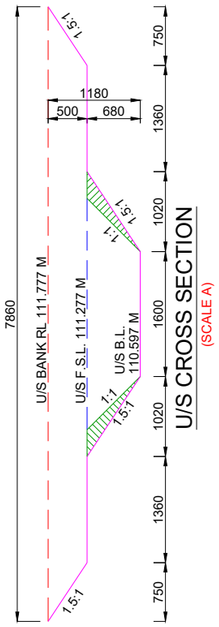
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

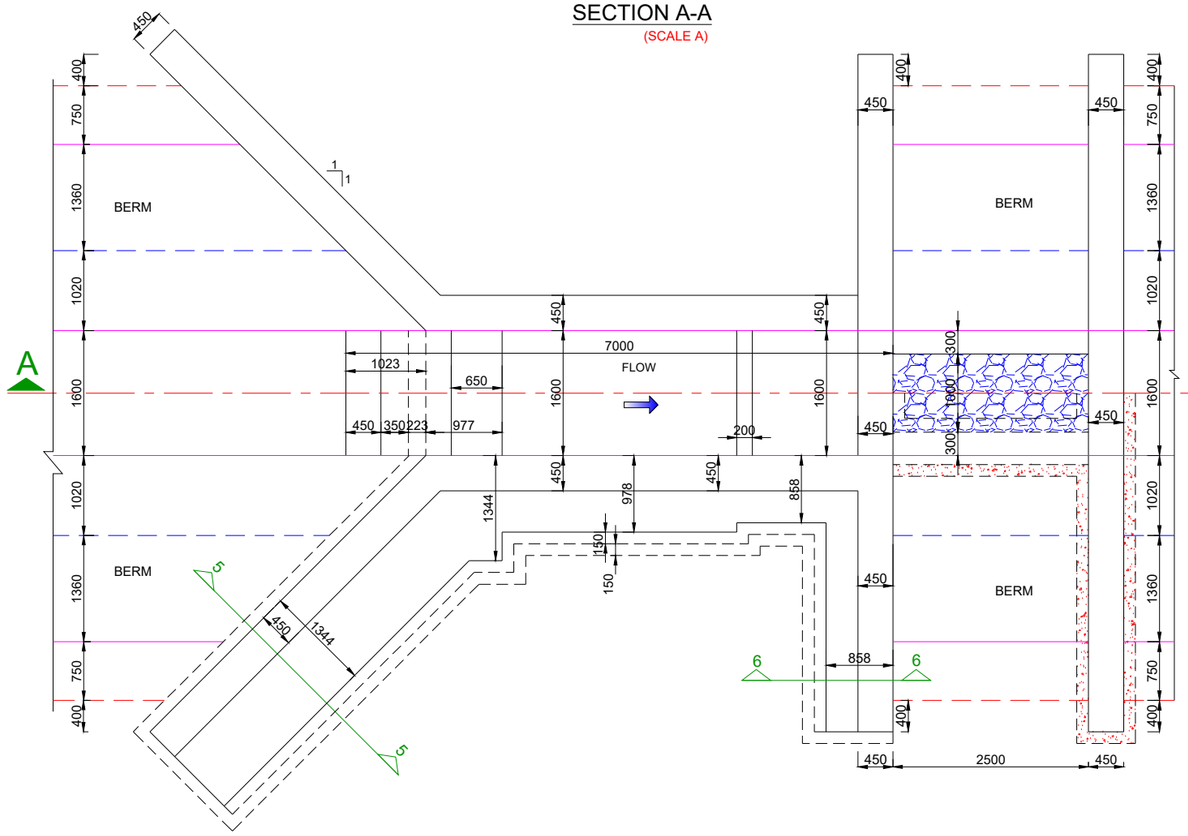
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.500	0.500	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.680	0.680	METRE
BED WIDTH	1.600	1.600	METRE
BED SLOPE	1 : 3500	1 : 3500	



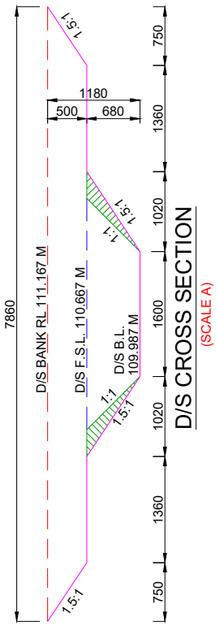
U/S CROSS SECTION

(SCALE A)



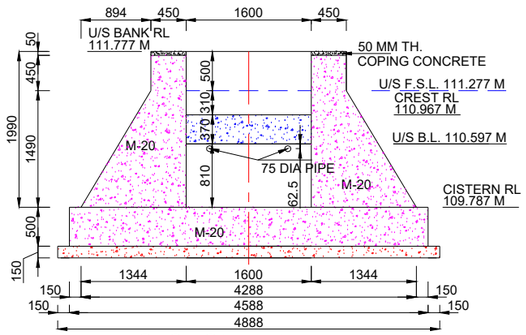
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



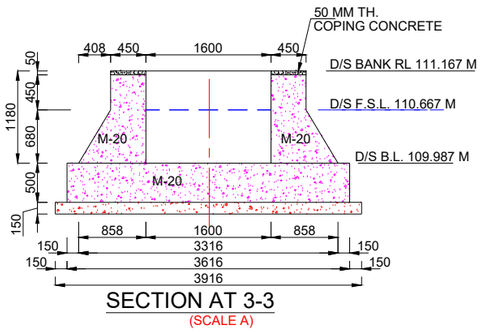
D/S CROSS SECTION

(SCALE A)



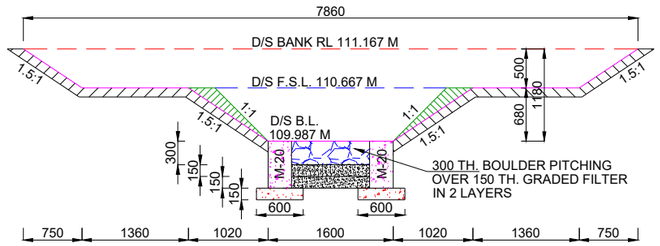
SECTION AT 1-1

(SCALE A)



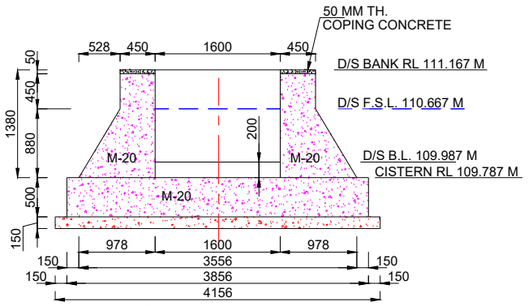
SECTION AT 3-3

(SCALE A)



SECTION AT 4-4

(SCALE A)



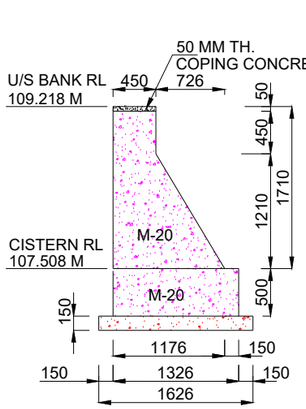
SECTION AT 2-2

(SCALE A)

SCALE A:-

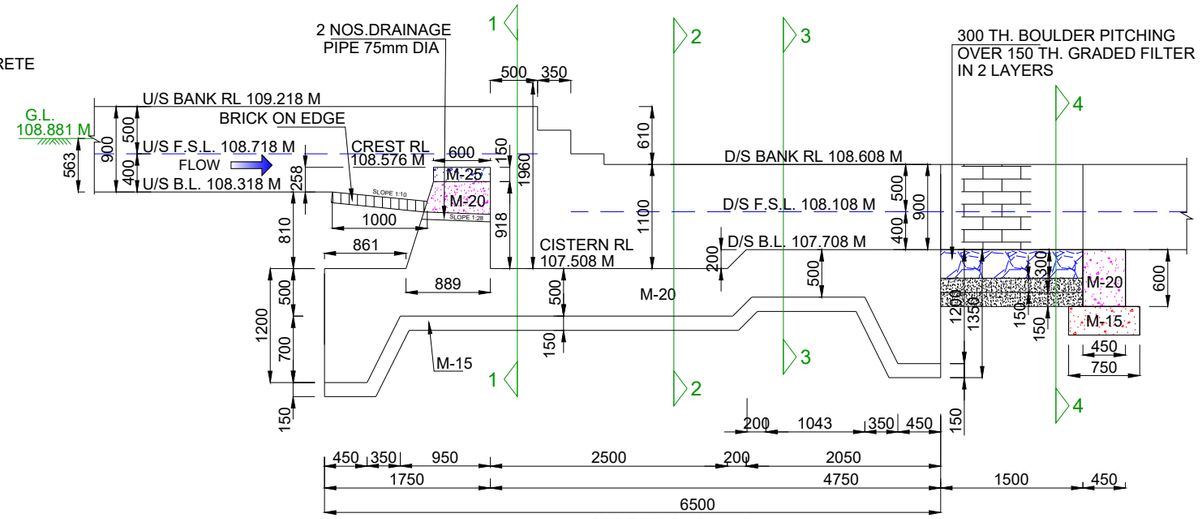


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 12.150 OF PRITAMPURA SUB-DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ FALL 1 of 1
	.	. .



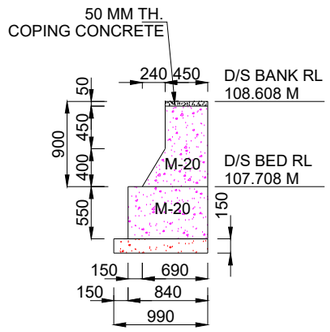
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

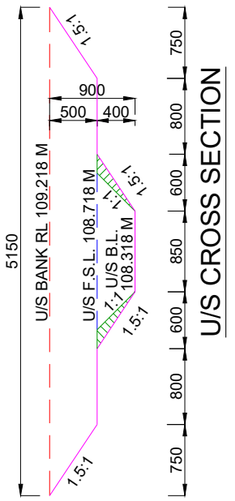
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

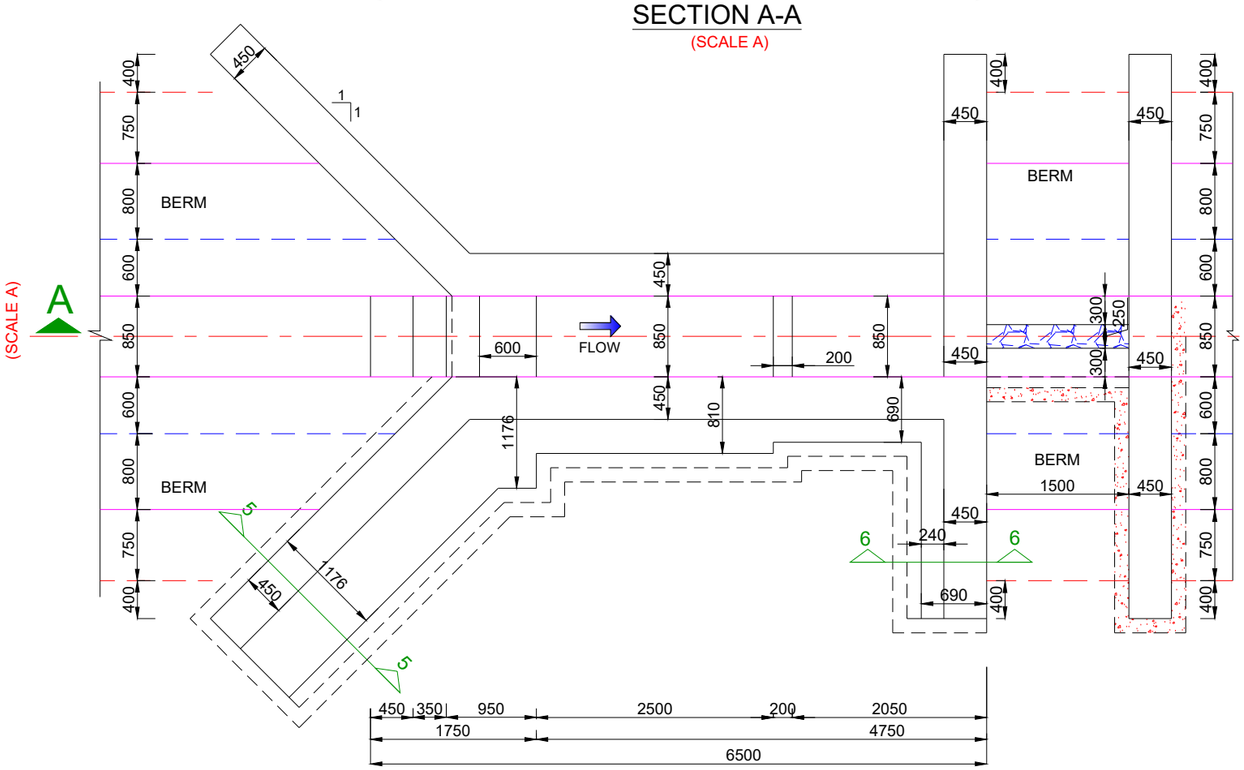
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.100	0.100	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.400	0.400	METRE
BED WIDTH	0.850	0.850	METRE
BED SLOPE	1 : 3400	1 : 3400	



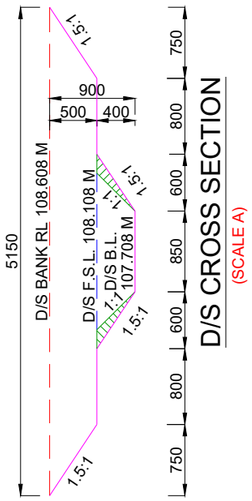
U/S CROSS SECTION

(SCALE A)



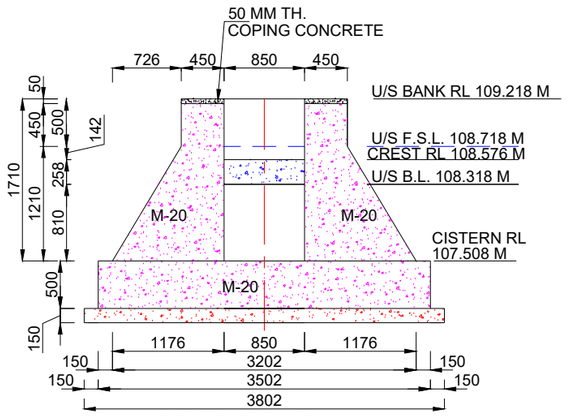
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



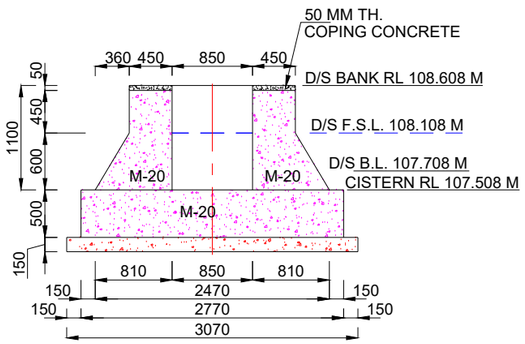
D/S CROSS SECTION

(SCALE A)



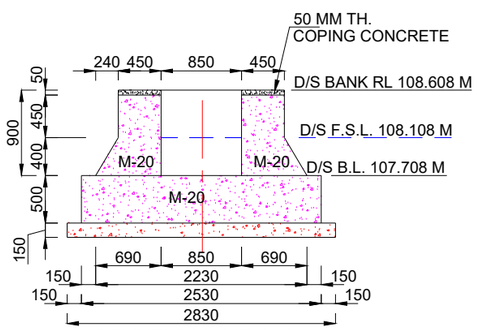
SECTION AT 1-1

(SCALE A)



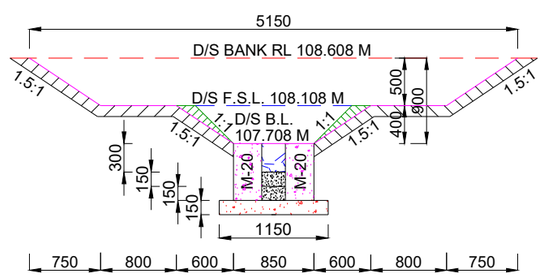
SECTION AT 3-3

(SCALE A)



SECTION AT 3-3

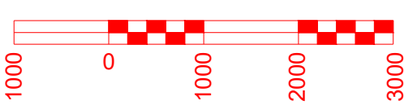
(SCALE A)



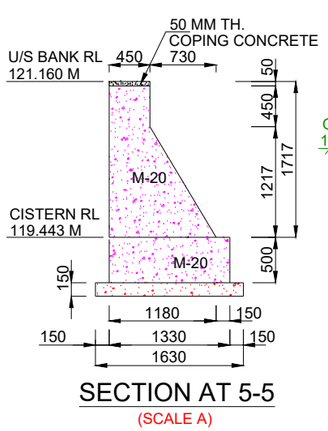
SECTION AT 4-4

(SCALE A)

SCALE A:-

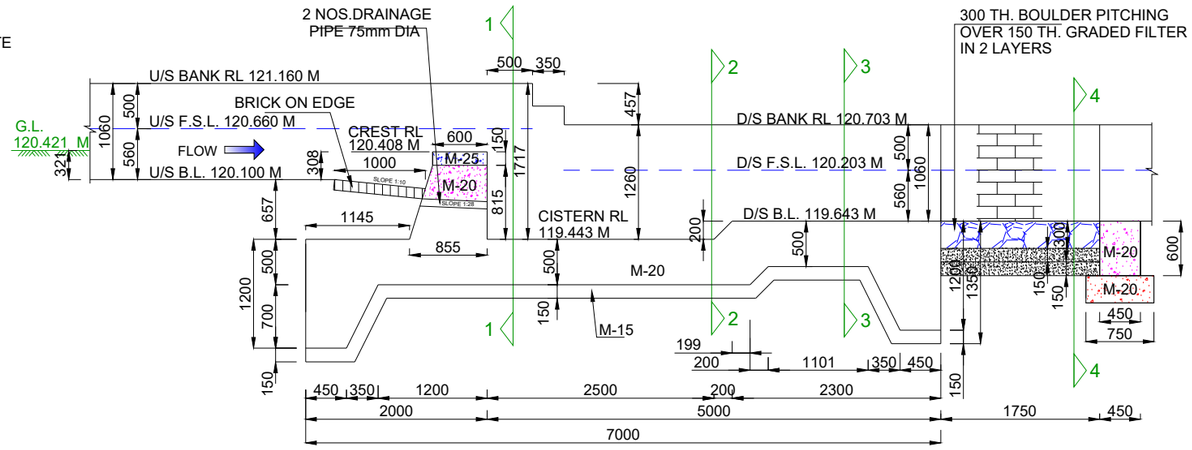


Prepared by :-	
WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 13.700 OF PRITAMPURA SUB-DY. (OFFTAKE FROM RD-10+060 KM.(R), BASDIHA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04/ FALL 1 of 1
.	. .



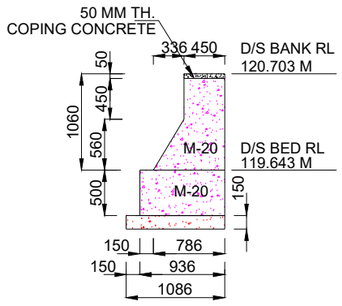
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

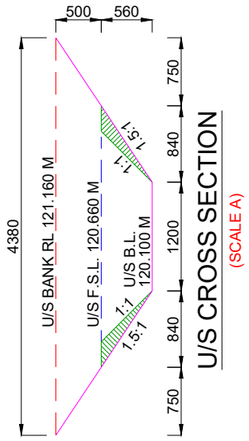
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

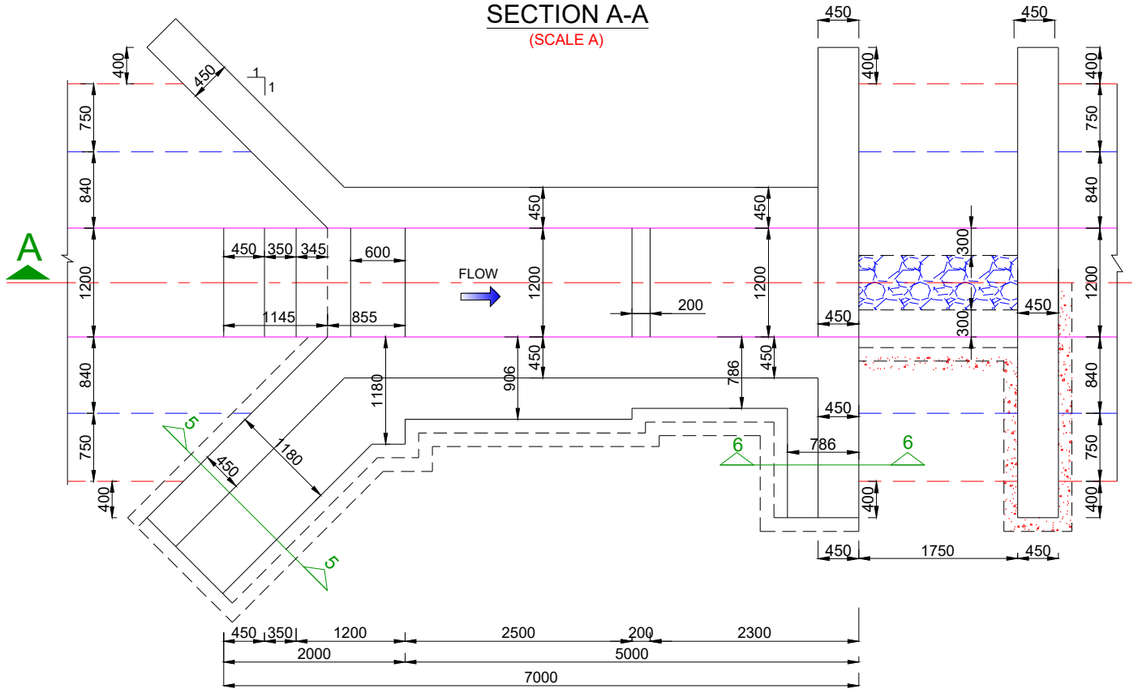
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.270	0.270	CUMEC
VERTICAL DROP	0.457	0.457	METRE
FULL SUPPLY DEPTH	0.560	0.560	METRE
BED WIDTH	1.200	1.200	METRE
BED SLOPE	1 : 3500	1 : 3500	



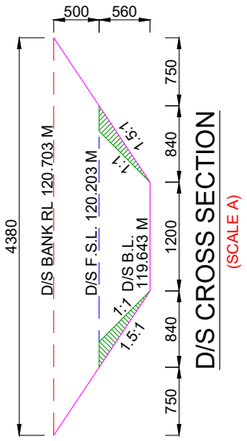
U/S CROSS SECTION

(SCALE A)



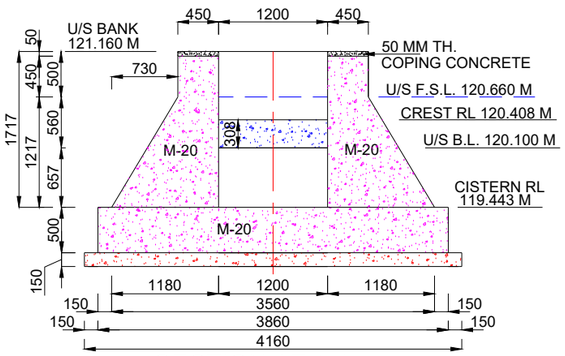
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



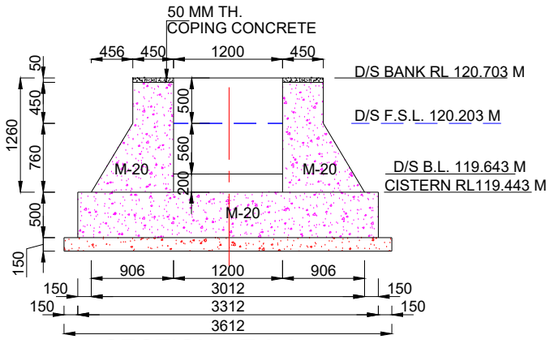
D/S CROSS SECTION

(SCALE A)



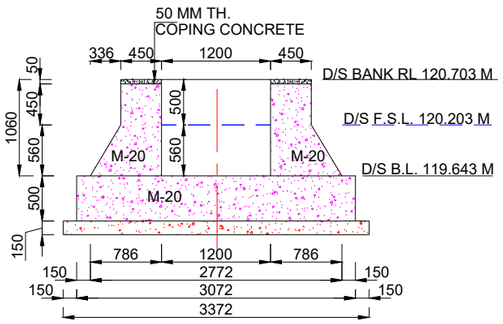
SECTION AT 1-1

(SCALE A)



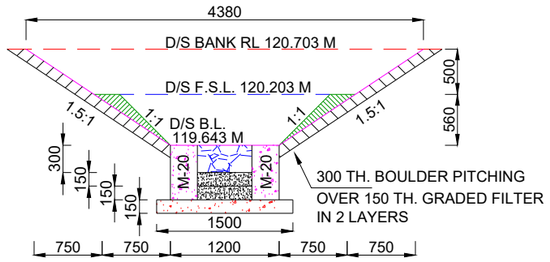
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

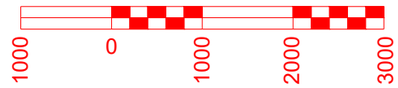
(SCALE A)



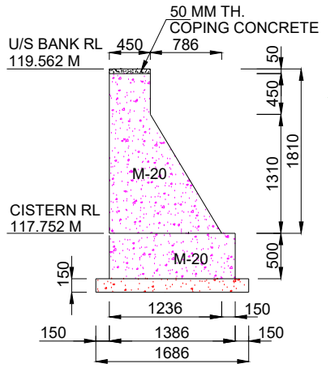
SECTION AT 4-4

(SCALE A)

SCALE A:-

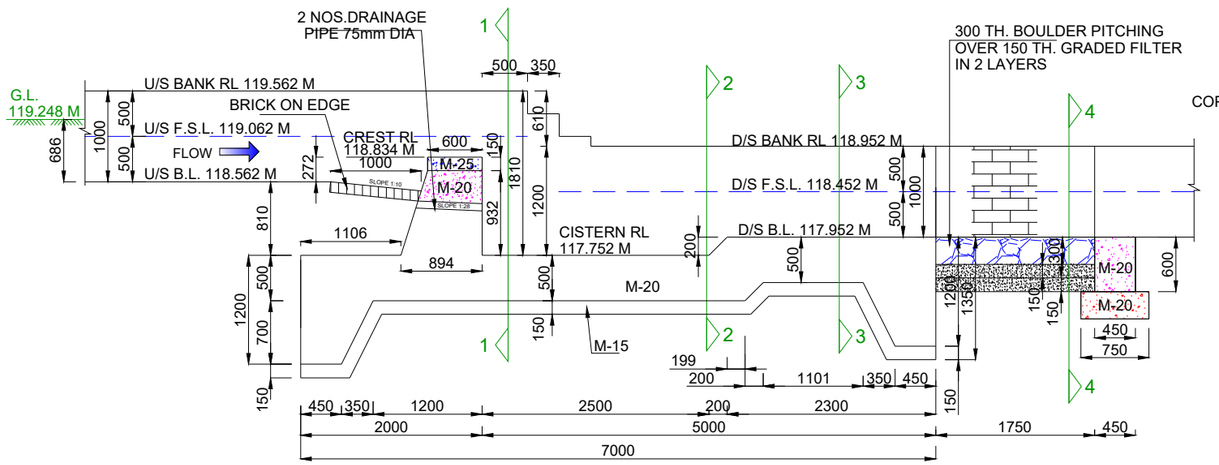


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.457 M HT. FALL AT KM. 0.000 OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ FALL 1 of 1
	.	. .



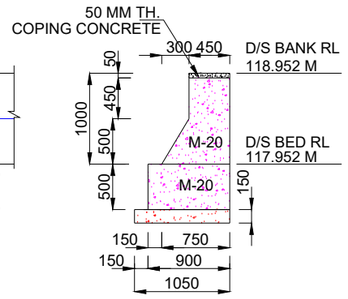
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

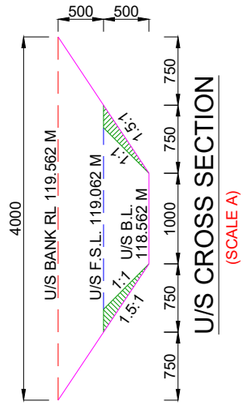
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

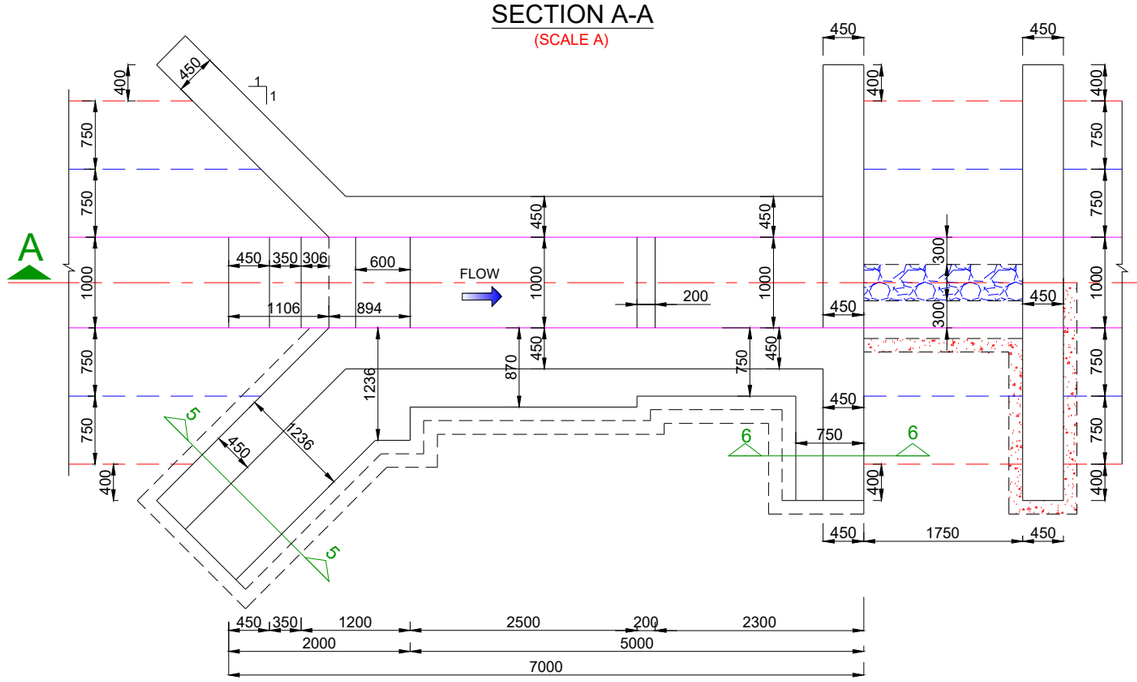
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.190	0.190	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.500	0.500	METRE
BED WIDTH	1.000	1.000	METRE
BED SLOPE	1 : 3500	1 : 3500	



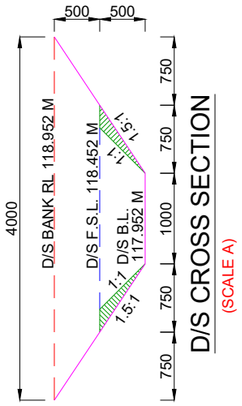
U/S CROSS SECTION

(SCALE A)



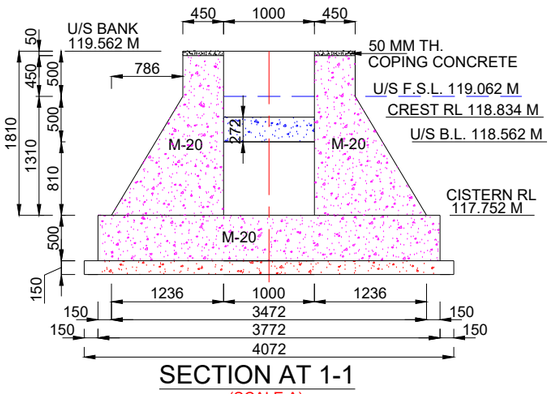
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



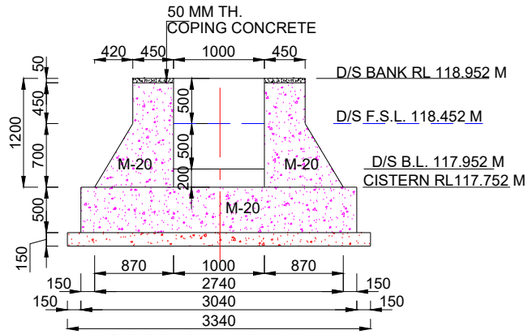
D/S CROSS SECTION

(SCALE A)



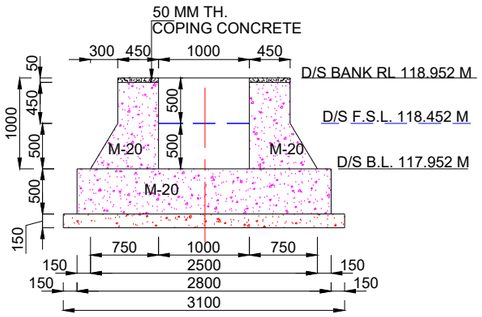
SECTION AT 1-1

(SCALE A)



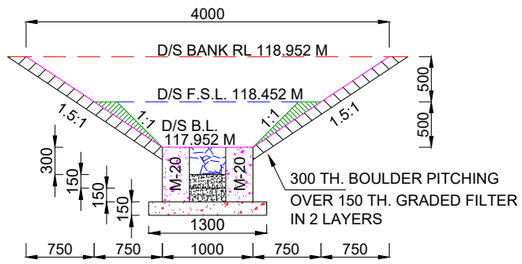
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

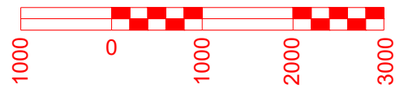
(SCALE A)



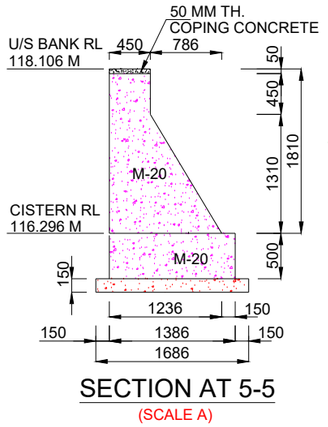
SECTION AT 4-4

(SCALE A)

SCALE A:-

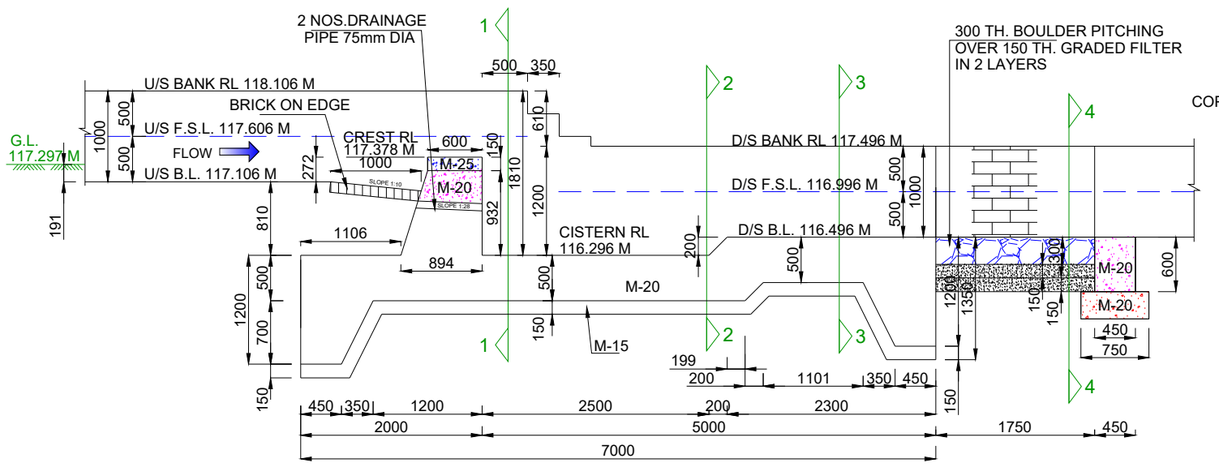


Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 1.650 OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ FALL 1 of 1



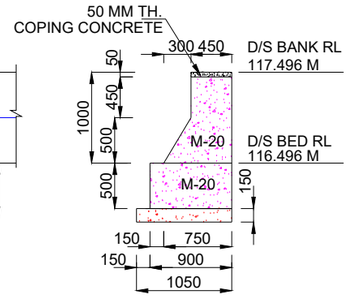
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

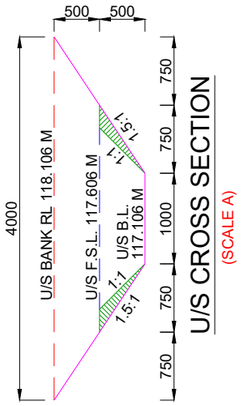
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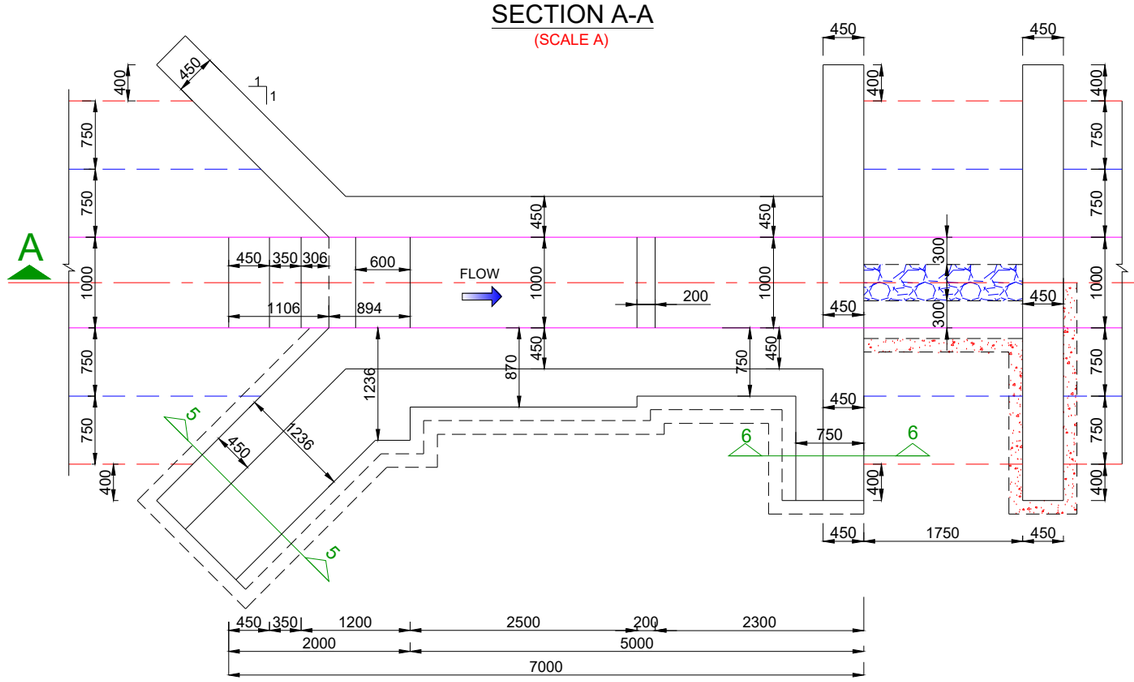
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.190	0.190	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.500	0.500	METRE
BED WIDTH	1.000	1.000	METRE
BED SLOPE	1 : 3500	1 : 3500	



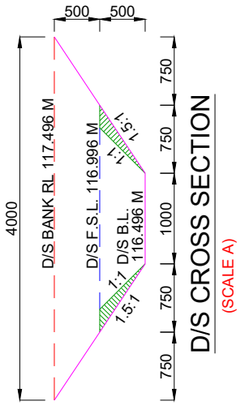
U/S CROSS SECTION

(SCALE A)



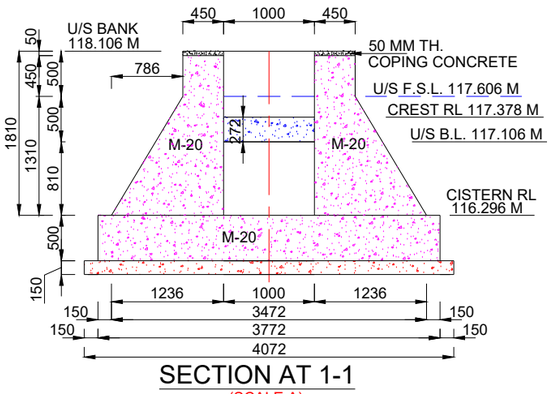
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



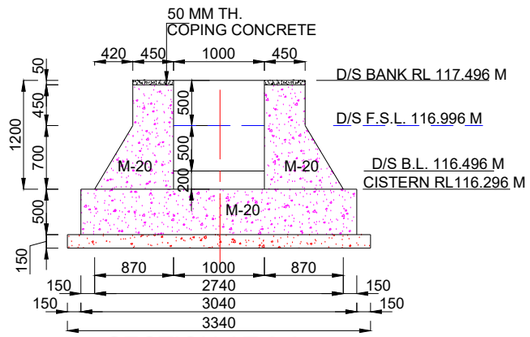
D/S CROSS SECTION

(SCALE A)



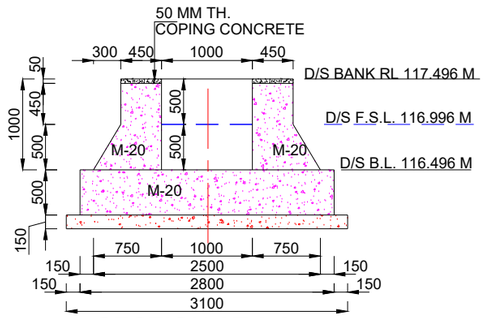
SECTION AT 1-1

(SCALE A)



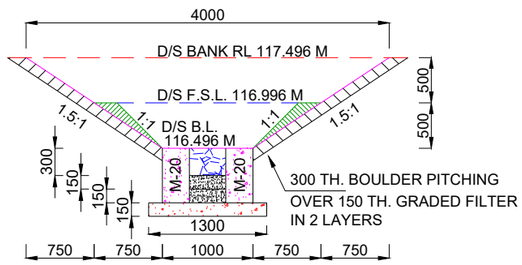
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

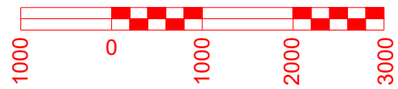
(SCALE A)



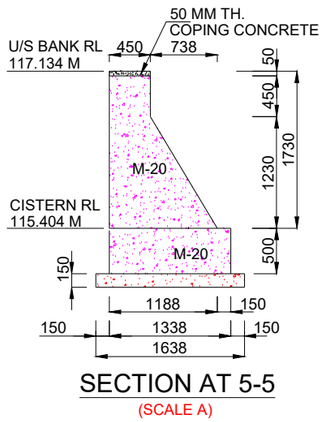
SECTION AT 4-4

(SCALE A)

SCALE A:-

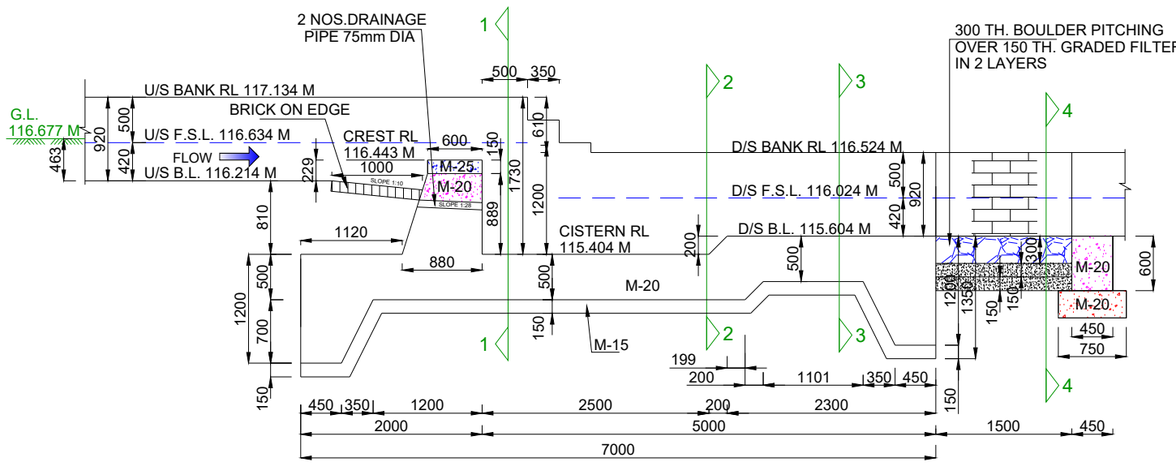


Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 2.475 OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ FALL 1 of 1



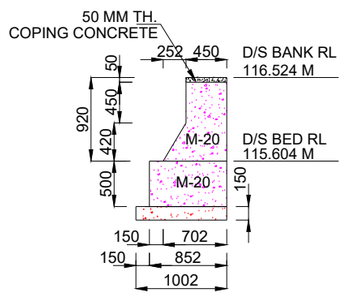
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

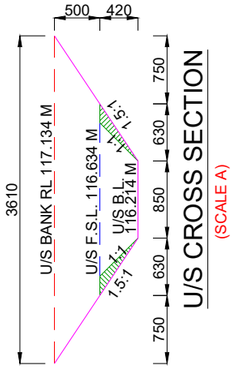
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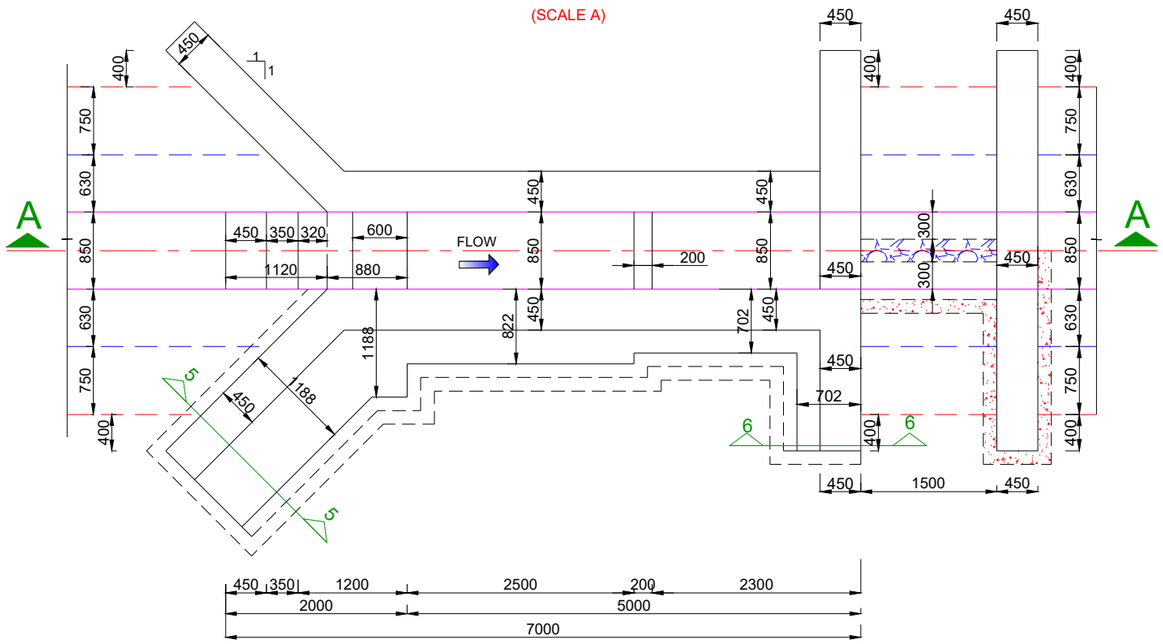
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.120	0.120	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.420	0.420	METRE
BED WIDTH	0.850	0.850	METRE
BED SLOPE	1 : 3500	1 : 3500	



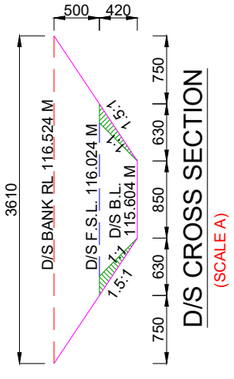
U/S CROSS SECTION

(SCALE A)



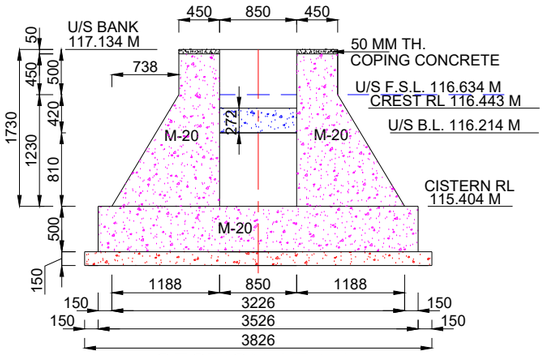
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



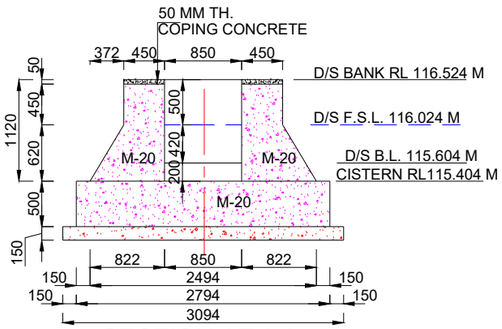
D/S CROSS SECTION

(SCALE A)



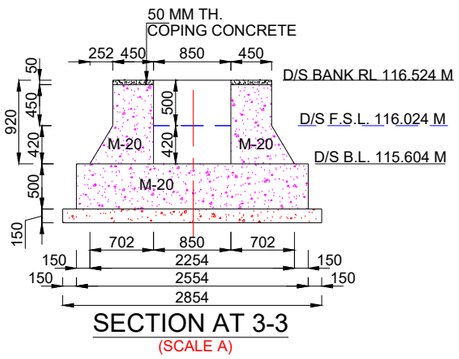
SECTION AT 1-1

(SCALE A)



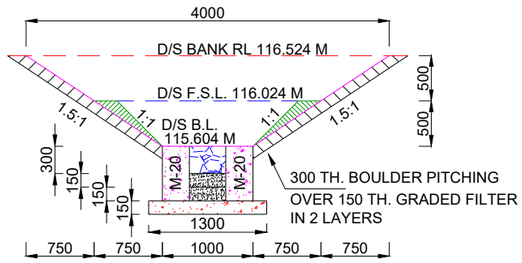
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

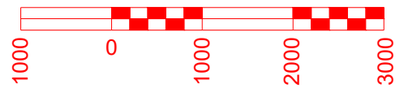
(SCALE A)



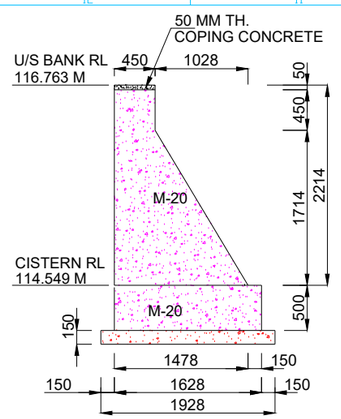
SECTION AT 4-4

(SCALE A)

SCALE A:-

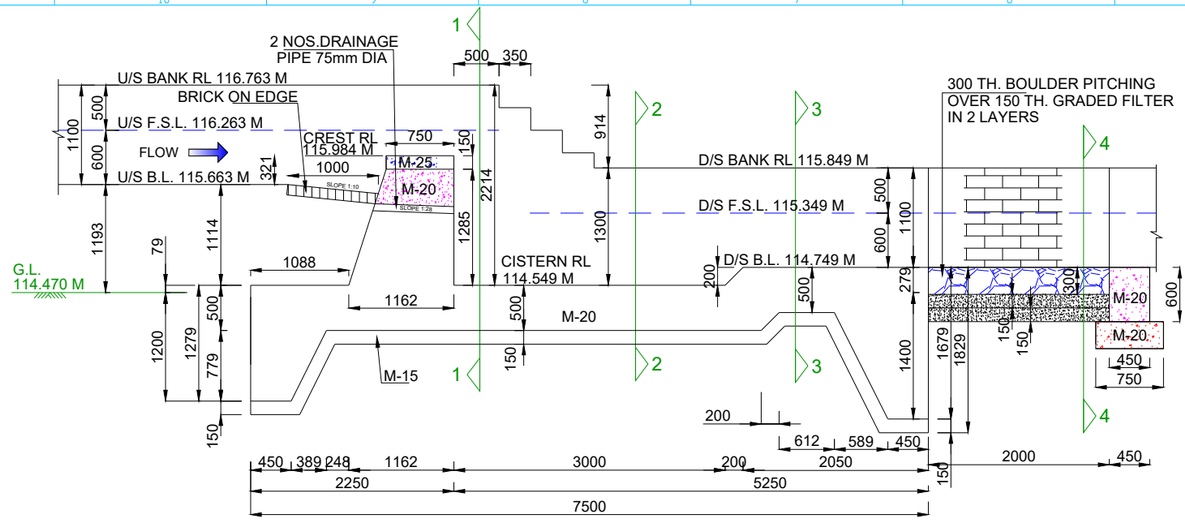


Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 3.460 OF SIMRA MR. (OFFTAKE FROM RD - 12+685 KM. (L), BASDIHA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-05/ FALL 1 of 1



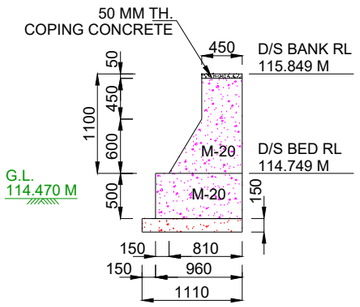
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

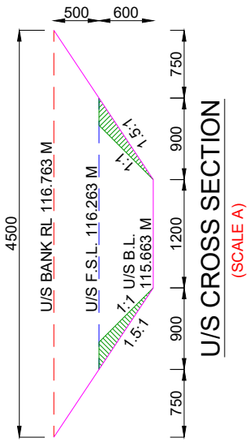
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

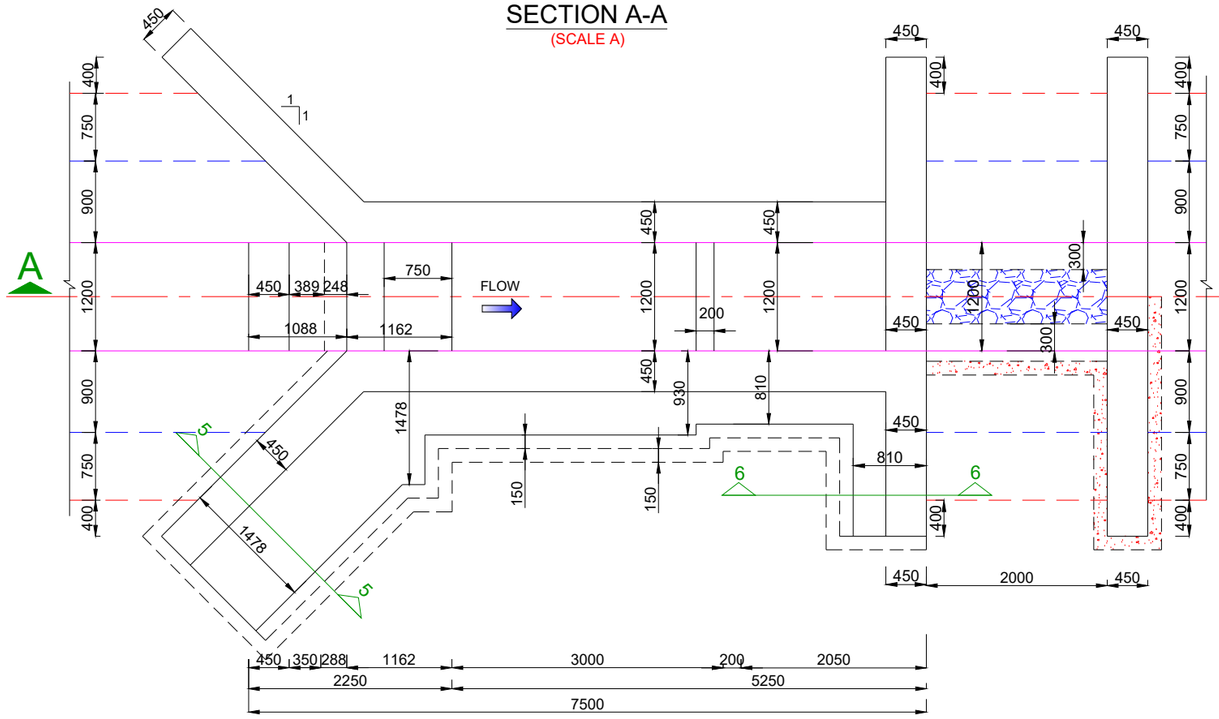
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.300	0.300	CUMEC
VERTICAL DROP	0.914	0.914	METRE
FULL SUPPLY DEPTH	0.600	0.600	METRE
BED WIDTH	1.200	1.200	METRE
BED SLOPE	1 : 3500	1 : 3500	



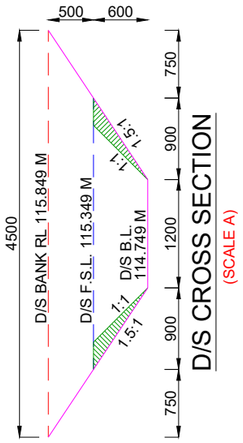
U/S CROSS SECTION

(SCALE A)



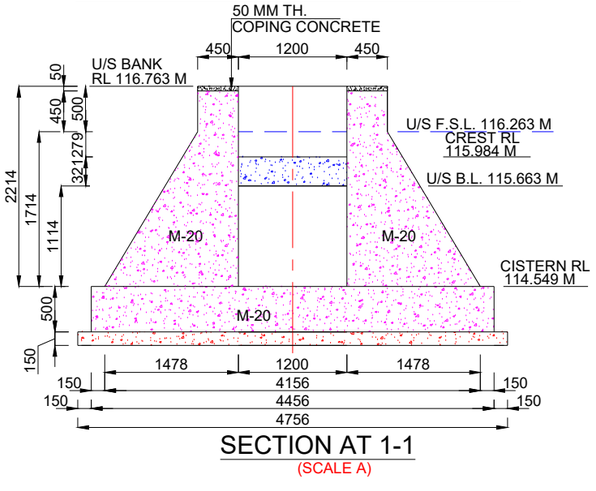
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



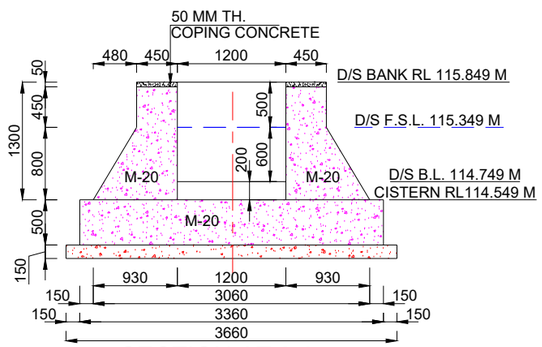
D/S CROSS SECTION

(SCALE A)



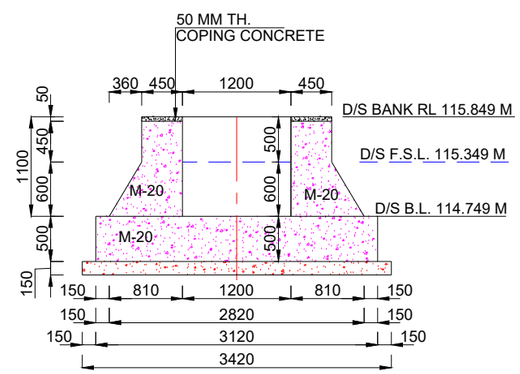
SECTION AT 1-1

(SCALE A)



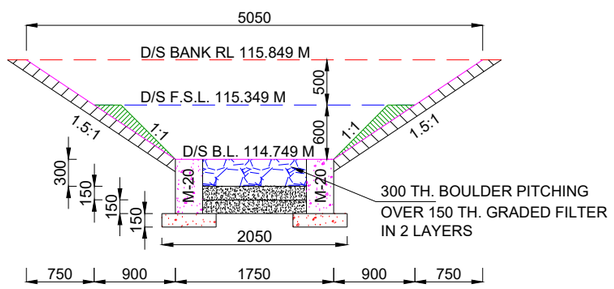
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

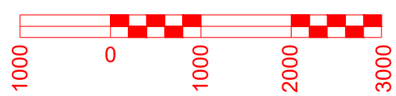
(SCALE A)



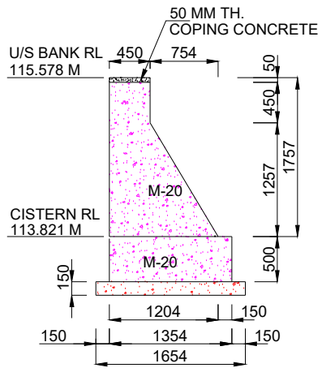
SECTION AT 4-4

(SCALE A)

SCALE A:-

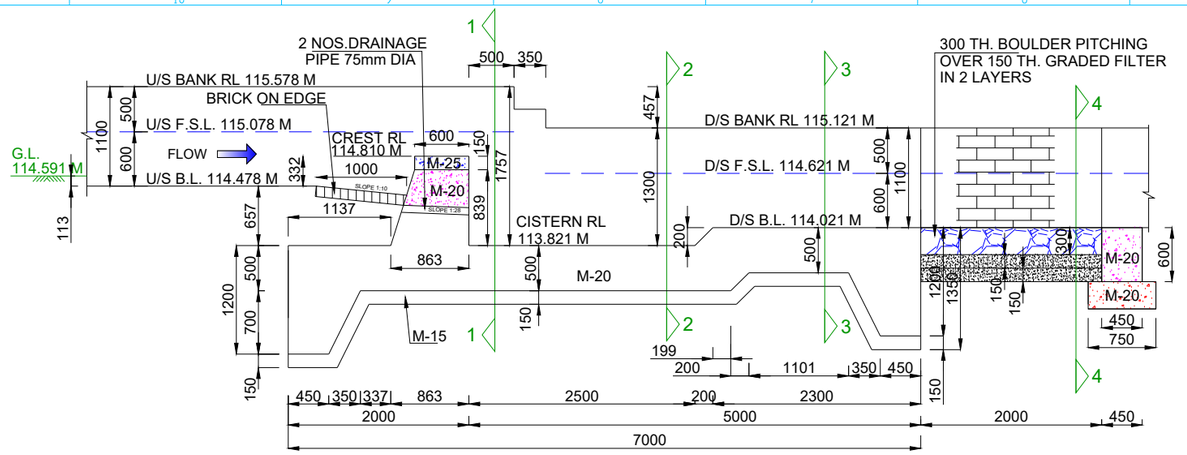


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 0.000 OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ FALL 1 of 1
	.	. .



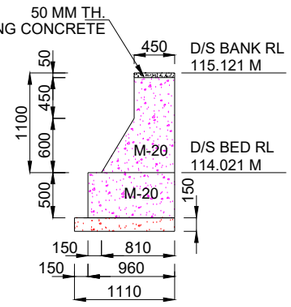
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

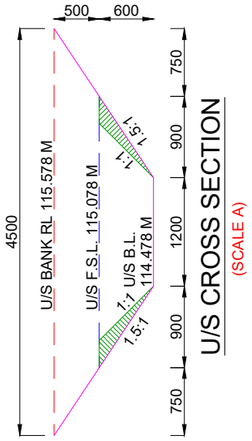
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3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

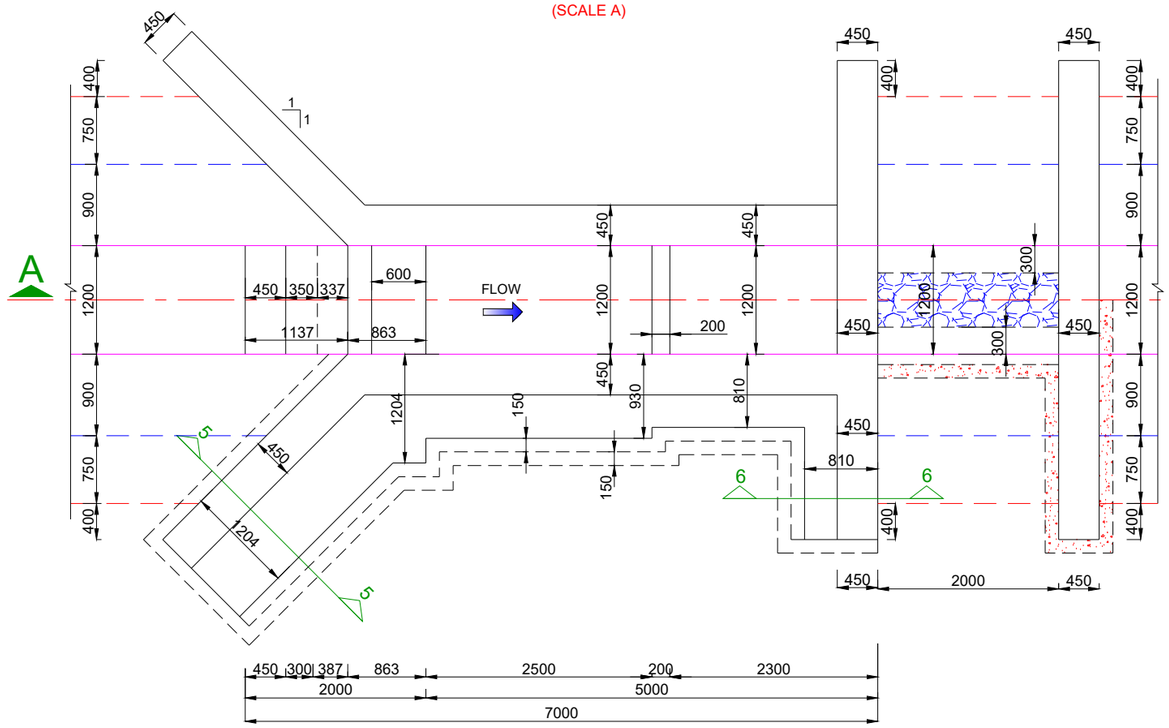
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

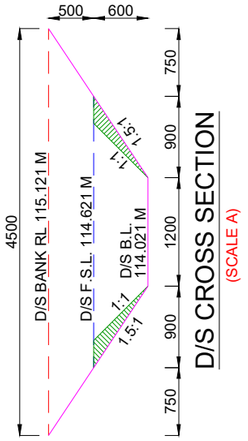
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.300	0.300	CUMEC
VERTICAL DROP	0.457	0.457	METRE
FULL SUPPLY DEPTH	0.600	0.600	METRE
BED WIDTH	1.200	1.200	METRE
BED SLOPE	1 : 3500	1 : 3500	



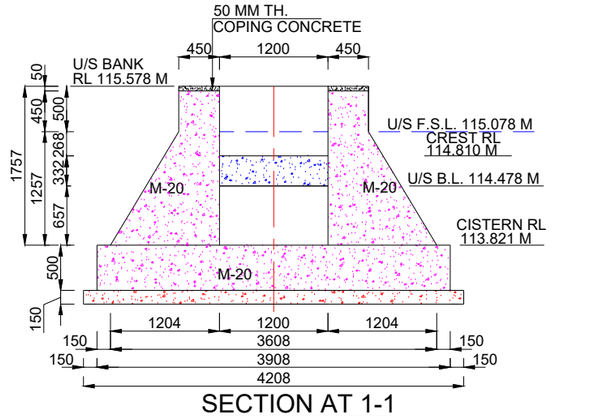
(SCALE A)



(SCALE A)

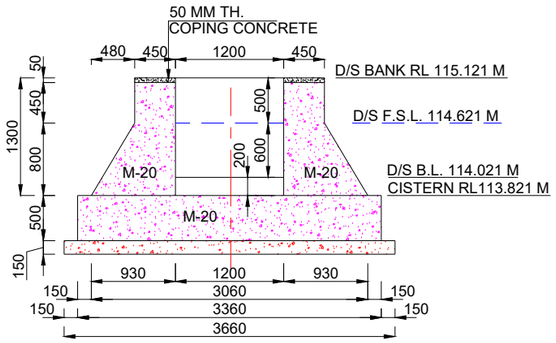


(SCALE A)



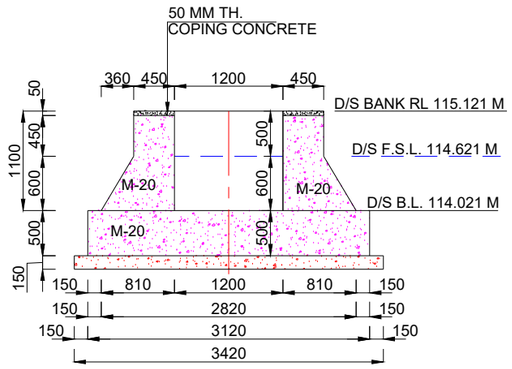
SECTION AT 1-1

(SCALE A)



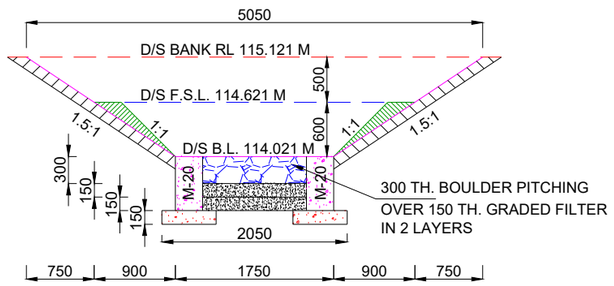
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



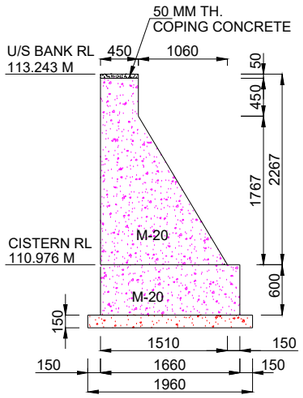
SECTION AT 4-4

(SCALE A)

SCALE A:-

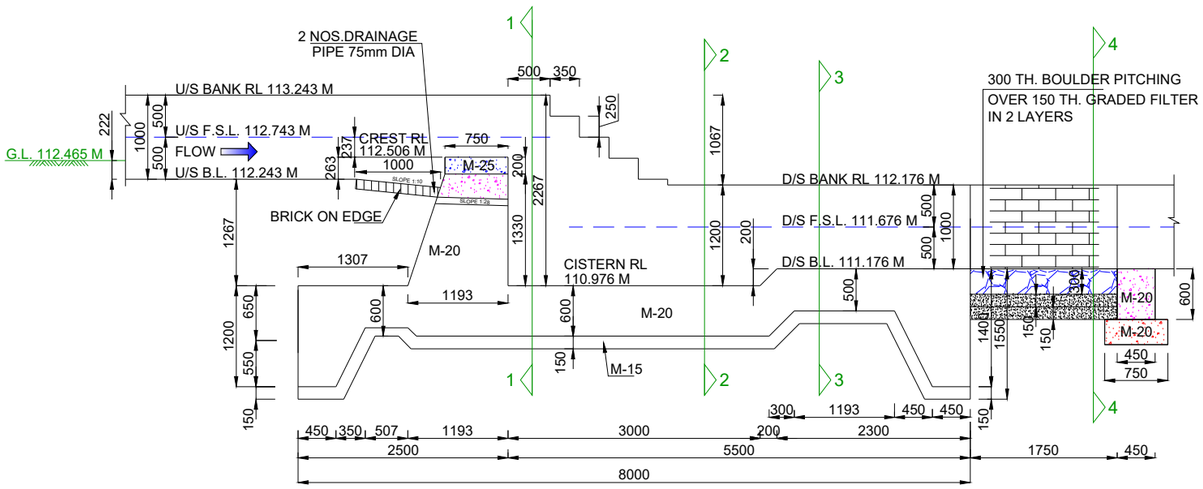
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Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.457 M HT. FALL AT KM. 0.950 OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ FALL 1 of 1
	.	. .



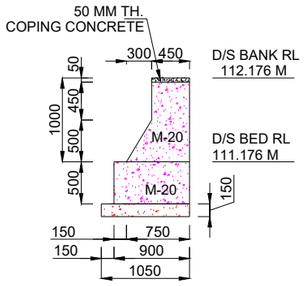
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

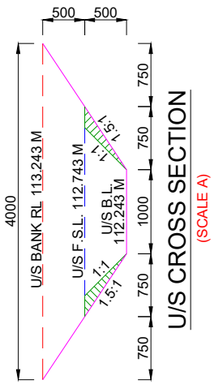
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

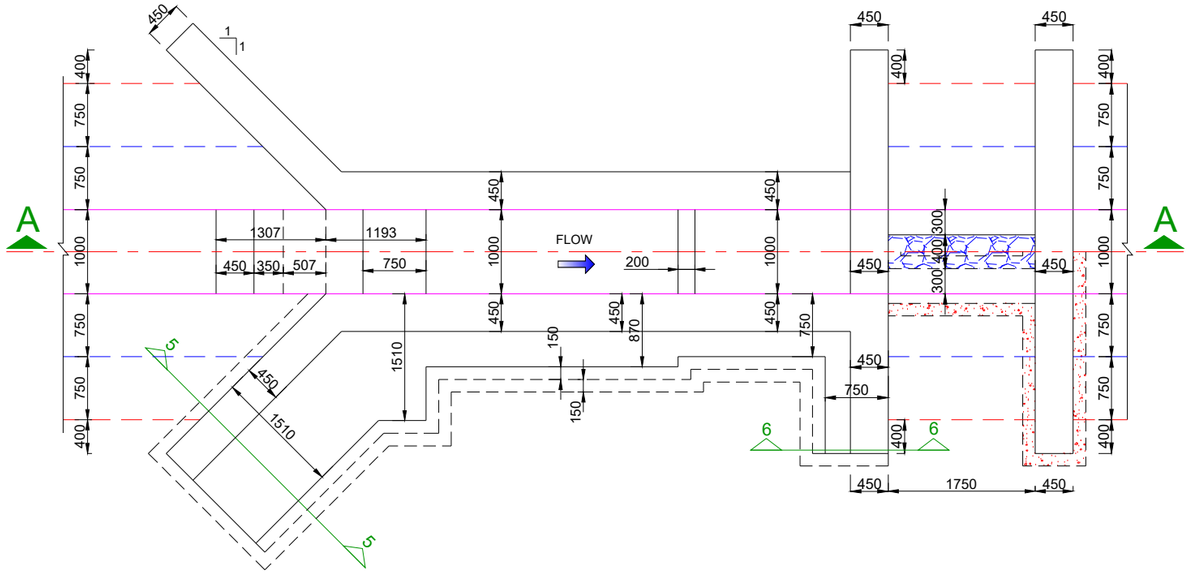
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.190	0.190	CUMEC
VERTICAL DROP	1.067	1.067	METRE
FULL SUPPLY DEPTH	0.500	0.500	METRE
BED WIDTH	1.000	1.000	METRE
BED SLOPE	1 : 3500	1 : 3500	



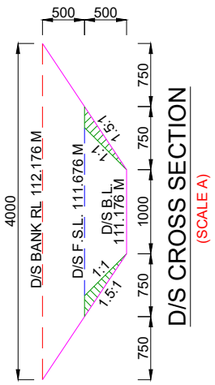
U/S CROSS SECTION

(SCALE A)



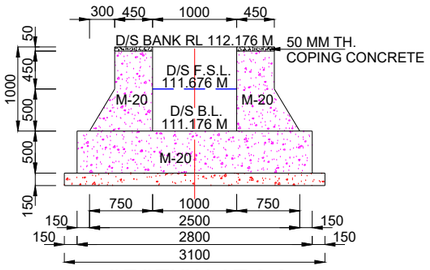
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



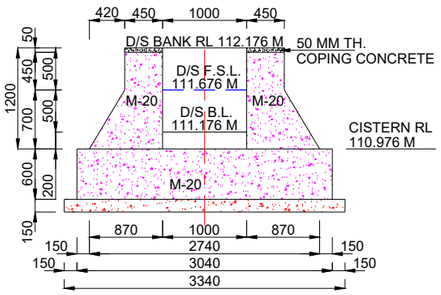
D/S CROSS SECTION

(SCALE A)



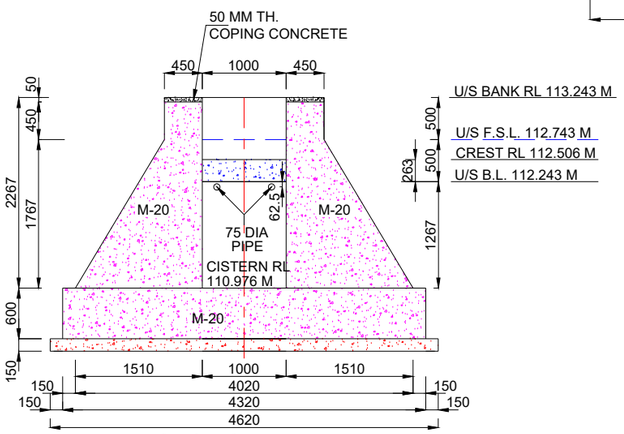
SECTION AT 3-3

(SCALE A)



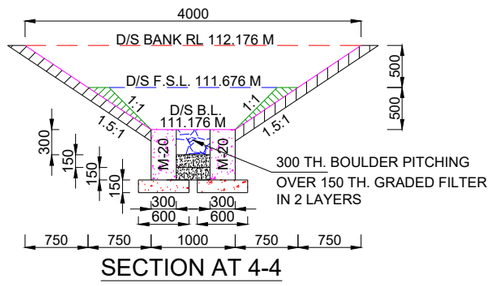
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

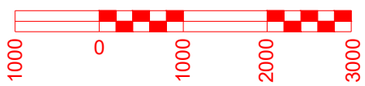
(SCALE A)



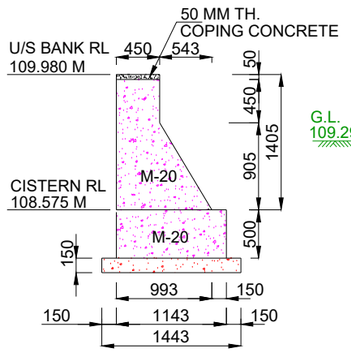
SECTION AT 4-4

(SCALE A)

SCALE A:-

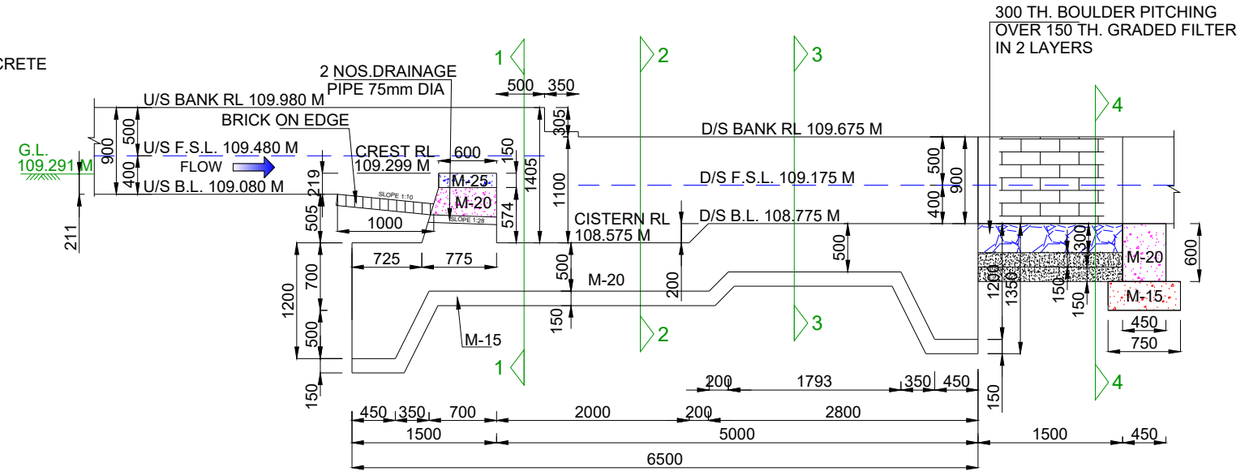


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.067 M HT. FALL AT KM. 2.900 OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ FALL 1 of 1
	.	. .



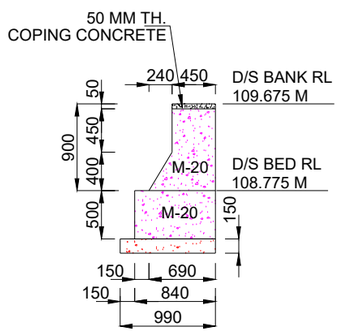
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

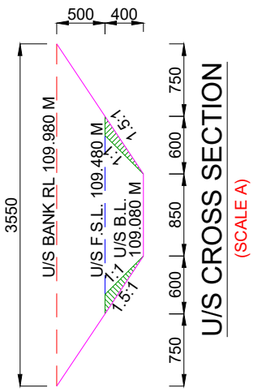
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FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

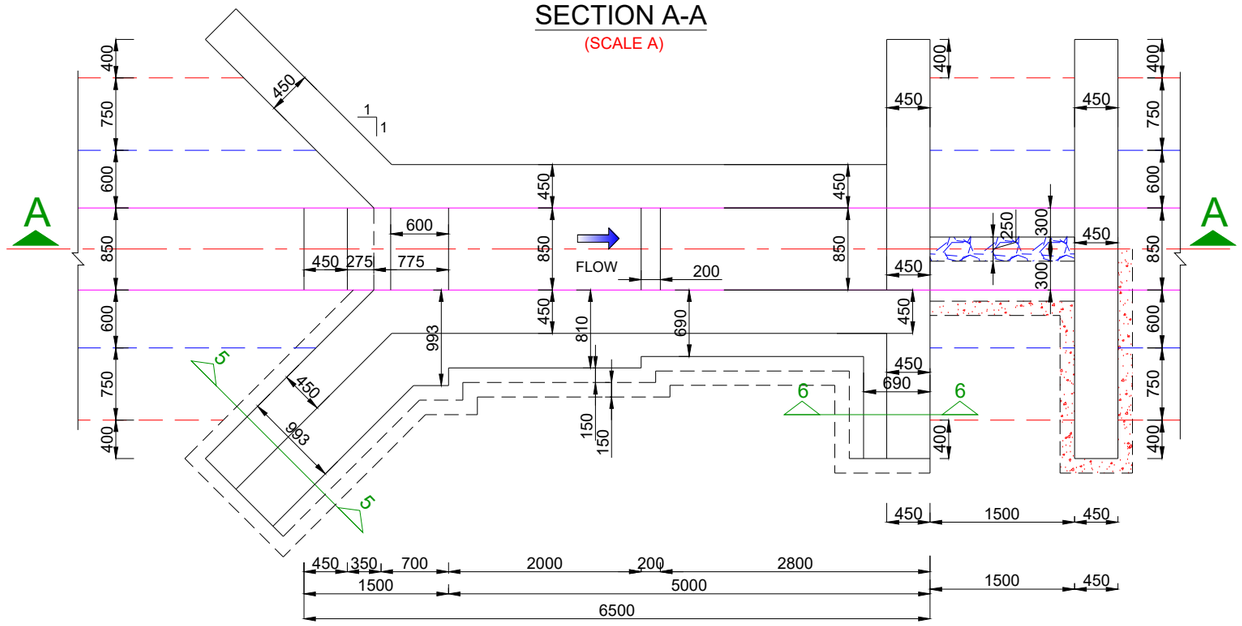
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.110	0.110	CUMEC
VERTICAL DROP	0.305	0.305	METRE
FULL SUPPLY DEPTH	0.400	0.400	METRE
BED WIDTH	0.850	0.850	METRE
BED SLOPE	1 : 3500	1 : 3500	



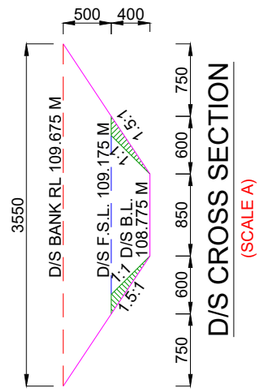
U/S CROSS SECTION

(SCALE A)



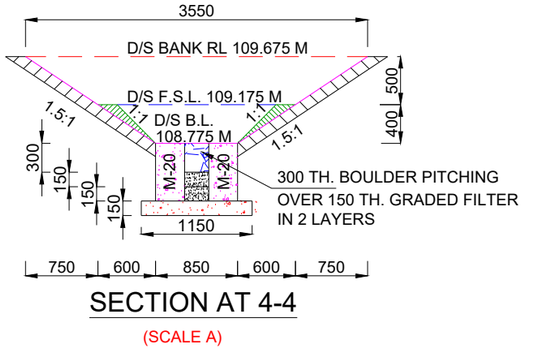
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



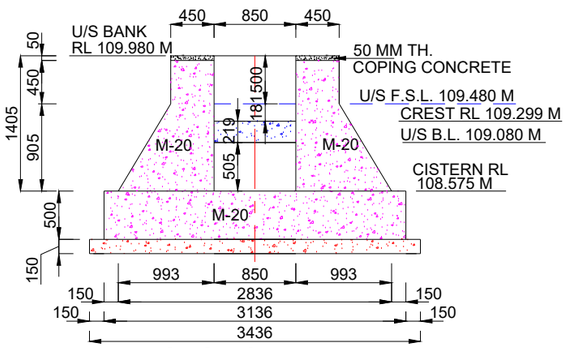
D/S CROSS SECTION

(SCALE A)



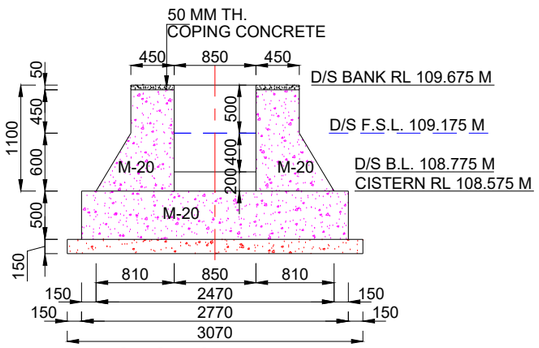
SECTION AT 4-4

(SCALE A)



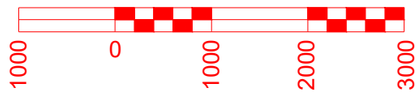
SECTION AT 1-1

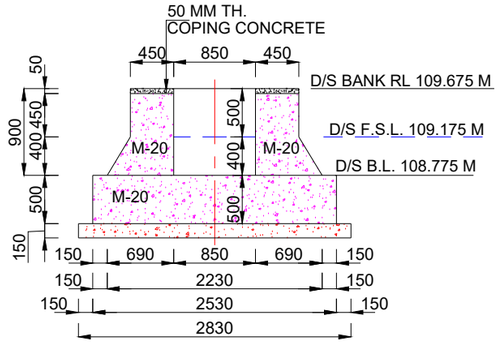
(SCALE A)



SECTION AT 2-2

SCALE A:-

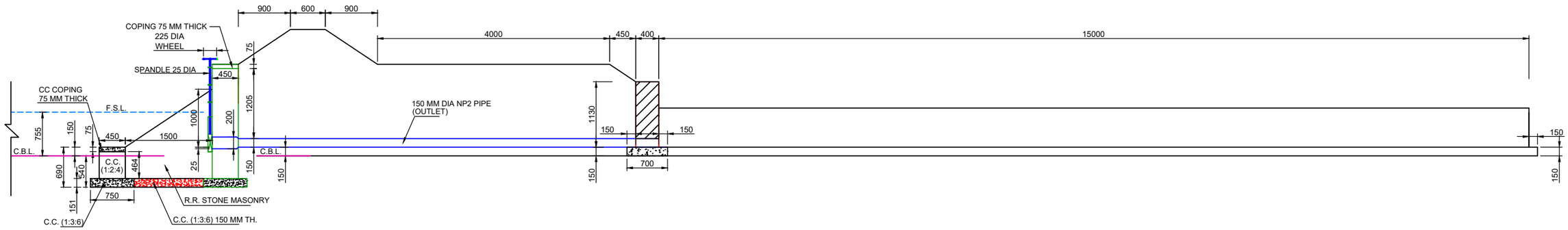




SECTION AT 3-3

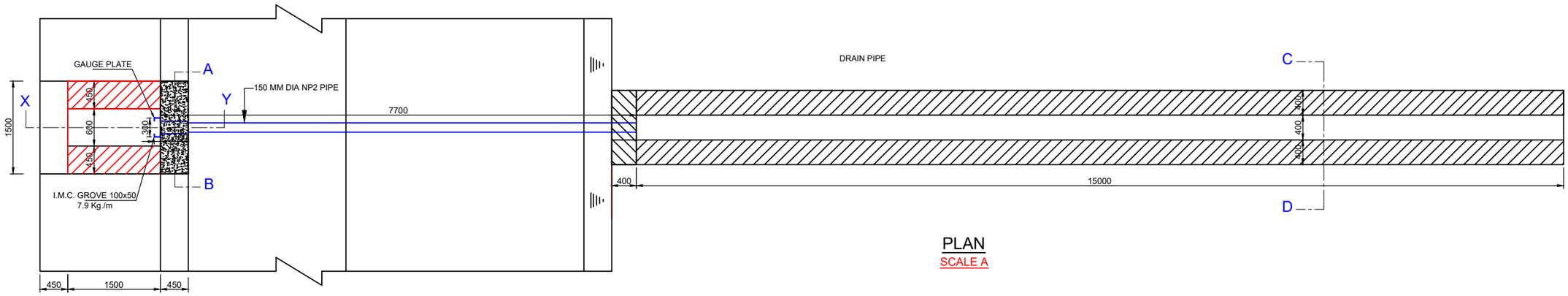
(SCALE A)

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.305 M HT. FALL AT KM. 4.370 OF SALEMPUR MR. (OFFTAKE FROM RD - 16+015 KM. (R), BASDIHA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-06/ FALL 1 of 1
	.	. .

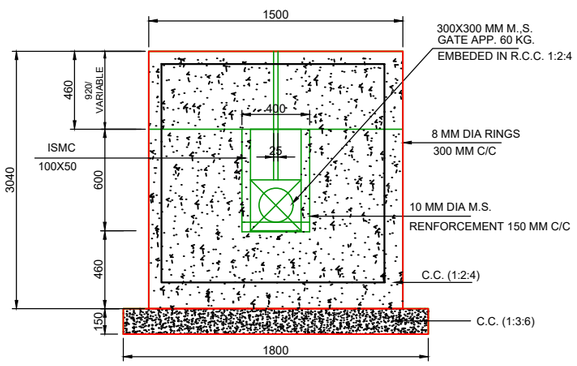


SECTION X-Y
SCALE A

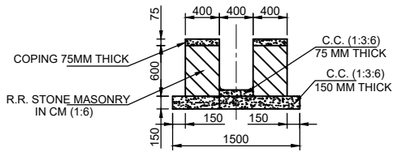
ELEVATION
SCALE A



PLAN
SCALE A



SECTION A-B
SCALE B



SECTION C-D
SCALE A

NOTES

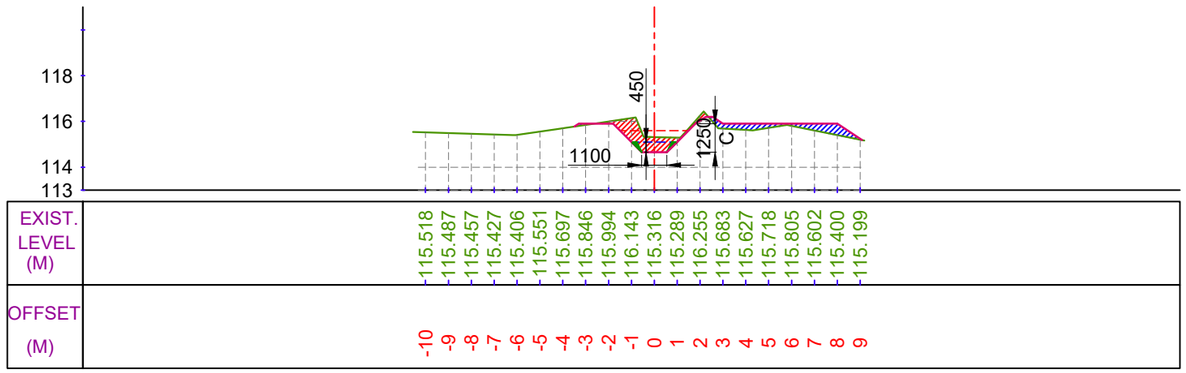
1. ALL DIMENSIONS ARE IN MM EXCEPT LEVELS IN METRES UNLESS OTHERWISE SPECIFIED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION SHALL BE SCALED OFF.
2. ALL MASONRY WORKS SHALL BE DONE AS PER SPECIFICATION OF GOVT. OF JHARKHAND
3. THIS DWG. IS FOR OUTLET PIPE OF 150 MM DIA EMBEDED IN MASONRY.
4. 300X300 MM SIZE GATE SHALL BE FIXED IN ISMC. 100X50 FRAME.
5. THE GATE SHALL BE LIFTED THROUGH SPANDLE, THIS SPANDLE SHALL BE KEY LOCKED TO AVOID UNNECCESSARY OPERATION BY UN-AUTHORIZED PERSON.
6. THE 600 MM DIA DRAIN PIPE SHALL BE PROVIDED BELOW GULE DRAIN IF REQUIRED AT THE LOCATION.

SCALE A:- 0 1000 2000 3000 4000MM

SCALE B:- 0 2000 4000 6000 8000MM

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	TYPICAL OUTLET DRAWING
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ OUTLET 1 of 1
	Drawn by:-	Checked by:- / Approved by:-

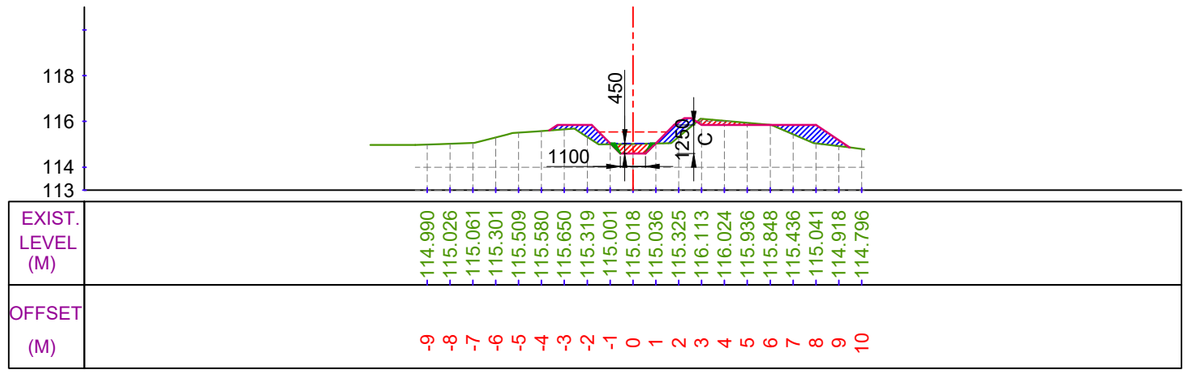
X SECTION OF CHANDAULI MINOR



EXIST. LEVEL (M)	115.518	115.487	115.457	115.427	115.406	115.551	115.697	115.846	115.994	116.143	115.316	115.289	116.255	115.683	115.627	115.718	115.805	115.602	115.400	115.199
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

CUTTING AREA (SQ.M) = 2.019
FILLING AREA (SQ.M) = 1.658

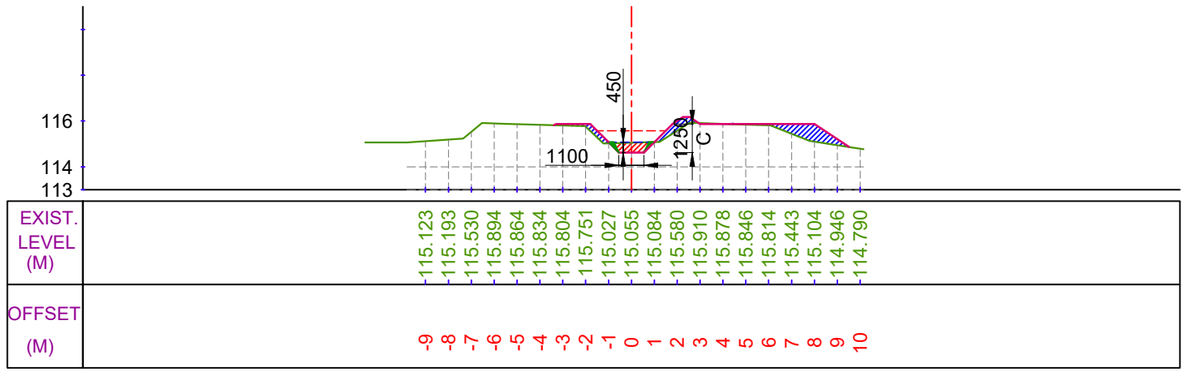
CH. (KM):- 0+100
DESIGNED BED LEVEL = 114.650 M



EXIST. LEVEL (M)	114.990	115.026	115.061	115.301	115.509	115.580	115.650	115.319	115.001	115.018	115.036	115.325	116.113	116.024	115.936	115.848	115.436	115.041	114.918	114.796
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 1.002
FILLING AREA (SQ.M) = 3.014

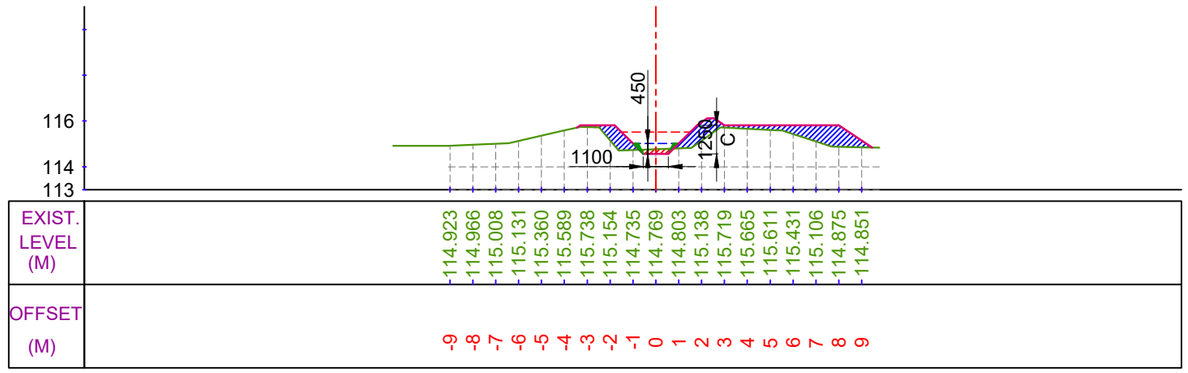
CH. (KM):- 0+300
DESIGNED BED LEVEL = 114.593 M



EXIST. LEVEL (M)	115.123	115.193	115.530	115.894	115.864	115.834	115.804	115.751	115.027	115.055	115.084	115.580	115.910	115.878	115.846	115.814	115.443	115.104	114.946	114.790
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 0.596
FILLING AREA (SQ.M) = 2.378

CH. (KM):- 0+200
DESIGNED BED LEVEL = 114.622 M



EXIST. LEVEL (M)	114.923	114.966	115.008	115.131	115.360	115.589	115.738	115.154	114.735	114.769	114.803	115.138	115.719	115.665	115.611	115.431	115.106	114.875	114.851	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	

CUTTING AREA (SQ.M) = 0.245
FILLING AREA (SQ.M) = 4.823

CH. (KM):- 0+400
DESIGNED BED LEVEL = 114.565 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

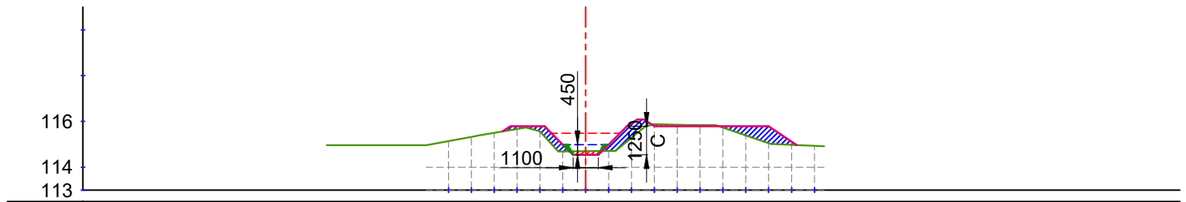
H.G. LINE

Prepared by :-

WAPCOS LTD.

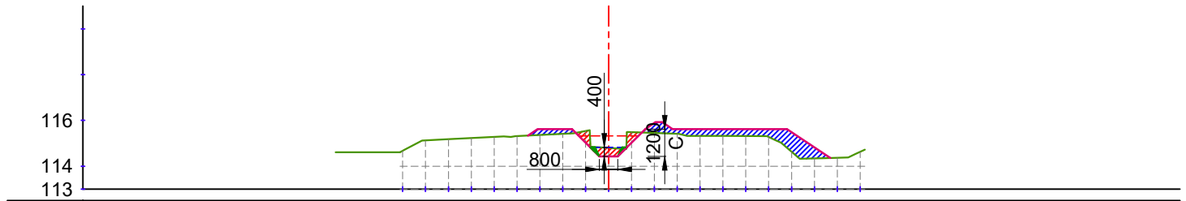
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 1 of 8

X SECTION OF CHANDAULI MINOR



| | | |

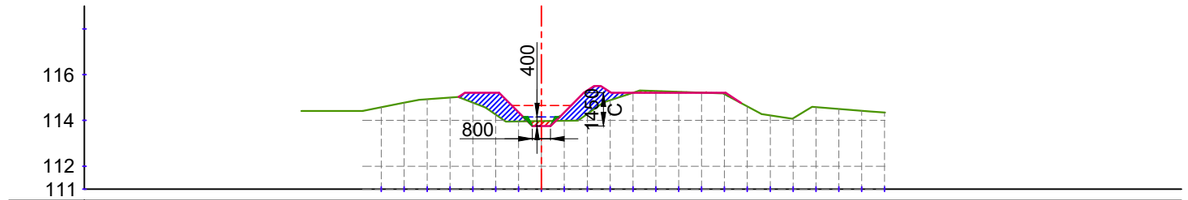
X SECTION OF CHANDAULI MINOR



EXIST. LEVEL (M)	114.675	115.124	115.176	115.228	115.279	115.313	115.363	115.414	115.537	114.800	115.490	115.455	115.419	115.324	115.320	115.317	115.277	114.626	114.339	114.366	114.627	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	

CUTTING AREA (SQ.M) = 0.838
FILLING AREA (SQ.M) = 3.633

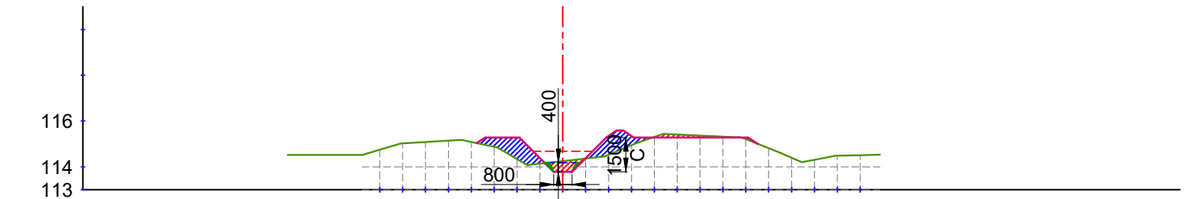
CH. (KM):- 0+900
DESIGNED BED LEVEL = 114.422 M



EXIST. LEVEL (M)	114.577	114.775	114.929	115.002	114.781	114.255	113.958	113.972	113.987	114.276	114.883	115.209	115.281	115.247	115.214	115.142	114.610	114.221	114.090	114.585	114.504	114.423	114.342	
OFFSET (M)	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

CUTTING AREA (SQ.M) = 0.360
FILLING AREA (SQ.M) = 3.597

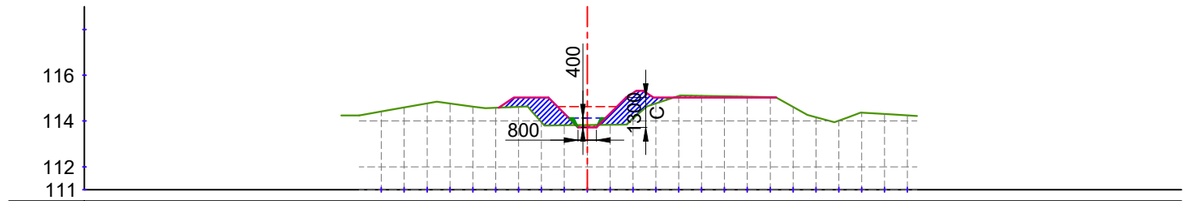
CH. (KM):- 1+100
DESIGNED BED LEVEL = 113.755 M



EXIST. LEVEL (M)	114.742	115.024	115.082	115.139	115.082	114.872	114.337	114.142	114.251	114.360	114.523	114.948	115.306	115.409	115.362	115.315	115.208	114.811	114.394	114.308	114.488	114.510		
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13		

CUTTING AREA (SQ.M) = 0.815
FILLING AREA (SQ.M) = 3.042

CH. (KM):- 1+000
DESIGNED BED LEVEL = 113.783 M



EXIST. LEVEL (M)	114.418	114.595	114.773	114.769	114.632	114.577	114.620	113.950	113.816	113.827	113.838	114.100	114.770	115.100	115.104	115.084	115.064	115.044	114.620	114.168	114.017	114.368	114.307	114.245
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 0.329
FILLING AREA (SQ.M) = 3.784

CH. (KM):- 1+200
DESIGNED BED LEVEL = 113.726 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

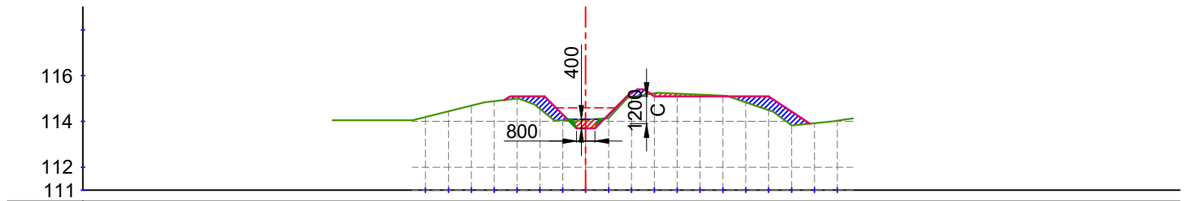
H.G. LINE

Prepared by :-

WAPCOS LTD.

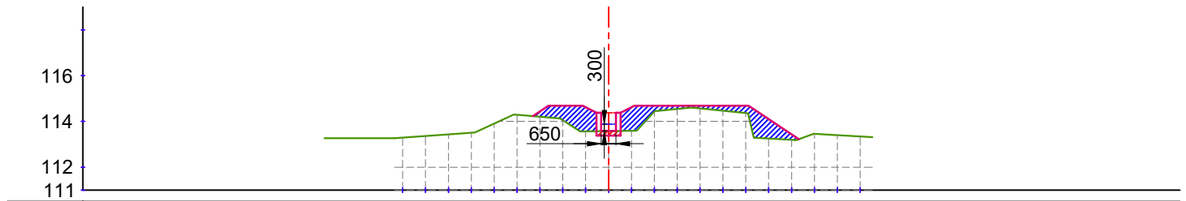
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 3 of 8

X SECTION OF CHANDAULI MINOR



| | | |

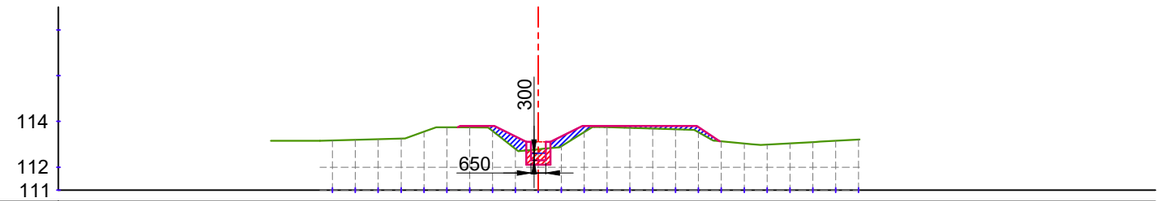
X SECTION OF CHANDAULI MINOR



EXIST. LEVEL (M)	113.287	113.360	113.434	113.507	113.906	114.283	114.201	114.053	113.561	113.578	113.594	114.424	114.545	114.573	114.471	114.369	113.248	113.191	113.456	113.397	113.338	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	

CUTTING AREA (SQ.M) = 0.205
FILLING AREA (SQ.M) = 5.296

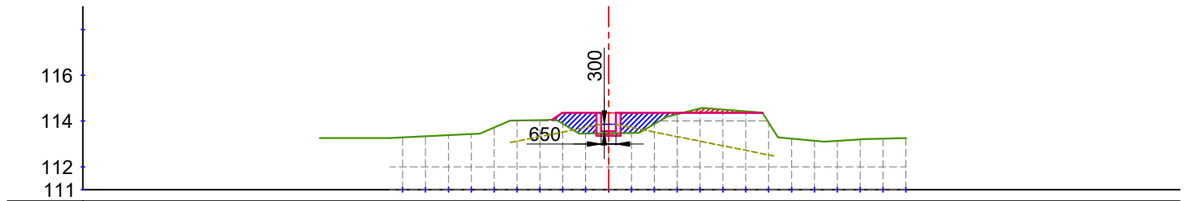
CH. (KM):- 1+700
DESIGNED BED LEVEL = 113.582 M



EXIST. LEVEL (M)	113.172	113.199	113.225	113.251	113.551	113.742	113.736	113.575	112.793	112.781	112.911	113.531	113.747	113.718	113.686	113.655	113.525	113.128	113.034	112.982	113.040	113.097	113.154	113.212
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 0.711
FILLING AREA (SQ.M) = 2.025

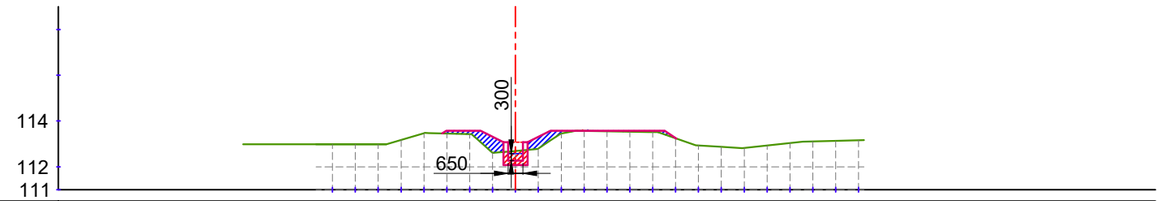
CH. (KM):- 1+900
DESIGNED BED LEVEL = 112.304 M



EXIST. LEVEL (M)	113.287	113.334	113.381	113.428	113.715	114.021	114.043	113.879	113.454	113.464	113.475	113.868	114.298	114.547	114.497	114.419	113.933	113.234	113.137	113.131	113.194	113.231	113.261	
OFFSET (M)	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	

CUTTING AREA (SQ.M) = 0.507
FILLING AREA (SQ.M) = 2.672

CH. (KM):- 1+800
DESIGNED BED LEVEL = 113.553 M



EXIST. LEVEL (M)	112.986	112.986	112.986	113.174	113.466	113.453	113.427	112.605	112.694	112.802	113.448	113.573	113.555	113.536	113.518	113.245	112.936	112.871	112.822	112.929	113.037	113.109	113.135	113.162
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

CUTTING AREA (SQ.M) = 0.652
FILLING AREA (SQ.M) = 1.665

CH. (KM):- 2+000
DESIGNED BED LEVEL = 112.274 M

LEGEND

CUT AREA

FILL AREA

F.S.L.

DESIGNED BED LINE

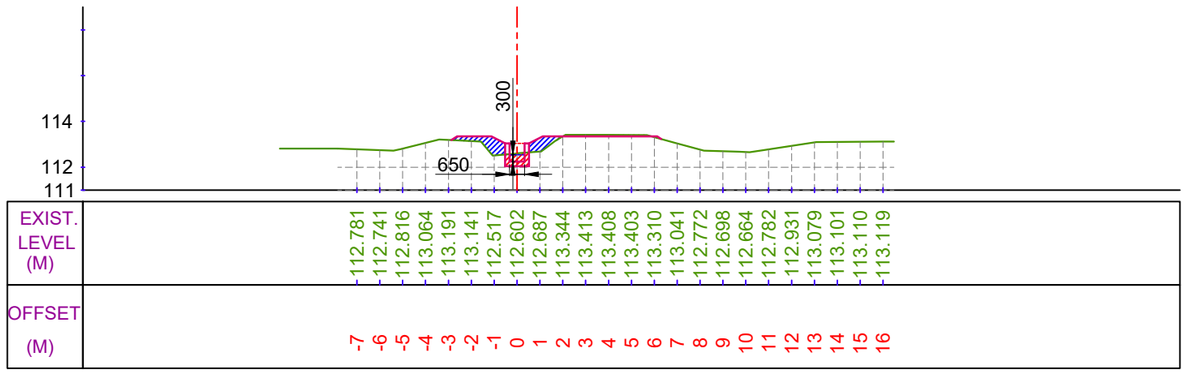
H.G. LINE

Prepared by :-

WAPCOS LTD.

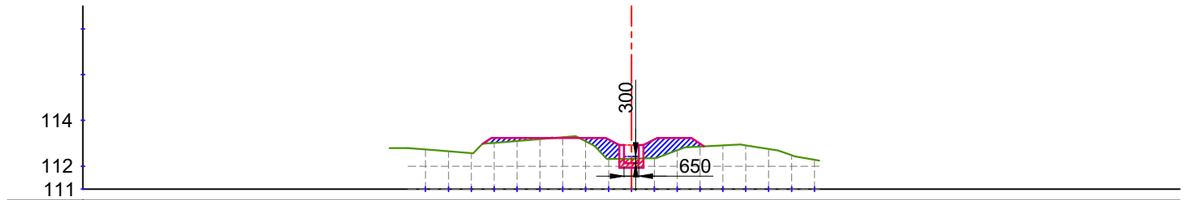
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 5 of 8

X SECTION OF CHANDAULI MINOR



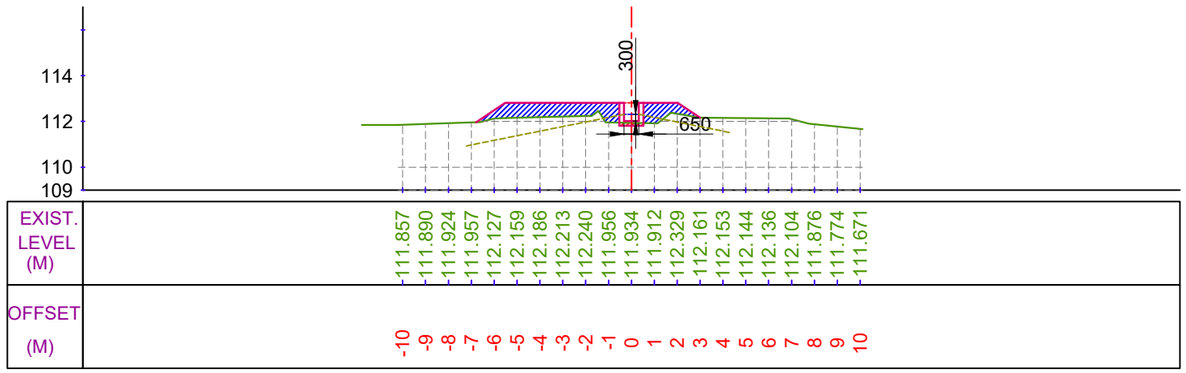
| | | |

X SECTION OF CHANDAULI MINOR



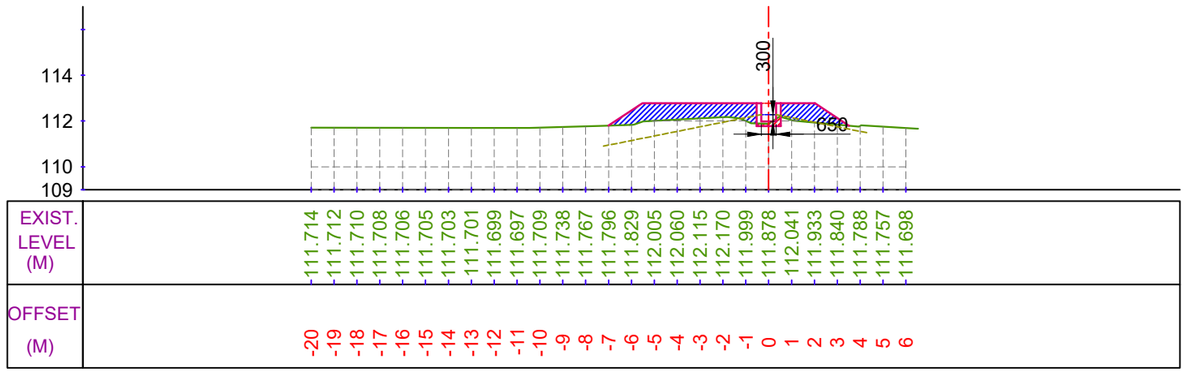
| | | |

X SECTION OF CHANDAULI MINOR



CUTTING AREA (SQ.M) = 0.130
FILLING AREA (SQ.M) = 4.882

CH. (KM):- 2+900
DESIGNED BED LEVEL = 112.010 M



CUTTING AREA (SQ.M) = 0.195
FILLING AREA (SQ.M) = 6.002

CH. (KM):- 2+993
DESIGNED BED LEVEL = 111.982 M

LEGEND

CUT AREA	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHANDAULI MINOR (OFFTAKE FROM RD - 7+435 KM. (R), PRITAMPURA SUB DY.)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-13-04-01/ XSEC- 8 of 8