TENDER DOCUMENT

FOR

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

Estimated Cost (Rs. 50.81 Crores)

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

TENDER DRAWINGS

Issued to M/s

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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 – KAPASIYA DY.
(OFFTAKING FROM RIGHT MAIN CANAL AT 67.82 KM)

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

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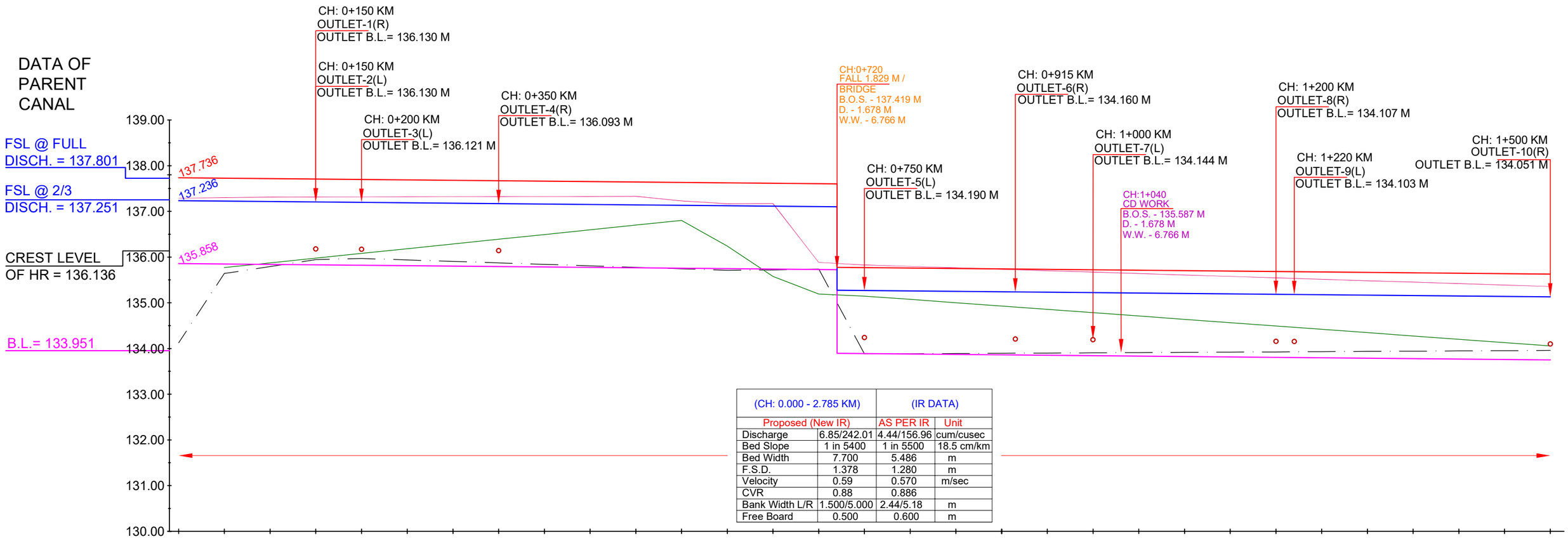
L-SECTION

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 2.785 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	6.85/242.01	4.44/156.96	cum/cusec
Bed Slope	1 in 5400	1 in 5500	18.5 cm/km
Bed Width	7.700	5.486	m
F.S.D.	1.378	1.280	m
Velocity	0.59	0.570	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	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		137.736	137.727	137.717	137.708	137.699	137.690	137.680	137.671	137.662	137.653	137.643	137.634	137.625	137.616	137.606	137.603 / 137.774	135.768	135.759	135.750	135.740	135.731	135.722	135.713	135.703	135.694	135.685	135.676	135.666	135.657	135.648	135.638	135.629
	F.S.L.		137.236	137.227	137.217	137.208	137.199	137.190	137.180	137.171	137.162	137.153	137.143	137.134	137.125	137.116	137.106	137.103 / 135.274	135.268	135.259	135.250	135.240	135.231	135.222	135.213	135.203	135.194	135.185	135.176	135.166	135.157	135.148	135.138	135.129
	Proposed Bed Level		135.858	135.849	135.839	135.830	135.821	135.812	135.802	135.793	135.784	135.775	135.765	135.756	135.747	135.738	135.728	135.725 / 133.896	133.890	133.881	133.872	133.862	133.853	133.844	133.835	133.825	133.816	133.807	133.798	133.788	133.779	133.770	133.760	133.751
EXISTING DATA	Bed Level		134.125	135.641	135.792	135.945	135.971	135.937	135.906	135.873	135.841	135.809	135.777	135.744	135.711	135.718	135.741		133.885	133.884	133.889	133.895	133.899	133.905	133.910	133.915	133.920	133.925	133.931	133.936	133.941	133.947	133.952	133.958
	TOP OF BANK LEVEL		137.289	137.300	137.311	137.316	137.318	137.320	137.321	137.324	137.325	137.327	137.329	137.229	137.169	137.171	135.883		135.829	135.797	135.766	135.734	135.703	135.672	135.640	135.608	135.577	135.546	135.514	135.483	135.452	135.420	135.388	135.357
	NSL			135.771	135.874	135.977	136.080	136.184	136.287	136.390	136.494	136.597	136.700	136.804	136.240	135.578	135.192		135.145	135.075	135.002	134.929	134.857	134.784	134.711	134.638	134.565	134.493	134.420	134.347	134.274	134.201	134.129	134.056

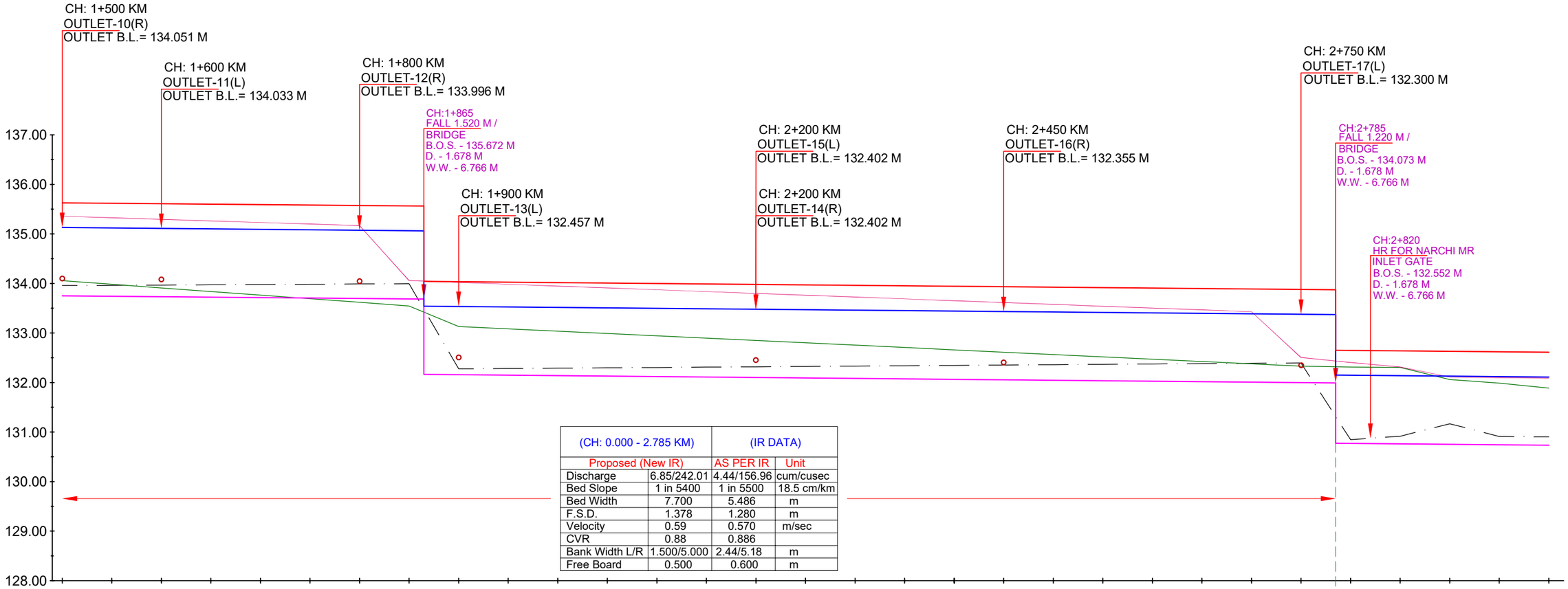
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 01 of 13

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.000 - 2.785 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	6.85/242.01	4.44/156.96	cum/cusec
Bed Slope	1 in 5400	1 in 5500	18.5 cm/km
Bed Width	7.700	5.486	m
F.S.D.	1.378	1.280	m
Velocity	0.59	0.570	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	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+785	2+800	2+850	2+900	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	135.629	135.620	135.611	135.601	135.592	135.583	135.574	135.564	135.562	134.042	134.035	134.026	134.017	134.007	133.998	133.989	133.980	133.970	133.961	133.952	133.943	133.933	133.924	133.915	133.906	133.896	133.887	133.878	133.871	132.651	132.639	132.630	132.620	132.611
	F.S.L.	135.129	135.120	135.111	135.101	135.092	135.083	135.074	135.064	135.062	133.542	133.535	133.526	133.517	133.507	133.498	133.489	133.480	133.470	133.461	133.452	133.443	133.433	133.424	133.415	133.406	133.396	133.387	133.378	133.371	132.148	132.139	132.130	132.120	132.111
	Proposed Bed Level	133.751	133.742	133.733	133.723	133.714	133.705	133.696	133.686	133.684	132.164	132.157	132.148	132.139	132.129	132.120	132.111	132.102	132.092	132.083	132.074	132.065	132.055	132.046	132.037	132.028	132.018	132.009	132.000	131.993	130.770	130.761	130.752	130.742	130.733
EXISTING DATA	Bed Level	133.958	133.962	133.968	133.973	133.979	133.983	133.990	133.994	132.275	132.282	132.289	132.297	132.303	132.311	132.317	132.324	132.332	132.339	132.346	132.353	132.360	132.367	132.374	132.381	132.388	132.395	132.403	130.847	130.915	131.168	130.911	130.902
	TOP OF BANK LEVEL	135.357	135.326	135.294	135.263	135.231	135.200	135.169	134.058	134.021	133.984	133.947	133.911	133.873	133.837	133.800	133.762	133.726	133.689	133.652	133.615	133.578	133.541	133.504	133.467	133.430	133.505	132.403	132.311	132.304	132.111	132.099	132.088
	NSL	134.056	133.983	133.910	133.837	133.765	133.692	133.619	133.546	133.131	133.084	133.037	132.990	132.943	132.896	132.849	132.801	132.754	132.707	132.660	132.613	132.566	132.519	132.472	132.425	132.378	132.331	132.311	132.304	132.060	131.987	131.886	
	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+785	2+800	2+850	2+900	2+950	3+000

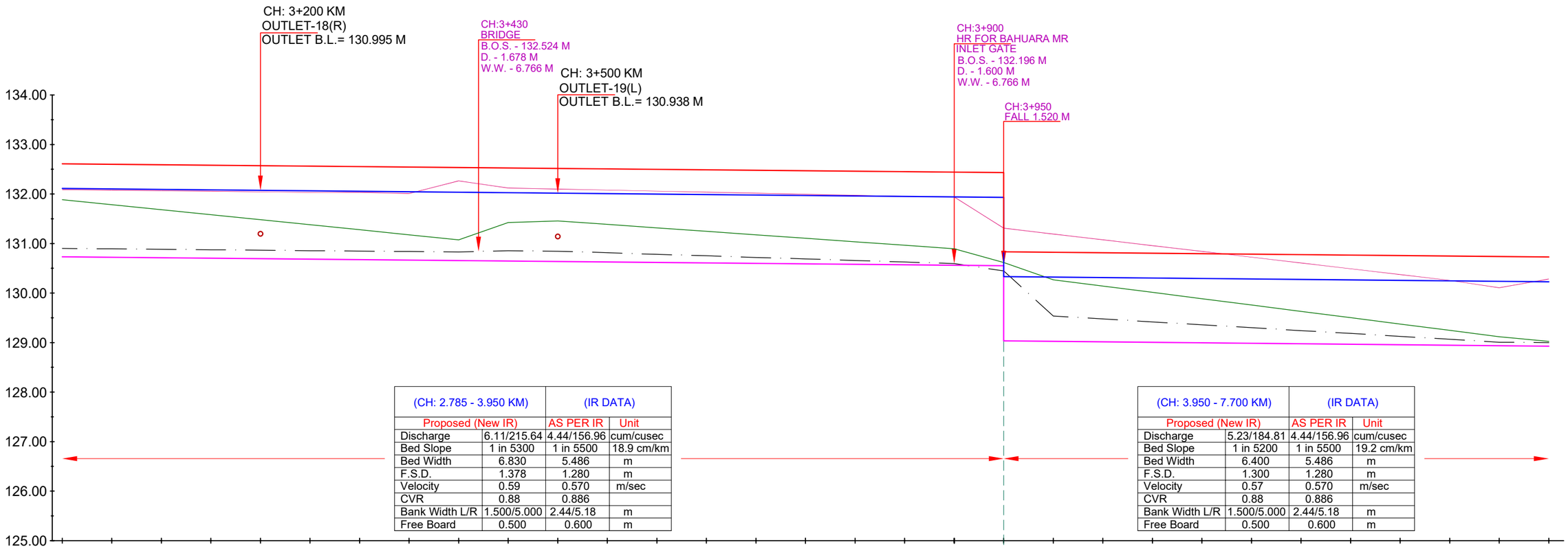
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 02 of 13

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 3+000 TO 4+500



(CH: 2.785 - 3.950 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	6.11/215.64	4.44/156.96	cum/cusec
Bed Slope	1 in 5300	1 in 5500	18.9 cm/km
Bed Width	6.830	5.486	m
F.S.D.	1.378	1.280	m
Velocity	0.59	0.570	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

(CH: 3.950 - 7.700 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	5.23/184.81	4.44/156.96	cum/cusec
Bed Slope	1 in 5200	1 in 5500	19.2 cm/km
Bed Width	6.400	5.486	m
F.S.D.	1.300	1.280	m
Velocity	0.57	0.570	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	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	132.611	132.601	132.592	132.582	132.573	132.564	132.554	132.545	132.535	132.526	132.516	132.507	132.497	132.488	132.479	132.469	132.460	132.450	132.441	132.431	130.833	130.824	130.814	130.805	130.795	130.785	130.776	130.766	130.757	130.747	130.737	130.728
	F.S.L.	132.111	132.101	132.092	132.082	132.073	132.064	132.054	132.045	132.035	132.026	132.016	132.007	131.997	131.988	131.979	131.969	131.960	131.950	131.941	131.931	130.333	130.324	130.314	130.305	130.295	130.285	130.276	130.266	130.257	130.247	130.237	130.228
	Proposed Bed Level	130.733	130.723	130.714	130.704	130.695	130.686	130.676	130.667	130.657	130.648	130.638	130.629	130.619	130.610	130.601	130.591	130.582	130.572	130.563	130.553	129.033	129.024	129.014	129.005	128.995	128.985	128.976	128.966	128.957	128.947	128.937	128.928
EXISTING DATA	Bed Level	130.902	130.893	130.883	130.874	130.865	130.856	130.847	130.839	130.830	130.856	130.844	130.816	130.781	130.754	130.719	130.690	130.657	130.627	130.596	130.447	129.535	129.478	129.418	129.358	129.302	129.241	129.185	129.124	129.068	129.007	129.000
	TOP OF BANK LEVEL	132.088	132.077	132.066	132.055	132.044	132.033	132.036	132.011	132.266	132.122	132.101	132.080	132.059	132.037	132.016	131.995	131.974	131.953	131.942	131.310	131.193	131.076	130.959	130.842	130.725	130.608	130.491	130.374	130.257	130.107	130.284
	NSL	131.886	131.785	131.683	131.582	131.481	131.379	131.278	131.177	131.076	131.423	131.457	131.387	131.317	131.247	131.177	131.107	131.036	130.967	130.896	130.618	130.269	130.141	130.014	129.885	129.758	129.630	129.503	129.374	129.247	129.119	129.025
	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

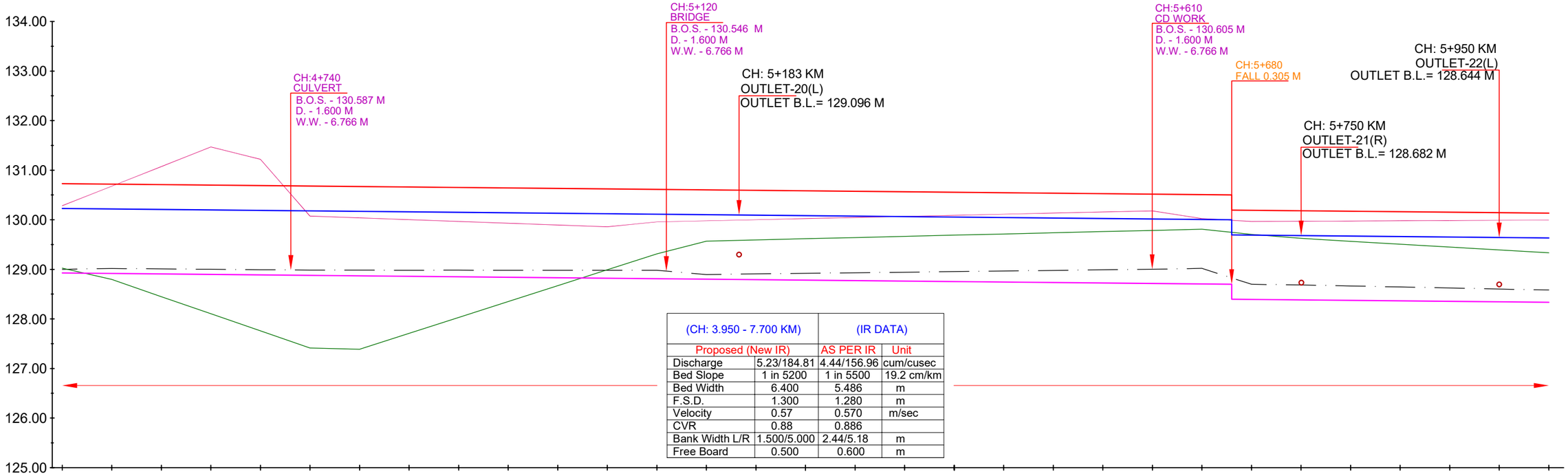
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 03 of 13

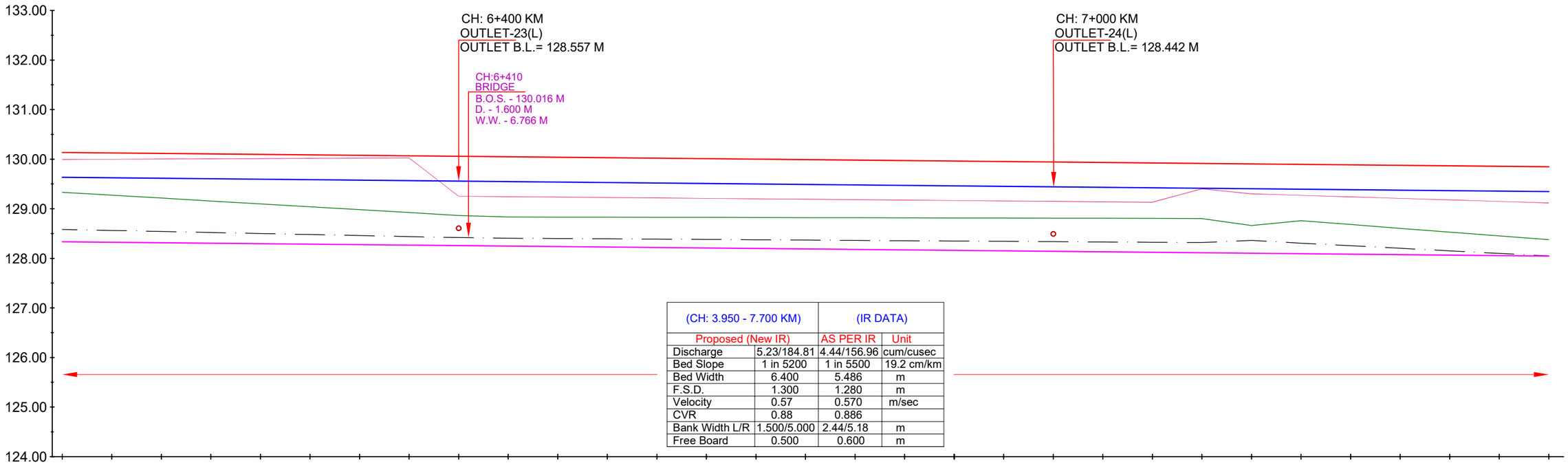
L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 4+500 TO 6+000



(CH: 3.950 - 7.700 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	5.23/184.81	4.44/156.96	cum/cusec
Bed Slope	1 in 5200	1 in 5500	19.2 cm/km
Bed Width	6.400	5.486	m
F.S.D.	1.300	1.280	m
Velocity	0.57	0.570	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

| | | |

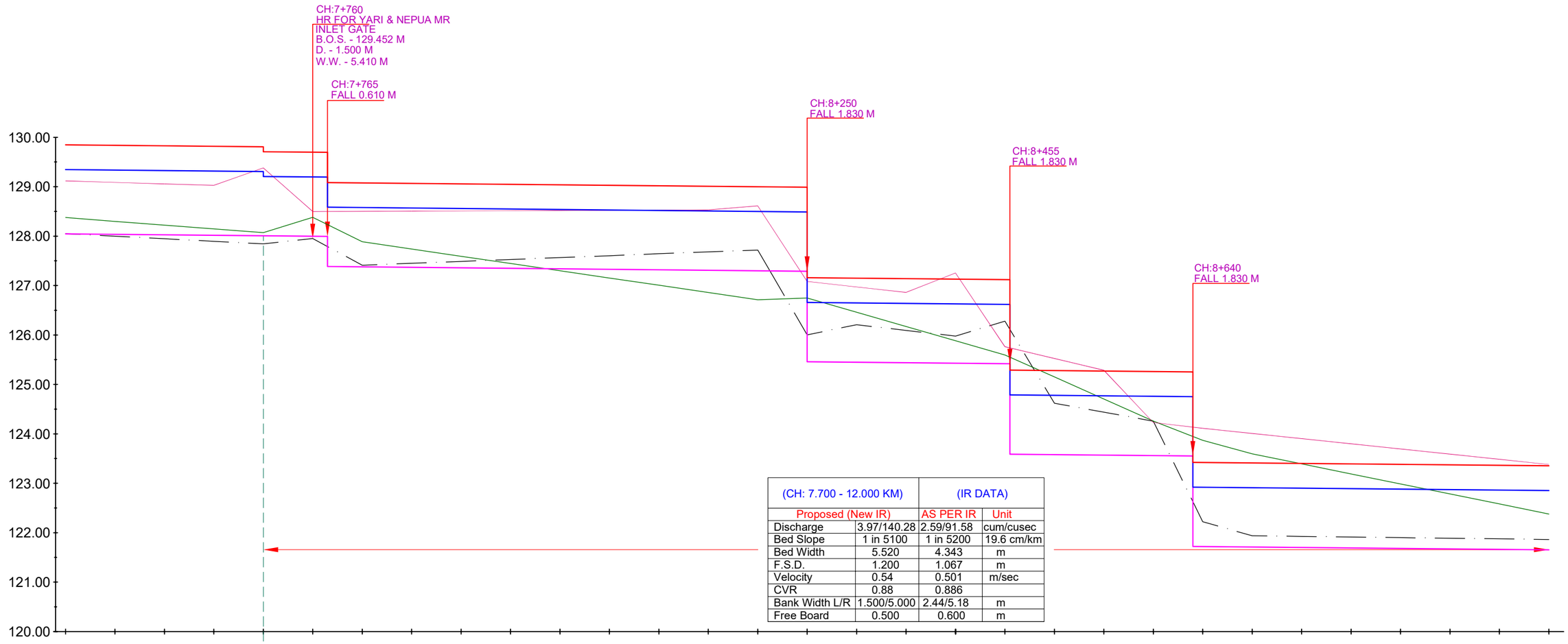
L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 6+000 TO 7+500



(CH: 3.950 - 7.700 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	5.23/184.81	4.44/156.96	cum/cusec
Bed Slope	1 in 5200	1 in 5500	19.2 cm/km
Bed Width	6.400	5.486	m
F.S.D.	1.300	1.280	m
Velocity	0.57	0.570	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

| | | |

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 7+500 TO 9+000



(CH: 7.700 - 12.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.97/140.28	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.520	4.343	m
F.S.D.	1.200	1.067	m
Velocity	0.54	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

DESIGN DATA	TOP OF BANK LEVEL	129.846	129.836	129.827	129.817	129.807	129.707	129.697	129.695	129.085	129.078	129.068	129.058	129.048	129.038	129.029	129.019	129.009	128.999	128.989	127.159	127.150	127.140	127.130	127.120	127.119	125.289	125.280	125.271	125.261	125.253	123.423	123.421	123.411	123.401	123.392	123.382	123.372	123.362	123.352
	F.S.L.	129.346	129.336	129.327	129.317	129.307	129.207	129.197	129.195	128.585	128.578	128.568	128.558	128.548	128.538	128.529	128.519	128.509	128.499	128.489	126.659	126.650	126.640	126.630	126.620	126.619	124.789	124.780	124.771	124.761	124.753	122.923	122.921	122.911	122.901	122.892	122.882	122.872	122.862	122.852
	Proposed Bed Level	128.046	128.036	128.027	128.017	128.007	127.997	127.995	127.385	127.378	127.368	127.358	127.348	127.338	127.329	127.319	127.309	127.299	127.289	125.459	125.450	125.440	125.430	125.420	125.419	123.589	123.580	123.571	123.561	123.553	121.723	121.721	121.711	121.701	121.692	121.682	121.672	121.662	121.652	
EXISTING DATA	Bed Level	128.049	127.998	127.947	127.895	127.844	127.952	127.411	127.450	127.488	127.527	127.566	127.604	127.644	127.680	127.718	126.003	126.208	126.093	125.977	126.279	124.619	124.440	124.255	122.223	121.938	121.925	121.912	121.900	121.887	121.875	121.862								
	TOP OF BANK LEVEL	129.118	129.087	129.057	129.027	129.380	128.498	128.502	128.506	128.510	128.514	128.518	128.522	128.526	128.530	128.613	127.084	126.972	126.861	127.254	125.763	125.525	125.287	124.230	124.112	124.008	123.903	123.798	123.694	123.589	123.485	123.380								
	NSL	128.376	128.299	128.222	128.146	128.069	128.379	127.886	127.740	127.593	127.447	127.300	127.153	127.007	126.860	126.713	126.747	126.459	126.171	125.884	125.594	125.152	124.705	124.258	123.868	123.595	123.392	123.189	122.987	122.784	122.581	122.378								
	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								

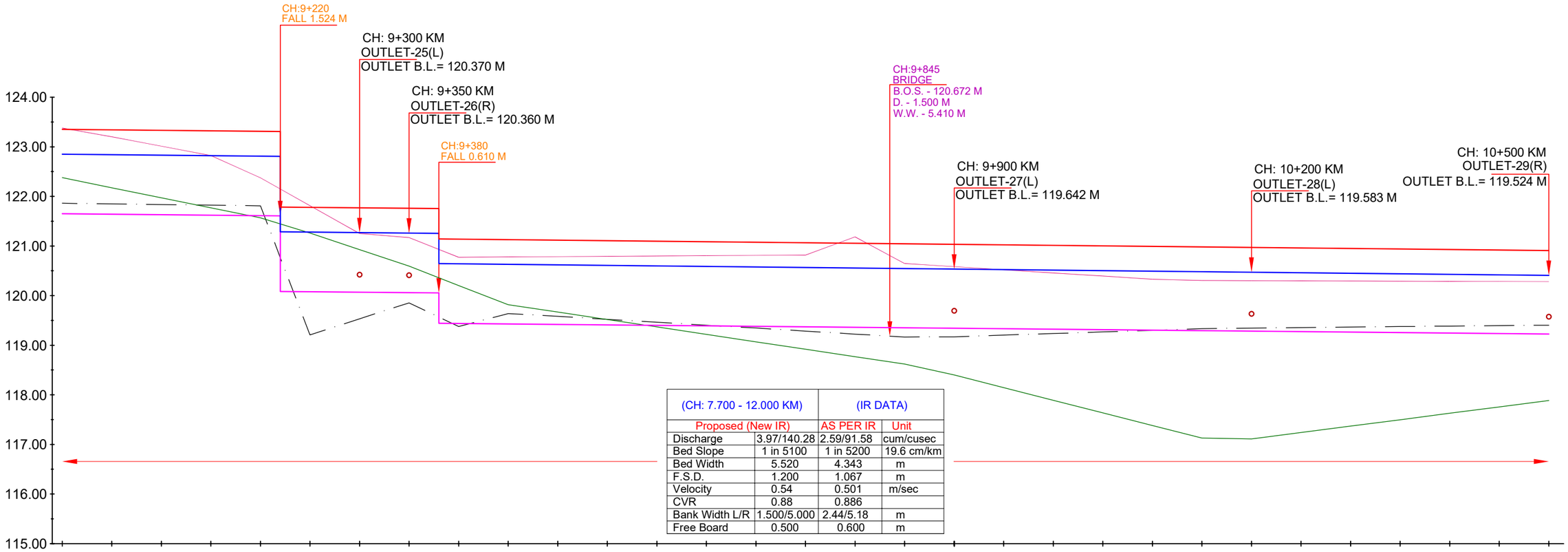
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 06 of 13

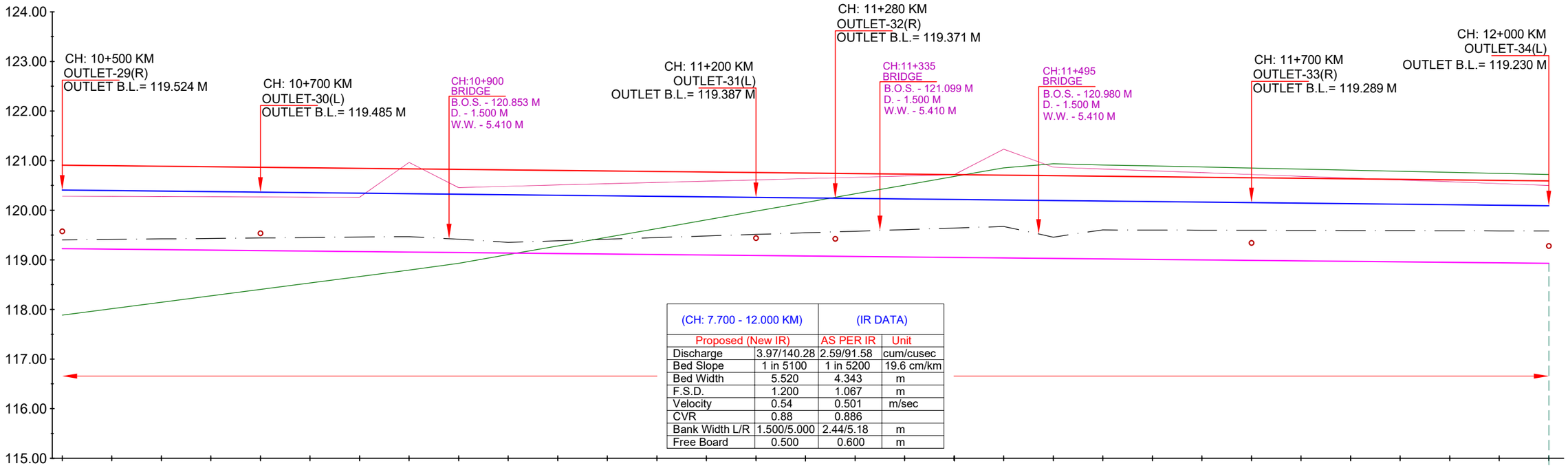
L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 9+000 TO 10+500



(CH: 7.700 - 12.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.97/140.28	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.520	4.343	m
F.S.D.	1.200	1.067	m
Velocity	0.54	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

| | | |

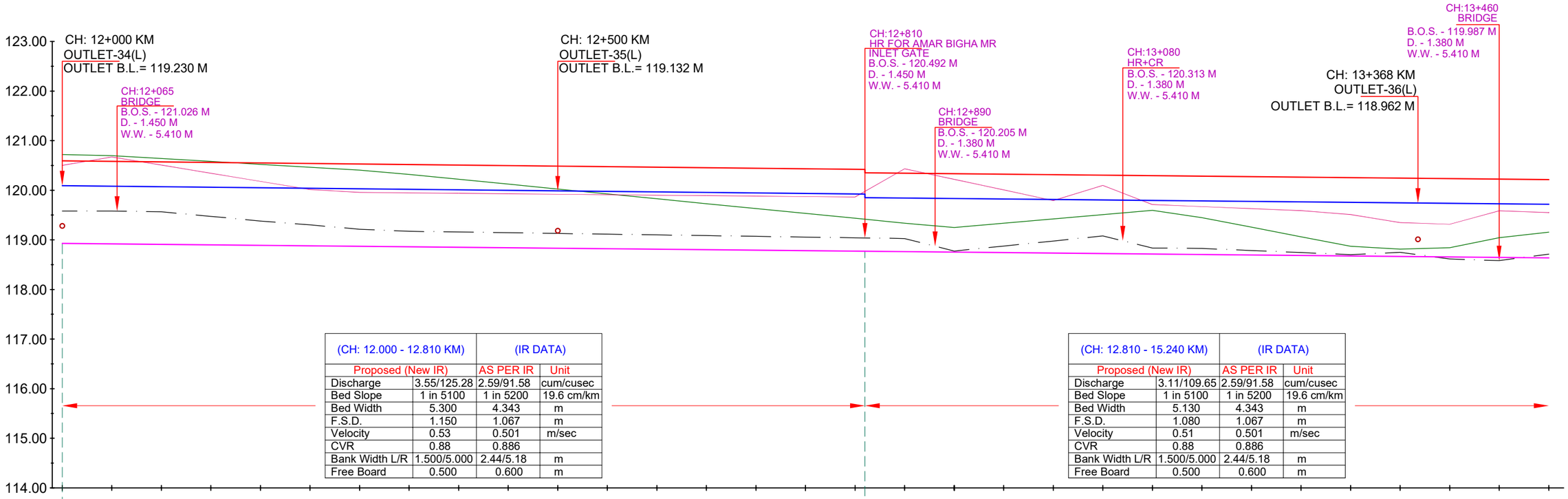
L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 10+500 TO 12+000



(CH: 7.700 - 12.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.97/140.28	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.520	4.343	m
F.S.D.	1.200	1.067	m
Velocity	0.54	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

| | | |

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 12+000 TO 13+500



(CH: 12.000 - 12.810 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.55/125.28	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.300	4.343	m
F.S.D.	1.150	1.067	m
Velocity	0.53	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

(CH: 12.810 - 15.240 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.11/109.65	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.130	4.343	m
F.S.D.	1.080	1.067	m
Velocity	0.51	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

DESIGN DATA	TOP OF BANK LEVEL	120.580	120.570	120.561	120.551	120.541	120.531	120.521	120.512	120.502	120.492	120.482	120.472	120.463	120.453	120.443	120.433	120.423	120.421	120.343	120.334	120.324	120.314	120.304	120.294	120.285	120.275	120.265	120.255	120.245	120.236	120.226	120.216
	F.S.L.	120.080	120.070	120.061	120.051	120.041	120.031	120.021	120.012	120.002	119.992	119.982	119.972	119.963	119.953	119.943	119.933	119.923	119.851	119.843	119.834	119.824	119.814	119.804	119.794	119.785	119.775	119.765	119.755	119.745	119.736	119.726	119.716
	Proposed Bed Level	118.930	118.920	118.911	118.901	118.891	118.881	118.871	118.862	118.852	118.842	118.832	118.822	118.813	118.803	118.793	118.783	118.773	118.771	118.763	118.754	118.744	118.734	118.724	118.714	118.705	118.695	118.685	118.675	118.665	118.656	118.646	118.636
EXISTING DATA	Bed Level	119.582	119.580	119.565	119.474	119.380	119.302	119.214	119.172	119.158	119.144	119.129	119.115	119.100	119.086	119.071	119.056	119.042	119.027	118.775	118.875	118.977	119.079	118.836	118.827	118.786	118.744	118.703	118.749	118.616	118.581	118.712	
	TOP OF BANK LEVEL	120.501	120.672	120.508	120.343	120.179	120.015	119.956	119.947	119.938	119.929	119.920	119.911	119.901	119.892	119.883	119.873	119.864	120.434	120.221	120.007	119.793	120.100	119.713	119.671	119.630	119.589	119.510	119.348	119.314	119.586	119.551	
	NSL	120.721	120.698	120.640	120.582	120.523	120.465	120.407	120.320	120.222	120.124	120.025	119.927	119.829	119.730	119.632	119.533	119.435	119.337	119.249	119.335	119.422	119.508	119.595	119.448	119.255	119.063	118.870	118.815	118.841	119.044	119.155	
	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+810	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

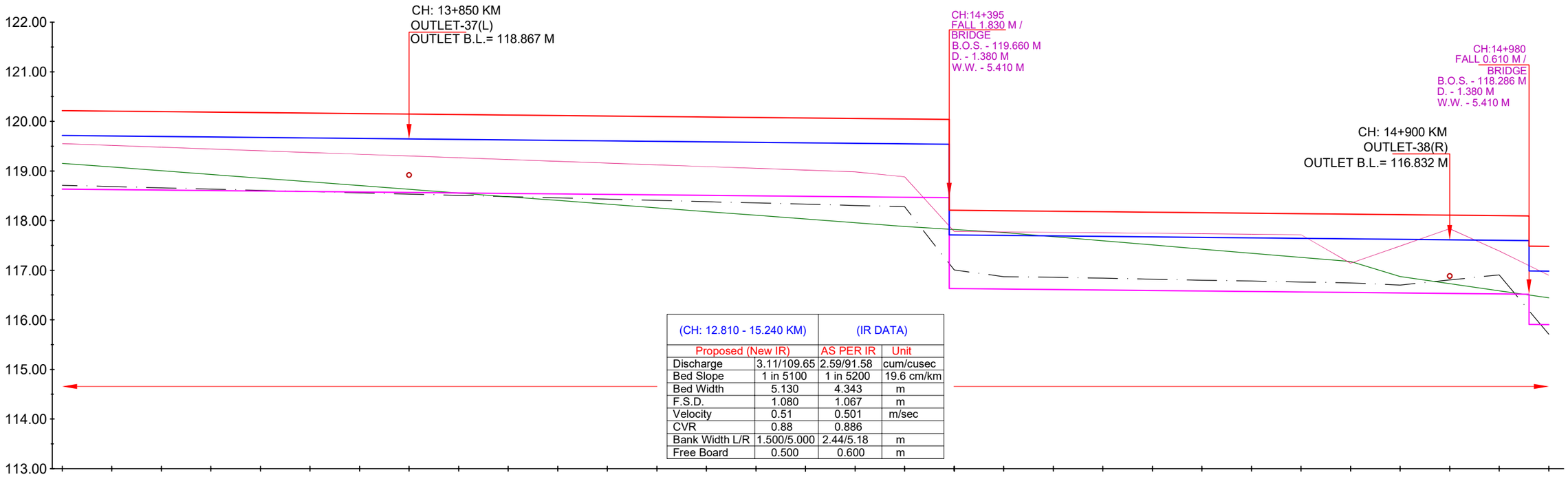
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 09 of 13

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 13+500 TO 15+000



(CH: 12.810 - 15.240 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.11/109.65	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.130	4.343	m
F.S.D.	1.080	1.067	m
Velocity	0.51	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

DESIGN DATA	TOP OF BANK LEVEL	120.216	120.206	120.196	120.187	120.177	120.167	120.157	120.147	120.138	120.128	120.118	120.108	120.098	120.089	120.079	120.069	120.059	120.049	120.041	118.211	118.210	118.200	118.190	118.180	118.170	118.161	118.151	118.141	118.131	118.121	118.112	118.102	118.096	117.486	117.482
	F.S.L.	119.716	119.706	119.696	119.687	119.677	119.667	119.657	119.647	119.638	119.628	119.618	119.608	119.598	119.589	119.579	119.569	119.559	119.549	119.541	117.711	117.710	117.700	117.690	117.680	117.670	117.661	117.651	117.641	117.631	117.621	117.612	117.602	117.596	116.986	116.982
	Proposed Bed Level	118.636	118.626	118.616	118.607	118.597	118.587	118.577	118.567	118.558	118.548	118.538	118.528	118.518	118.509	118.499	118.489	118.479	118.469	118.461	116.631	116.630	116.620	116.610	116.600	116.590	116.581	116.571	116.561	116.551	116.541	116.532	116.522	116.516	115.906	115.902
EXISTING DATA	Bed Level	118.712	118.687	118.661	118.636	118.610	118.585	118.559	118.534	118.509	118.483	118.458	118.432	118.407	118.381	118.356	118.331	118.305	118.280	118.254	117.005	116.870	116.857	116.839	116.819	116.798	116.781	116.762	116.744	116.700	116.803	116.906	115.708			
	TOP OF BANK LEVEL	119.551	119.515	119.480	119.444	119.409	119.373	119.338	119.302	119.267	119.231	119.196	119.160	119.124	119.089	119.054	119.018	118.982	118.884	117.783	117.773	117.763	117.754	117.745	117.735	117.726	117.716	117.140	117.488	117.837	117.388	116.898				
	NSL	119.155	119.080	119.005	118.931	118.856	118.781	118.706	118.631	118.556	118.481	118.406	118.331	118.256	118.181	118.107	118.032	117.957	117.882	117.822	117.760	117.676	117.593	117.509	117.425	117.342	117.258	117.175	116.872	116.729	116.586	116.444				
	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

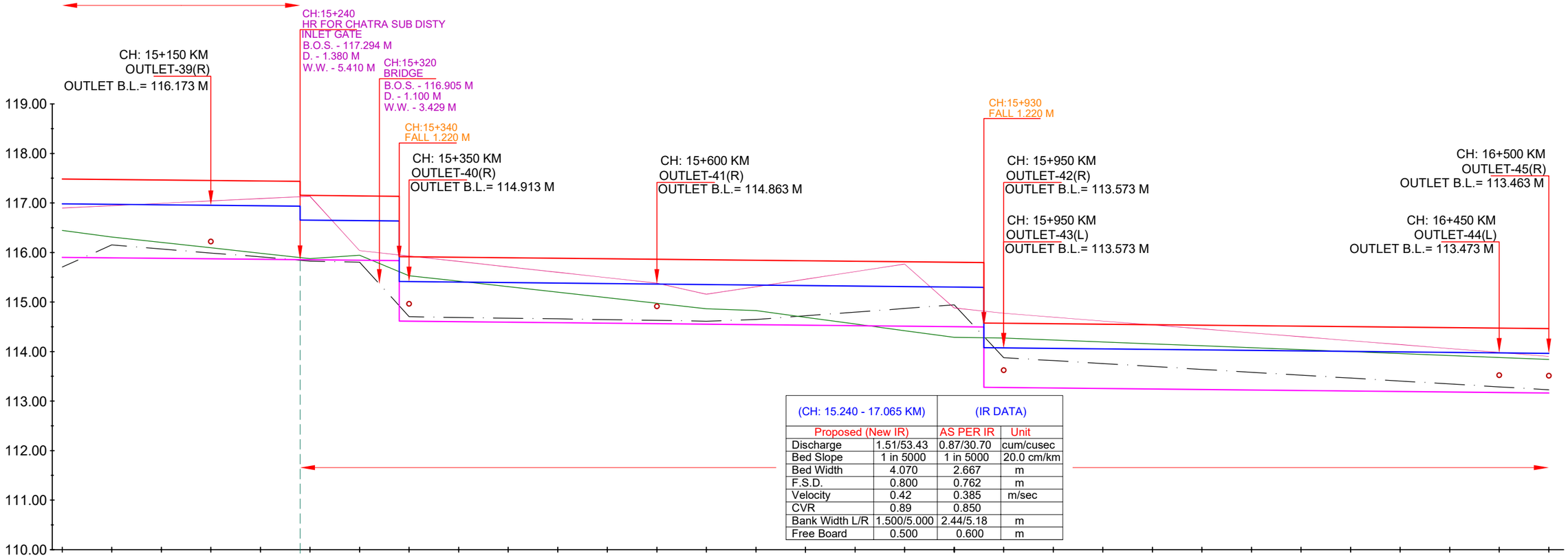
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING FALL		PROPOSED FSL	
MODIFIED FALL		PROPOSED TOP OF BANK LEVEL	
NEW FALL			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 10 of 13

L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 15+000 TO 16+500

(CH: 12.810 - 15.240 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	3.11/109.65	2.59/91.58	cum/cusec
Bed Slope	1 in 5100	1 in 5200	19.6 cm/km
Bed Width	5.130	4.343	m
F.S.D.	1.080	1.067	m
Velocity	0.51	0.501	m/sec
CVR	0.88	0.886	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m



(CH: 15.240 - 17.065 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.51/53.43	0.87/30.70	cum/cusec
Bed Slope	1 in 5000	1 in 5000	20.0 cm/km
Bed Width	4.070	2.667	m
F.S.D.	0.800	0.762	m
Velocity	0.42	0.385	m/sec
CVR	0.89	0.850	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

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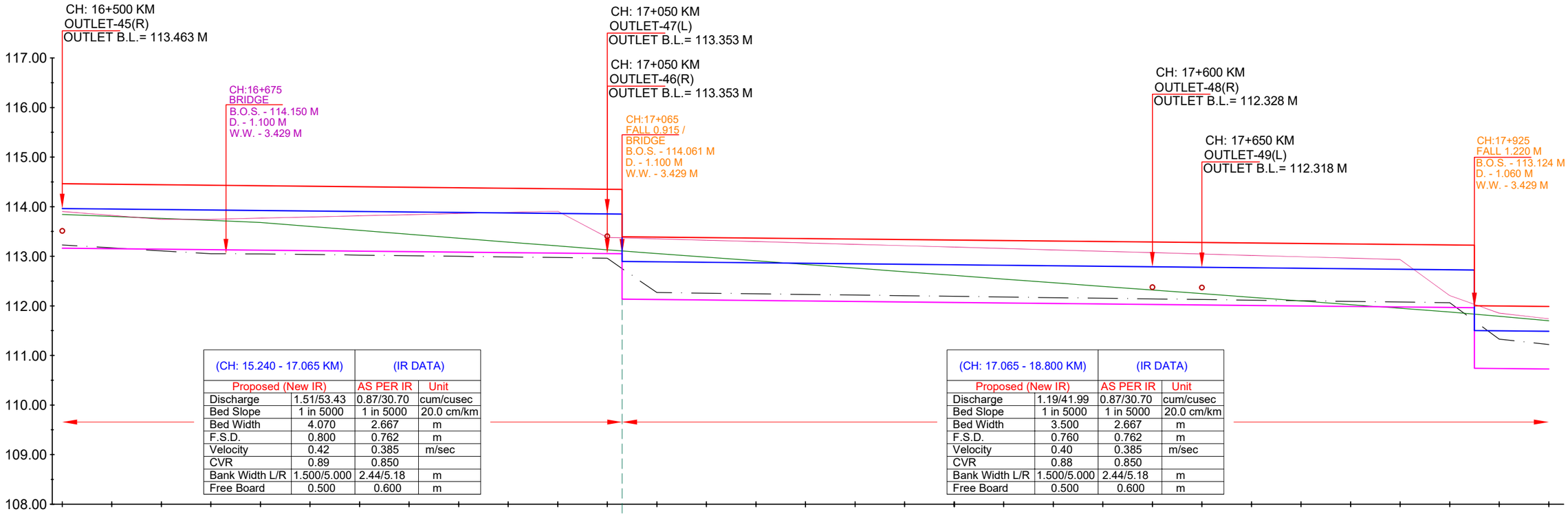
L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 16+500 TO 18+000



(CH: 15.240 - 17.065 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.51/53.43	0.87/30.70	cum/cusec
Bed Slope	1 in 5000	1 in 5000	20.0 cm/km
Bed Width	4.070	2.667	m
F.S.D.	0.800	0.762	m
Velocity	0.42	0.385	m/sec
CVR	0.89	0.850	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

(CH: 17.065 - 18.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.19/41.99	0.87/30.70	cum/cusec
Bed Slope	1 in 5000	1 in 5000	20.0 cm/km
Bed Width	3.500	2.667	m
F.S.D.	0.760	0.762	m
Velocity	0.40	0.385	m/sec
CVR	0.88	0.850	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

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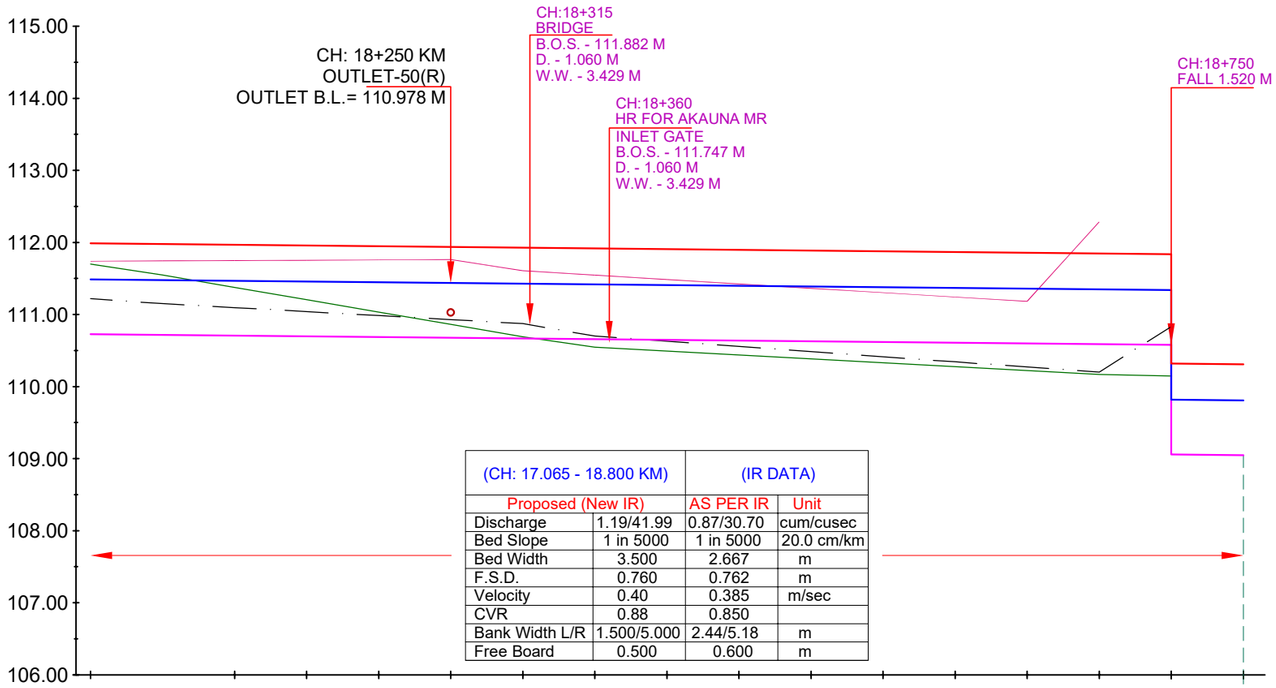
L- SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)
FROM CH 18+000 TO 18+800



(CH: 17.065 - 18.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.19/41.99	0.87/30.70	cum/cusec
Bed Slope	1 in 5000	1 in 5000	20.0 cm/km
Bed Width	3.500	2.667	m
F.S.D.	0.760	0.762	m
Velocity	0.40	0.385	m/sec
CVR	0.88	0.850	
Bank Width L/R	1.500/5.000	2.44/5.18	m
Free Board	0.500	0.600	m

		18+000	18+050	18+100	18+150	18+200	18+250	18+300	18+350	18+400	18+450	18+500	18+550	18+600	18+650	18+700	18+750	18+800
DESIGN DATA	TOP OF BANK LEVEL	111.988	111.978	111.968	111.958	111.948	111.938	111.928	111.918	111.908	111.898	111.888	111.878	111.868	111.858	111.848	111.838 110.318	110.308
	F.S.L.	111.488	111.478	111.468	111.458	111.448	111.438	111.428	111.418	111.408	111.398	111.388	111.378	111.368	111.358	111.348	111.338 109.818	109.808
	Proposed Bed Level	110.728	110.718	110.708	110.698	110.688	110.678	110.668	110.658	110.648	110.638	110.628	110.618	110.608	110.598	110.588	110.578 109.058	109.048
EXISTING DATA	Bed Level	111.220	111.151	111.096	111.040	110.985	110.929	110.874	110.701	110.629	110.558	110.486	110.414	110.343	110.271	110.199	110.833	
	TOP OF BANK LEVEL	111.740	111.744	111.749	111.753	111.758	111.762	111.607	111.546	111.486	111.425	111.364	111.303	111.242	111.182	112.285		
	NSL	111.699	111.547	111.376	111.205	111.034	110.863	110.692	110.547	110.493	110.439	110.384	110.330	110.276	110.222	110.168	110.148	
	Chainage IN KM																	

LEGEND

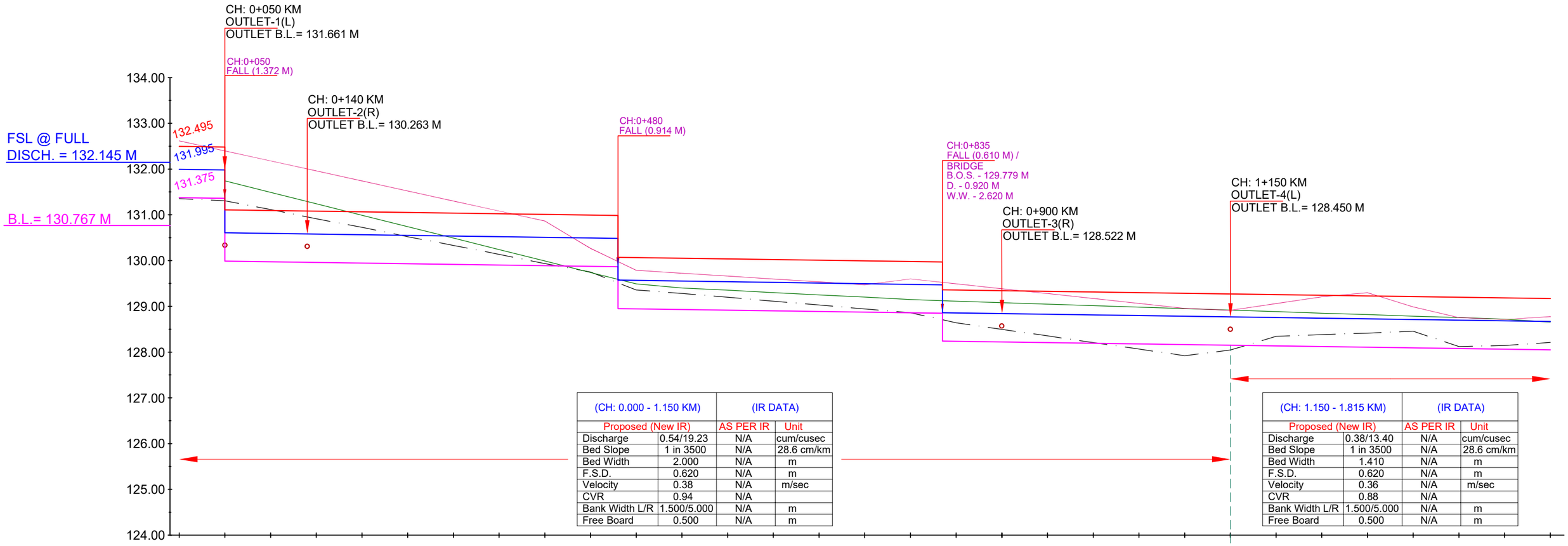
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING FALL		PROPOSED FSL
	MODIFIED FALL		PROPOSED TOP OF BANK LEVEL
	NEW FALL		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ LSEC- 13 of 13

NARCHI MINOR

L- SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 1.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.54/19.23	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	2.000	N/A	m
F.S.D.	0.620	N/A	m
Velocity	0.38	N/A	m/sec
CVR	0.94	N/A	
Bank Width L/R	1.500/5.000	N/A	m
Free Board	0.500	N/A	m

(CH: 1.150 - 1.815 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.38/13.40	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	1.410	N/A	m
F.S.D.	0.620	N/A	m
Velocity	0.36	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

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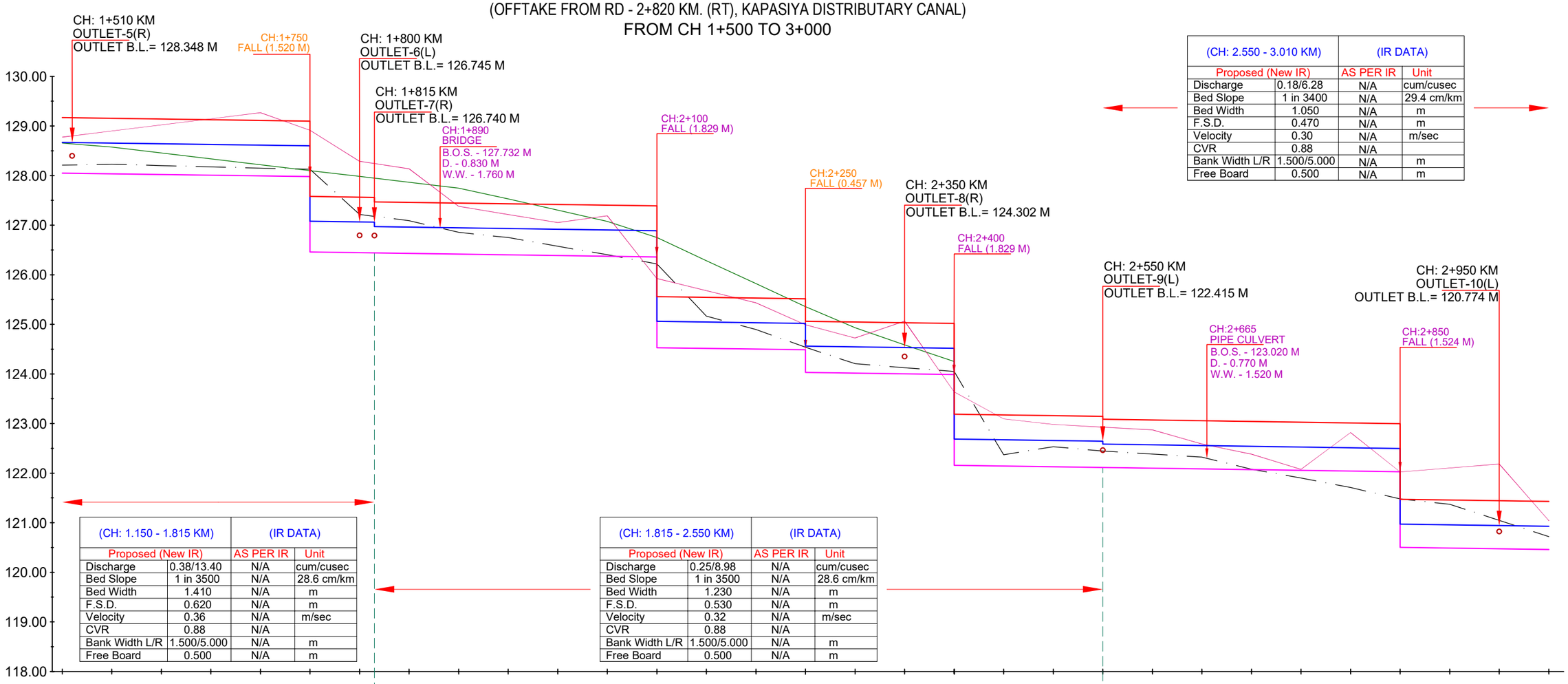
L- SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 2.550 - 3.010 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.18/6.28	N/A	cum/cusec
Bed Slope	1 in 3400	N/A	29.4 cm/km
Bed Width	1.050	N/A	m
F.S.D.	0.470	N/A	m
Velocity	0.30	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: 1.150 - 1.815 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.38/13.40	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	1.410	N/A	m
F.S.D.	0.620	N/A	m
Velocity	0.36	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: 1.815 - 2.550 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.25/8.98	N/A	cum/cusec
Bed Slope	1 in 3500	N/A	28.6 cm/km
Bed Width	1.230	N/A	m
F.S.D.	0.530	N/A	m
Velocity	0.32	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

		1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+815	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	129.170	129.156	129.142	129.128	129.113	129.099 / 127.579	127.565 / 127.470		127.460	127.446	127.432	127.418	127.403	127.389 / 125.560	125.546	125.531	125.517 / 125.060	125.046	125.032	125.017 / 123.188	123.174	123.160	123.145 / 123.085	123.071	123.056	123.041	123.027	123.012	122.997 / 121.473	121.458	121.444	121.429
	F.S.L.	128.670	128.656	128.642	128.628	128.613	128.599 / 127.079	127.065 / 126.970		126.960	126.946	126.932	126.918	126.903	126.889 / 125.060	125.046	125.031	125.017 / 124.560	124.546	124.532	124.517 / 122.688	122.674	122.660	122.645 / 122.585	122.571	122.556	122.541	122.527	122.512	122.497 / 120.973	120.958	120.944	120.929
	Proposed Bed Level	128.050	128.036	128.022	128.008	127.993	127.979 / 126.459	126.445 / 126.440		126.430	126.416	126.402	126.388	126.373	126.359 / 124.530	124.516	124.501	124.487 / 124.030	124.016	124.002	123.987 / 122.158	122.144	122.130	122.115	122.101	122.086	122.071	122.057	122.042	122.027 / 120.503	120.488	120.474	120.459
EXISTING DATA	Bed Level	128.210	128.228	128.202	128.176	128.151	128.127	127.216		127.091	126.855	126.751	126.574	126.405	126.219	125.168	124.896	124.539	124.207	124.126	124.050	122.370	122.533	122.445	122.384	122.323	122.078	121.903	121.709	121.481	121.373	121.047	120.720
	TOP OF BANK LEVEL	128.776	128.899	129.022	129.145	129.268	128.914	128.288		128.137	127.380	127.216	127.052	127.189	125.924	125.680	125.435	124.992	124.724	125.066	123.638	123.095	122.983	122.927	122.872	122.587	122.382	122.076	122.820	122.024	122.104	122.183	121.044
	NSL	128.655	128.575	128.457	128.338	128.220	128.101	127.983		127.864	127.745	127.529	127.303	127.077	126.751	126.285	125.821	125.357	124.931	124.587	124.251	123.915	123.586	123.299	123.036	122.773	122.624	122.432	122.160	121.889	121.619	121.348	121.077
	Chainage IN KM																																

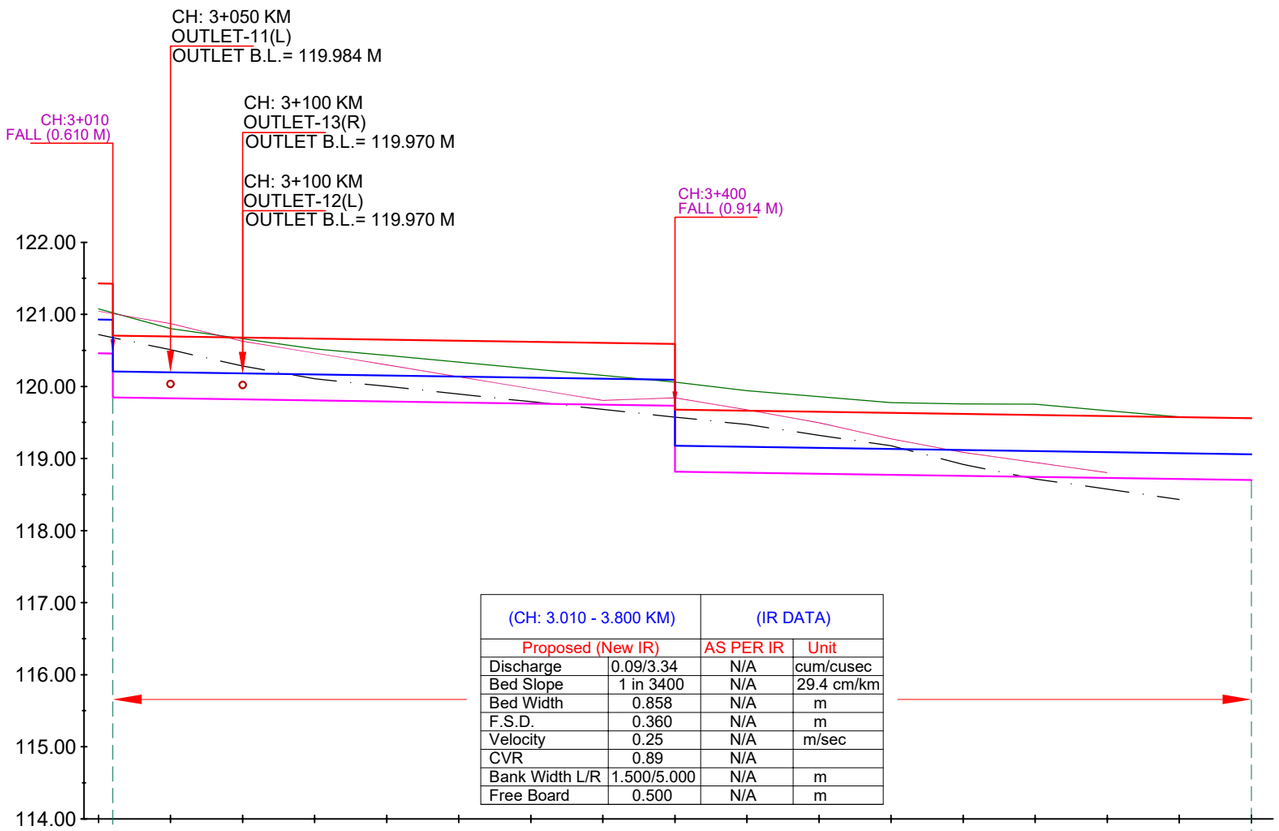
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ LSEC- 02 of 03

L- SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 3+800



(CH: 3.010 - 3.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.09/3.34	N/A	cum/cusec
Bed Slope	1 in 3400	N/A	29.4 cm/km
Bed Width	0.858	N/A	m
F.S.D.	0.360	N/A	m
Velocity	0.25	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

		3+000	3+010	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
DESIGN DATA	TOP OF BANK LEVEL	121.429	121.426	120.694	120.680	120.665	120.650	120.636	120.621	120.606	120.591	119.663	119.648	119.633	119.619	119.604	119.589	119.574	119.560
	F.S.L.	120.929	120.926	120.194	120.180	120.165	120.150	120.136	120.121	120.106	120.091	119.163	119.148	119.133	119.119	119.104	119.089	119.074	119.060
	Proposed Bed Level	120.459	120.456	119.834	119.820	119.805	119.790	119.776	119.761	119.746	119.731	118.803	118.788	118.773	118.759	118.744	118.729	118.714	118.700
EXISTING DATA	Bed Level	120.720		120.509	120.282	120.107	120.001	119.894	119.788	119.681	119.575	119.472	119.322	119.177	118.918	118.716	118.576	118.430	
	TOP OF BANK LEVEL	121.044		120.874	120.628	120.464	120.299	120.134	119.970	119.805	119.843	119.677	119.496	119.273	119.085	118.945	118.806		
	NSL	121.077		120.804	120.661	120.522	120.430	120.337	120.245	120.153	120.061	119.941	119.858	119.775	119.757	119.753	119.665	119.577	
	Chainage IN KM																		

LEGEND

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

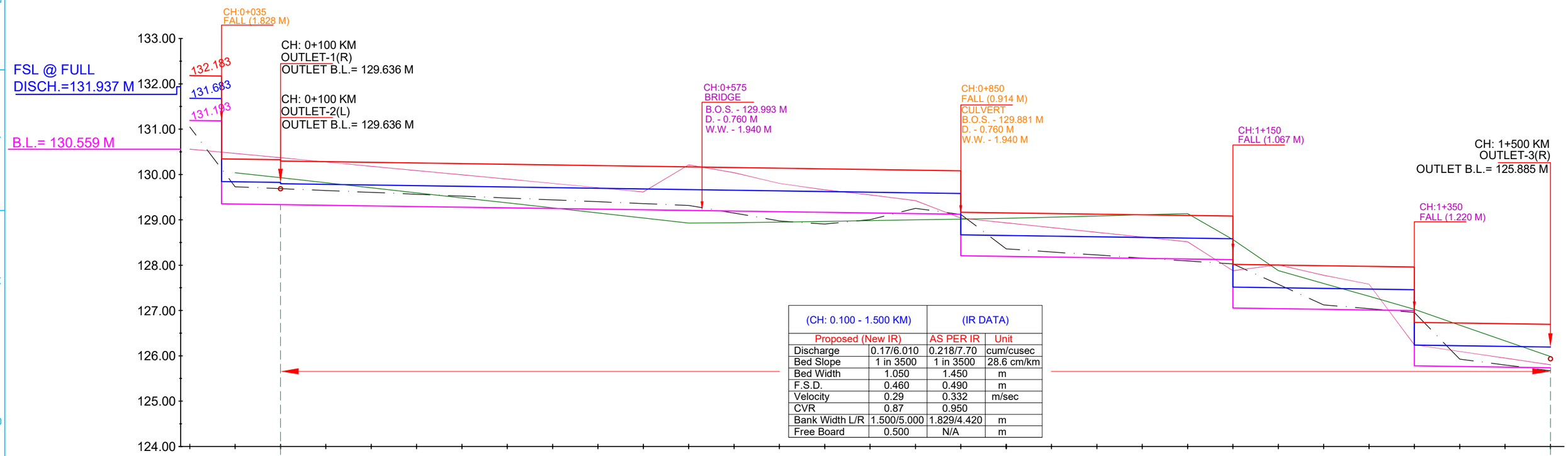
IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ LSEC- 03 of 03

BAHUARA MINOR

L- SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500

(CH: 0.000 - 0.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.25/8.830	0.218/7.70	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.370	1.450	m
F.S.D.	0.490	0.490	m
Velocity	0.32	0.332	m/sec
CVR	0.91	0.950	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m



(CH: 0.100 - 1.500 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.17/6.010	0.218/7.70	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.050	1.450	m
F.S.D.	0.460	0.490	m
Velocity	0.29	0.332	m/sec
CVR	0.87	0.950	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m

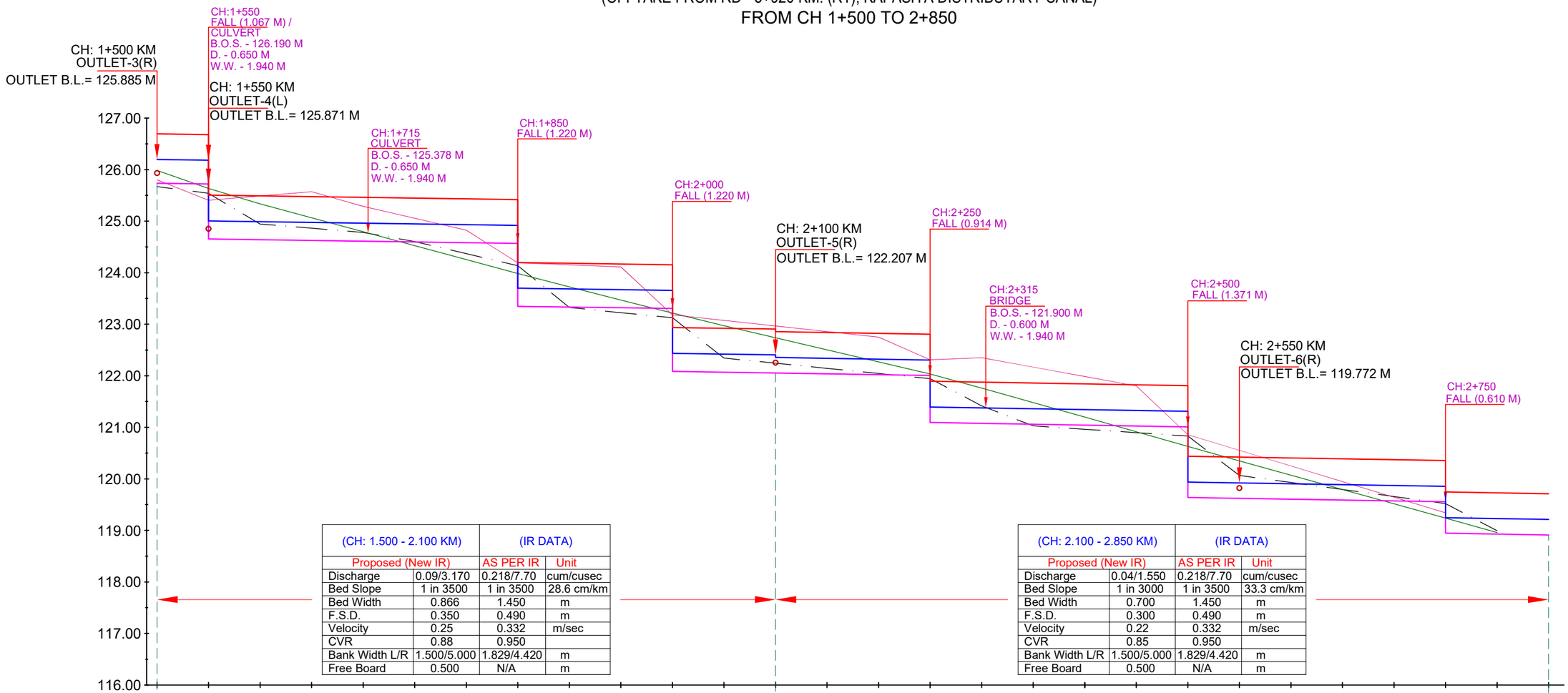
		0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL	132.183	132.173	130.326	130.282	130.268	130.253	130.239	130.225	130.210	130.196	130.182	130.168	130.153	130.139	130.125	130.110	130.096	130.082	129.154	129.139	129.125	129.111	129.096	129.082	128.001	127.987	127.972	127.958	126.724	126.709	126.695
	F.S.L.	131.683	131.673	129.826	129.782	129.768	129.753	129.739	129.725	129.710	129.696	129.682	129.668	129.653	129.639	129.625	129.610	129.596	129.582	128.654	128.639	128.625	128.611	128.596	128.582	127.501	127.487	127.472	127.458	126.224	126.209	126.195
	Proposed Bed Level	131.193	131.183	129.336	129.322	129.308	129.293	129.279	129.265	129.250	129.236	129.222	129.208	129.193	129.179	129.165	129.150	129.136	129.122	128.194	128.179	128.165	128.151	128.136	128.122	127.041	127.027	127.012	126.998	125.764	125.749	125.735
EXISTING DATA	Bed Level	131.047	129.730	129.688	129.647	129.606	129.564	129.523	129.481	129.440	129.399	129.358	129.316	129.150	128.975	128.906	129.004	129.252	129.121	128.361	128.290	128.226	128.156	128.092	128.027	127.577	127.125	127.040	126.957	125.928	125.799	125.670
	TOP OF BANK LEVEL	130.560	130.466	130.371	130.276	130.182	130.088	129.994	129.899	129.805	129.711	129.616	130.212	130.040	129.804	129.662	129.550	129.424	129.038	128.934	128.830	128.726	128.622	128.517	127.877	128.008	127.779	127.582	126.244	126.097	125.950	125.803
	NSL		130.040	129.929	129.818	129.707	129.596	129.485	129.374	129.263	129.152	129.041	128.930	128.934	128.950	128.966	128.983	128.999	129.015	129.034	129.060	129.085	129.111	129.137	128.566	127.880	127.597	127.313	127.026	126.676	126.330	125.983
	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 FALL		PROPOSED FSL	
MODIFIED FALL		PROPOSED TOP OF BANK LEVEL	
NEW FALL			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ LSEC- 01 of 02

L- SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 2+850



(CH: 1.500 - 2.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.09/3.170	0.218/7.70	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.866	1.450	m
F.S.D.	0.350	0.490	m
Velocity	0.25	0.332	m/sec
CVR	0.88	0.950	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m

(CH: 2.100 - 2.850 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.04/1.550	0.218/7.70	cum/cusec
Bed Slope	1 in 3000	1 in 3500	33.3 cm/km
Bed Width	0.700	1.450	m
F.S.D.	0.300	0.490	m
Velocity	0.22	0.332	m/sec
CVR	0.85	0.950	
Bank Width L/R	1.500/5.000	1.829/4.420	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
DESIGN DATA	TOP OF BANK LEVEL	126.695	126.681 125.504	125.490	125.475	125.461	125.447	125.432	125.418 124.198	124.184	124.170	124.155 122.935	122.921	122.907 122.857	122.840	122.823	122.807 121.893	121.876	121.859	121.843	121.826	121.809 120.438	120.422	120.405	120.388	120.372	120.355 119.745	119.728	119.712
	F.S.L.	126.195	126.181 125.004	124.990	124.975	124.961	124.947	124.932	124.918 123.698	123.684	123.670	123.655 122.435	122.421	122.407 122.357	122.340	122.323	122.307 121.393	121.376	121.359	121.343	121.326	121.309 119.938	119.922	119.905	119.888	119.872	119.855 119.245	119.228	119.212
	Proposed Bed Level	125.735	125.721 124.654	124.640	124.625	124.611	124.597	124.582	124.568 123.348	123.334	123.320	123.305 122.085	122.071	122.057	122.040	122.023	122.007 121.093	121.076	121.059	121.043	121.026	121.009 119.638	119.622	119.605	119.588	119.572	119.555 118.945	118.928	118.912
EXISTING DATA	Bed Level	125.670	125.540	124.944	124.864	124.781	124.604	124.370	124.135	123.326	123.223	123.125	122.343	122.245	122.143	122.044	121.945	121.416	121.028	120.962	120.897	120.831	120.067	119.930	119.794	119.657	119.521	118.994	
	TOP OF BANK LEVEL	125.803	125.406	125.490	125.573	125.287	125.056	124.825	124.191	124.152	124.113	123.183	123.075	122.967	122.859	122.751	122.309	122.350	122.168	121.987	121.805	120.857	120.554	120.251	119.948	119.645	119.341		
	NSL	125.983	125.636	125.336	125.065	124.794	124.524	124.255	123.984	123.724	123.470	123.216	122.971	122.737	122.503	122.270	122.036	121.762	121.481	121.198	120.915	120.631	120.350	120.072	119.794	119.515	119.237	118.959	
	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

LEGEND

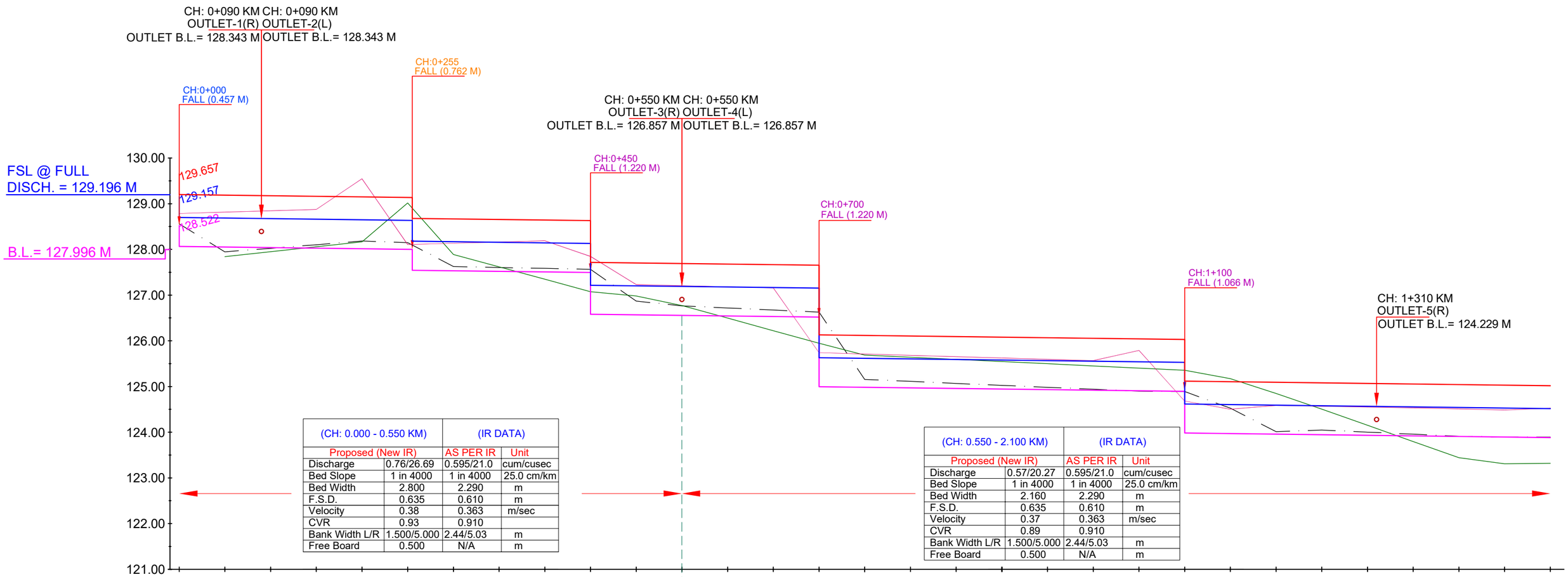
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING FALL		PROPOSED FSL	
MODIFIED FALL		PROPOSED TOP OF BANK LEVEL	
NEW FALL			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ LSEC- 02 of 02

YARI MINOR

L- SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 0.550 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.76/26.69	0.595/21.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.800	2.290	m
F.S.D.	0.635	0.610	m
Velocity	0.38	0.363	m/sec
CVR	0.93	0.910	
Bank Width L/R	1.500/5.000	2.44/5.03	m
Free Board	0.500	N/A	m

(CH: 0.550 - 2.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.57/20.27	0.595/21.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.160	2.290	m
F.S.D.	0.635	0.610	m
Velocity	0.37	0.363	m/sec
CVR	0.89	0.910	
Bank Width L/R	1.500/5.000	2.44/5.03	m
Free Board	0.500	N/A	m

		0+000	0+050	0+090	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+310	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL	129.657 129.200	129.188	129.175		129.163	129.150	129.138 129.136	128.668	128.656	128.643	128.631 127.717	127.704	127.692	127.679	127.667	127.654 126.130	126.118	126.105	126.093	126.080	126.068	126.055	126.043	126.030 125.116	125.104	125.091	125.079	125.066	125.054	125.041	125.029	125.016
	F.S.L.	129.157 128.700	128.688	128.675		128.663	128.650	128.638 128.636	128.168	128.156	128.143	128.131 127.217	127.204	127.192	127.179	127.167	127.154 125.630	125.618	125.605	125.593	125.580	125.568	125.555	125.543	125.530 124.616	124.604	124.591	124.579	124.566	124.554	124.541	124.529	124.516
	Proposed Bed Level	128.522 128.065	128.053	128.040		128.028	128.015	128.003 128.001	127.533	127.521	127.508	127.496 126.582	126.569	126.557	126.544	126.532	126.519 124.995	124.983	124.970	124.958	124.945	124.933	124.920	124.908	124.895 123.981	123.969	123.956	123.944	123.931	123.919	123.906	123.894	123.881
EXISTING DATA	Bed Level	128.560	127.948	128.022		128.103	128.185	128.150	127.625	127.603	127.585	127.565	126.870	126.765	126.719	126.673	126.628	125.154	125.114	125.067	125.025	124.982	124.941	124.897	124.890	124.527	124.012	124.047	124.002	123.956	123.912	123.892	123.893
	TOP OF BANK LEVEL	128.786	128.816	128.845		128.875	129.546	128.106	128.134	128.162	128.190	127.848	127.232	127.207	127.183	127.158	125.741	125.712	125.683	125.654	125.624	125.595	125.565	125.791	124.682	124.502	124.588	124.570	124.552	124.533	124.511	124.486	124.525
	NSL		127.841	127.949		128.058	128.166	129.017	127.888	127.617	127.347	127.076	126.982	126.771	126.497	126.222	125.948	125.687	125.640	125.593	125.545	125.498	125.450	125.403	125.355	125.173	124.848	124.507	124.152	123.796	123.441	123.309	123.318
	Chainage IN KM	0+000	0+050	0+090	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+310	1+350	1+400	1+450	1+500

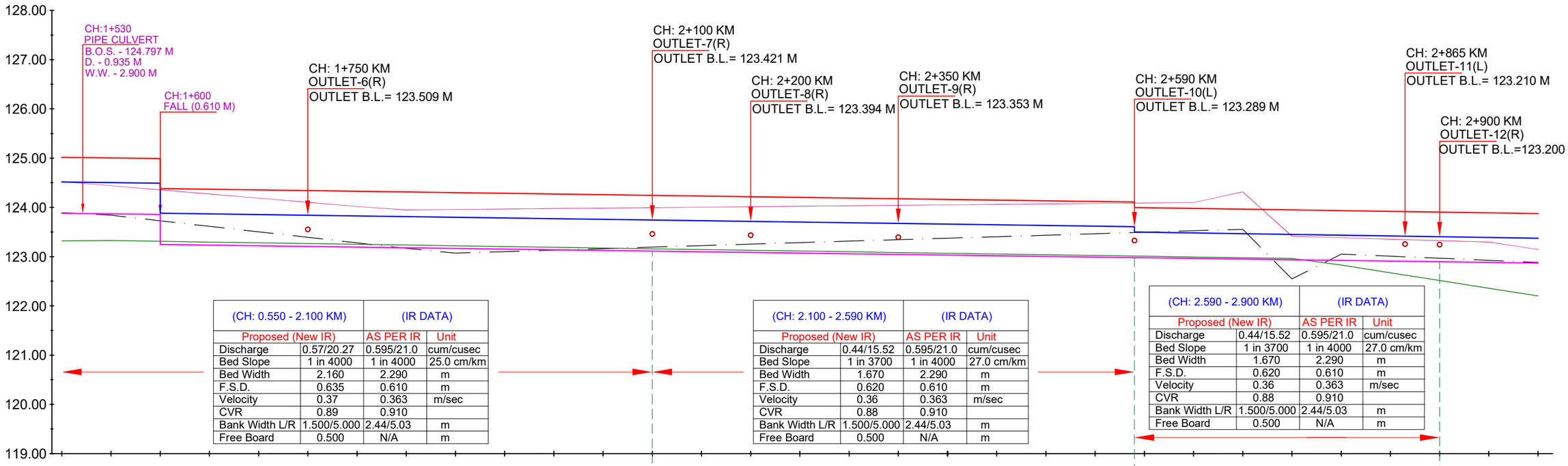
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ LSEC- 01 of 03

L- SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.550 - 2.100 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.57/20.27	0.595/21.0	cum/cusec
Bed Slope 1 in 4000	1 in 4000	25.0 cm/km
Bed Width 2.160	2.290	m
F.S.D. 0.635	0.610	m
Velocity 0.37	0.363	m/sec
CVR 0.89	0.910	
Bank Width L/R 1.500/5.000	2.44/5.03	m
Free Board 0.500	N/A	m

(CH: 2.100 - 2.590 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.44/15.52	0.595/21.0	cum/cusec
Bed Slope 1 in 3700	1 in 4000	27.0 cm/km
Bed Width 1.670	2.290	m
F.S.D. 0.620	0.610	m
Velocity 0.36	0.363	m/sec
CVR 0.88	0.910	
Bank Width L/R 1.500/5.000	2.44/5.03	m
Free Board 0.500	N/A	m

(CH: 2.590 - 2.900 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.44/15.52	0.595/21.0	cum/cusec
Bed Slope 1 in 3700	1 in 4000	27.0 cm/km
Bed Width 1.670	2.290	m
F.S.D. 0.620	0.610	m
Velocity 0.36	0.363	m/sec
CVR 0.88	0.910	
Bank Width L/R 1.500/5.000	2.44/5.03	m
Free Board 0.500	N/A	m

	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
DESIGN DATA	TOP OF BANK LEVEL	125.016	125.004	124.991	124.369	124.356	124.344	124.331	124.319	124.306	124.294	124.281	124.269	124.256	124.227	124.214	124.200	124.187	124.173	124.160	124.146	124.133	124.119	123.996	123.981	123.967	123.953	123.939	123.924	123.910	123.886	123.871
	F.S.L.	124.516	124.504	124.491	123.869	123.856	123.844	123.831	123.819	123.806	123.794	123.781	123.769	123.756	123.727	123.714	123.700	123.687	123.673	123.660	123.646	123.633	123.619	123.496	123.481	123.467	123.453	123.439	123.424	123.400	123.386	123.371
	Proposed Bed Level	123.881	123.869	123.856	123.234	123.221	123.209	123.196	123.184	123.171	123.159	123.146	123.134	123.121	123.107	123.094	123.080	123.067	123.053	123.040	123.026	123.013	122.999	122.986	122.971	122.957	122.943	122.929	122.914	122.900	122.886	122.871
EXISTING DATA	Bed Level	123.893	123.841	123.727	123.615	123.503	123.393	123.279	123.168	123.072	123.101	123.132	123.162	123.194	123.224	123.254	123.284	123.315	123.344	123.375	123.404	123.435	123.464	123.495	123.525	123.555	122.547	123.050	123.008	122.967	122.924	122.883
	TOP OF BANK LEVEL	124.525	124.441	124.356	124.272	124.188	124.103	124.019	123.948	123.957	123.967	123.976	123.986	123.995	124.004	124.014	124.023	124.033	124.042	124.051	124.061	124.070	124.080	124.089	124.098	124.316	123.414	123.385	123.355	123.325	123.296	123.147
	NSL	123.318	123.326	123.311	123.295	123.280	123.265	123.250	123.235	123.219	123.204	123.189	123.174	123.159	123.144	123.129	123.114	123.098	123.083	123.068	123.053	123.038	123.023	123.008	122.993	122.977	122.962	122.829	122.672	122.515	122.359	122.202

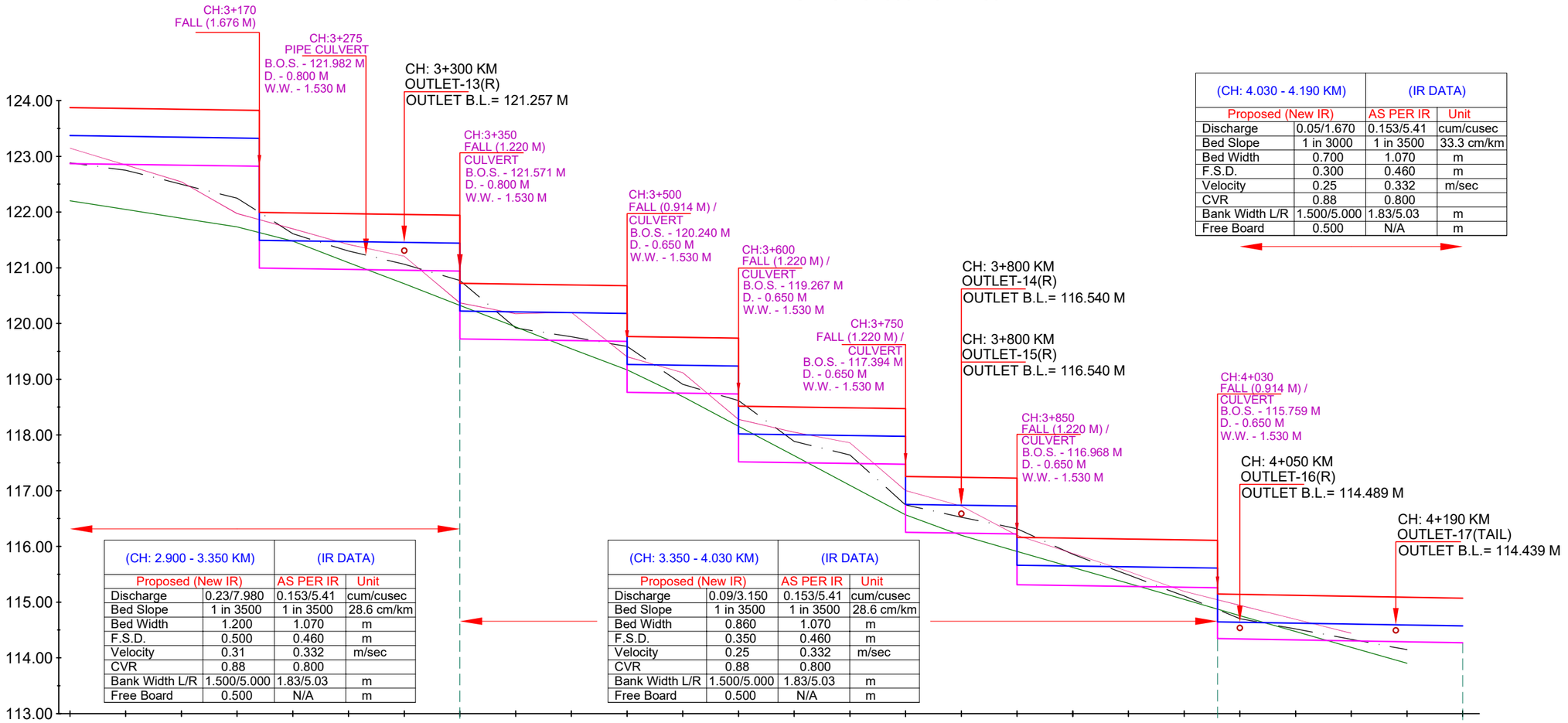
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ LSEC- 02 of 03

L- SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+250



(CH: 4.030 - 4.190 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.05/1.670	0.153/5.41	cum/cusec
Bed Slope	1 in 3000	1 in 3500	33.3 cm/km
Bed Width	0.700	1.070	m
F.S.D.	0.300	0.460	m
Velocity	0.25	0.332	m/sec
CVR	0.88	0.800	
Bank Width L/R	1.500/5.000	1.83/5.03	m
Free Board	0.500	N/A	m

(CH: 2.900 - 3.350 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.23/7.980	0.153/5.41	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	1.200	1.070	m
F.S.D.	0.500	0.460	m
Velocity	0.31	0.332	m/sec
CVR	0.88	0.800	
Bank Width L/R	1.500/5.000	1.83/5.03	m
Free Board	0.500	N/A	m

(CH: 3.350 - 4.030 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.09/3.150	0.153/5.41	cum/cusec
Bed Slope	1 in 3500	1 in 3500	28.6 cm/km
Bed Width	0.860	1.070	m
F.S.D.	0.350	0.460	m
Velocity	0.25	0.332	m/sec
CVR	0.88	0.800	
Bank Width L/R	1.500/5.000	1.83/5.03	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+030	4+050	4+100	4+150	4+200	4+250
DESIGN DATA	TOP OF BANK LEVEL	123.871	123.857	123.843	123.829	123.823	121.994	121.985	121.971	121.957	121.942	120.722	120.708	120.694	120.680	119.766	119.751	118.517	118.503	118.488	118.474	117.254	117.240	116.162	116.147	116.133	116.119	116.110	115.146	115.139	115.123	115.106	115.089	115.073
	F.S.L.	123.371	123.357	123.343	123.329	123.323	121.494	121.485	121.471	121.457	121.442	120.222	120.208	120.194	120.180	119.266	119.251	118.017	118.003	117.988	117.974	116.754	116.740	115.662	115.647	115.633	115.619	115.610	114.646	114.639	114.623	114.606	114.589	114.573
	Proposed Bed Level	122.871	122.857	122.843	122.829	122.823	120.994	120.985	120.971	120.957	120.942	119.722	119.708	119.694	119.680	118.766	118.751	117.517	117.503	117.488	117.474	116.254	116.240	115.312	115.297	115.283	115.269	115.260	114.346	114.339	114.323	114.306	114.289	114.273
EXISTING DATA	Bed Level	122.883	122.750	122.498	122.250	121.611	121.300	121.063	120.771	119.920	119.761	119.590	118.908	118.617	117.884	117.640	116.744	116.525	116.318	115.859	115.488	115.109	114.705	114.519	114.333	114.148								
	TOP OF BANK LEVEL	123.147	122.845	122.544	121.974	121.700	121.420	121.207	120.370	120.175	120.200	119.405	119.117	118.281	118.051	117.860	117.002	116.725	116.200	115.875	115.551	115.194	114.943	114.693	114.442									
	NSL	122.202	122.046	121.889	121.732	121.479	121.093	120.714	120.326	119.938	119.548	119.168	118.688	118.156	117.628	117.096	116.566	116.199	115.912	115.624	115.336	115.049	114.759	114.474	114.188	113.902								
	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+030	4+050	4+100	4+150	4+200	4+250

LEGEND

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

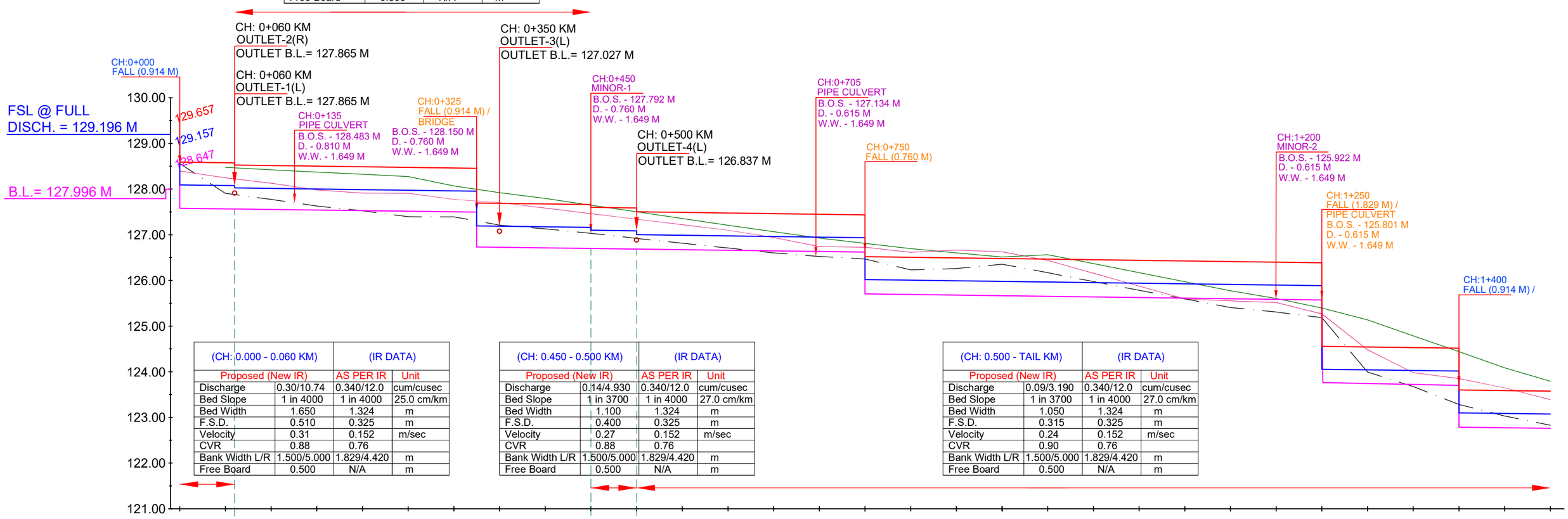
IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ LSEC- 03 of 03

NEPUA MINOR

L- SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500

(CH: 0.060 - 0.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.21/7.56	0.340/12.0	cum/cusec
Bed Slope	1 in 3800	1 in 4000	26.3 cm/km
Bed Width	1.350	1.324	m
F.S.D.	0.460	0.325	m
Velocity	0.29	0.152	m/sec
CVR	0.88	0.76	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m



(CH: 0.000 - 0.060 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.30/10.74	0.340/12.0	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.650	1.324	m
F.S.D.	0.510	0.325	m
Velocity	0.31	0.152	m/sec
CVR	0.88	0.76	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m

(CH: 0.450 - 0.500 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.14/4.930	0.340/12.0	cum/cusec
Bed Slope	1 in 3700	1 in 4000	27.0 cm/km
Bed Width	1.100	1.324	m
F.S.D.	0.400	0.325	m
Velocity	0.27	0.152	m/sec
CVR	0.88	0.76	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m

(CH: 0.500 - TAIL KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.09/3.190	0.340/12.0	cum/cusec
Bed Slope	1 in 3700	1 in 4000	27.0 cm/km
Bed Width	1.050	1.324	m
F.S.D.	0.315	0.325	m
Velocity	0.24	0.152	m/sec
CVR	0.90	0.76	
Bank Width L/R	1.500/5.000	1.829/4.420	m
Free Board	0.500	N/A	m

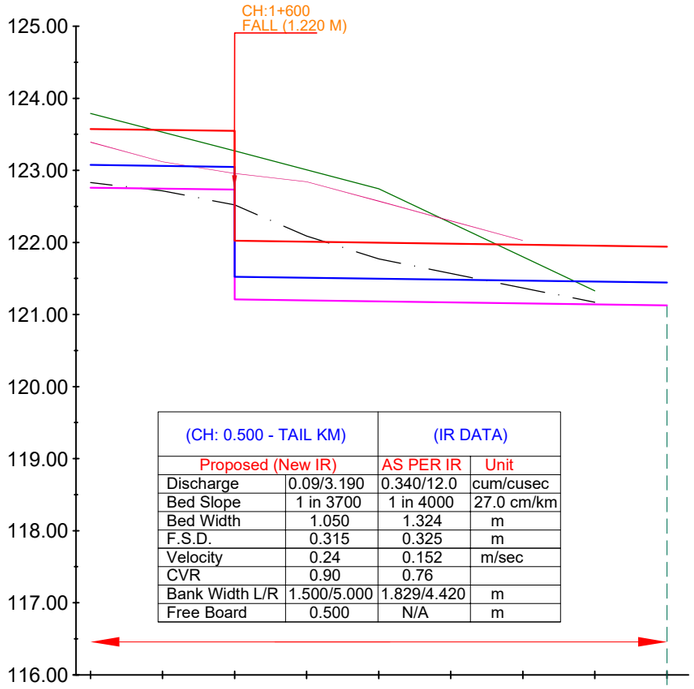
		Chainage IN KM	0+000	0+050	0+060	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500
DESIGN DATA	TOP OF BANK LEVEL		129.657	128.578	128.590	128.514	128.501	128.488	128.475	128.462	128.455	127.693	127.687	127.674	127.660	127.600	127.502	127.488	127.475	127.461	127.448	127.434	126.520	126.507	126.493	126.480	126.466	126.453	126.439	126.426	126.412	126.399	126.385	124.556	124.543	124.529	124.516	123.602	123.588	123.575
	F.S.L.		129.157	128.078	128.090	128.014	128.001	127.988	127.975	127.962	127.955	127.193	127.187	127.174	127.160	127.100	127.087	127.002	126.988	126.975	126.961	126.948	126.934	126.020	126.007	125.993	125.980	125.966	125.953	125.939	125.926	125.912	125.899	125.885	124.056	124.043	124.029	123.102	123.088	123.075
	Proposed Bed Level		128.647	127.568	127.565	127.554	127.541	127.528	127.515	127.502	127.495	126.733	126.727	126.714	126.700	126.687	126.673	126.660	126.646	126.633	126.619	125.705	125.692	125.678	125.665	125.651	125.638	125.624	125.611	125.597	125.584	125.570	123.741	123.728	123.714	123.701	122.787	122.773	122.760
EXISTING DATA	Bed Level		128.560	127.906		127.774	127.629	127.525	127.394	127.390	127.211	127.127	127.032	126.920	126.814	126.709	126.604	126.524	126.470	126.231	126.259	126.355	126.170	125.974	125.785	125.595	125.406	125.307	125.186	123.993	123.676	123.283	123.033	122.830						
	TOP OF BANK LEVEL		128.395	128.249		128.129	127.982	127.912	127.909	127.774	127.705	127.584	127.463	127.341	127.220	127.100	126.940	126.740	126.726	126.615	126.667	126.625	126.438	126.157	125.877	125.596	125.552	125.516	125.268	124.482	123.980	123.851	123.648	123.391						
	NSL			128.476		128.421	128.372	128.324	128.275	128.069	127.922	127.796	127.649	127.503	127.356	127.209	127.068	126.927	126.812	126.695	126.603	126.511	126.564	126.368	126.170	125.972	125.774	125.603	125.394	125.137	124.786	124.441	124.089	123.790						

LEGEND			
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING FALL		PROPOSED FSL
	MODIFIED FALL		PROPOSED TOP OF BANK LEVEL
	NEW FALL		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ LSEC- 01 of 02

L- SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 1+900



(CH: 0.500 - TAIL KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.09/3.190	0.340/12.0	cum/cusec
Bed Slope	1 in 3700	1 in 4000	27.0 cm/km
Bed Width	1.050	1.324	m
F.S.D.	0.315	0.325	m
Velocity	0.24	0.152	m/sec
CVR	0.90	0.76	
Bank Width L/R	1.500/5.000	1.829/4.420	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
DESIGN DATA	TOP OF BANK LEVEL	123.575	123.561	123.548 122.024	122.010	121.997	121.983	121.970	121.956	121.942
	F.S.L.	123.075	123.061	123.048 121.524	121.510	121.497	121.483	121.470	121.456	121.442
	Proposed Bed Level	122.760	122.746	122.733 121.209	121.195	121.182	121.168	121.155	121.141	121.127
EXISTING DATA	Bed Level	122.830	122.716	122.520	122.089	121.771	121.569	121.368	121.171	
	TOP OF BANK LEVEL	123.391	123.120	122.957	122.842	122.573	122.300	122.028		
	NSL	123.790	123.531	123.272	123.006	122.746	122.274	121.800	121.327	
	Chainage IN KM									

LEGEND

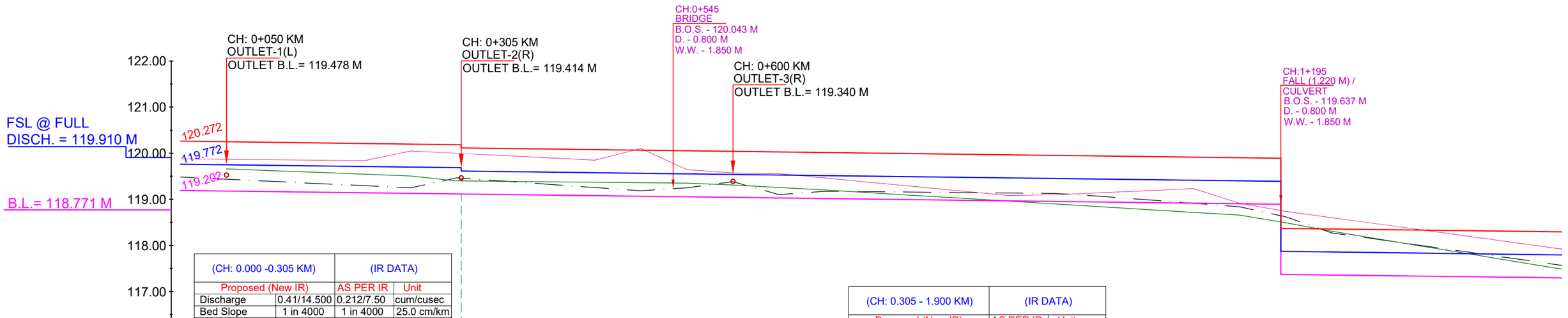
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING FALL		PROPOSED FSL
	MODIFIED FALL		PROPOSED TOP OF BANK LEVEL
	NEW FALL		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ LSEC- 02 of 02

AMAR BIGHA MINOR

L- SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 -0.305 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.41/14.500	0.212/7.50	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.850	1.300	m
F.S.D.	0.570	0.550	m
Velocity	0.34	0.271	m/sec
CVR	0.88	0.760	
Bank Width L/R	1.500/5.000	1.22/1.22	m
Free Board	0.500	N/A	m

(CH: 0.305 - 1.900 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.31/10.93	0.212/7.50	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.730	1.300	m
F.S.D.	0.500	0.550	m
Velocity	0.31	0.271	m/sec
CVR	0.89	0.760	
Bank Width L/R	1.500/5.000	1.22/1.22	m
Free Board	0.500	N/A	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	120.260	120.248	120.235	120.223	120.210	120.198	120.185	120.184	120.114	120.103	120.090	120.078	120.065	120.053	120.040	120.028	120.015	120.003	119.990	119.978	119.965	119.953	119.940	119.928	119.915	119.903	119.891	119.891	118.370	118.358	118.345
	F.S.L.	119.760	119.748	119.735	119.723	119.710	119.698	119.685	119.684	119.614	119.603	119.590	119.578	119.565	119.553	119.540	119.528	119.515	119.503	119.490	119.478	119.465	119.453	119.440	119.428	119.415	119.403	119.391	117.871	117.870	117.858	117.845
	Proposed Bed Level	119.190	119.178	119.165	119.153	119.140	119.128	119.115	119.114	119.114	119.103	119.090	119.078	119.065	119.053	119.040	119.028	119.015	119.003	118.990	118.978	118.965	118.953	118.940	118.928	118.915	118.903	118.891	117.371	117.370	117.358	117.345
EXISTING DATA	Bed Level	119.485	119.435	119.388	119.341	119.295	119.248	119.464	119.396	119.325	119.255	119.185	119.249	119.381	119.100	119.175	119.165	119.156	119.146	119.136	119.126	119.064	118.989	118.914	118.837	118.624	118.273	118.133	117.991	117.851	117.568	
	TOP OF BANK LEVEL	119.877	119.868	119.859	119.849	119.839	120.049	119.999	119.950	119.900	119.850	120.101	119.643	119.572	119.558	119.463	119.367	119.272	119.177	119.081	119.098	119.143	119.188	119.233	118.917	118.740	118.604	118.467	118.331	118.195	118.059	117.923
	NSL		119.661	119.622	119.583	119.544	119.505	119.400	119.390	119.380	119.370	119.361	119.350	119.311	119.258	119.203	119.142	119.081	119.021	118.960	118.899	118.839	118.778	118.717	118.657	118.491	118.308	118.143	117.979	117.815	117.651	117.486
	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

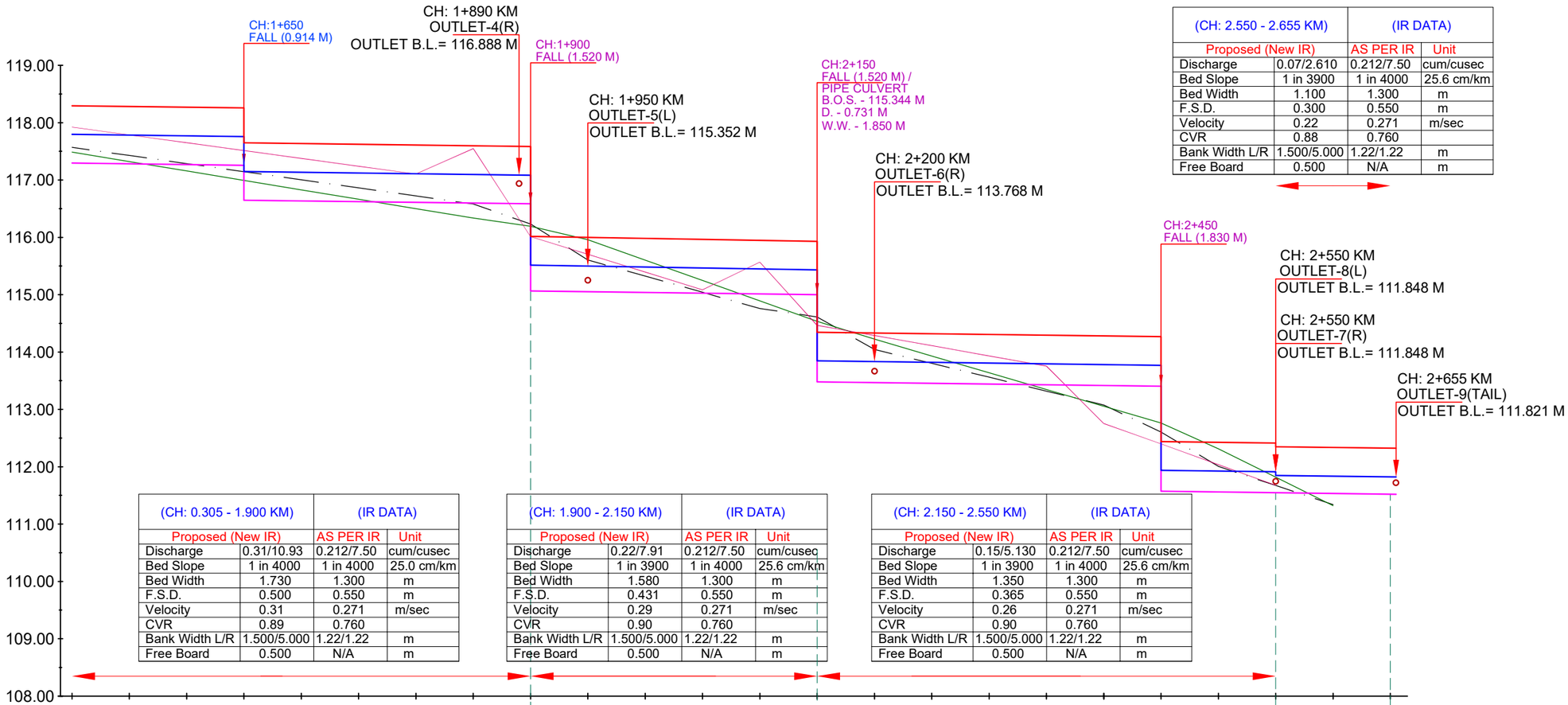
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ LSEC- 01 of 02

L- SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 2+650



(CH: 2.550 - 2.655 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.07/2.610	0.212/7.50	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.100	1.300	m
F.S.D.	0.300	0.550	m
Velocity	0.22	0.271	m/sec
CVR	0.88	0.760	
Bank Width L/R	1.500/5.000	1.22/1.22	m
Free Board	0.500	N/A	m

(CH: 0.305 - 1.900 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.31/10.93	0.212/7.50	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.730	1.300	m
F.S.D.	0.500	0.550	m
Velocity	0.31	0.271	m/sec
CVR	0.89	0.760	
Bank Width L/R	1.500/5.000	1.22/1.22	m
Free Board	0.500	N/A	m

(CH: 1.900 - 2.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.22/7.91	0.212/7.50	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.580	1.300	m
F.S.D.	0.431	0.550	m
Velocity	0.29	0.271	m/sec
CVR	0.90	0.760	
Bank Width L/R	1.500/5.000	1.22/1.22	m
Free Board	0.500	N/A	m

(CH: 2.150 - 2.550 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.15/5.130	0.212/7.50	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.350	1.300	m
F.S.D.	0.365	0.550	m
Velocity	0.26	0.271	m/sec
CVR	0.90	0.760	
Bank Width L/R	1.500/5.000	1.22/1.22	m
Free Board	0.500	N/A	m

DESIGN DATA	TOP OF BANK LEVEL	118.295	118.283	118.270	118.258 117.648	117.635	117.623	117.610	117.598	117.585 115.996	115.983	115.970	115.958	115.945	115.932 114.346	114.333	114.320	114.307	114.295	114.282	114.269 112.439	112.426	112.413 112.348	112.336	112.323		
	F.S.L.	117.795	117.783	117.770	117.758 117.148	117.135	117.123	117.110	117.098	117.085 115.496	115.483	115.470	115.458	115.445	115.432 113.846	113.833	113.820	113.807	113.795	113.782	113.769 111.939	111.926	111.913 111.848	111.836	111.823		
	Proposed Bed Level	117.295	117.283	117.270	117.258 116.648	116.635	116.623	116.610	116.598	116.585 115.065	115.052	115.039	115.027	115.014	115.001 113.481	113.468	113.455	113.442	113.430	113.417	113.404 111.574	111.561	111.548	111.536	111.523		
EXISTING DATA	Bed Level	117.568	117.428	117.286	117.146	117.004	116.863	116.722	116.581	116.233	115.607	115.324	115.042	114.759	114.613	114.045	113.804	113.561	113.319	113.076	112.606	112.007	111.673	111.340			
	TOP OF BANK LEVEL	117.923	117.786	117.650	117.514	117.377	117.241	117.105	117.549	116.014	115.705	115.395	115.086	115.568	114.466	114.289	114.111	113.933	113.756	112.754	112.400	112.038	111.677				
	NSL	117.486	117.322	117.158	116.994	116.829	116.665	116.501	116.337	116.192	115.959	115.603	115.248	114.892	114.536	114.225	113.932	113.640	113.348	113.055	112.762	112.314	111.818	111.323			
	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+655	

LEGEND

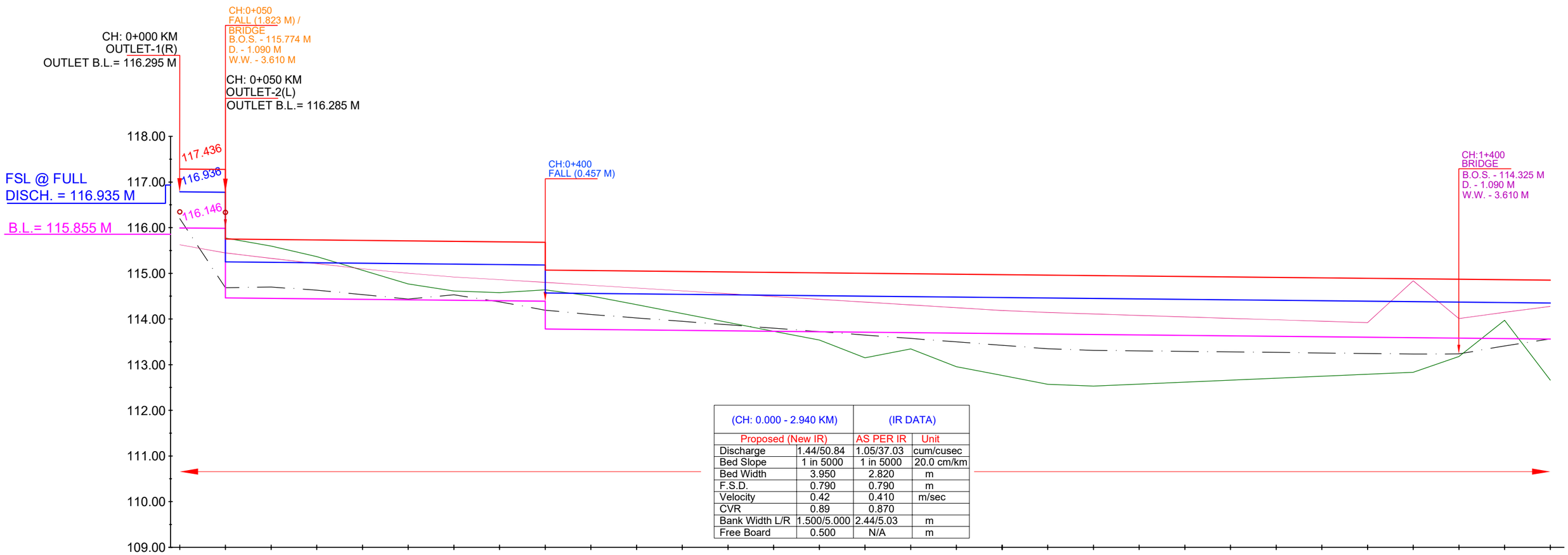
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING FALL		PROPOSED FSL	
MODIFIED FALL		PROPOSED TOP OF BANK LEVEL	
NEW FALL			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ LSEC- 02 of 02

CHATARA SUB DISTY.

L- SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 2.940 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.44/50.84	1.05/37.03	cum/cusec
Bed Slope	1 in 5000	1 in 5000	20.0 cm/km
Bed Width	3.950	2.820	m
F.S.D.	0.790	0.790	m
Velocity	0.42	0.410	m/sec
CVR	0.89	0.870	
Bank Width L/R	1.500/5.000	2.44/5.03	m
Free Board	0.500	N/A	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	117.285	117.275 / 115.751	115.741	115.731	115.721	115.711	115.701	115.691	115.681 / 115.071	115.061	115.051	115.041	115.031	115.021	115.011	115.001	114.991	114.981	114.971	114.961	114.951	114.941	114.931	114.921	114.911	114.901	114.891	114.881	114.871	114.861	114.851
	F.S.L.	116.785	116.775 / 115.251	115.241	115.231	115.221	115.211	115.201	115.191	115.181 / 114.571	114.561	114.551	114.541	114.531	114.521	114.511	114.501	114.491	114.481	114.471	114.461	114.451	114.441	114.431	114.421	114.411	114.401	114.391	114.381	114.371	114.361	114.351
	Proposed Bed Level	115.995	115.985 / 114.461	114.451	114.441	114.431	114.421	114.411	114.401	114.391 / 113.781	113.771	113.761	113.751	113.741	113.731	113.721	113.711	113.701	113.691	113.681	113.671	113.661	113.651	113.641	113.631	113.621	113.611	113.601	113.591	113.581	113.571	113.561
EXISTING DATA	Bed Level	116.200	114.684	114.700	114.632	114.535	114.438	114.529	114.376	114.193	114.099	114.024	113.949	113.874	113.799	113.724	113.649	113.574	113.499	113.424	113.349	113.314	113.302	113.291	113.279	113.268	113.256	113.245	113.233	113.235	113.411	113.563
	TOP OF BANK LEVEL	115.626	115.449	115.328	115.214	115.100	115.003	114.920	114.862	114.801	114.739	114.678	114.617	114.555	114.493	114.432	114.370	114.309	114.247	114.185	114.142	114.110	114.079	114.047	114.015	113.983	113.951	113.919	113.837	114.011	114.146	114.276
	NSL		115.774	115.596	115.366	115.067	114.768	114.613	114.578	114.639	114.506	114.313	114.119	113.925	113.731	113.538	113.344	113.150	112.957	112.763	112.569	112.529	112.573	112.616	112.659	112.703	112.746	112.790	112.833	113.180	113.970	112.660
	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

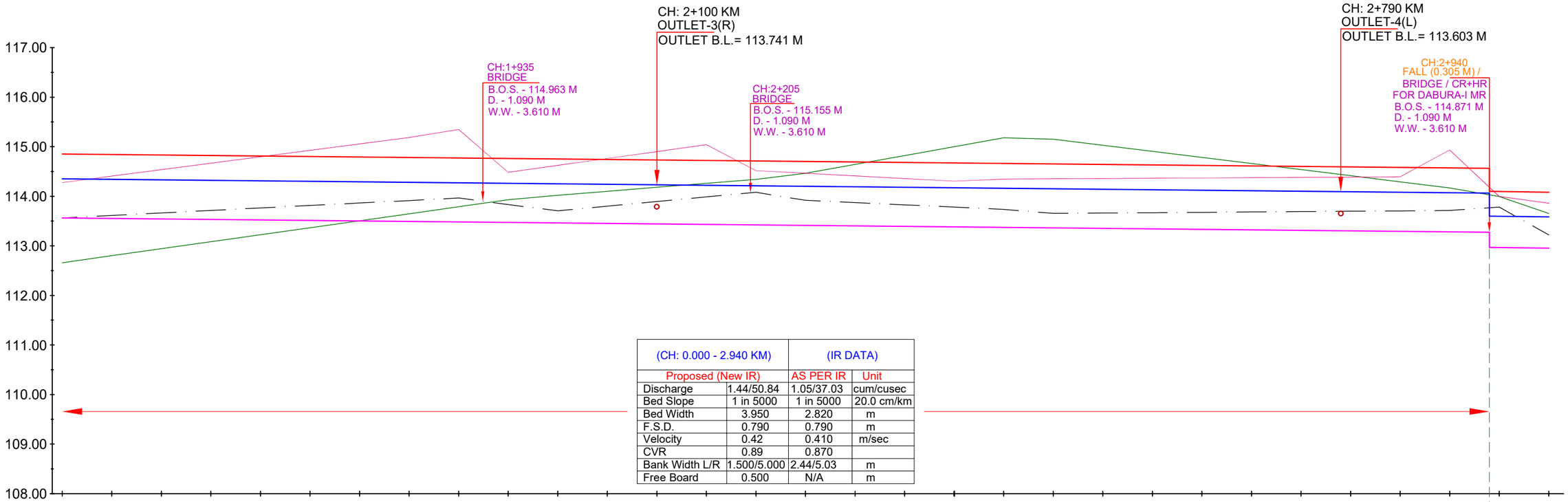
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ LSEC- 01 of 05

L- SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.000 - 2.940 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	1.44/50.84	1.05/37.03	cum/cusec
Bed Slope	1 in 5000	1 in 5000	20.0 cm/km
Bed Width	3.950	2.820	m
F.S.D.	0.790	0.790	m
Velocity	0.42	0.410	m/sec
CVR	0.89	0.870	
Bank Width L/R	1.500/5.000	2.44/5.03	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+940	2+950	3+000
DESIGN DATA	TOP OF BANK LEVEL	114.851	114.841	114.831	114.821	114.811	114.801	114.791	114.781	114.771	114.761	114.751	114.741	114.731	114.721	114.711	114.701	114.691	114.681	114.671	114.661	114.651	114.641	114.631	114.621	114.611	114.601	114.591	114.581	114.571	114.563	114.098	114.083
	F.S.L.	114.351	114.341	114.331	114.321	114.311	114.301	114.291	114.281	114.271	114.261	114.251	114.241	114.231	114.221	114.211	114.201	114.191	114.181	114.171	114.161	114.151	114.141	114.131	114.121	114.111	114.101	114.091	114.081	114.071	114.063	113.598	113.583
	Proposed Bed Level	113.561	113.551	113.541	113.531	113.521	113.511	113.501	113.491	113.481	113.471	113.461	113.451	113.441	113.431	113.421	113.411	113.401	113.391	113.381	113.371	113.361	113.351	113.341	113.331	113.321	113.311	113.301	113.291	113.281	113.273	112.968	112.953
EXISTING DATA	Bed Level	113.563	113.612	113.663	113.713	113.764	113.814	113.864	113.914	113.965	113.833	113.707	113.800	113.894	113.987	114.081	113.919	113.874	113.827	113.782	113.736	113.655	113.663	113.669	113.676	113.684	113.691	113.699	113.705	113.714	113.781	113.781	113.220
	TOP OF BANK LEVEL	114.276	114.407	114.537	114.667	114.797	114.927	115.057	115.187	115.349	114.484	114.623	114.763	114.902	115.042	114.518	114.465	114.412	114.358	114.305	114.347	114.353	114.359	114.365	114.370	114.376	114.382	114.387	114.393	114.934	113.998	113.998	113.859
	NSL	112.660	112.801	112.942	113.083	113.224	113.365	113.506	113.647	113.788	113.929	114.020	114.101	114.181	114.261	114.341	114.463	114.642	114.821	115.000	115.180	115.152	115.029	114.906	114.784	114.661	114.539	114.415	114.291	114.167	113.994	113.994	113.653
	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+940	2+950	3+000

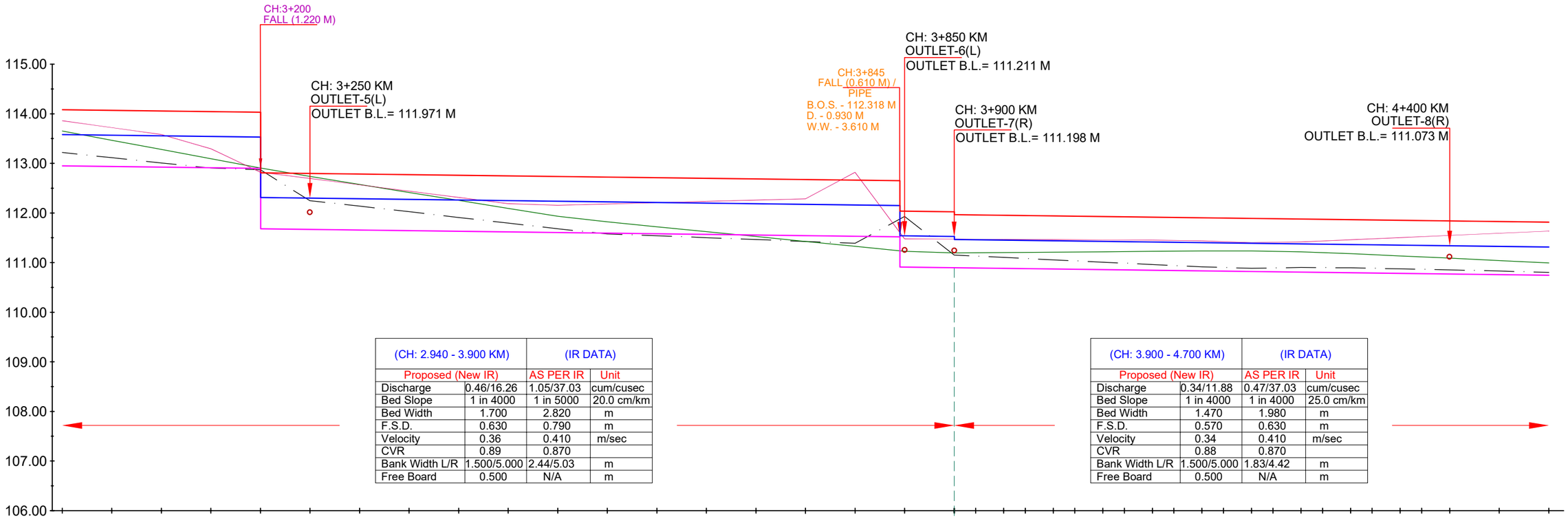
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ LSEC- 02 of 05

L- SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500



(CH: 2.940 - 3.900 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	0.46/16.26	1.05/37.03	cum/cusec
Bed Slope	1 in 4000	1 in 5000	20.0 cm/km
Bed Width	1.700	2.820	m
F.S.D.	0.630	0.790	m
Velocity	0.36	0.410	m/sec
CVR	0.89	0.870	
Bank Width L/R	1.500/5.000	2.44/5.03	m
Free Board	0.500	N/A	m

(CH: 3.900 - 4.700 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge	0.34/11.88	0.47/37.03	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.470	1.980	m
F.S.D.	0.570	0.630	m
Velocity	0.34	0.410	m/sec
CVR	0.88	0.870	
Bank Width L/R	1.500/5.000	1.83/4.42	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	114.083	114.071	114.058	114.046	114.033	112.801	112.788	112.776	112.763	112.751	112.738	112.726	112.713	112.701	112.688	112.676	112.663	112.652	112.028	111.956	111.943	111.931	111.918	111.906	111.893	111.881	111.868	111.856	111.843	111.831	111.818
																			112.042													
	F.S.L.	113.583	113.571	113.558	113.546	113.533	112.301	112.288	112.276	112.263	112.251	112.238	112.226	112.213	112.201	112.188	112.176	112.163	112.152	111.528	111.456	111.443	111.431	111.418	111.406	111.393	111.381	111.368	111.356	111.343	111.331	111.318
																			111.542													
	Proposed Bed Level	112.953	112.941	112.928	112.916	112.903	111.671	111.658	111.646	111.633	111.621	111.608	111.596	111.583	111.571	111.558	111.546	111.533	111.522	110.898	110.886	110.873	110.861	110.848	110.836	110.823	110.811	110.798	110.786	110.773	110.761	110.748
																			110.912													
EXISTING DATA	Bed Level	113.220	113.114	113.009	112.905	112.870	112.248	112.138	112.026	111.910	111.797	111.682	111.578	111.542	111.503	111.465	111.427	111.388	111.930	111.151	111.104	111.056	111.009	110.961	110.914	110.885	110.902	110.895	110.873	110.853	110.830	110.803
	TOP OF BANK LEVEL	113.859	113.721	113.583	113.295	112.822	112.695	112.568	112.441	112.315	112.188	112.156	112.182	112.208	112.235	112.261	112.287	112.820	111.478	111.473	111.468	111.463	111.459	111.454	111.439	111.404	111.417	111.461	111.505	111.548	111.592	111.635
	NSL	113.653	113.467	113.281	113.095	112.905	112.738	112.576	112.414	112.253	112.091	111.933	111.823	111.723	111.624	111.525	111.426	111.327	111.229	111.194	111.202	111.210	111.218	111.226	111.234	111.235	111.218	111.182	111.135	111.089	111.042	110.995
	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

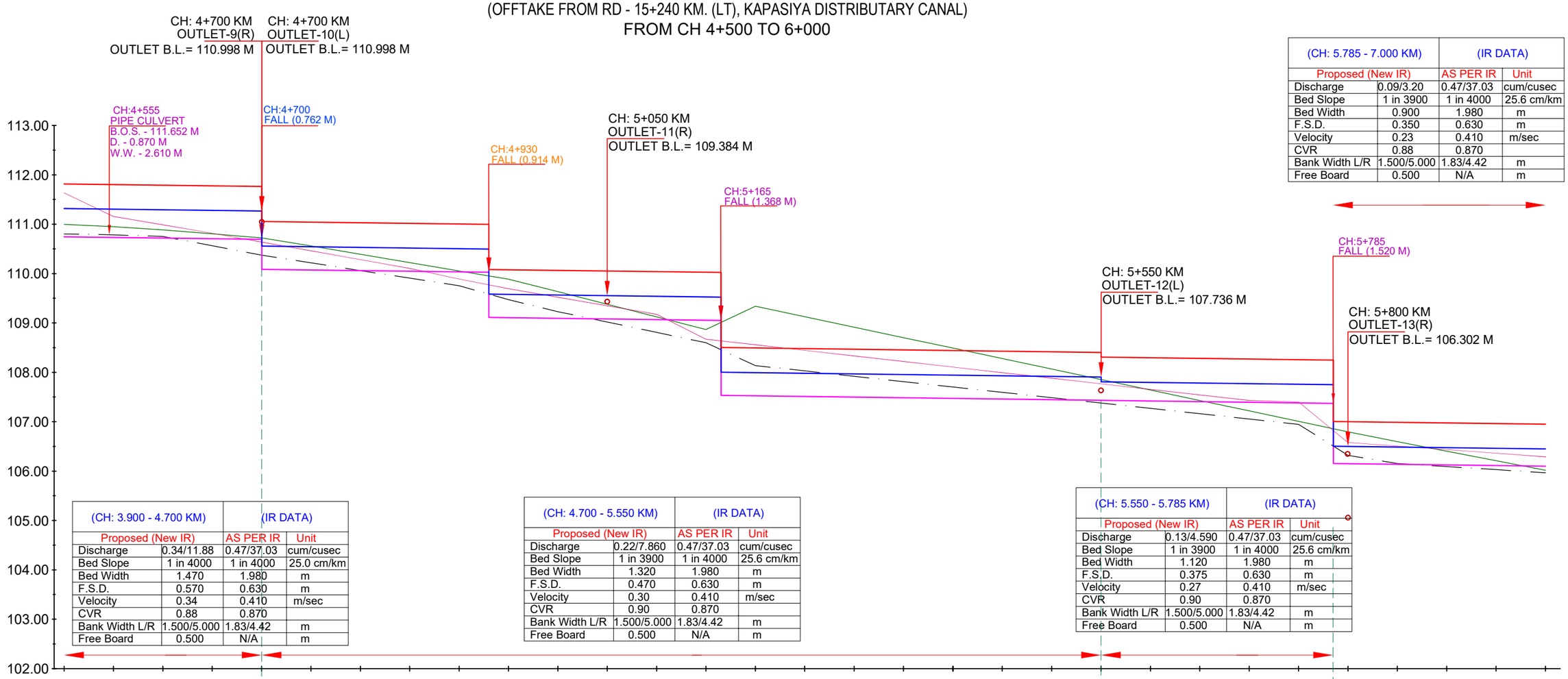
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ LSEC- 03 of 05

L- SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 6+000



(CH: 3.900 - 4.700 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.34/11.88	0.47/37.03	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.470	1.980	m
F.S.D.	0.570	0.630	m
Velocity	0.34	0.410	m/sec
CVR	0.88	0.870	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 4.700 - 5.550 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.22/7.860	0.47/37.03	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.320	1.980	m
F.S.D.	0.470	0.630	m
Velocity	0.30	0.410	m/sec
CVR	0.90	0.870	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 5.550 - 5.785 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.13/4.590	0.47/37.03	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.120	1.980	m
F.S.D.	0.375	0.630	m
Velocity	0.27	0.410	m/sec
CVR	0.90	0.870	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 5.785 - 7.000 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.09/3.20	0.47/37.03	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	0.900	1.980	m
F.S.D.	0.350	0.630	m
Velocity	0.23	0.410	m/sec
CVR	0.88	0.870	
Bank Width L/R	1.500/5.000	1.83/4.42	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+785	5+800	5+850	5+900	5+950	6+000
DESIGN DATA	TOP OF BANK LEVEL	111.818	111.806	111.793	111.781	111.768 111.058	111.045	111.033	111.020	111.007	110.999 110.085 110.080	110.067	110.054	110.042	110.029 110.025 108.505	108.496	108.483	108.470	108.458	108.445	108.432	108.419	108.406 108.311	108.298	108.286	108.273	108.260	108.251 107.002	106.989	106.977	106.964	106.951
	F.S.L.	111.318	111.306	111.293	111.281	111.268 110.558	110.545	110.533	110.520	110.507	110.499 109.585 109.580	109.567	109.554	109.542	109.529 109.525 108.005	107.996	107.983	107.970	107.958	107.945	107.932	107.919	107.906 107.811	107.798	107.786	107.773	107.760	107.751 106.502	106.489	106.477	106.464	106.451
	Proposed Bed Level	110.748	110.736	110.723	110.711	110.698 110.088	110.075	110.063	110.050	110.037	110.029 109.115 109.110	109.097	109.084	109.072	109.059 107.535 109.055	107.526	107.513	107.500	107.488	107.475	107.462	107.449	107.436	107.423	107.411	107.398	107.385	107.376 106.152	106.139	106.127	106.114	106.101
EXISTING DATA	Bed Level	110.803	110.785	110.752	110.563	110.374	110.217	110.061	109.908	109.753	109.473	109.229	109.020	108.809	108.599	108.137	108.030	107.919	107.810	107.703	107.594	107.487	107.378	107.271	107.162	107.055	106.946	106.321	106.153	106.091	105.967
	TOP OF BANK LEVEL	111.635	111.156	110.987	110.817	110.640	110.462	110.284	110.106	109.891	109.694	109.521	109.348	109.176	108.671	108.558	108.446	108.333	108.220	108.107	107.994	107.882	107.769	107.656	107.543	107.430	107.401	106.579	106.507	106.435	106.290
	NSL	110.995	110.949	110.884	110.804	110.723	110.562	110.392	110.221	110.051	109.887	109.633	109.378	109.123	108.868	109.339	109.127	108.915	108.703	108.491	108.279	108.067	107.855	107.643	107.431	107.219	107.007	106.797	106.596	106.404	106.211	106.018
	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+785	5+800	5+850	5+900	5+950	6+000

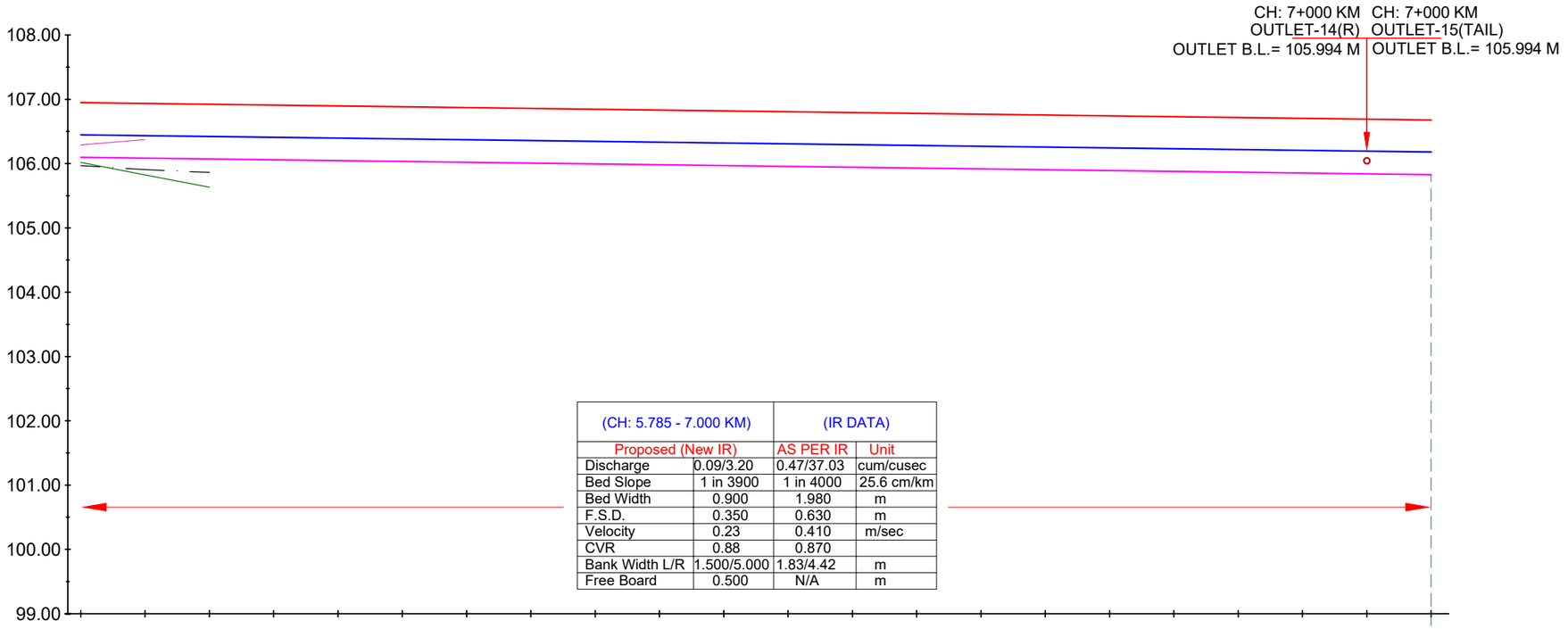
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ LSEC- 04 of 05

L- SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 6+000 TO 6+150



(CH: 5.785 - 7.000 KM)	(IR DATA)	
Proposed (New IR)	AS PER IR	Unit
Discharge 0.09/3.20	0.47/37.03	cum/cusec
Bed Slope 1 in 3900	1 in 4000	25.6 cm/km
Bed Width 0.900	1.980	m
F.S.D. 0.350	0.630	m
Velocity 0.23	0.410	m/sec
CVR 0.88	0.870	
Bank Width L/R 1.500/5.000	1.83/4.42	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
DESIGN DATA	TOP OF BANK LEVEL	106.951	106.938	106.925	106.912	106.900	106.887	106.874	106.861	106.848	106.835	106.823	106.810	106.797	106.784	106.771	106.759	106.746	106.733	106.720	106.707	106.694	106.682
	F.S.L.	106.451	106.438	106.425	106.412	106.400	106.387	106.374	106.361	106.348	106.335	106.323	106.310	106.297	106.284	106.271	106.259	106.246	106.233	106.220	106.207	106.194	106.182
	Proposed Bed Level	106.101	106.088	106.075	106.062	106.050	106.037	106.024	106.011	105.998	105.985	105.973	105.960	105.947	105.934	105.921	105.909	105.896	105.883	105.870	105.857	105.844	105.832
EXISTING DATA	Bed Level	105.967	105.906	105.863																			
	TOP OF BANK LEVEL	106.290	106.373																				
	NSL	106.018	105.825	105.634																			
	Chainage IN KM																						

LEGEND

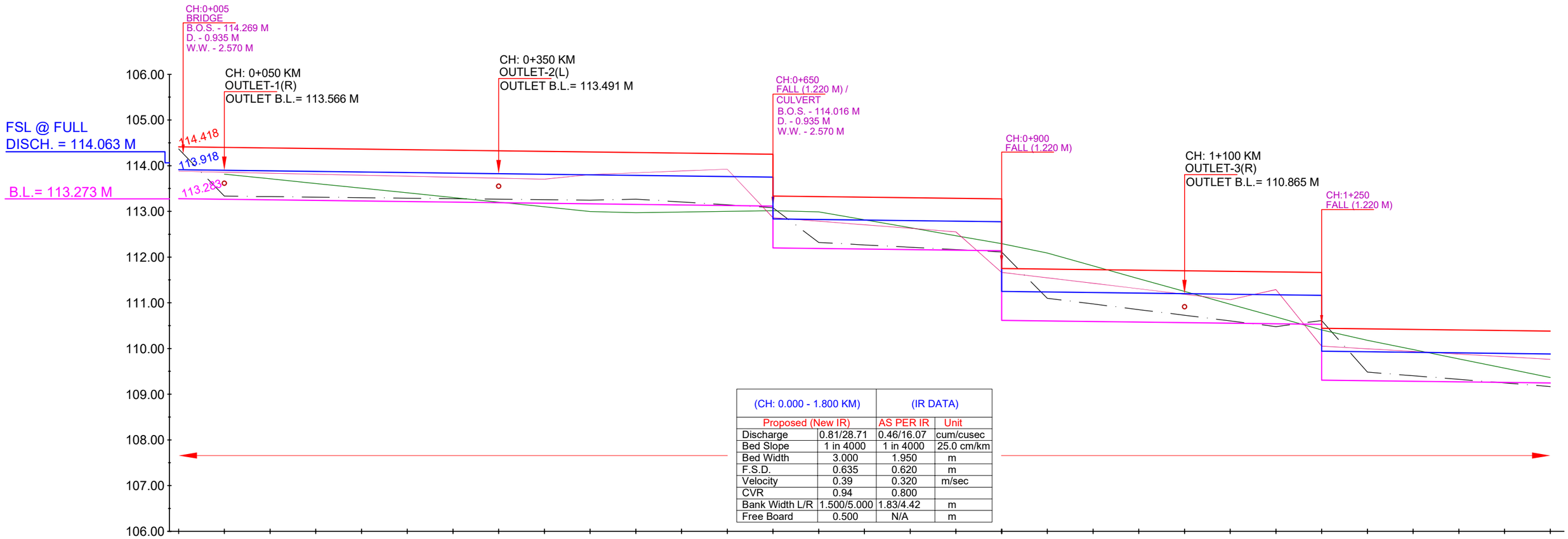
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING FALL		PROPOSED FSL
	MODIFIED FALL		PROPOSED TOP OF BANK LEVEL
	NEW FALL		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ LSEC- 05 of 05

DABURA-I MINOR

L- SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 1.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.81/28.71	0.46/16.07	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	3.000	1.950	m
F.S.D.	0.635	0.620	m
Velocity	0.39	0.320	m/sec
CVR	0.94	0.800	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	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	114.413	114.401	114.388	114.376	114.363	114.351	114.338	114.326	114.313	114.301	114.288	114.276	114.263	114.251 113.337	113.324	113.312	113.299	113.287	113.274 111.750	111.738	111.725	111.713	111.700	111.688	111.675	111.663 110.443	110.430	110.418	110.405	110.393	110.380
	F.S.L.	113.913	113.901	113.888	113.876	113.863	113.851	113.838	113.826	113.813	113.801	113.788	113.776	113.763	113.751 112.837	112.824	112.812	112.799	112.787	112.774 111.250	111.238	111.225	111.213	111.200	111.188	111.175	111.163 109.943	109.930	109.918	109.905	109.893	109.880
	Proposed Bed Level	113.278	113.266	113.253	113.241	113.228	113.216	113.203	113.191	113.178	113.166	113.153	113.141	113.128	113.116 112.202	112.189	112.177	112.164	112.152	112.139 110.615	110.603	110.590	110.578	110.565	110.553	110.540	110.528 109.308	109.295	109.283	109.270	109.258	109.245
EXISTING DATA	Bed Level	114.365	113.334	113.323	113.312	113.300	113.289	113.278	113.267	113.256	113.245	113.268	113.206	113.143	113.081	112.319	112.267	112.216	112.164	112.112	111.099	110.975	110.850	110.728	110.603	110.479	110.613	109.482	109.404	109.325	109.247	109.168
	TOP OF BANK LEVEL	113.880	113.858	113.836	113.814	113.793	113.771	113.749	113.727	113.705	113.805	113.844	113.884	113.923	112.862	112.785	112.708	112.631	112.553	111.666	111.547	111.427	111.307	111.187	111.067	111.289	110.052	109.995	109.937	109.879	109.821	109.764
	NSL		113.815	113.713	113.611	113.508	113.406	113.304	113.202	113.100	112.998	112.971	112.986	113.001	113.016	112.990	112.816	112.642	112.468	112.294	112.088	111.808	111.528	111.248	110.969	110.689	110.406	110.179	109.976	109.772	109.569	109.366
	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

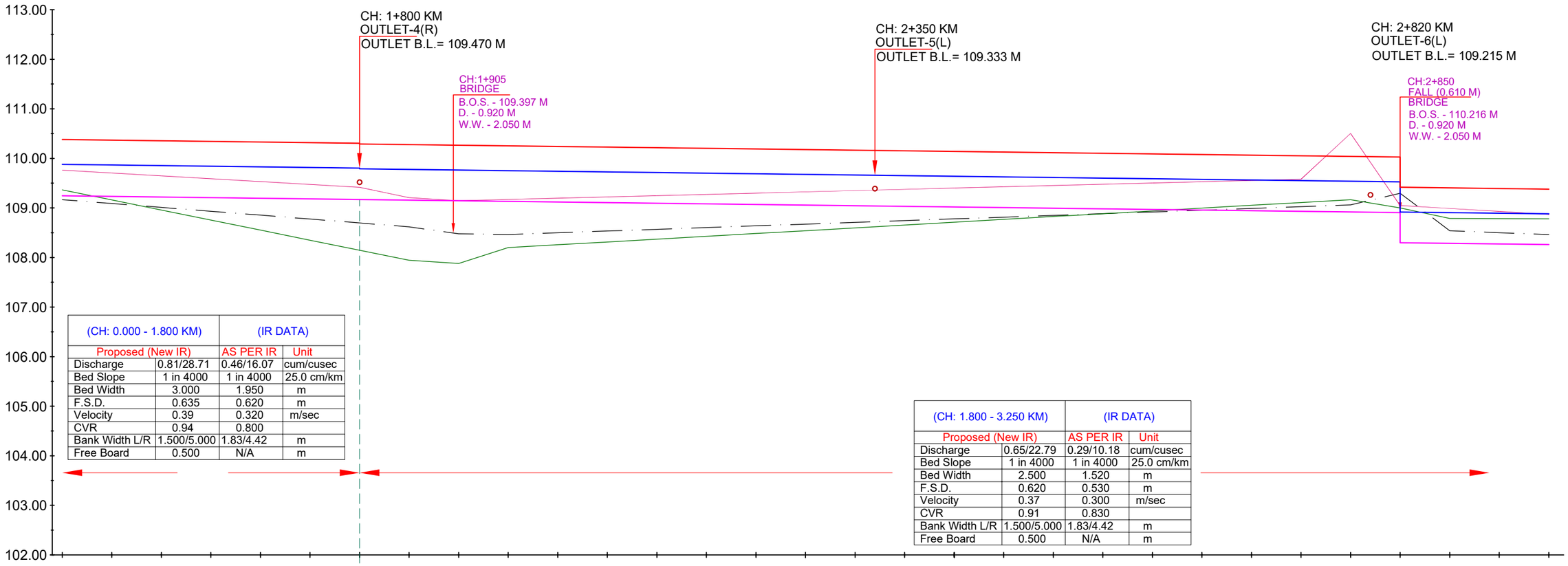
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ LSEC- 01 of 04

L- SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



(CH: 0.000 - 1.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.81/28.71	0.46/16.07	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	3.000	1.950	m
F.S.D.	0.635	0.620	m
Velocity	0.39	0.320	m/sec
CVR	0.94	0.800	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 1.800 - 3.250 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.65/22.79	0.29/10.18	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.500	1.520	m
F.S.D.	0.620	0.530	m
Velocity	0.37	0.300	m/sec
CVR	0.91	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	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	110.380	110.368	110.355	110.343	110.330	110.318	110.305	110.290	110.278	110.265	110.253	110.240	110.228	110.215	110.203	110.190	110.178	110.165	110.153	110.140	110.128	110.115	110.103	110.090	110.078	110.065	110.053	110.040	110.028	109.418	109.405	109.393	109.380
	F.S.L.	109.880	109.868	109.855	109.843	109.830	109.818	109.805	109.790	109.778	109.765	109.753	109.740	109.728	109.715	109.703	109.690	109.678	109.665	109.653	109.640	109.628	109.615	109.603	109.590	109.578	109.565	109.553	109.540	109.528	108.918	108.905	108.893	108.880
	Proposed Bed Level	109.245	109.233	109.220	109.208	109.195	109.183	109.170	109.158	109.145	109.133	109.120	109.108	109.095	109.083	109.070	109.058	109.045	109.033	109.020	109.008	108.995	108.983	108.970	108.958	108.945	108.933	108.920	108.908	108.298	108.285	108.273	108.260
EXISTING DATA	Bed Level	109.168	109.090	109.011	108.933	108.855	108.776	108.698	108.619	108.479	108.463	108.498	108.534	108.569	108.603	108.639	108.674	108.709	108.744	108.779	108.814	108.849	108.885	108.919	108.955	108.989	109.026	109.060	109.296	108.540	108.501	108.462
	TOP OF BANK LEVEL	109.764	109.706	109.649	109.591	109.533	109.475	109.417	109.207	109.146	109.172	109.197	109.223	109.248	109.274	109.299	109.325	109.350	109.376	109.401	109.427	109.452	109.478	109.503	109.529	109.554	109.580	110.504	109.050	108.990	108.930	108.870
	NSL	109.366	109.163	108.959	108.756	108.553	108.350	108.147	107.943	107.879	108.200	108.257	108.313	108.370	108.427	108.484	108.541	108.598	108.655	108.712	108.769	108.826	108.882	108.939	108.996	109.053	109.110	109.167	109.002	108.788	108.784	108.781
	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

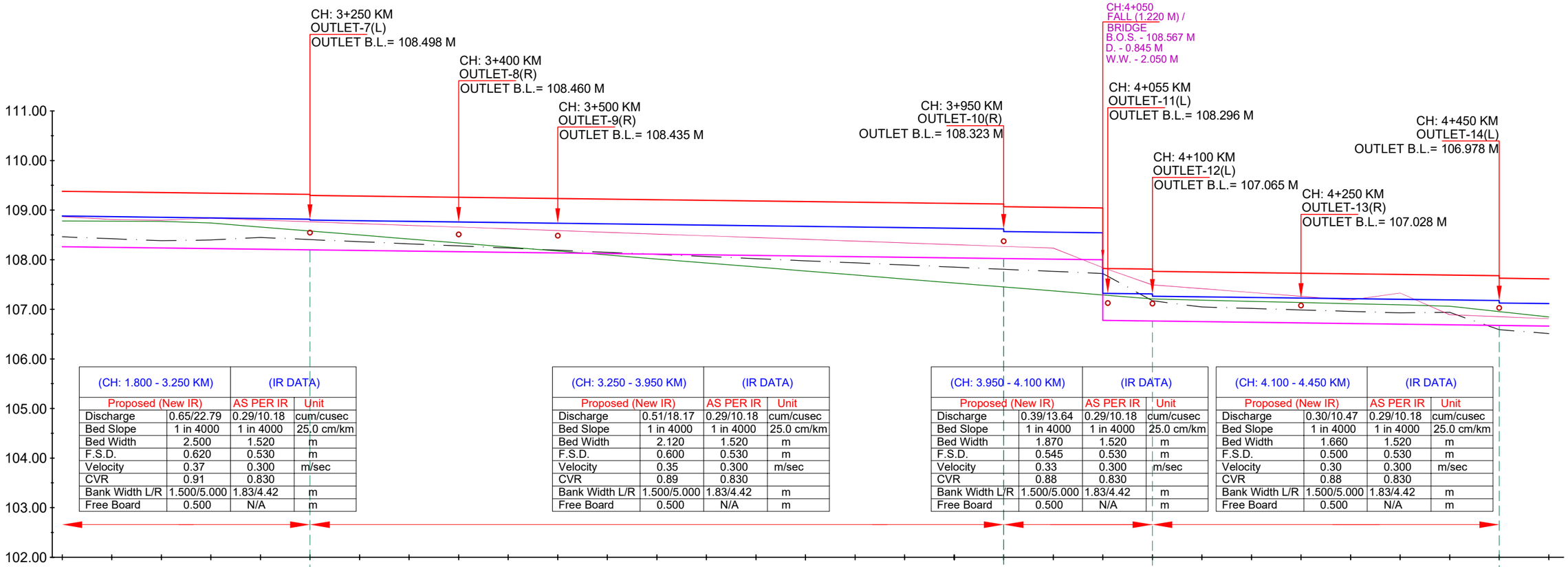
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ LSEC- 02 of 04

L- SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500



(CH: 1.800 - 3.250 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.65/22.79	0.29/10.18	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.500	1.520	m
F.S.D.	0.620	0.530	m
Velocity	0.37	0.300	m/sec
CVR	0.91	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 3.250 - 3.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.51/18.17	0.29/10.18	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.120	1.520	m
F.S.D.	0.600	0.530	m
Velocity	0.35	0.300	m/sec
CVR	0.89	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 3.950 - 4.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.39/13.64	0.29/10.18	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.870	1.520	m
F.S.D.	0.545	0.530	m
Velocity	0.33	0.300	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 4.100 - 4.450 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.30/10.47	0.29/10.18	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.660	1.520	m
F.S.D.	0.500	0.530	m
Velocity	0.30	0.300	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	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	109.380	109.368	109.355	109.343	109.330	109.318 / 109.298	109.285	109.273	109.260	109.248	109.235	109.223	109.210	109.198	109.185	109.173	109.160	109.148	109.135	109.123 / 109.068	109.055	109.043 / 107.823	107.810 / 107.765	107.753	107.740	107.728	107.715	107.703	107.690	107.678 / 107.628	107.615
	F.S.L.	108.880	108.868	108.855	108.843	108.830	108.818 / 108.798	108.785	108.773	108.760	108.748	108.735	108.723	108.710	108.698	108.685	108.673	108.660	108.648	108.635	108.623 / 108.568	108.555	108.543 / 107.323	107.310 / 107.265	107.253	107.240	107.228	107.215	107.203	107.190	107.178 / 107.128	107.115
	Proposed Bed Level	108.260	108.248	108.235	108.223	108.210	108.198	108.185	108.173	108.160	108.148	108.135	108.123	108.110	108.098	108.085	108.073	108.060	108.048	108.035	108.023	108.010	107.998 / 106.778	106.765	106.753	106.740	106.728	106.715	106.703	106.690	106.678	106.665
EXISTING DATA	Bed Level	108.462	108.423	108.384	108.397	108.449	108.406	108.363	108.321	108.278	108.235	108.192	108.149	108.107	108.064	108.021	107.978	107.936	107.893	107.850	107.807	107.765	107.722	107.472	107.046	107.017	106.987	106.958	106.928	106.938	106.589	106.511
	TOP OF BANK LEVEL	108.870	108.811	108.796	108.835	108.800	108.765	108.730	108.694	108.658	108.623	108.588	108.553	108.517	108.482	108.446	108.411	108.375	108.340	108.305	108.269	108.234	107.840	107.494	107.417	107.340	107.263	107.186	107.329	106.891	106.851	106.810
	NSL	108.781	108.777	108.774	108.740	108.659	108.579	108.498	108.417	108.337	108.256	108.176	108.095	108.014	107.934	107.853	107.773	107.692	107.611	107.531	107.450	107.370	107.289	107.208	107.183	107.160	107.137	107.114	107.091	107.062	106.952	106.844
	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

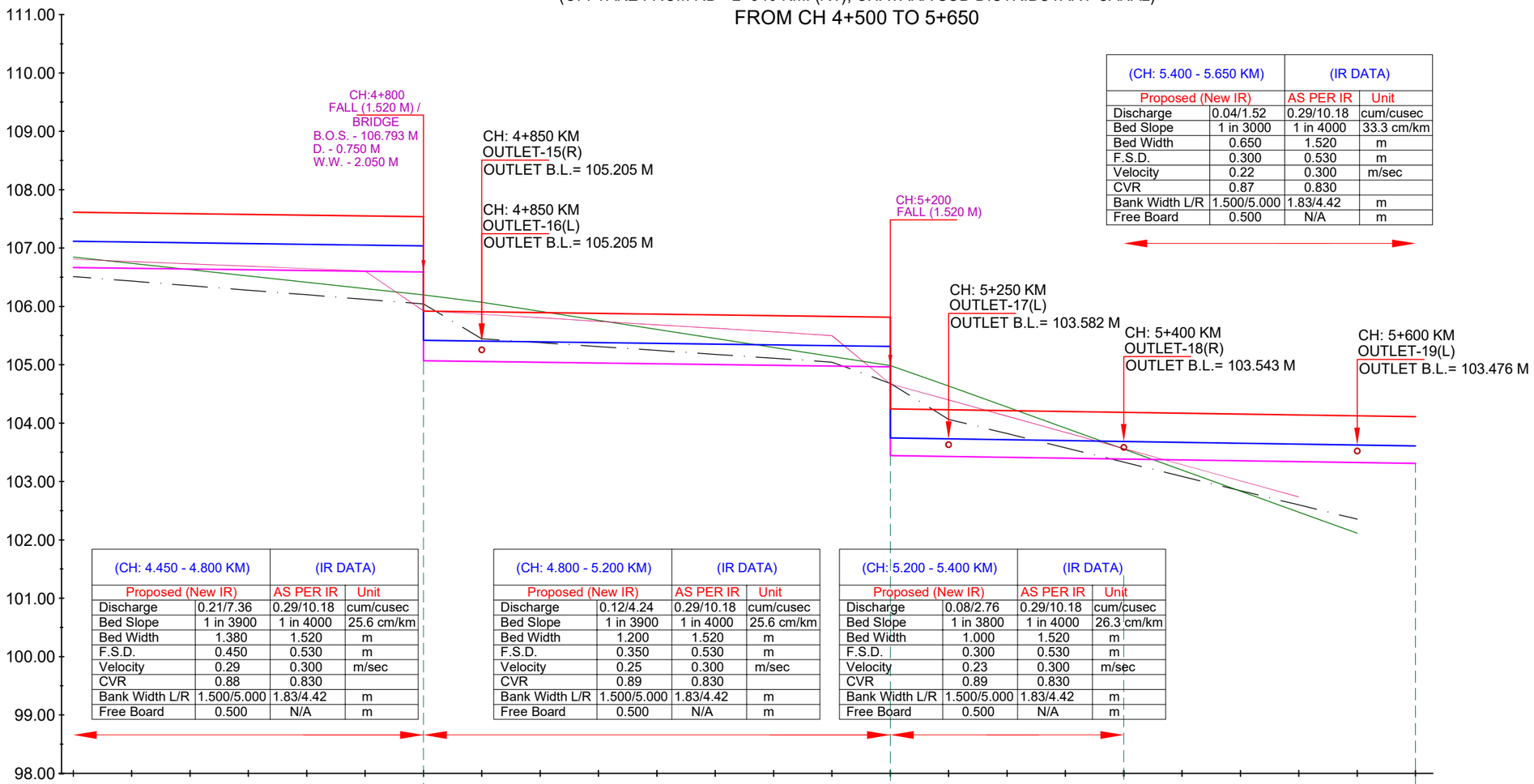
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ LSEC- 03 of 04

L- SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
FROM CH 4+500 TO 5+650



(CH: 5.400 - 5.650 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.04/1.52	0.29/10.18	cum/cusec
Bed Slope	1 in 3000	1 in 4000	33.3 cm/km
Bed Width	0.650	1.520	m
F.S.D.	0.300	0.530	m
Velocity	0.22	0.300	m/sec
CVR	0.87	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 4.450 - 4.800 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.21/7.36	0.29/10.18	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.380	1.520	m
F.S.D.	0.450	0.530	m
Velocity	0.29	0.300	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 4.800 - 5.200 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.12/4.24	0.29/10.18	cum/cusec
Bed Slope	1 in 3900	1 in 4000	25.6 cm/km
Bed Width	1.200	1.520	m
F.S.D.	0.350	0.530	m
Velocity	0.25	0.300	m/sec
CVR	0.89	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 5.200 - 5.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.08/2.76	0.29/10.18	cum/cusec
Bed Slope	1 in 3800	1 in 4000	26.3 cm/km
Bed Width	1.000	1.520	m
F.S.D.	0.300	0.530	m
Velocity	0.23	0.300	m/sec
CVR	0.89	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	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
DESIGN DATA	TOP OF BANK LEVEL	107.615	107.602	107.589	107.576	107.563	107.551	107.538	105.918	105.905	105.892	105.879	105.866	105.854	105.841	105.828	105.815	104.245	104.232	104.219	104.206	104.193	104.176	104.159	104.143	104.126	104.109
	F.S.L.	107.115	107.102	107.089	107.076	107.063	107.051	107.038	105.418	105.405	105.392	105.379	105.366	105.354	105.341	105.328	105.315	103.745	103.732	103.719	103.706	103.693	103.676	103.659	103.643	103.626	103.609
	Proposed Bed Level	106.665	106.652	106.639	106.626	106.613	106.601	106.588	105.068	105.055	105.042	105.029	105.016	105.004	104.991	104.978	104.965	103.445	103.432	103.419	103.406	103.393	103.376	103.359	103.343	103.326	103.309
EXISTING DATA	Bed Level	106.511	106.433	106.355	106.277	106.199	106.121	106.043	105.445	105.379	105.312	105.246	105.178	105.112	105.045	104.680	104.065	103.821	103.577	103.332	103.088	102.843	102.599	102.354			
	TOP OF BANK LEVEL	106.810	106.769	106.729	106.688	106.647	106.606	105.926	105.865	105.805	105.745	105.685	105.625	105.564	105.500	104.673	104.396	104.119	103.843	103.566	103.289	103.012	102.735				
	NSL	106.844	106.737	106.629	106.521	106.414	106.306	106.198	106.069	105.914	105.760	105.605	105.450	105.295	105.140	104.987	104.637	104.277	103.917	103.556	103.196	102.836	102.475	102.115			
	Chainage IN KM																										

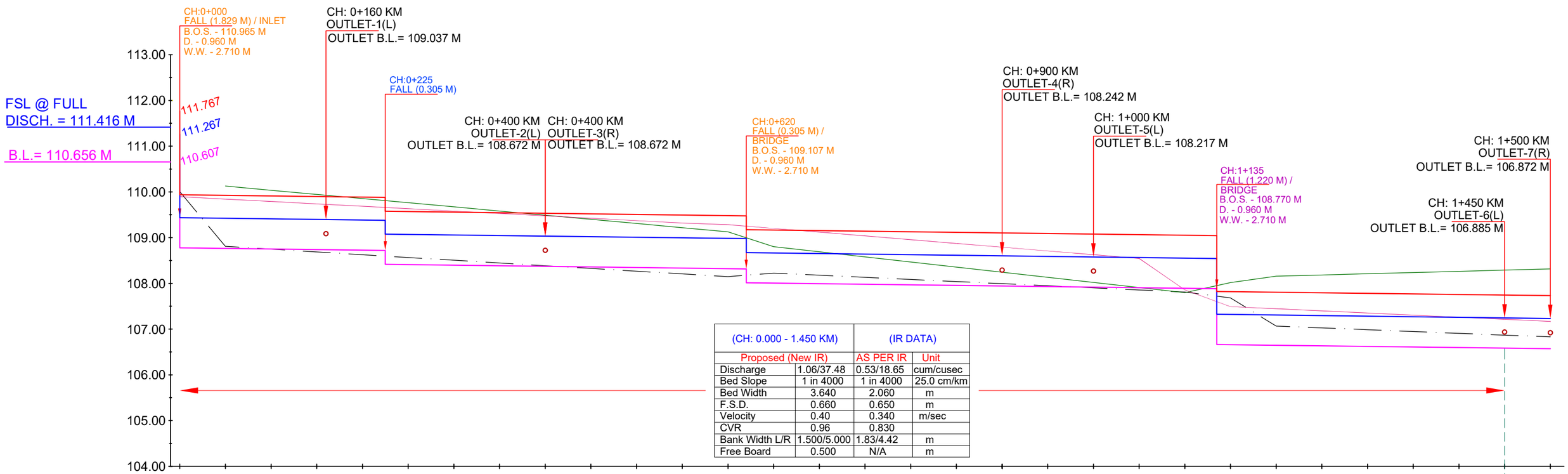
LEGEND			
	NSL		EXISTING BED LEVEL
	EXISTING TOP OF BANK		PROPOSED BED LEVEL
	EXISTING FALL		PROPOSED FSL
	MODIFIED FALL		PROPOSED TOP OF BANK LEVEL
	NEW FALL		

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ LSEC- 04 of 04

AKAUNA MINOR

L- SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 0+000 TO 1+500



(CH: 0.000 - 1.450 KM)	(IR DATA)		
Proposed (New IR)		AS PER IR	Unit
Discharge	1.06/37.48	0.53/18.65	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	3.640	2.060	m
F.S.D.	0.660	0.650	m
Velocity	0.40	0.340	m/sec
CVR	0.96	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	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	111.766 / 109.937	109.925	109.912	109.900	109.887	109.881 / 109.576	109.570	109.557	109.545	109.532	109.520	109.507	109.495	109.482	109.477 / 109.172	109.165	109.152	109.140	109.127	109.115	109.102	109.090	109.077	109.065	109.052	109.044 / 107.824 / 107.820	107.807	107.795	107.782	107.770	107.757	107.745
	F.S.L.	111.266 / 109.437	109.425	109.412	109.400	109.387	109.381 / 109.076	109.070	109.057	109.045	109.032	109.020	109.007	108.995	108.982	108.977 / 108.672	108.665	108.652	108.640	108.627	108.615	108.602	108.590	108.577	108.565	108.552	108.544 / 107.324 / 107.320	107.307	107.295	107.282	107.270	107.257	107.245
	Proposed Bed Level	110.606 / 108.777	108.765	108.752	108.740	108.727	108.721 / 108.416	108.410	108.397	108.385	108.372	108.360	108.347	108.335	108.322	108.317 / 108.012	108.005	107.992	107.980	107.967	107.955	107.942	107.930	107.917	107.905	107.892	107.884 / 106.664 / 106.660	106.647	106.635	106.622	106.610	106.597	106.585
EXISTING DATA	Bed Level	110.005	108.809	108.747	108.688	108.627	108.565	108.506	108.446	108.386	108.326	108.267	108.207	108.147	108.224	108.178	108.132	108.086	108.040	107.994	107.948	107.902	107.856	107.810	107.681	107.066	107.026	106.988	106.946	106.907	106.867	106.830
	TOP OF BANK LEVEL	109.896	109.843	109.791	109.739	109.686	109.634	109.581	109.529	109.477	109.425	109.372	109.320	109.284	109.202	109.120	109.038	108.956	108.874	108.792	108.709	108.627	108.545	107.858	107.491	107.445	107.399	107.353	107.307	107.260	107.215	107.169
	NSL		110.127	110.036	109.945	109.854	109.764	109.673	109.582	109.491	109.400	109.309	109.218	109.127	108.802	108.690	108.579	108.467	108.355	108.244	108.132	108.021	107.909	107.798	108.016	108.158	108.184	108.211	108.237	108.263	108.290	108.316
	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

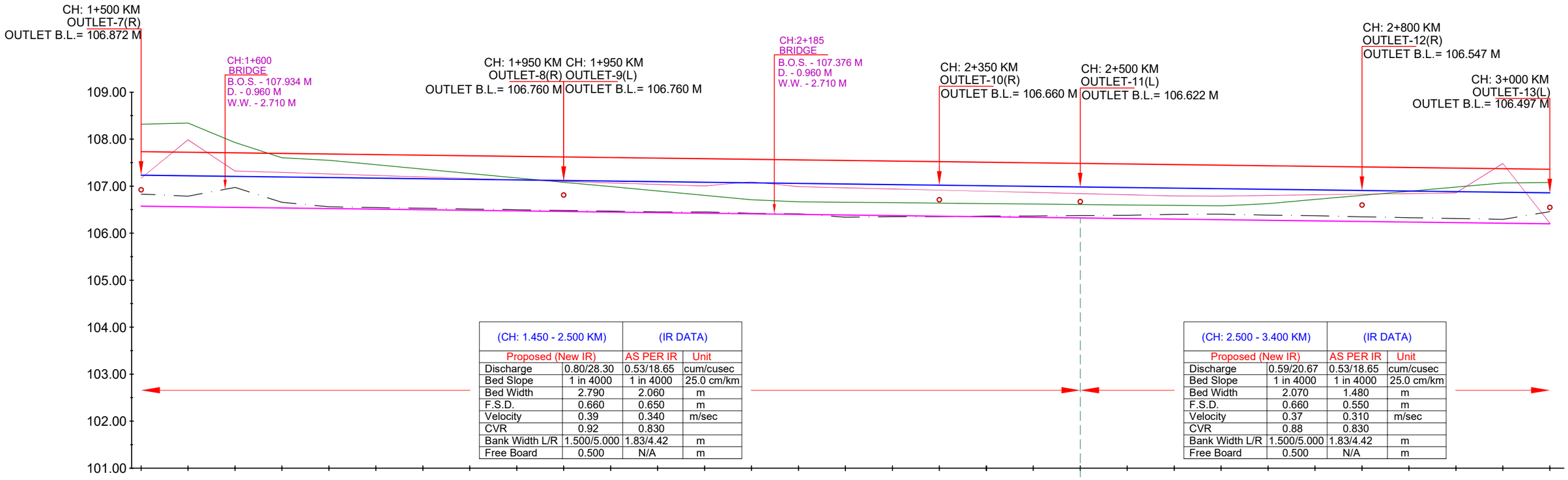
LEGEND

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

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ LSEC- 01 of 04

L- SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 1+500 TO 3+000



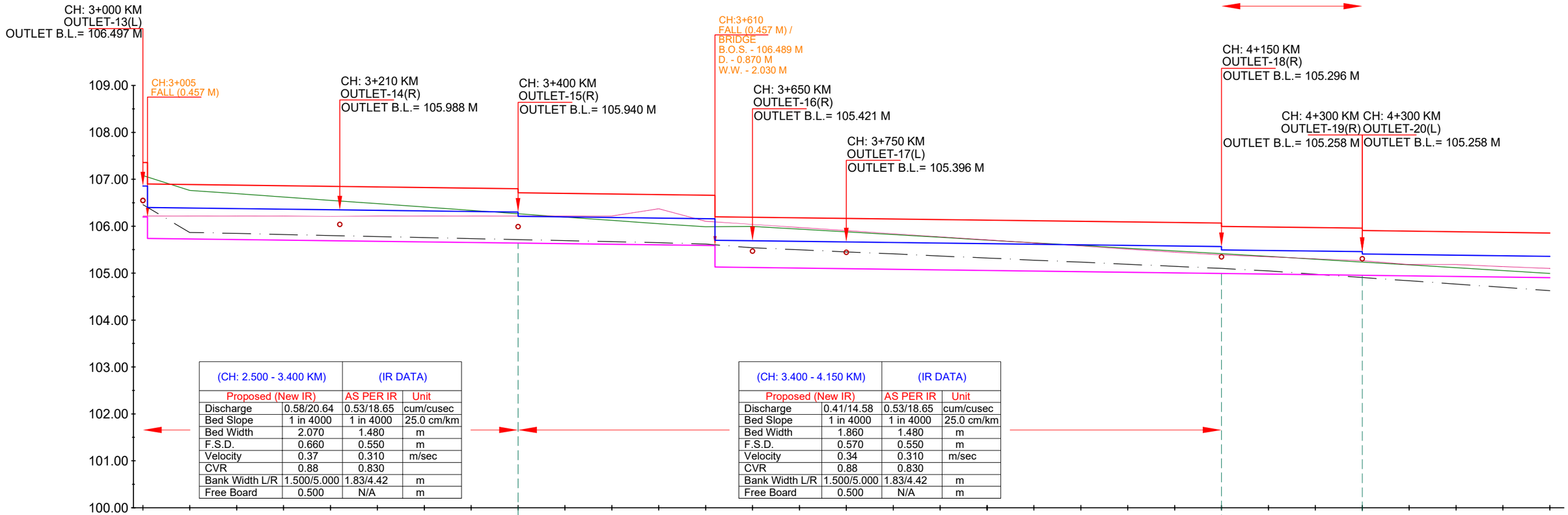
(CH: 1.450 - 2.500 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.80/28.30	0.53/18.65	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.790	2.060	m
F.S.D.	0.660	0.650	m
Velocity	0.39	0.340	m/sec
CVR	0.92	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 2.500 - 3.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.59/20.67	0.53/18.65	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.070	1.480	m
F.S.D.	0.660	0.550	m
Velocity	0.37	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

| | | |

L- SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 3+000 TO 4+500

(CH: 4.150 - 4.300 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.29/10.20	0.53/18.65	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.620	1.480	m
F.S.D.	0.500	0.550	m
Velocity	0.31	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m



(CH: 2.500 - 3.400 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.58/20.64	0.53/18.65	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	2.070	1.480	m
F.S.D.	0.660	0.550	m
Velocity	0.37	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 3.400 - 4.150 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.41/14.58	0.53/18.65	cum/cusec
Bed Slope	1 in 4000	1 in 4000	25.0 cm/km
Bed Width	1.860	1.480	m
F.S.D.	0.570	0.550	m
Velocity	0.34	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

DESIGN DATA	TOP OF BANK LEVEL	107.357	107.356	106.899	106.888	106.875	106.863	106.850	106.838	106.825	106.813	106.800	106.710	106.698	106.685	106.673	106.660	106.658	106.201	106.191	106.178	106.166	106.153	106.141	106.128	106.116	106.103	106.091	106.078	106.066	105.996	105.983	105.971	105.958	105.895	105.882	105.869	105.856
	F.S.L.	106.857	106.856	106.399	106.388	106.375	106.363	106.350	106.338	106.325	106.313	106.300	106.210	106.198	106.185	106.173	106.160	106.158	105.701	105.691	105.678	105.666	105.653	105.641	105.628	105.616	105.603	105.591	105.578	105.566	105.496	105.483	105.471	105.458	105.395	105.382	105.369	105.356
	Proposed Bed Level	106.197	106.196	105.739	105.728	105.715	105.703	105.690	105.678	105.665	105.653	105.640	105.540	105.628	105.615	105.603	105.590	105.588	105.131	105.121	105.108	105.096	105.083	105.071	105.058	105.046	105.033	105.021	105.008	104.996	104.983	104.971	104.958	105.265	104.945	104.932	104.919	104.906
EXISTING DATA	Bed Level	106.459	105.867	105.846	105.823	105.802	105.779	105.758	105.736	105.715	105.692	105.671	105.648	105.619	105.541	105.497	105.452	105.410	105.364	105.323	105.276	105.234	105.188	105.145	105.100	105.046	104.976	104.906	104.837	104.767	104.697	104.627						
	TOP OF BANK LEVEL	106.216	106.216	106.216	106.216	106.211	106.216	106.216	106.216	106.373	106.105	106.039	105.973	105.907	105.841	105.775	105.709	105.643	105.578	105.512	105.446	105.389	105.348	105.307	105.265	105.224	105.182	105.141	105.099									
	NSL	107.079	106.764	106.693	106.622	106.551	106.480	106.409	106.338	106.266	106.195	106.124	106.053	105.987	105.995	105.937	105.879	105.821	105.763	105.705	105.647	105.590	105.532	105.474	105.416	105.357	105.296	105.236	105.176	105.115	105.055	104.995						
	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

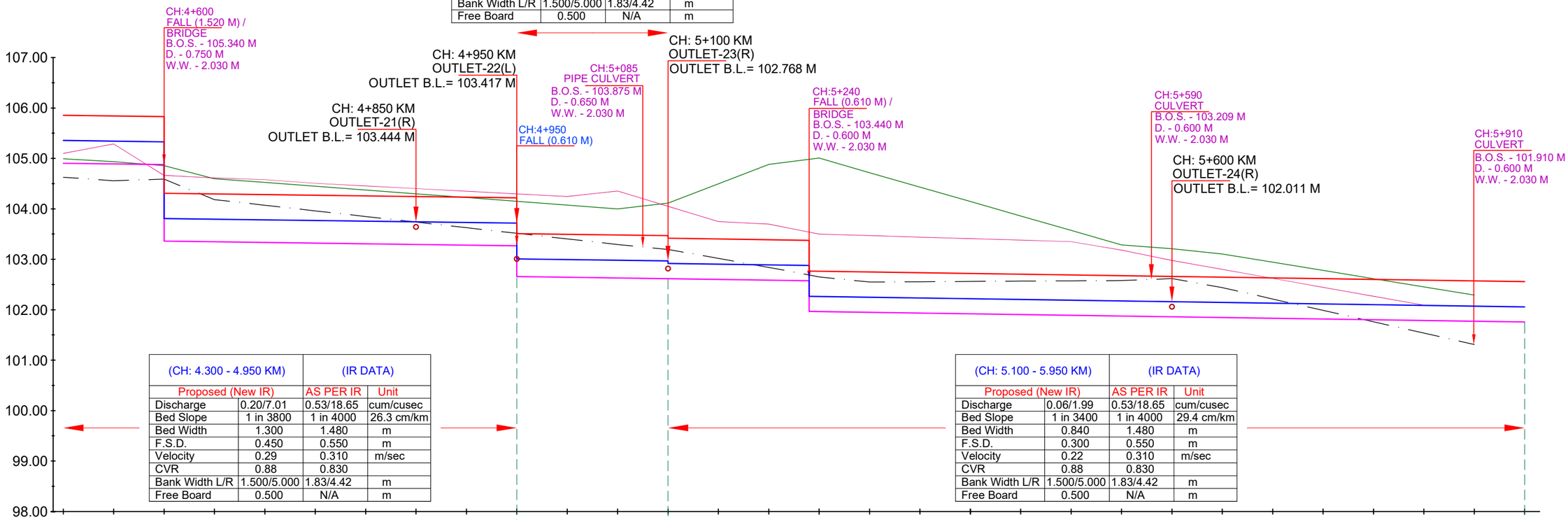
NSL		EXISTING BED LEVEL	
EXISTING TOP OF BANK		PROPOSED BED LEVEL	
EXISTING FALL		PROPOSED FSL	
MODIFIED FALL		PROPOSED TOP OF BANK LEVEL	
NEW FALL			

IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ LSEC- 03 of 04

L- SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
FROM CH 4+500 TO 5+950

(CH: 4.950 - 5.100 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.11/3.73	0.53/18.65	cum/cusec
Bed Slope	1 in 3800	1 in 4000	26.3 cm/km
Bed Width	1.050	1.480	m
F.S.D.	0.350	0.550	m
Velocity	0.25	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m



(CH: 4.300 - 4.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.20/7.01	0.53/18.65	cum/cusec
Bed Slope	1 in 3800	1 in 4000	26.3 cm/km
Bed Width	1.300	1.480	m
F.S.D.	0.450	0.550	m
Velocity	0.29	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	m
Free Board	0.500	N/A	m

(CH: 5.100 - 5.950 KM)		(IR DATA)	
Proposed (New IR)		AS PER IR	Unit
Discharge	0.06/1.99	0.53/18.65	cum/cusec
Bed Slope	1 in 3400	1 in 4000	29.4 cm/km
Bed Width	0.840	1.480	m
F.S.D.	0.300	0.550	m
Velocity	0.22	0.310	m/sec
CVR	0.88	0.830	
Bank Width L/R	1.500/5.000	1.83/4.42	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
DESIGN DATA	TOP OF BANK LEVEL	105.856	105.843	105.829 104.309	104.296	104.283	104.270	104.257	104.244	104.231	104.217 103.507	103.494	103.481	103.468 103.418	103.403	103.388	103.377 102.767 102.764	102.749	102.734	102.720	102.705	102.690	102.676	102.661	102.646	102.631	102.617	102.602	102.587	102.573	102.558
	F.S.L.	105.356	105.343	105.329 103.809	103.796	103.783	103.770	103.757	103.744	103.731	103.717 103.007	102.994	102.981	102.968 102.918	102.903	102.888	102.877 102.267 102.264	102.249	102.234	102.220	102.205	102.190	102.176	102.161	102.146	102.131	102.117	102.102	102.087	102.073	102.058
	Proposed Bed Level	104.906	104.893	104.879 103.359	103.346	103.333	103.320	103.307	103.294	103.281	103.267 102.657	102.644	102.631	102.618	102.603	102.588	102.577 101.967 101.964	101.949	101.934	101.920	101.905	101.890	101.876	101.861	101.846	101.831	101.817	101.802	101.787	101.773	101.758
EXISTING DATA	Bed Level	104.627	104.557	104.590	104.182	104.072	103.960	103.849	103.739	103.626	103.517	103.404	103.294	103.196	103.018	102.840	102.651	102.549	102.554	102.561	102.567	102.573	102.579	102.617	102.439	102.213	101.988	101.762	101.537	101.310	
	TOP OF BANK LEVEL	105.099	105.287	104.665	104.612	104.579	104.507	104.455	104.402	104.350	104.297	104.245	104.354	104.052	103.750	103.699	103.500	103.470	103.440	103.410	103.380	103.351	103.183	102.977	102.800	102.622	102.445	102.267	102.090		
	NSL	104.995	104.934	104.858	104.598	104.524	104.449	104.374	104.299	104.224	104.150	104.075	104.000	104.113	104.497	104.880	105.008	104.717	104.431	104.145	103.859	103.573	103.287	103.211	103.106	102.942	102.779	102.615	102.452	102.289	
	Chainage IN KM																														

LEGEND

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

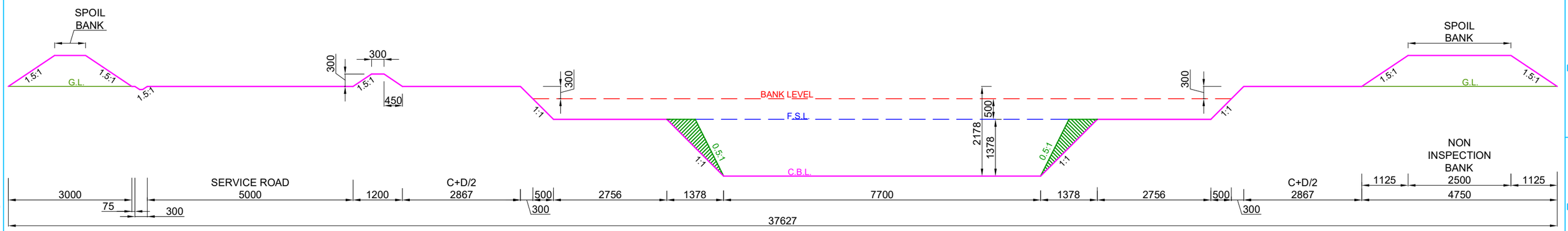
IMPLEMENTING AGENCY :-
WAPCOS LTD.

PROJECT TITLE :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
DRAWING TITLE :-	L- SECTION OF AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DRAWING NO. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ LSEC- 04 of 04

TYPICAL X-SECTION

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.785 KM

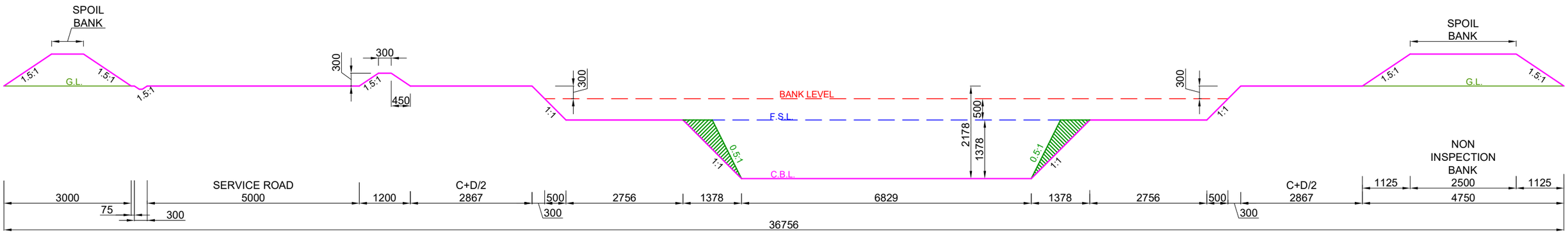
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 1 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 2.785 KM TO CH: 3.950 KM

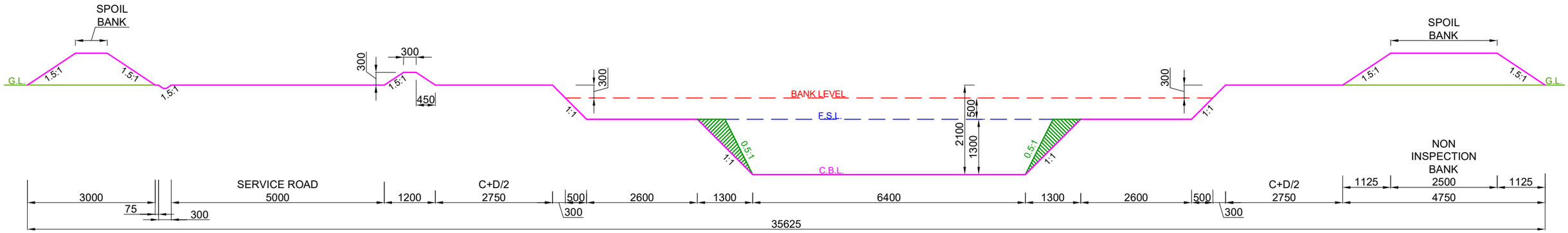
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 2 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 3.950 KM TO CH: 7.700 KM

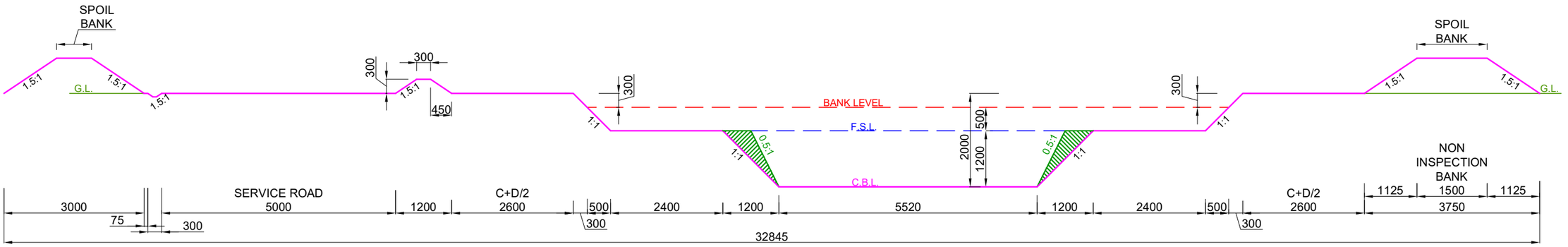
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 3 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 7.700 KM TO CH: 12.500 KM

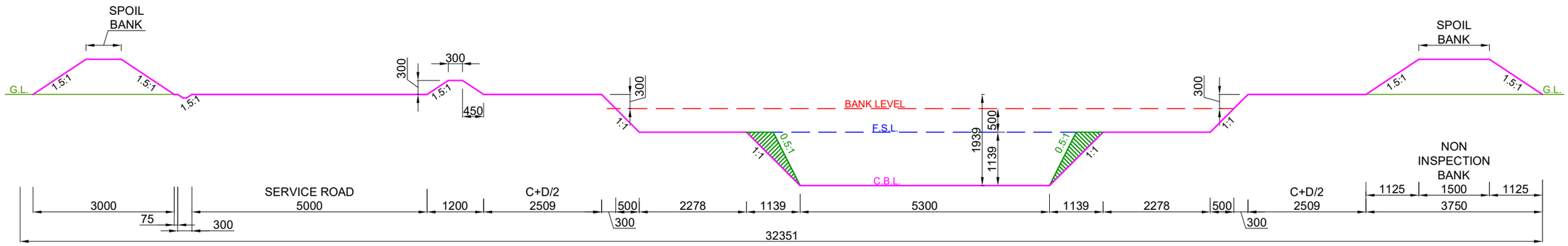
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 4 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 12.500 KM TO CH: 12.810 KM

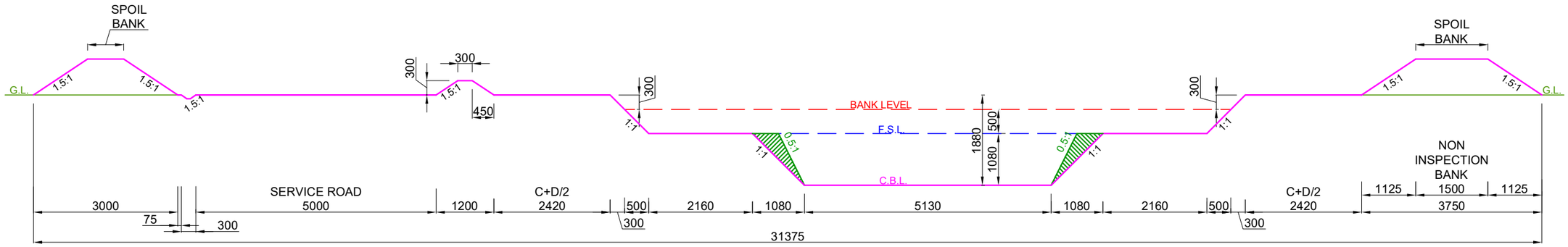
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 5 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 12.810 KM TO CH: 15.240 KM

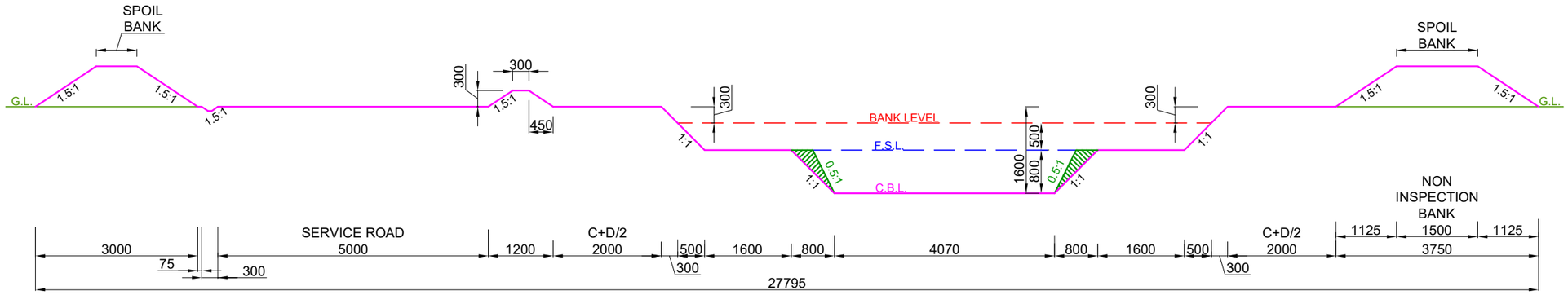
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 6 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 15.240 KM TO CH: 17.065 KM

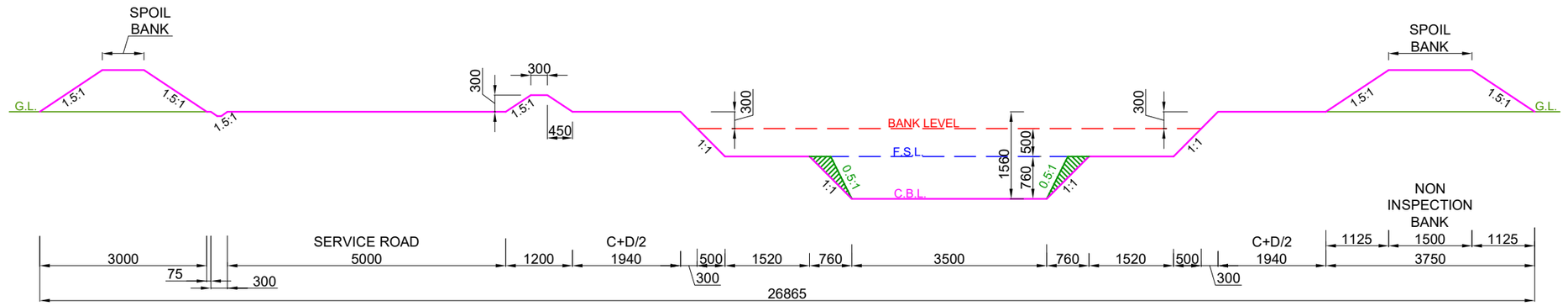
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 7 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL CUTTING



DESIGN SECTION FROM CH: 17.065 KM TO CH: 18.360 KM

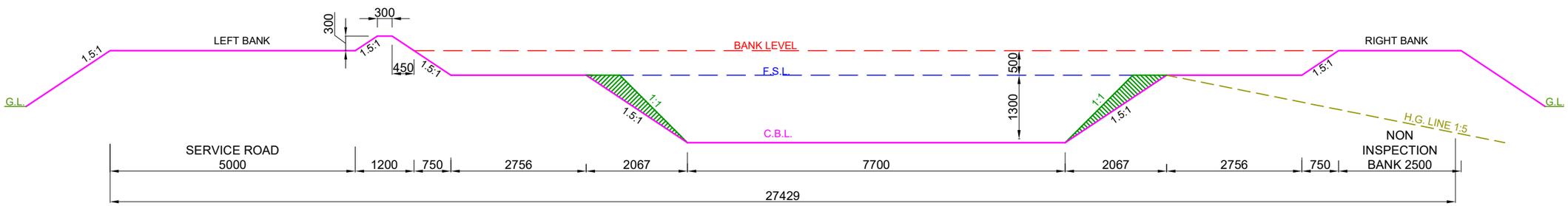
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FC) 8 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.785 KM

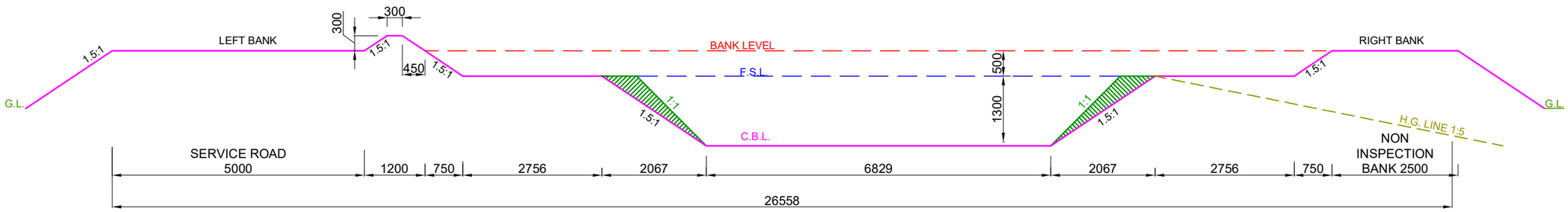
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 1 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 2.785 KM TO CH: 3.950 KM

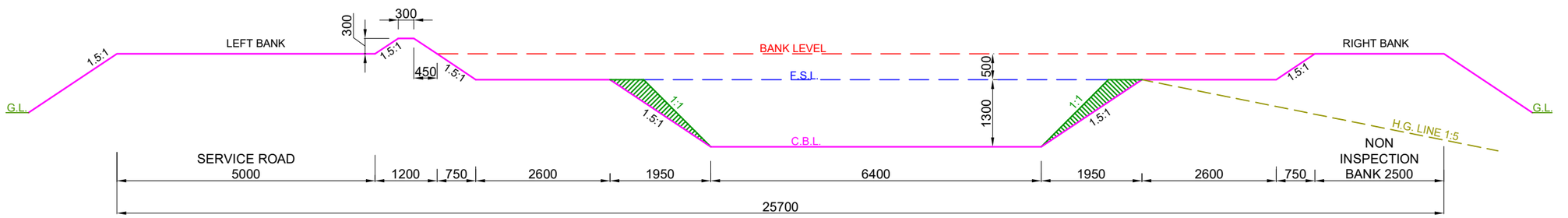
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 2 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 3.950 KM TO CH: 7.700 KM

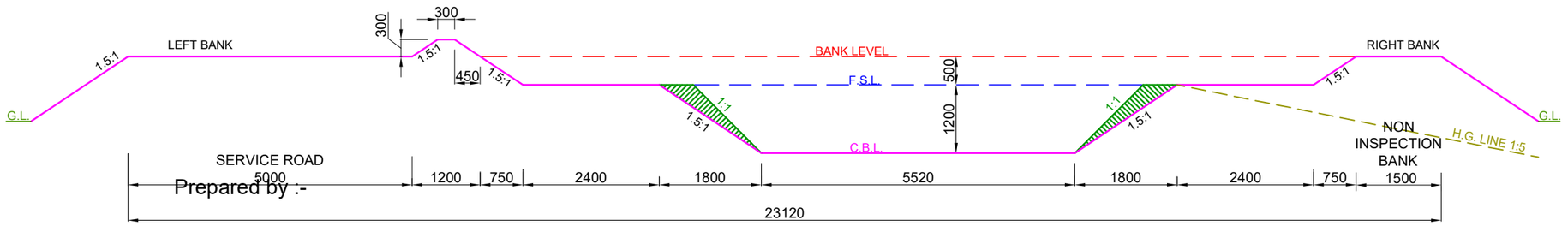
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 3 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



Prepared by :-

DESIGN SECTION FROM CH: 7.700 KM TO CH: 12.500 KM

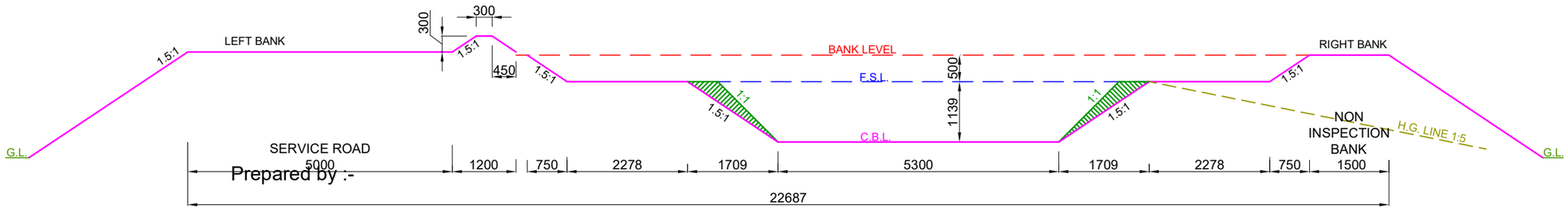
NOTE:-

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		WAPCOS LTD.		
	CUT AREA		Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 4 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



Prepared by :-

DESIGN SECTION FROM CH: 12.500 KM TO CH: 12.810 KM

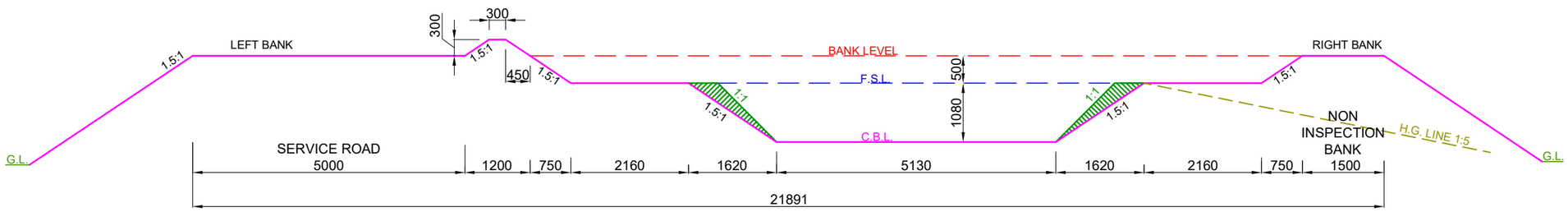
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 5 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 12.810 KM TO CH: 15.240 KM

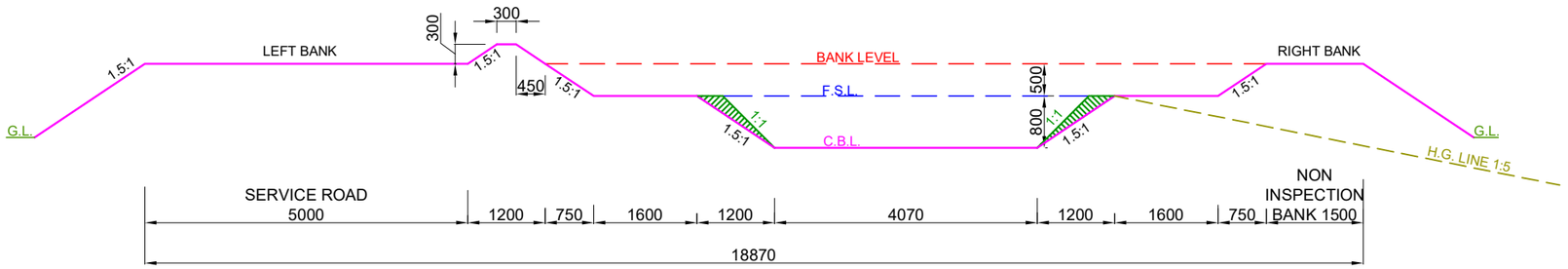
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 6 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 15.240 KM TO CH: 17.065 KM

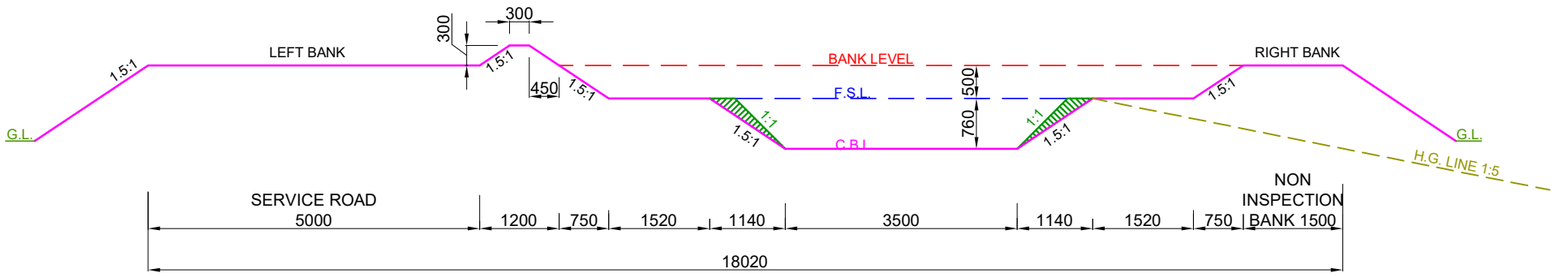
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 7 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR FULL FILLING



DESIGN SECTION FROM CH: 17.065 KM TO CH: 18.360 KM

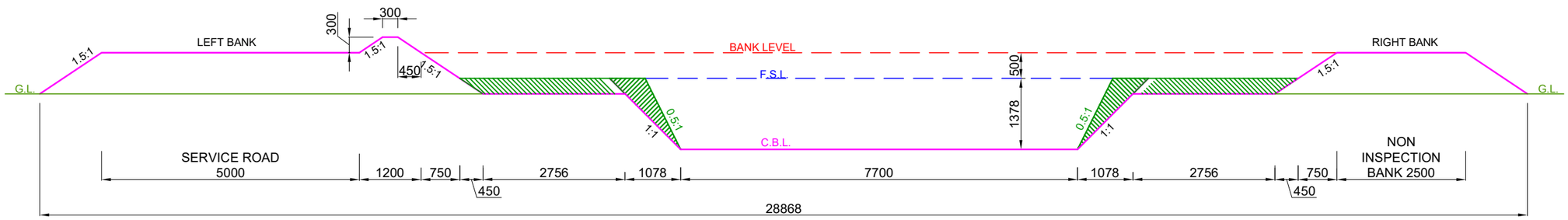
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(FF) 8 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.785 KM

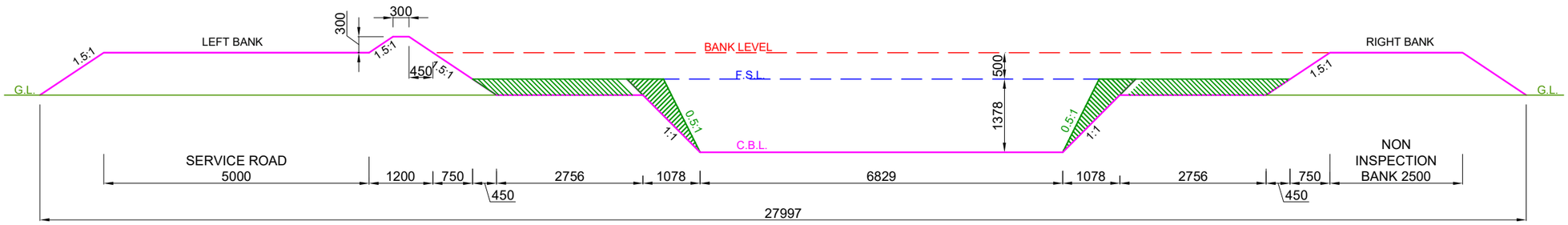
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 1 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 2.785 KM TO CH: 3.950 KM

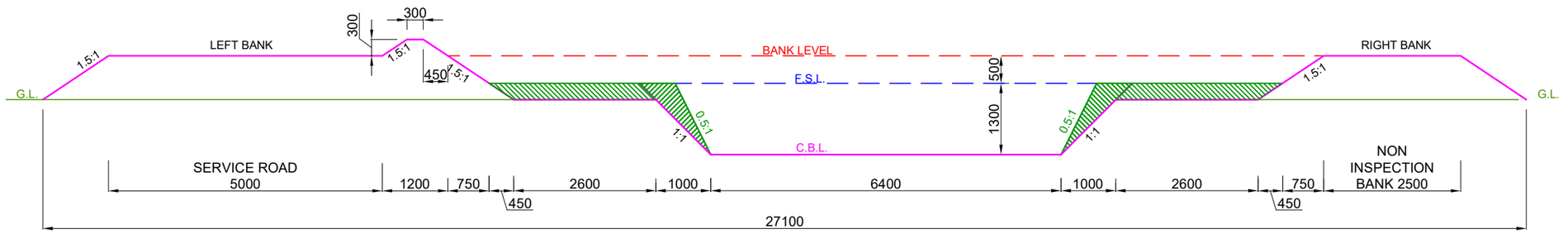
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 2 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 3.950 KM TO CH: 7.700 KM

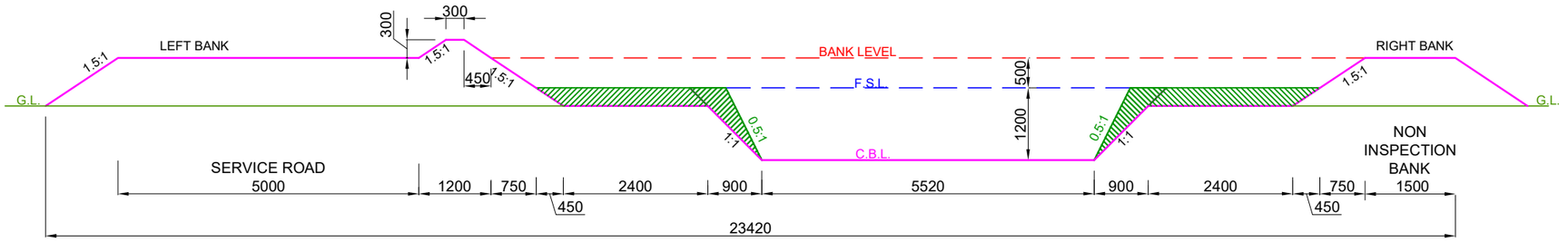
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 3 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 7.700 KM TO CH: 12.500 KM

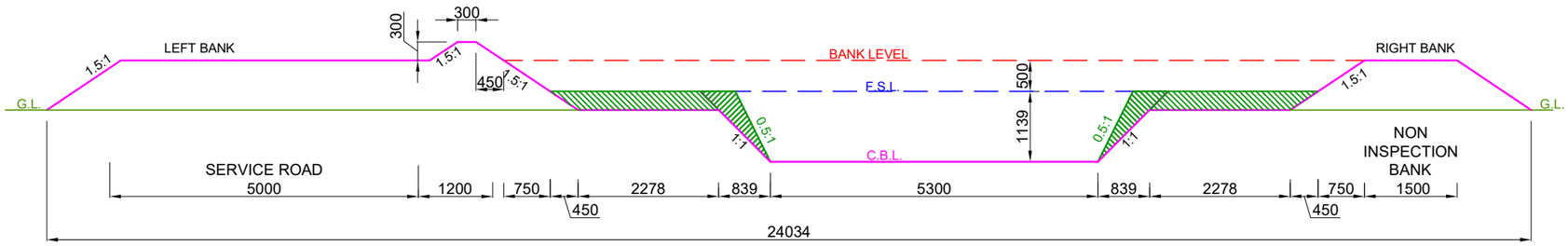
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 4 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 12.500 KM TO CH: 12.810 KM

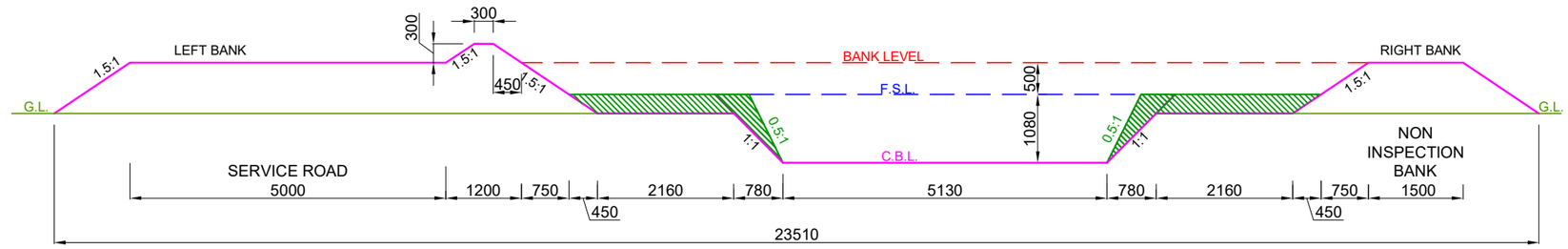
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 5 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 12.810 KM TO CH: 15.240 KM

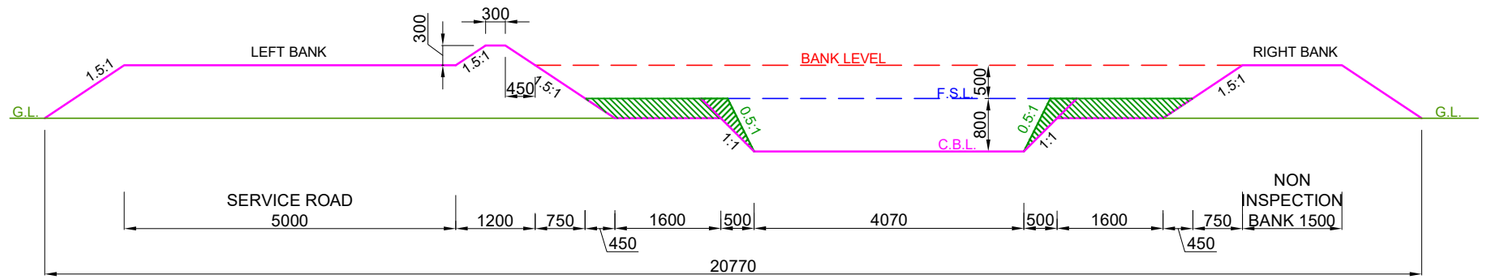
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 6 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 15.240 KM TO CH: 17.065 KM

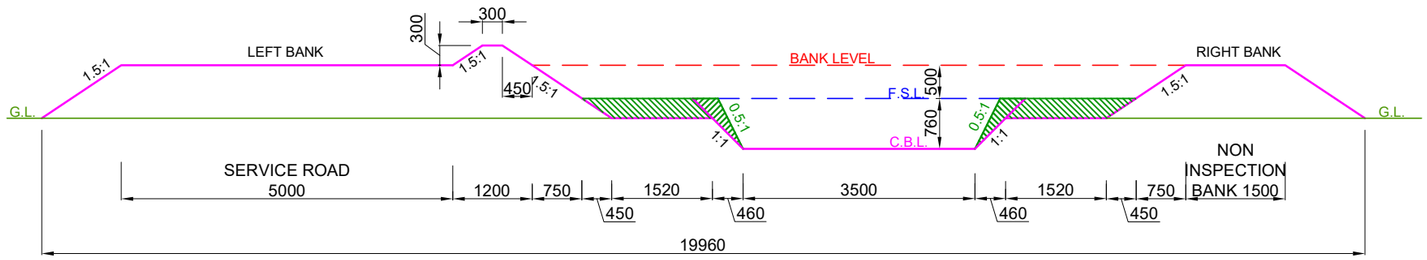
NOTE:-

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 7 of 8

TYPICAL X - SECTION OF KAPASIYA DISTRIBUTARY
(OFFTAKE FROM RD - 68+310 KM. (LT), NORTH KOEL RIGHT MAIN CANAL)

DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



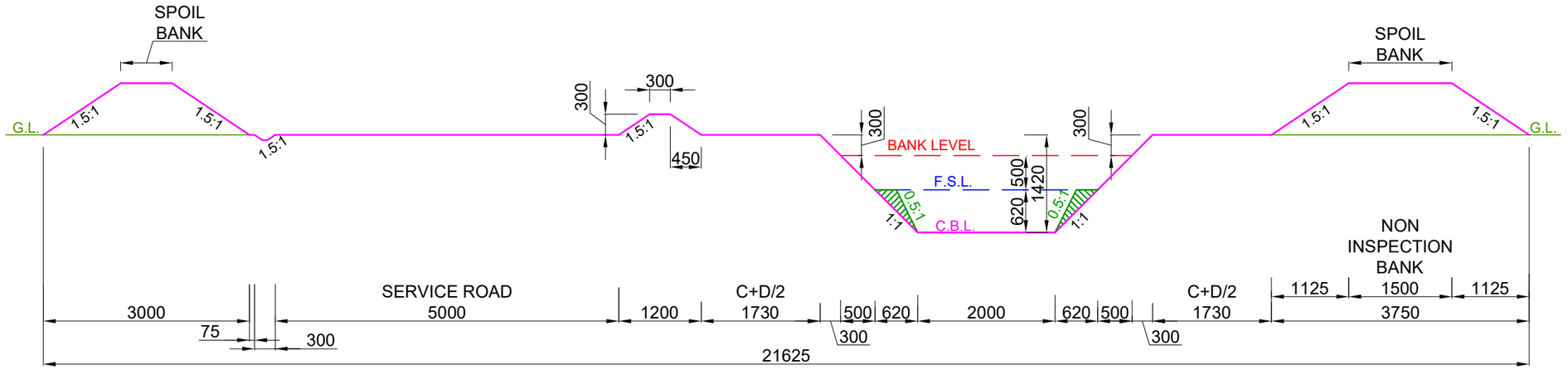
DESIGN SECTION FROM CH: 17.065 KM TO CH: 18.360 KM

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 KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC /TYP-(PCF) 8 of 8

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



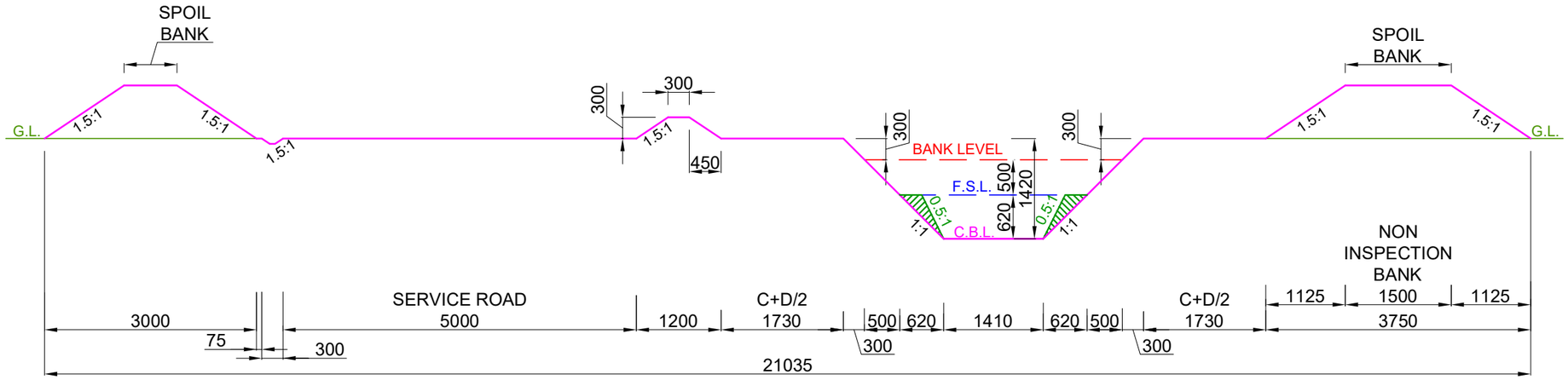
DESIGN SECTION FROM CH: 0.000 KM TO CH: 1.150 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FC) 1 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



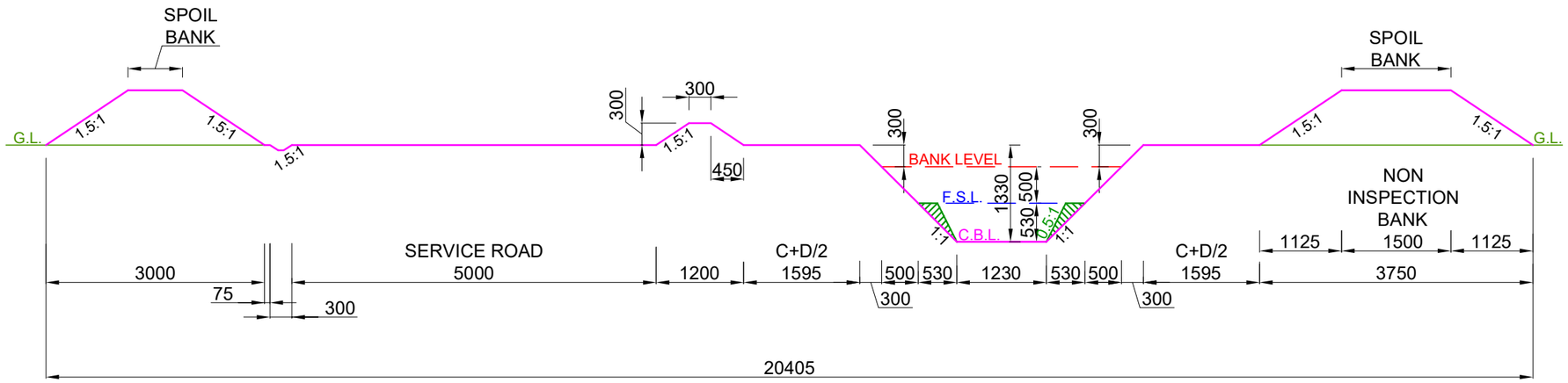
DESIGN SECTION FROM CH: 1.150 KM TO CH: 1.815 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FC) 2 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



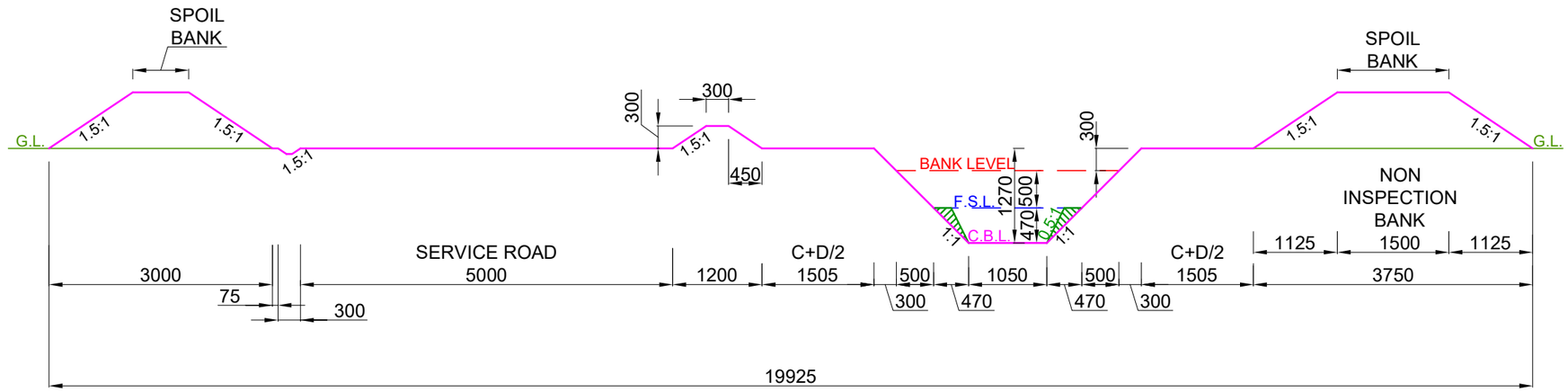
DESIGN SECTION FROM CH: 1.815 KM TO CH: 2.550 KM

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.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	CUT AREA		Drawing Title :-	X SECTION OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	FILL AREA		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FC) 3 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



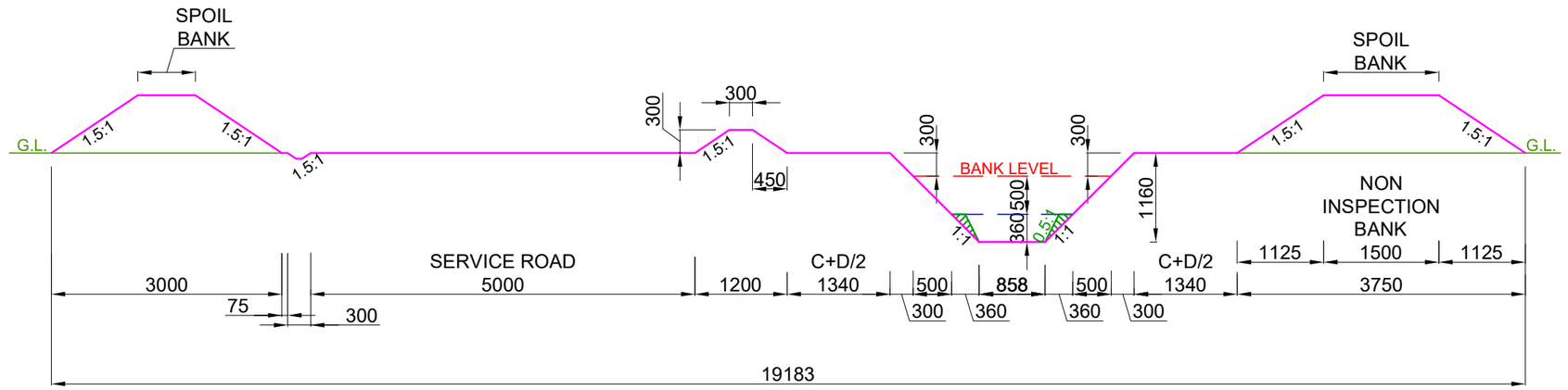
DESIGN SECTION FROM CH: 2.550 KM TO CH: 3.010 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FC) 4 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



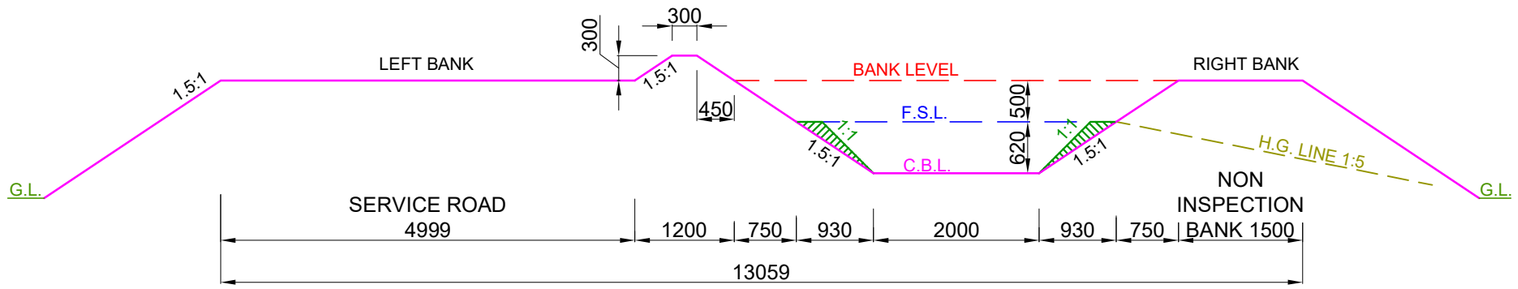
DESIGN SECTION FROM CH: 3.010 KM TO CH: 3.800 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FC) 5 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



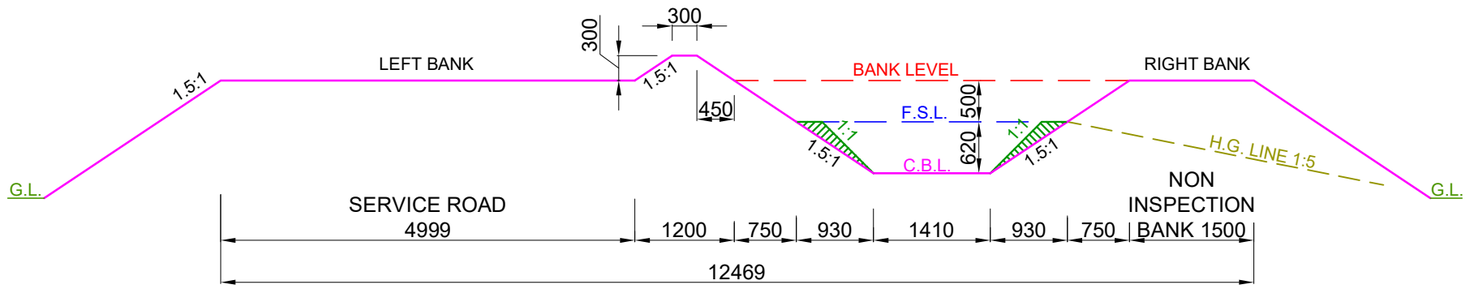
DESIGN SECTION FROM CH: 0.000 KM TO CH: 1.150 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FF) 1 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



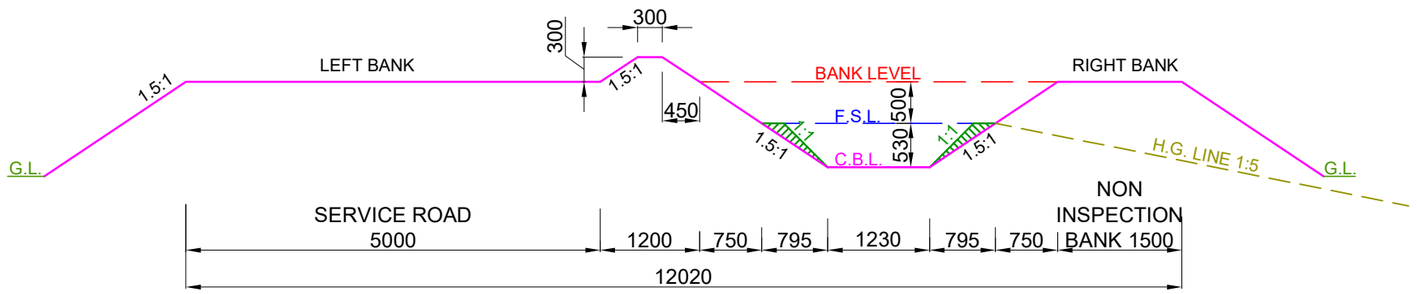
DESIGN SECTION FROM CH: 1.150 KM TO CH: 1.815 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FF) 2 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



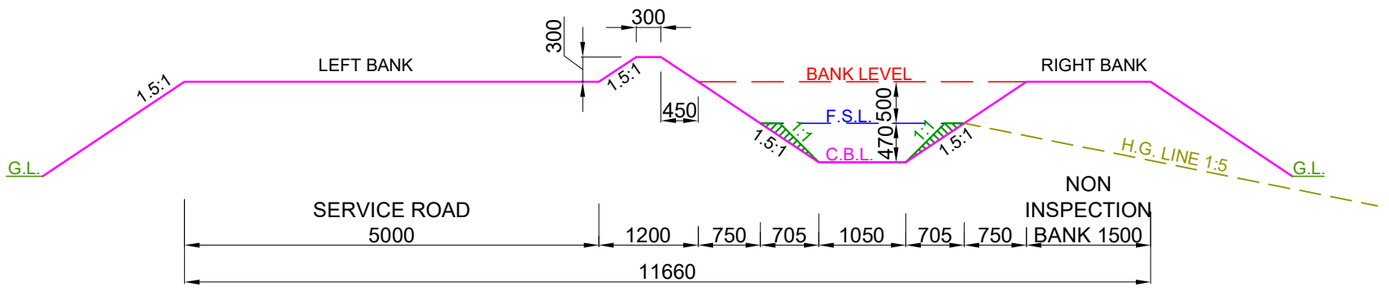
DESIGN SECTION FROM CH: 1.815 KM TO CH: 2.550 KM

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 :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FF) 3 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



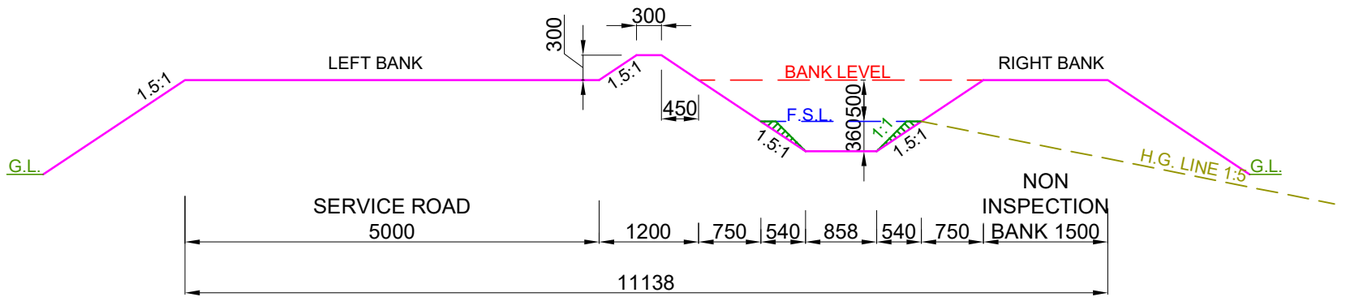
DESIGN SECTION FROM CH: 2.550 KM TO CH: 3.010 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FF) 4 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



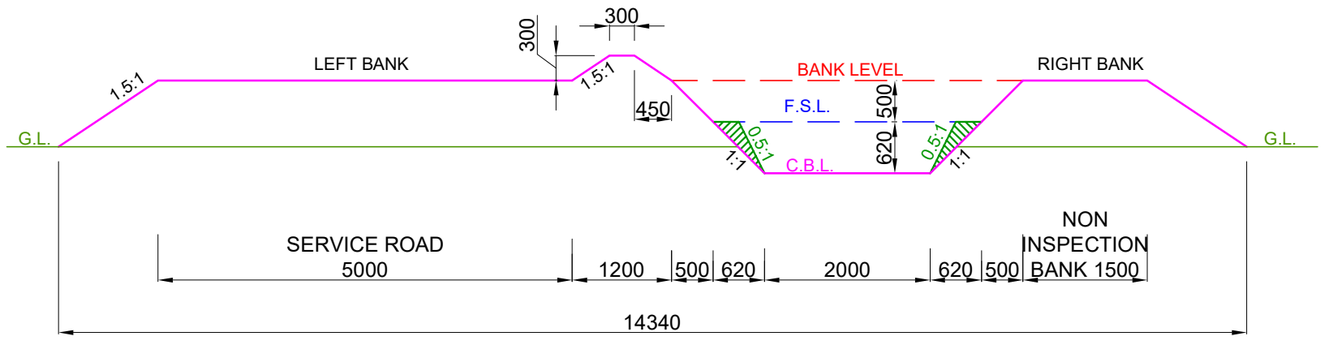
DESIGN SECTION FROM CH: 3.010 KM TO CH: 3.800 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(FF) 5 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



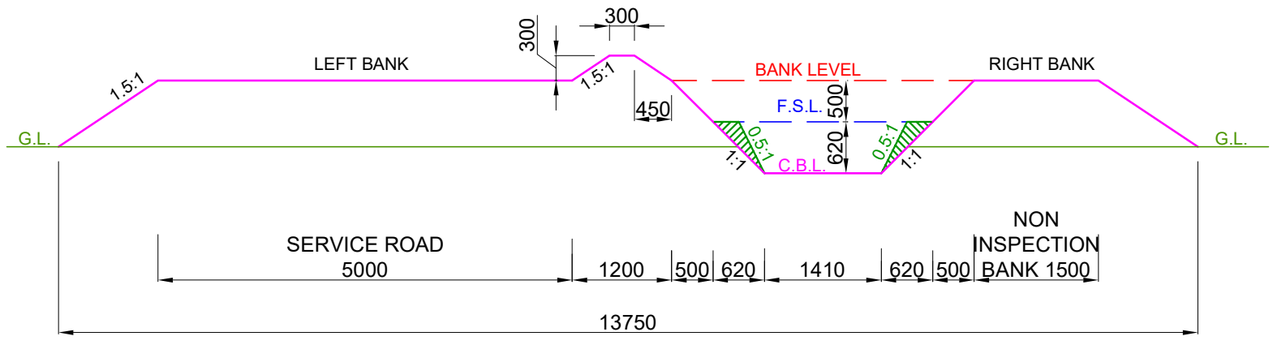
DESIGN SECTION FROM CH: 0.000 KM TO CH: 1.150 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(PCF) 1 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



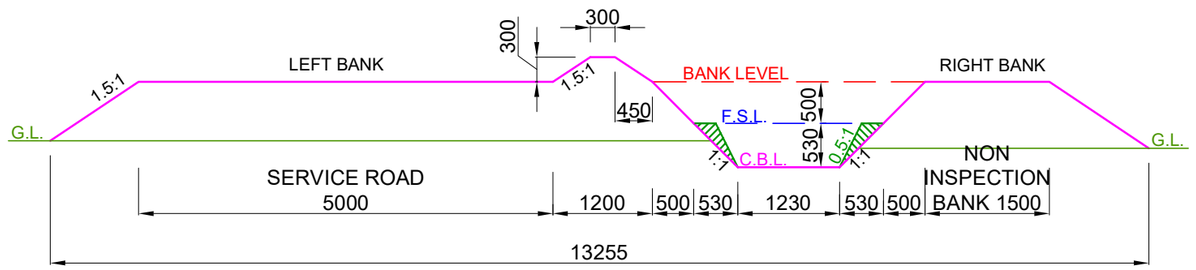
DESIGN SECTION FROM CH: 1.150 KM TO CH: 1.815 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(PCF) 2 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



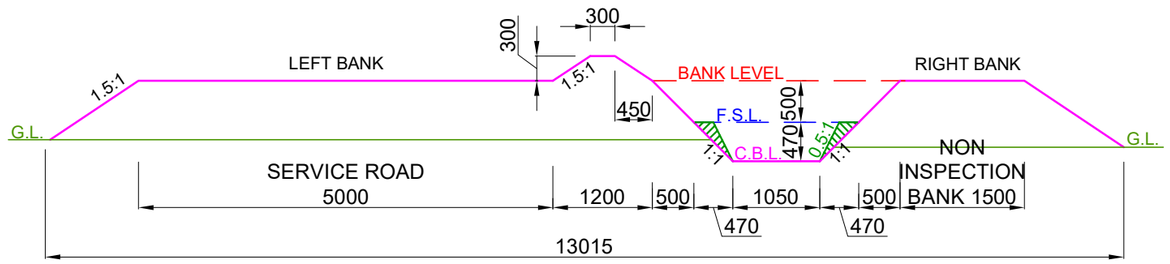
DESIGN SECTION FROM CH: 1.815 KM TO CH: 2.550 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(PCF) 3 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



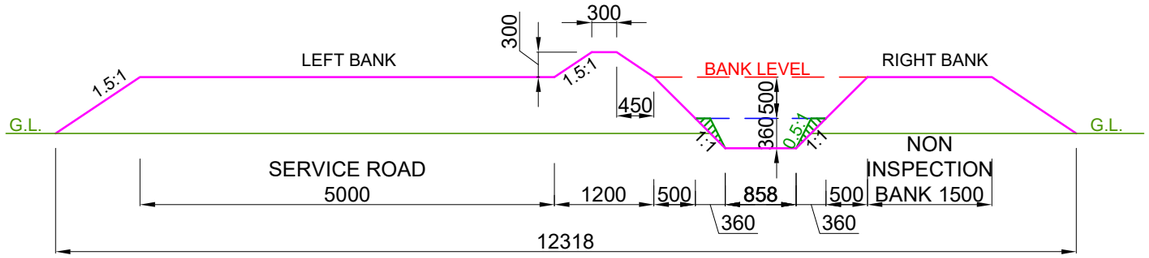
DESIGN SECTION FROM CH: 2.550 KM TO CH: 3.010 KM

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 NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(PCF) 4 of 5

TYPICAL X - SECTION OF NARCHI MINOR
(OFFTAKE FROM RD - 2+820 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



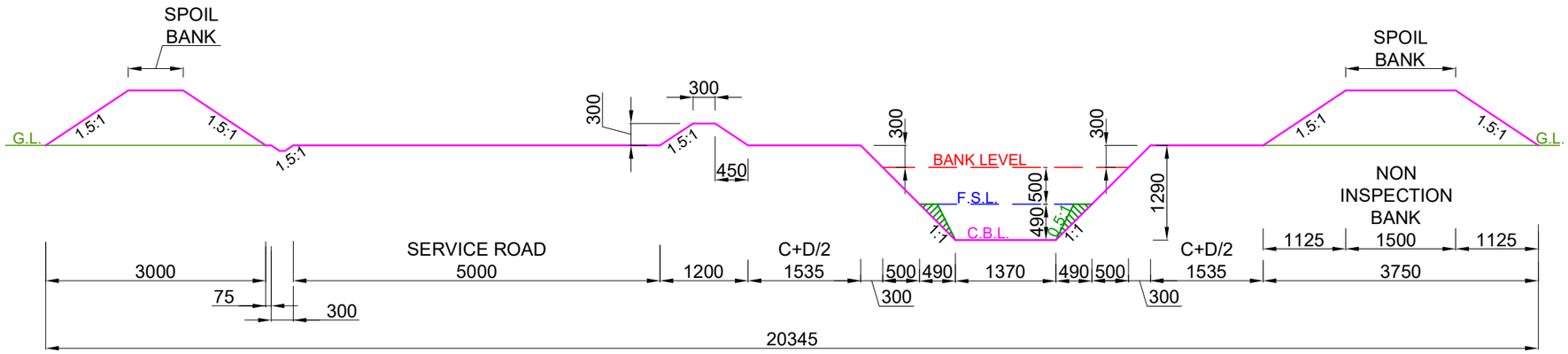
DESIGN SECTION FROM CH: 3.010 KM TO CH: 3.800 KM

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 :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC /TYP-(PCF) 5 of 5

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



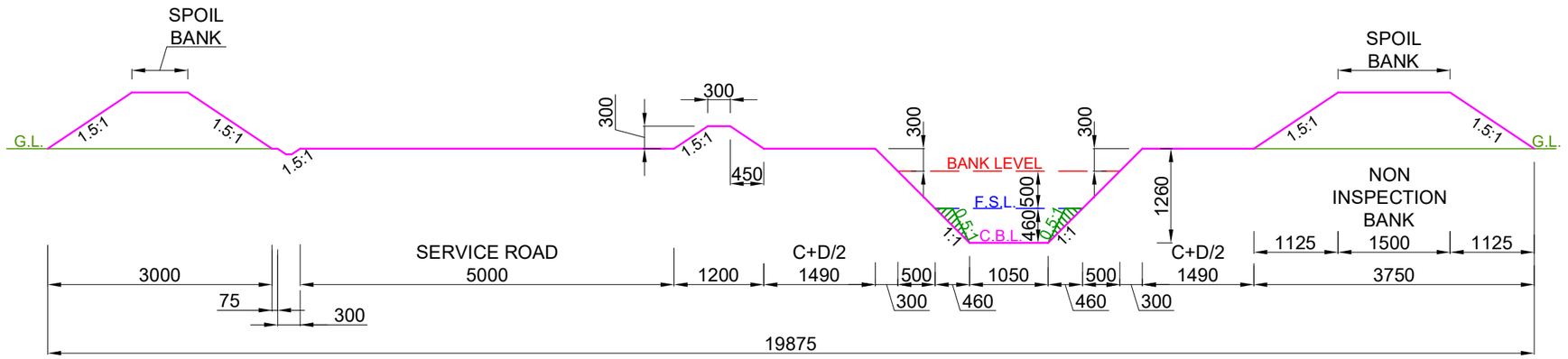
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.100 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FC) 1 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



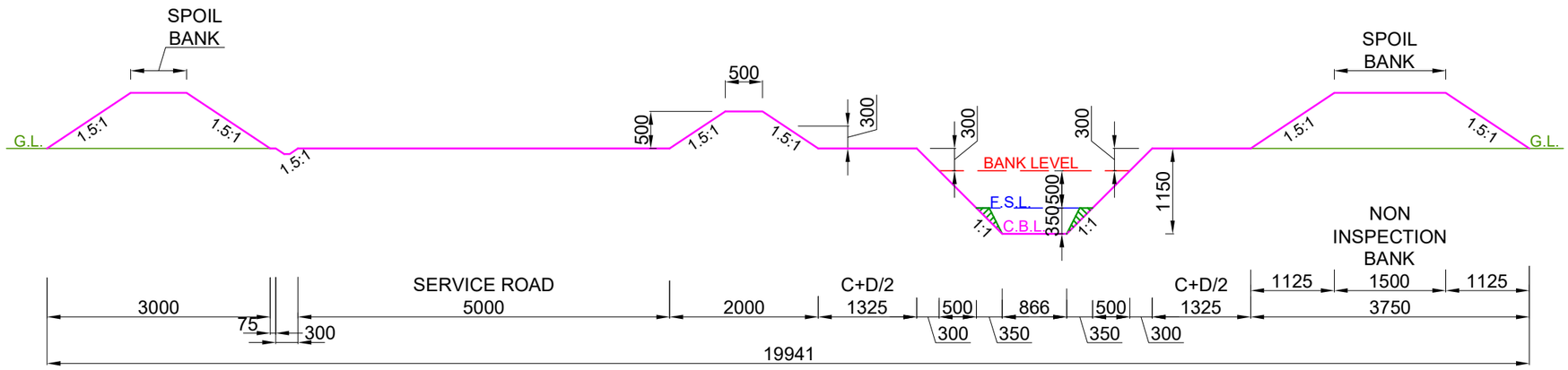
DESIGN SECTION FROM CH: 0.100 KM TO CH: 1.550 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FC) 2 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



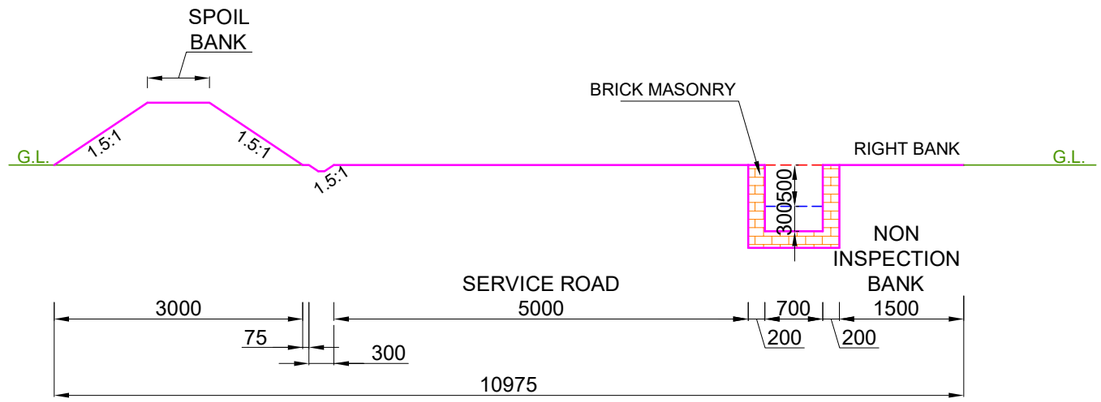
DESIGN SECTION FROM CH: 1.550 KM TO CH: 2.100 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FC) 3 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



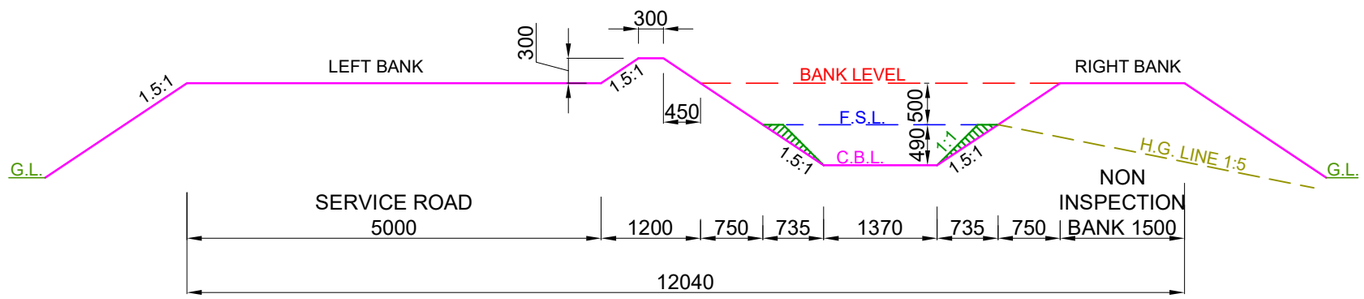
DESIGN SECTION FROM CH: 2.100 KM TO CH: 2.850 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FC) 4 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



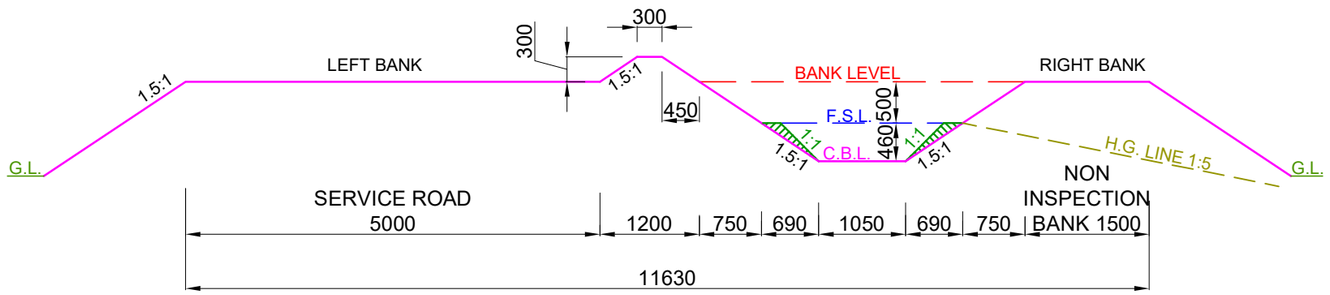
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.100 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FF) 1 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



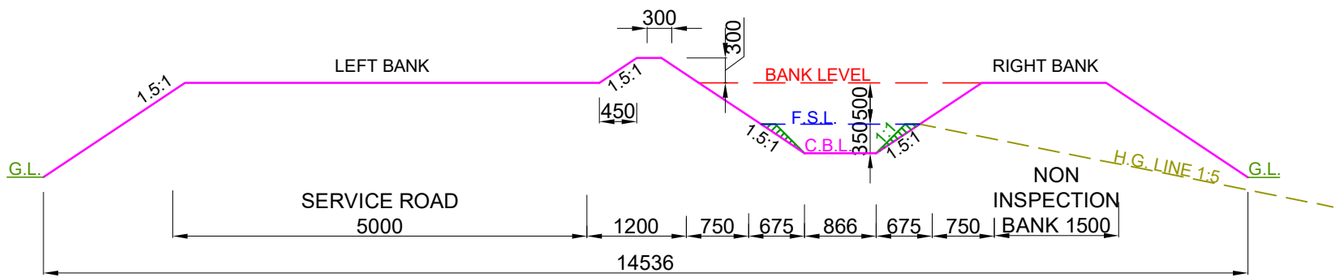
DESIGN SECTION FROM CH: 0.100 KM TO CH: 1.550 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FF) 2 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



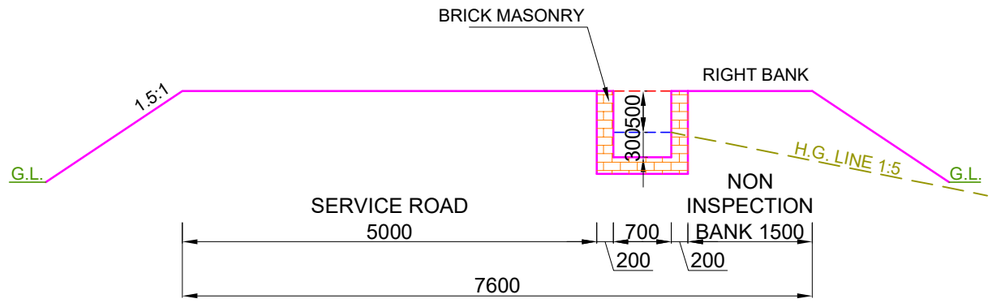
DESIGN SECTION FROM CH: 1.550 KM TO CH: 2.100 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FF) 3 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



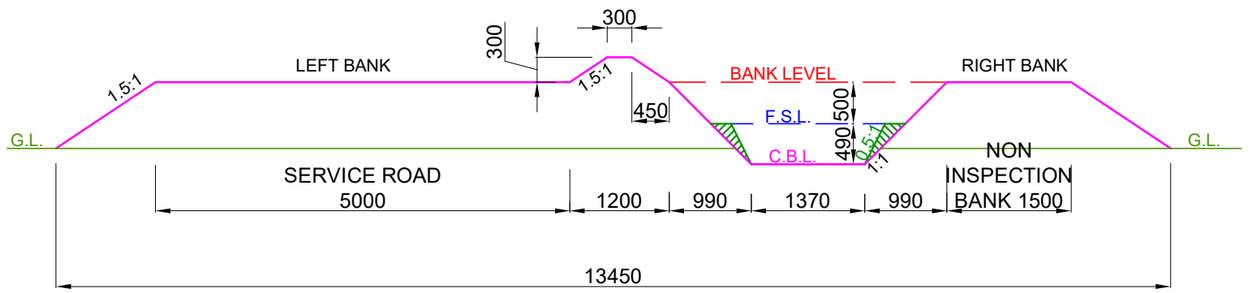
DESIGN SECTION FROM CH: 2.100 KM TO CH: 2.850 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(FF) 4 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



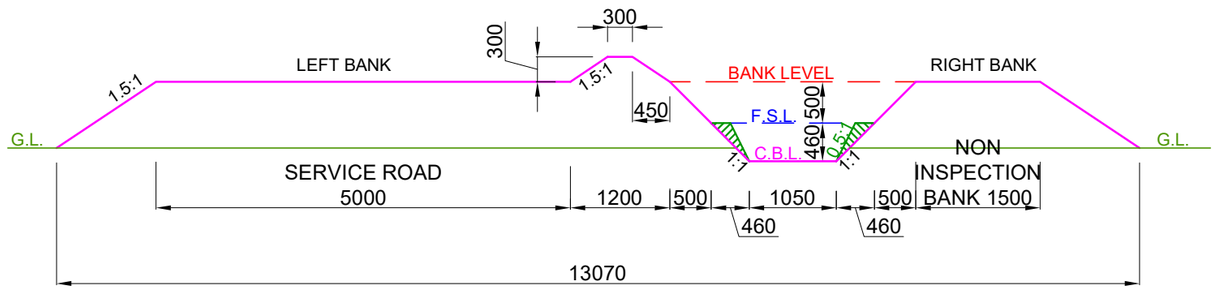
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.100 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(PCF) 1 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



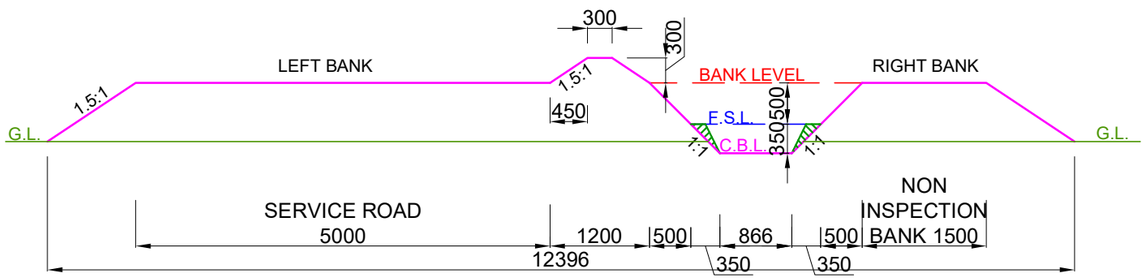
DESIGN SECTION FROM CH: 0.100 KM TO CH: 1.550 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(PCF) 2 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



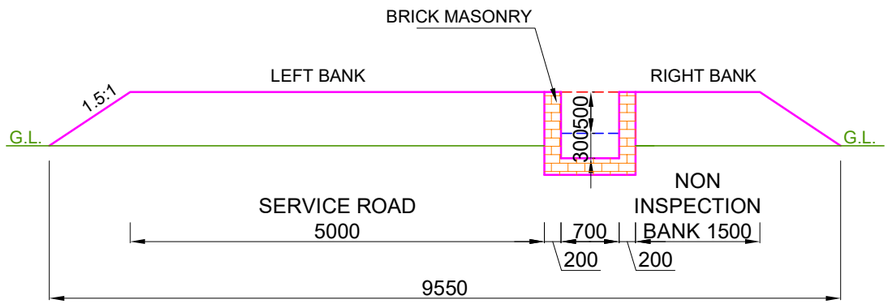
DESIGN SECTION FROM CH: 1.550 KM TO CH: 2.100 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(PCF) 3 of 4

TYPICAL X - SECTION OF BHAHUARA MINOR
(OFFTAKE FROM RD - 3+920 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



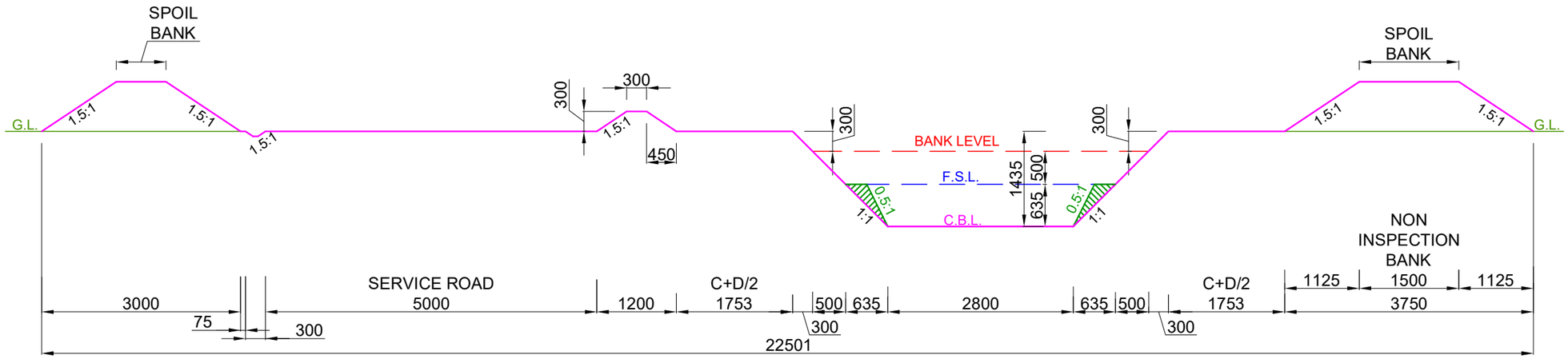
DESIGN SECTION FROM CH: 2.100 KM TO CH: 2.850 KM

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 BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC /TYP-(PCF) 4 of 4

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



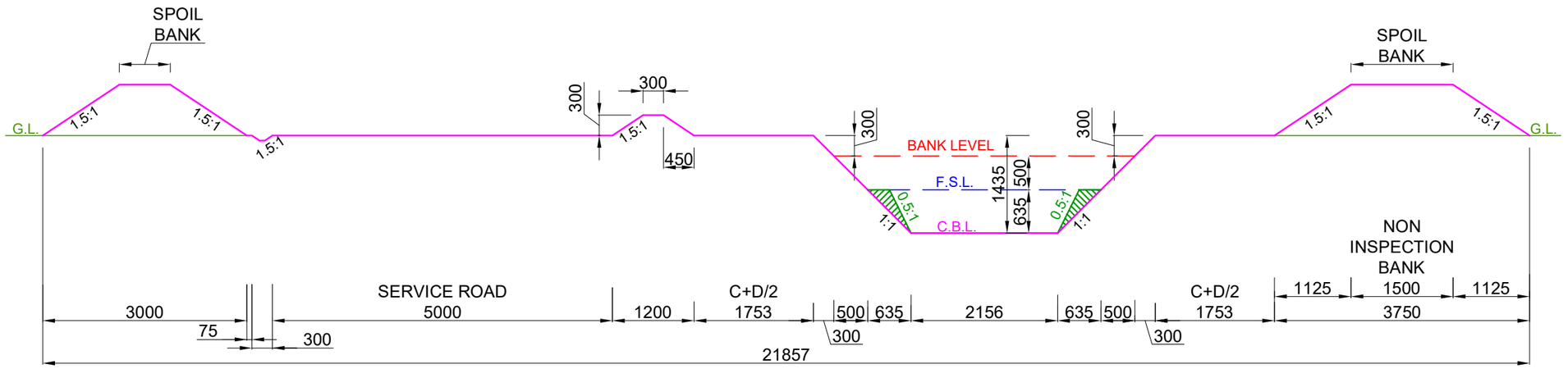
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.550 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 1 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



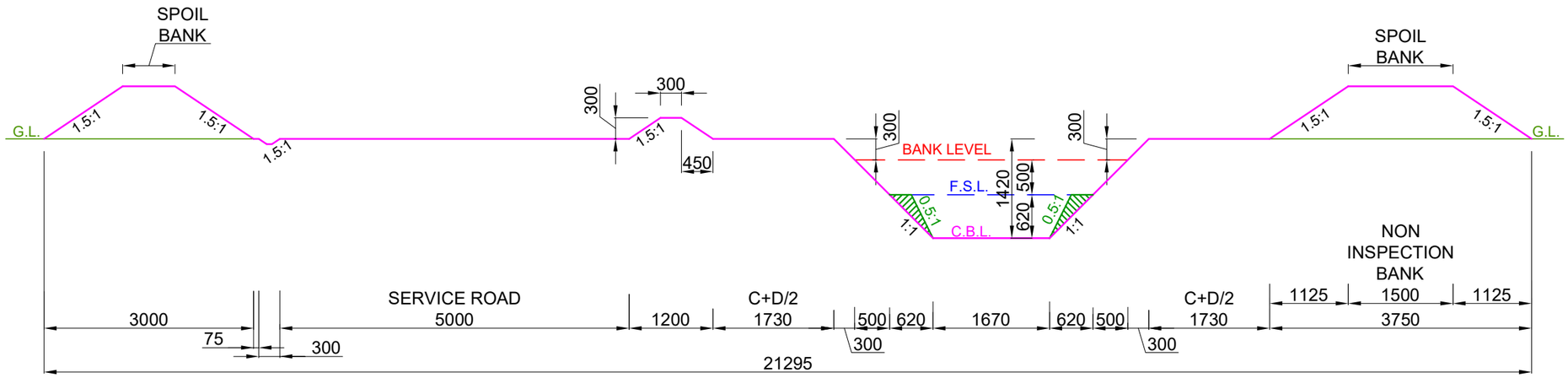
DESIGN SECTION FROM CH: 0.550 KM TO CH: 2.100 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 2 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



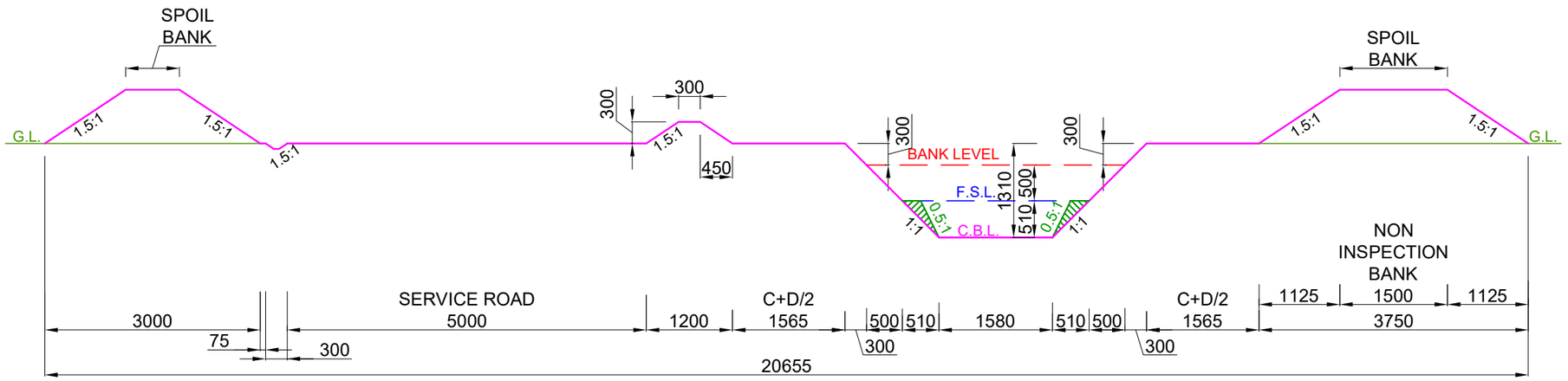
DESIGN SECTION FROM CH: 2.100 KM TO CH: 2.590 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 3 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



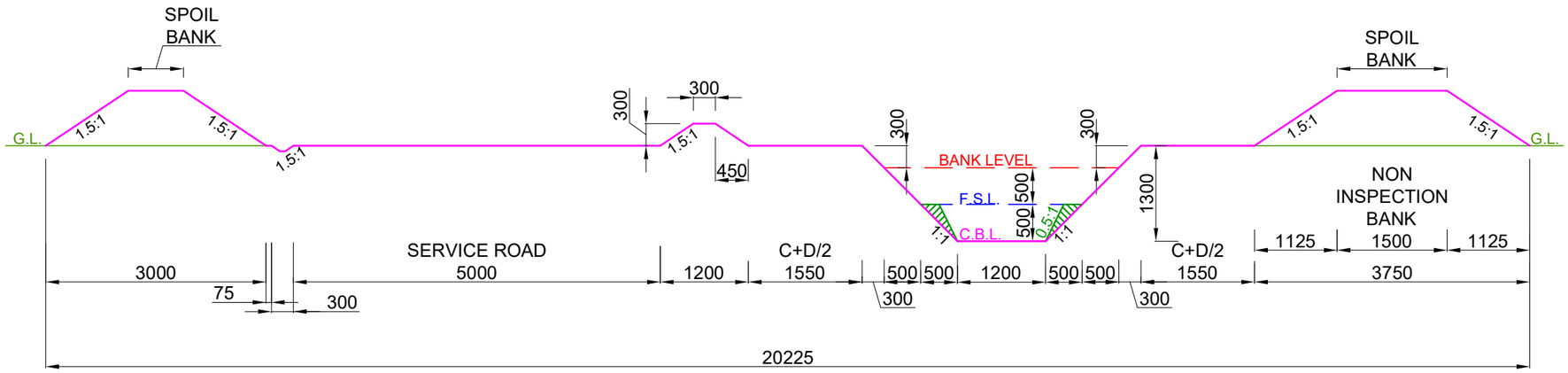
DESIGN SECTION FROM CH: 2.590 KM TO CH: 2.900 KM

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.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	CUT AREA		Drawing Title :-	X SECTION OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	FILL AREA		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 4 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



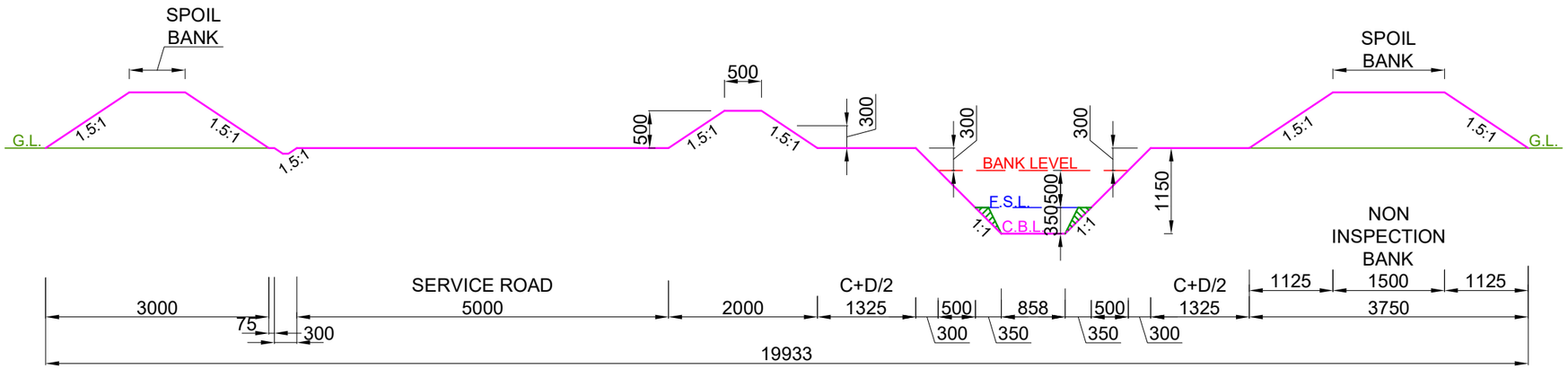
DESIGN SECTION FROM CH: 2.900 KM TO CH: 3.850 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 5 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



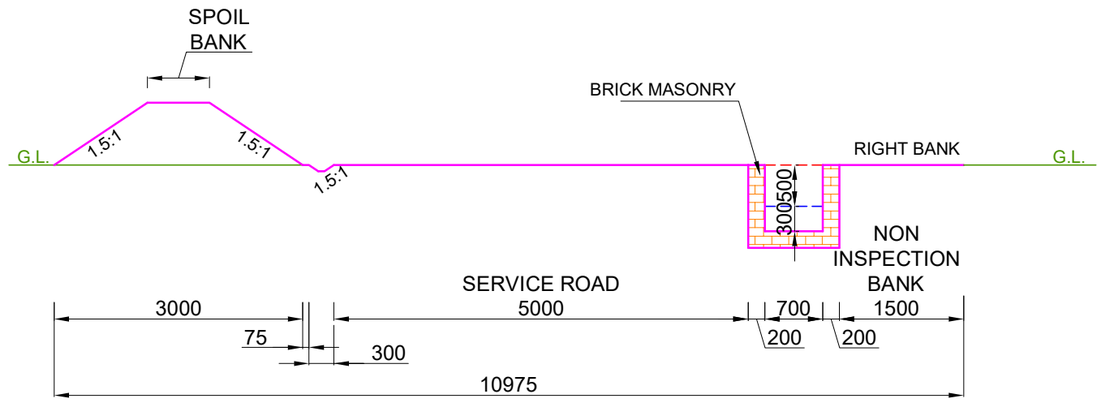
DESIGN SECTION FROM CH: 3.850 KM TO CH: 4.030 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 6 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



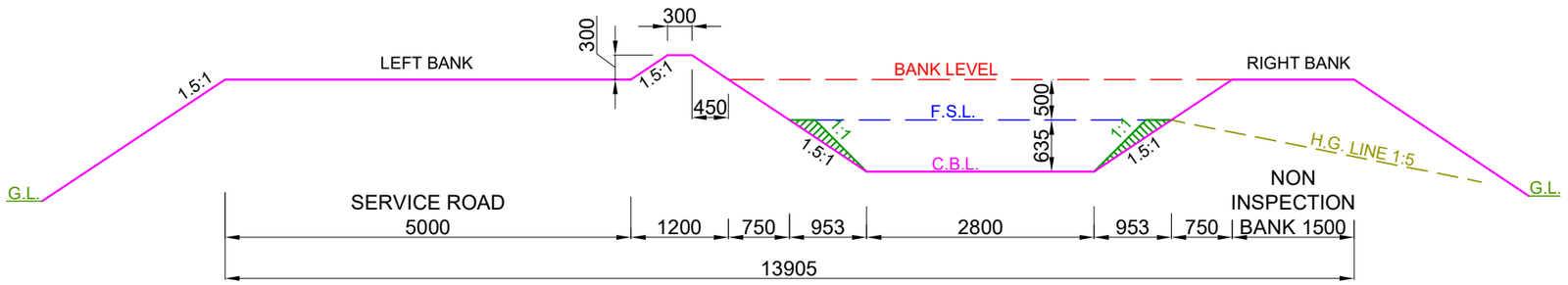
DESIGN SECTION FROM CH: 4.030 KM TO CH: 4.190 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FC) 7 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



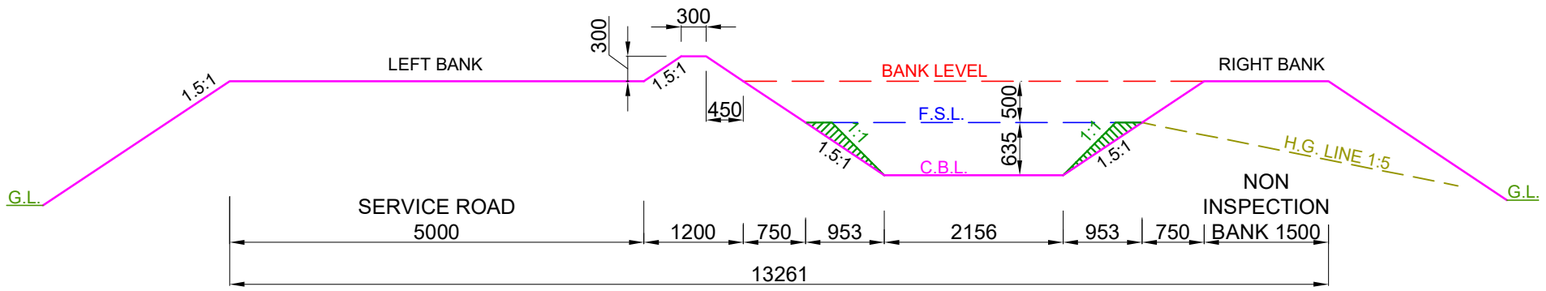
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.550 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 1 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



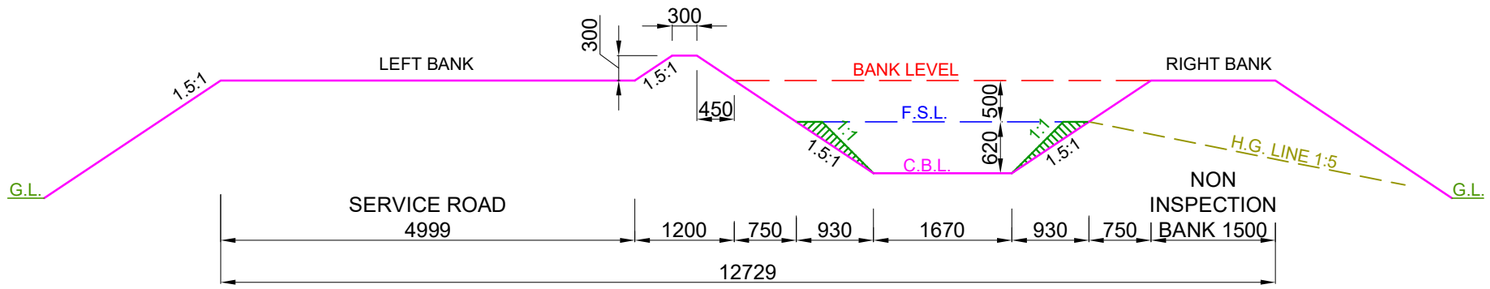
DESIGN SECTION FROM CH: 0.550 KM TO CH: 2.100 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 2 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



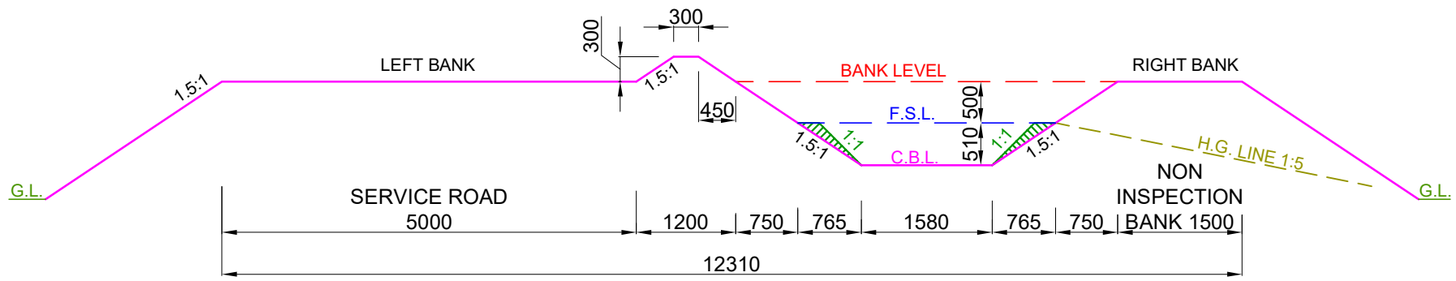
DESIGN SECTION FROM CH: 2.100 KM TO CH: 2.590 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 3 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



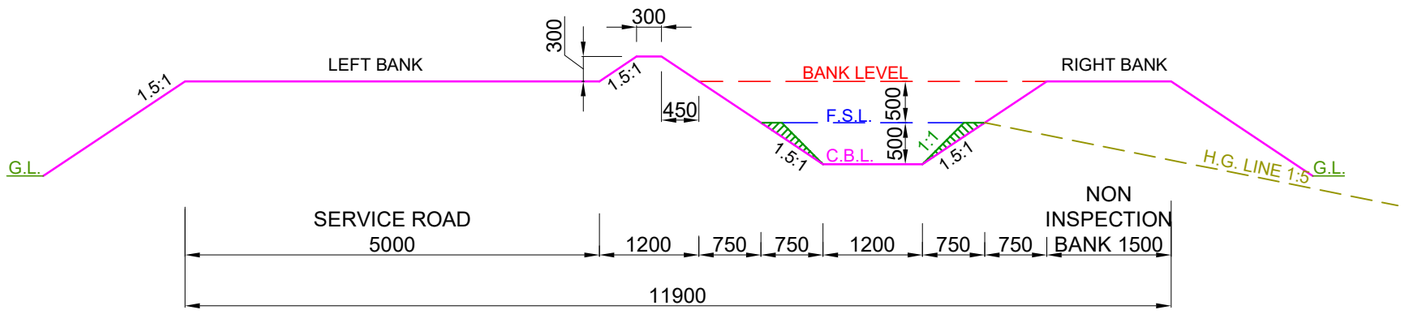
DESIGN SECTION FROM CH: 2.590 KM TO CH: 2.900 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 4 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



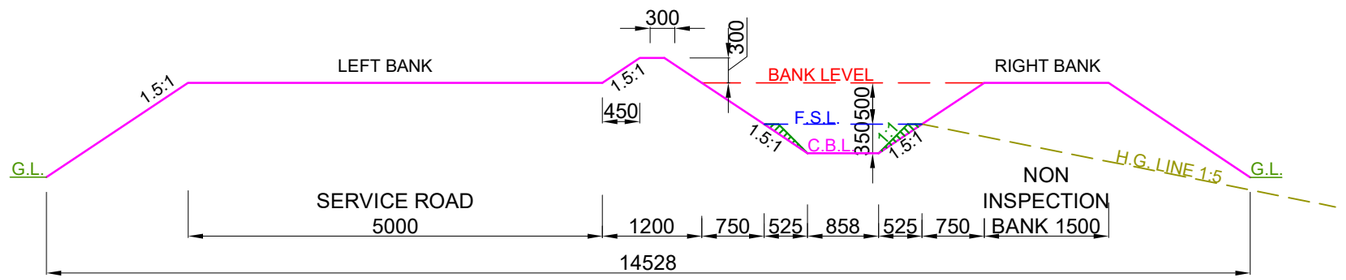
DESIGN SECTION FROM CH: 2.900 KM TO CH: 3.850 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 5 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



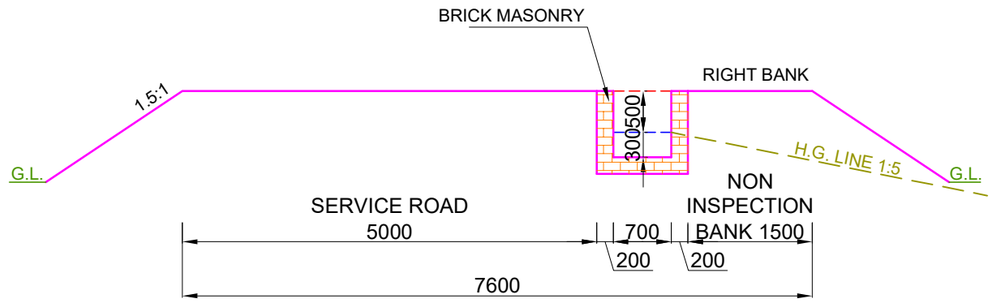
DESIGN SECTION FROM CH: 3.850 KM TO CH: 4.030 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 6 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



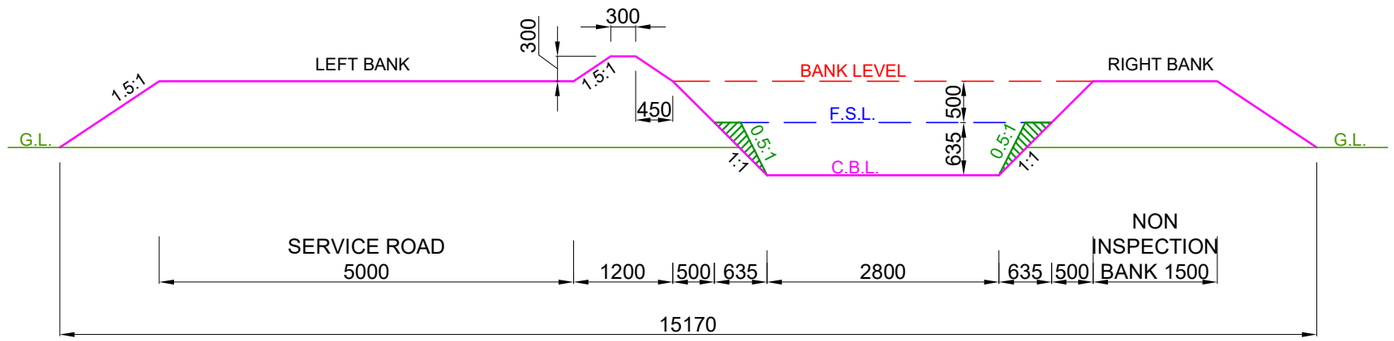
DESIGN SECTION FROM CH: 4.030 KM TO CH: 4.190 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(FF) 7 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



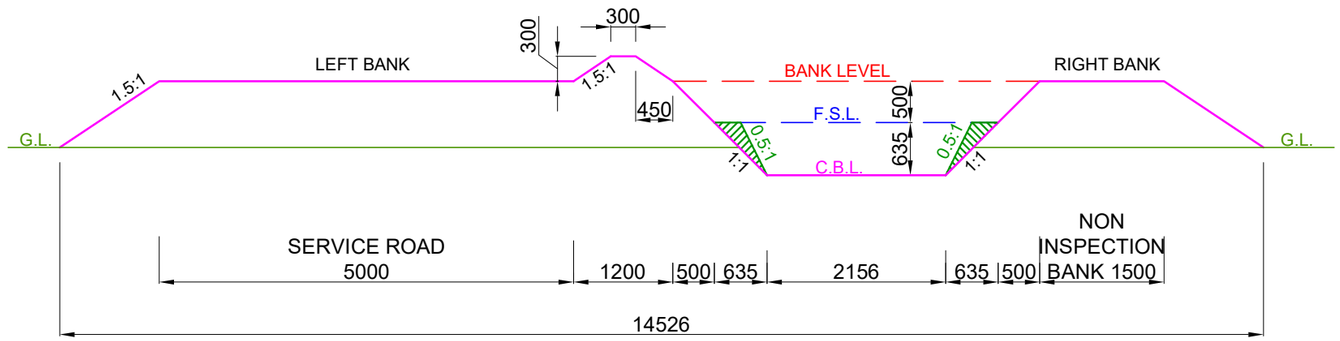
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.550 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 1 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



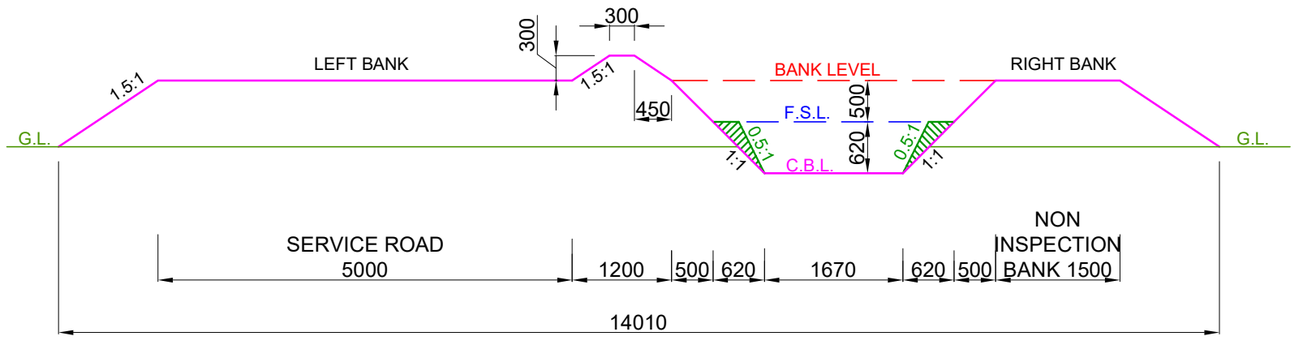
DESIGN SECTION FROM CH: 0.550 KM TO CH: 2.100 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 2 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



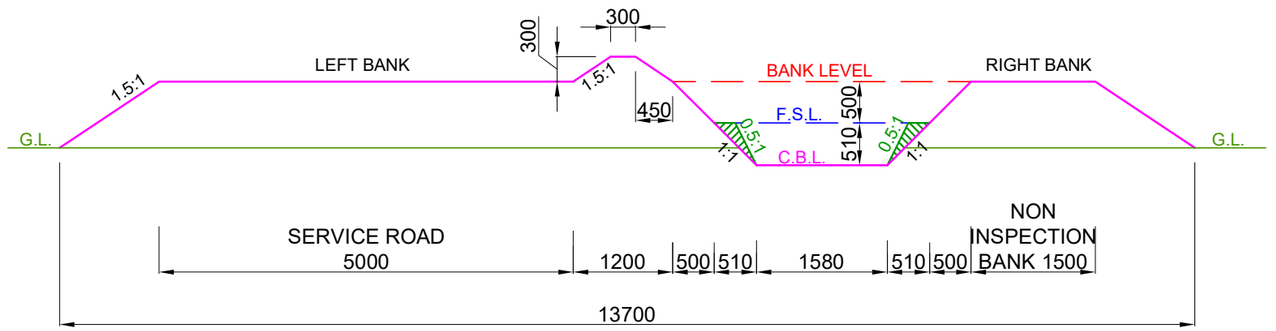
DESIGN SECTION FROM CH: 2.100 KM TO CH: 2.590 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 3 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



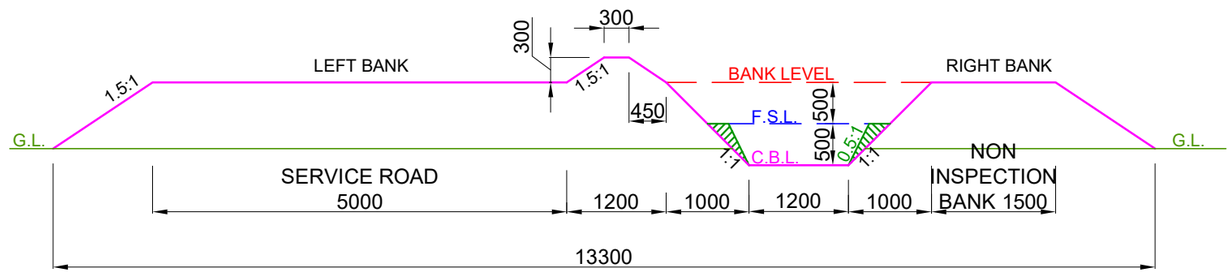
DESIGN SECTION FROM CH: 2.590 KM TO CH: 2.900 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 4 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



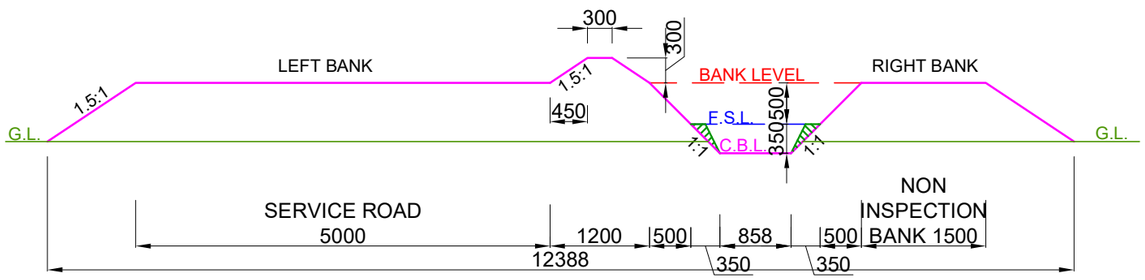
DESIGN SECTION FROM CH: 2.900 KM TO CH: 3.850 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 5 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



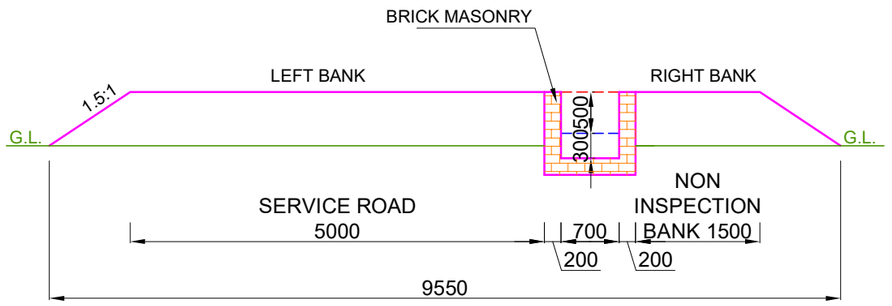
DESIGN SECTION FROM CH: 3.850 KM TO CH: 4.030 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 6 of 7

TYPICAL X - SECTION OF YARI MINOR
(OFFTAKE FROM RD - 7+760 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



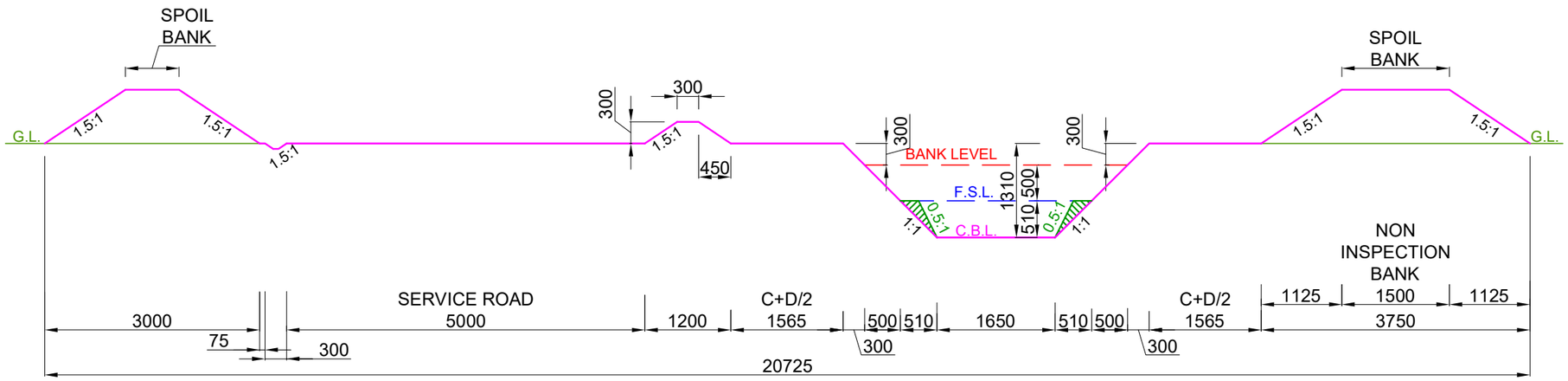
DESIGN SECTION FROM CH: 4.030 KM TO CH: 4.190 KM

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 YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC /TYP-(PCF) 7 of 7

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



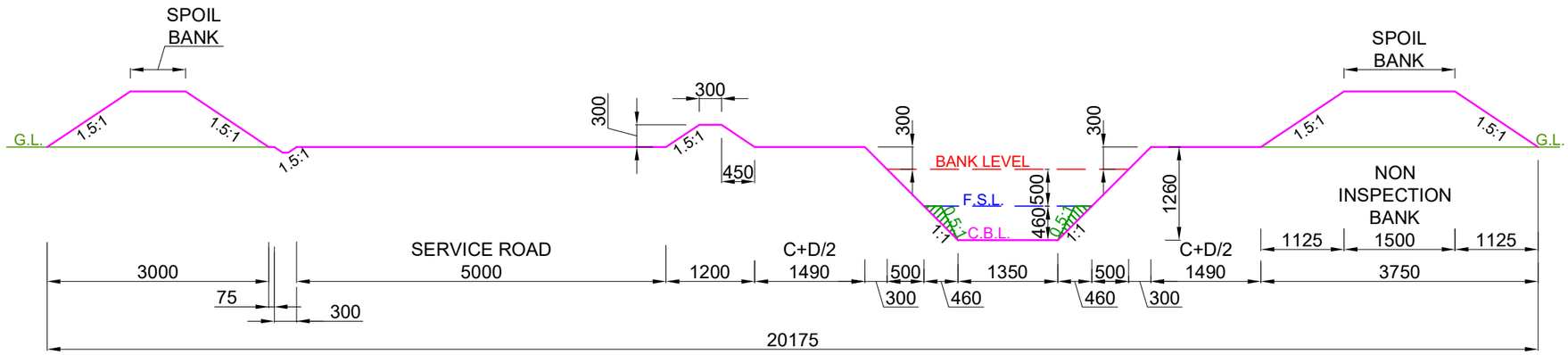
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.060 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FC) 1 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



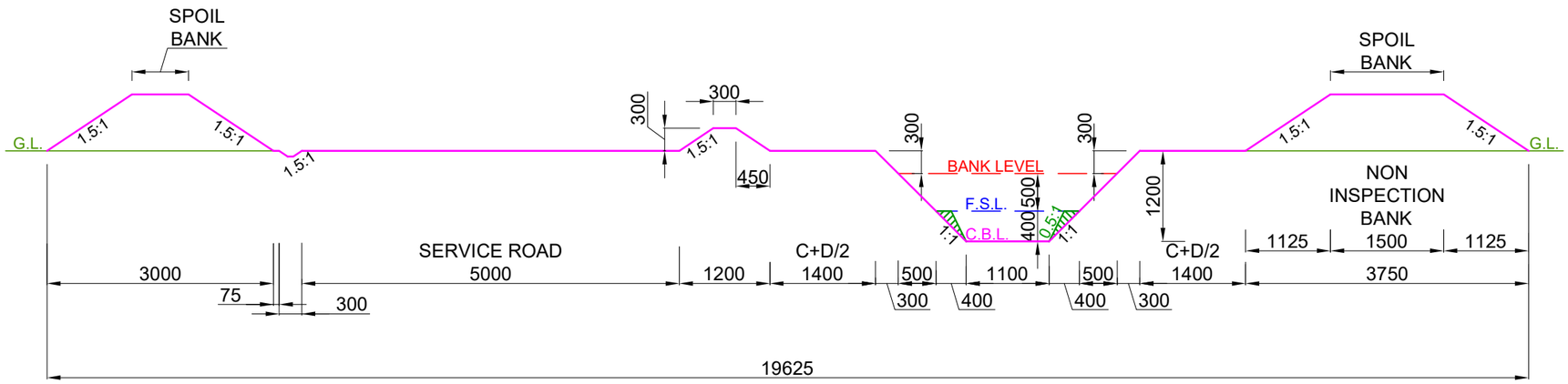
DESIGN SECTION FROM CH: 0.060 KM TO CH: 0.450 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FC) 2 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



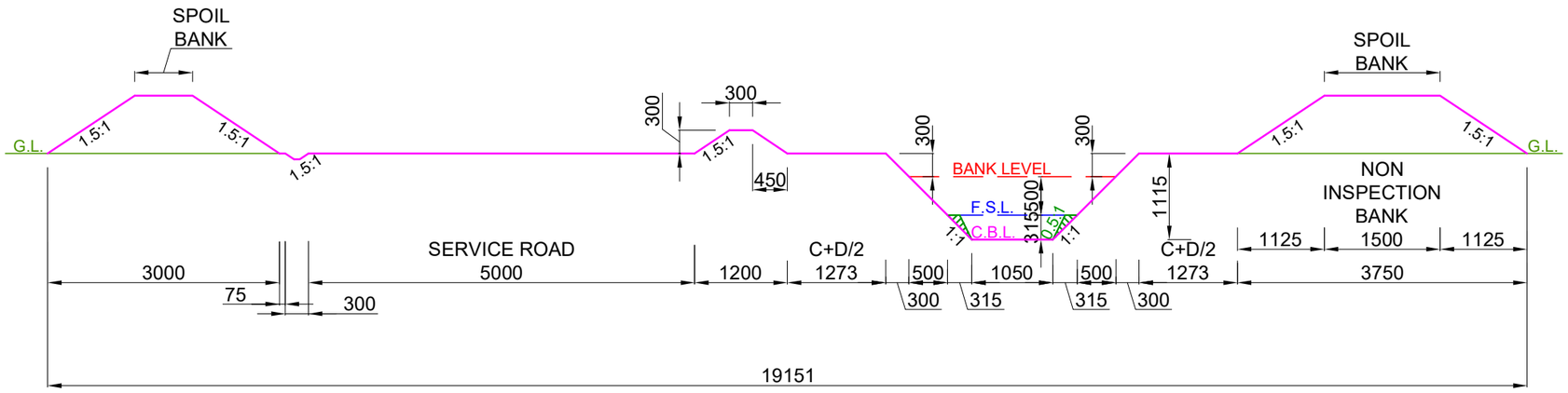
DESIGN SECTION FROM CH: 0.450 KM TO CH: 0.500 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FC) 3 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



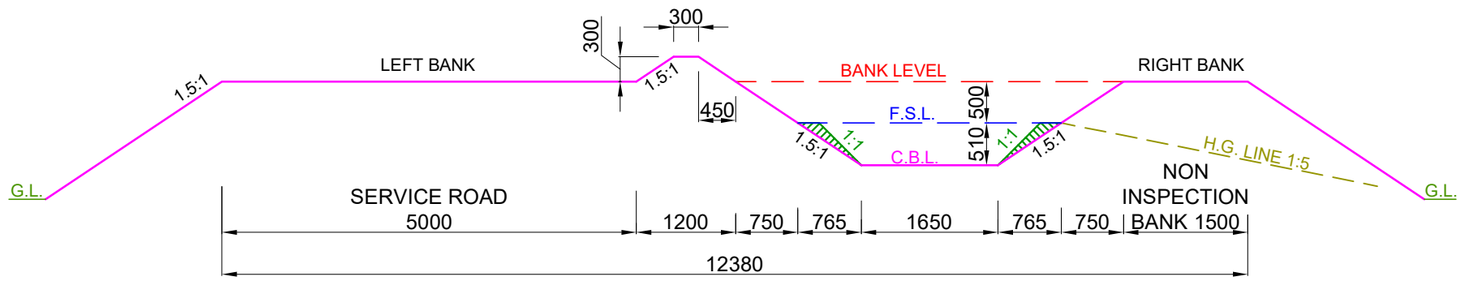
DESIGN SECTION FROM CH: 0.500 KM TO CH: 1.900 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FC) 4 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



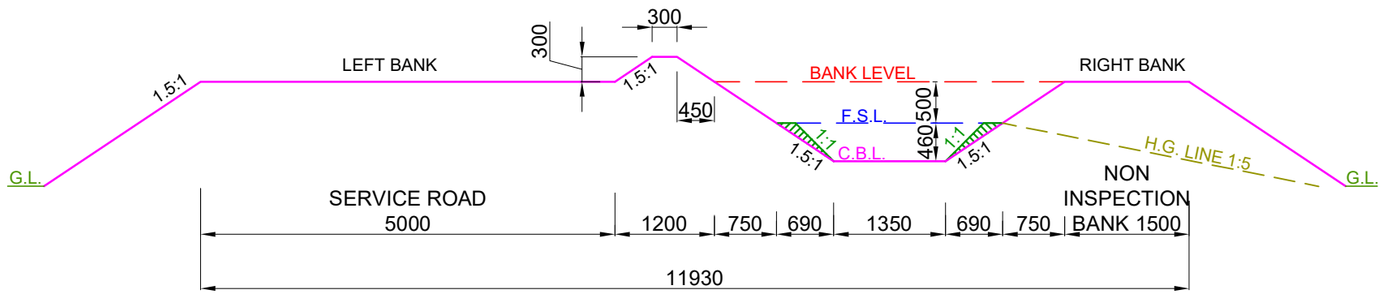
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.060 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FF) 1 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



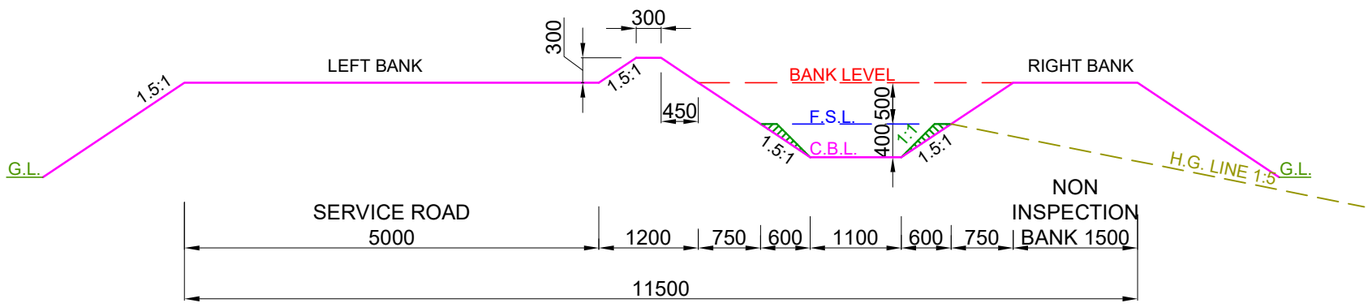
DESIGN SECTION FROM CH: 0.060 KM TO CH: 0.450 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FF) 2 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



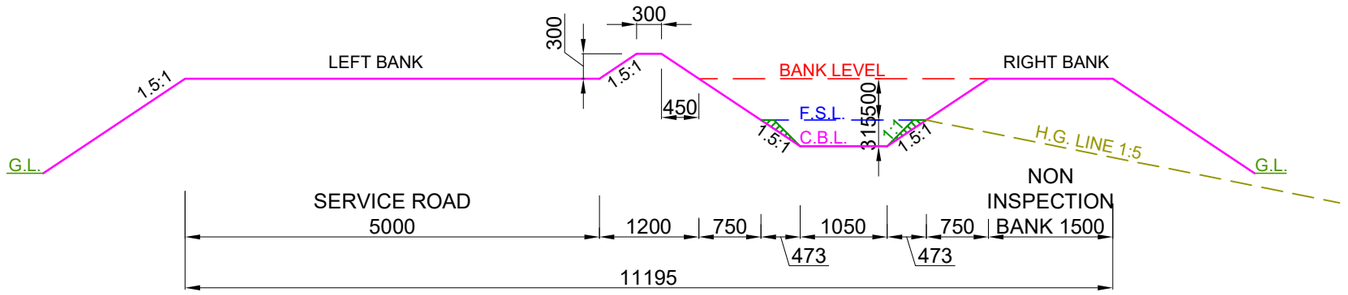
DESIGN SECTION FROM CH: 0.450 KM TO CH: 0.500 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FF) 3 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



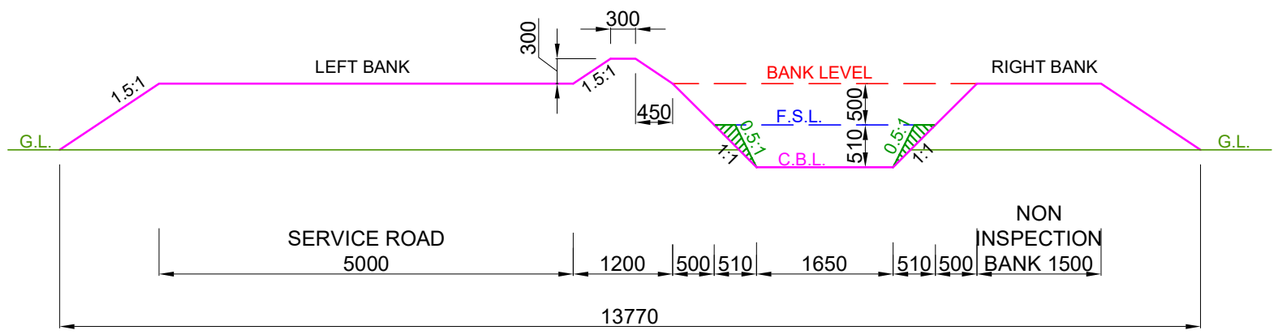
DESIGN SECTION FROM CH: 0.500 KM TO CH: 1.900 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(FF) 4 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



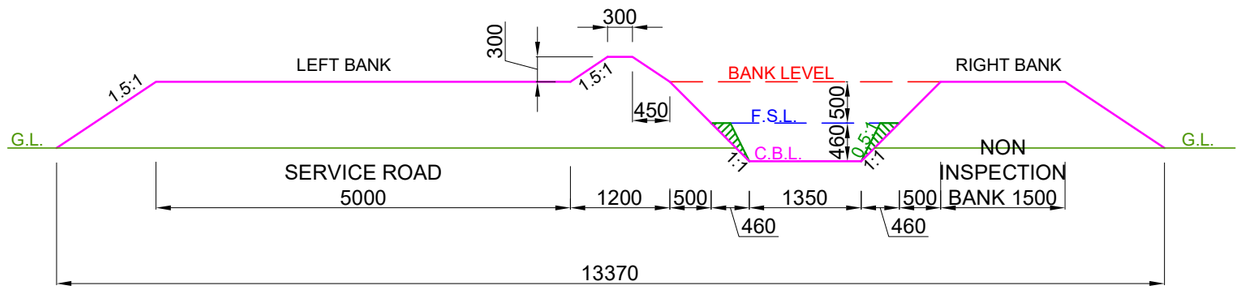
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.060 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(PCF) 1 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



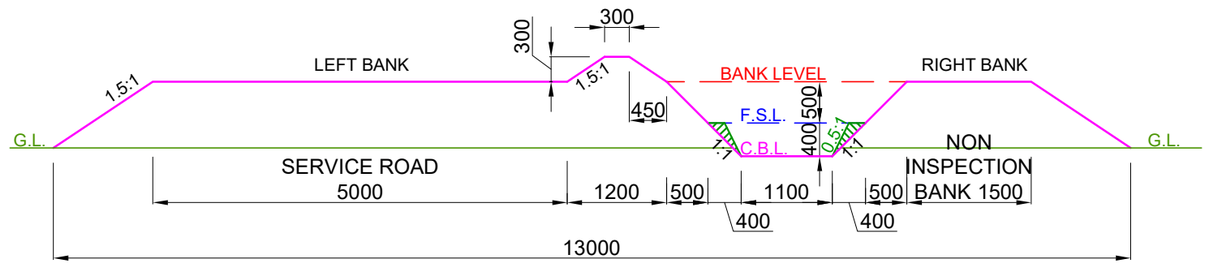
DESIGN SECTION FROM CH: 0.060 KM TO CH: 0.450 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(PCF) 2 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



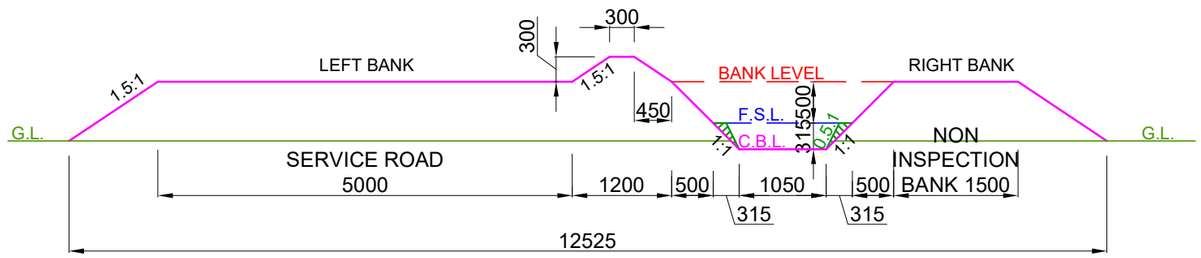
DESIGN SECTION FROM CH: 0.450 KM TO CH: 0.500 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(PCF) 3 of 4

TYPICAL X - SECTION OF NEPUA MINOR
(OFFTAKE FROM RD - 7+760 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



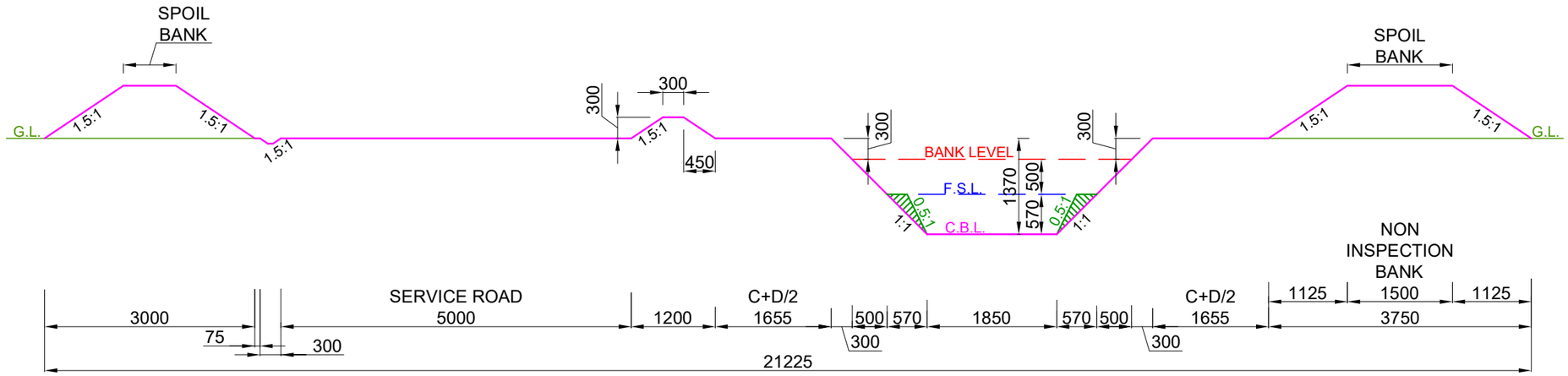
DESIGN SECTION FROM CH: 0.500 KM TO CH: 1.900 KM

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 NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC /TYP-(PCF) 4 of 4

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



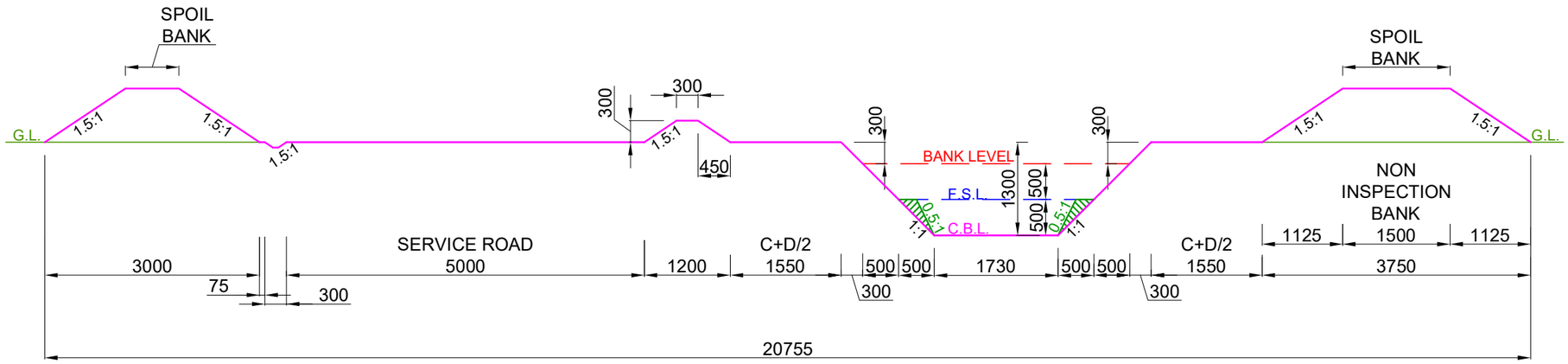
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.305 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FC) 1 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



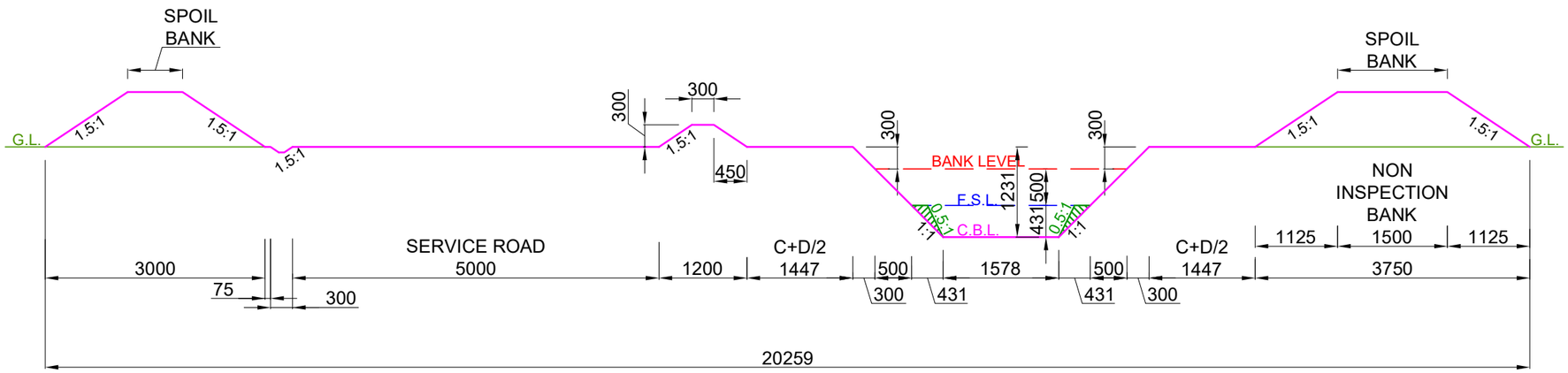
DESIGN SECTION FROM CH: 0.305 KM TO CH: 1.900 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FC) 2 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



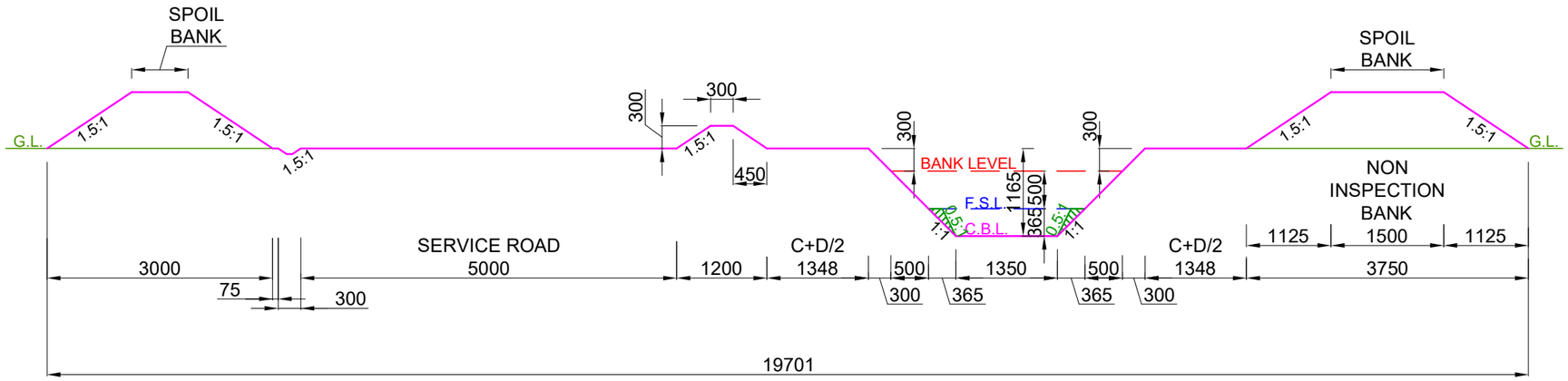
DESIGN SECTION FROM CH: 1.900 KM TO CH: 2.150 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FC) 3 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



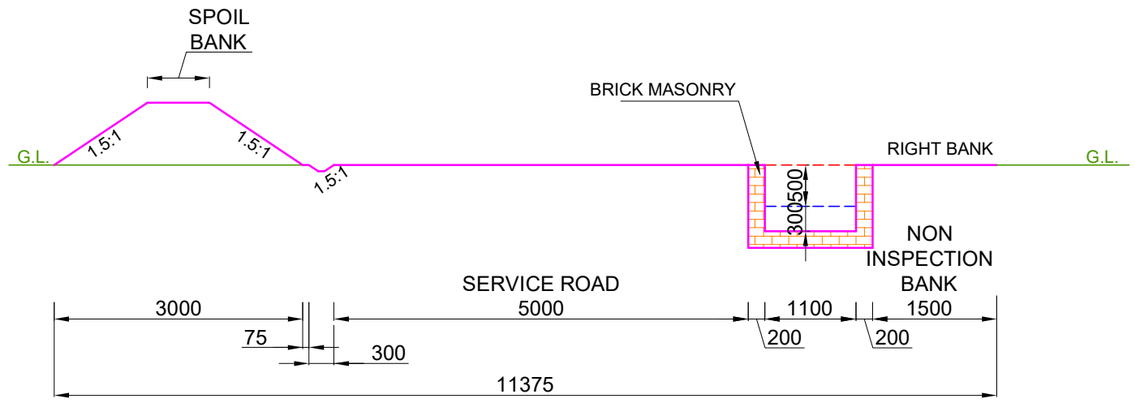
DESIGN SECTION FROM CH: 2.150 KM TO CH: 2.550 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FC) 4 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



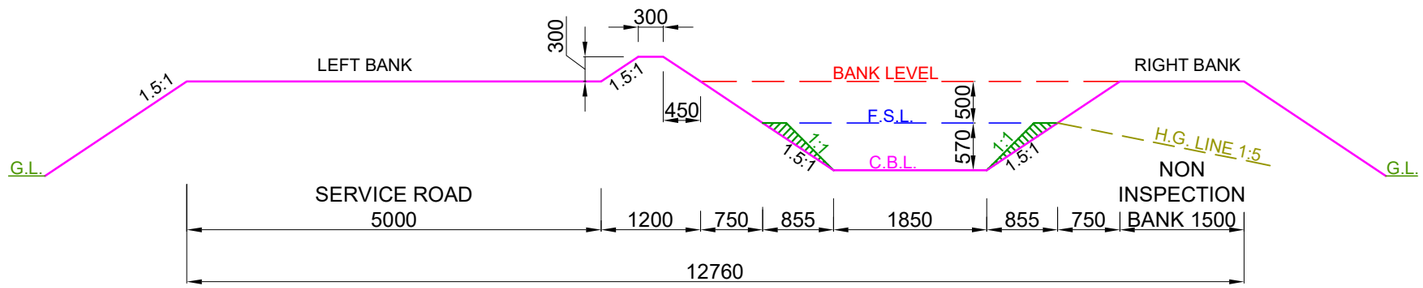
DESIGN SECTION FROM CH: 2.550 KM TO CH: 2.655 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FC) 5 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



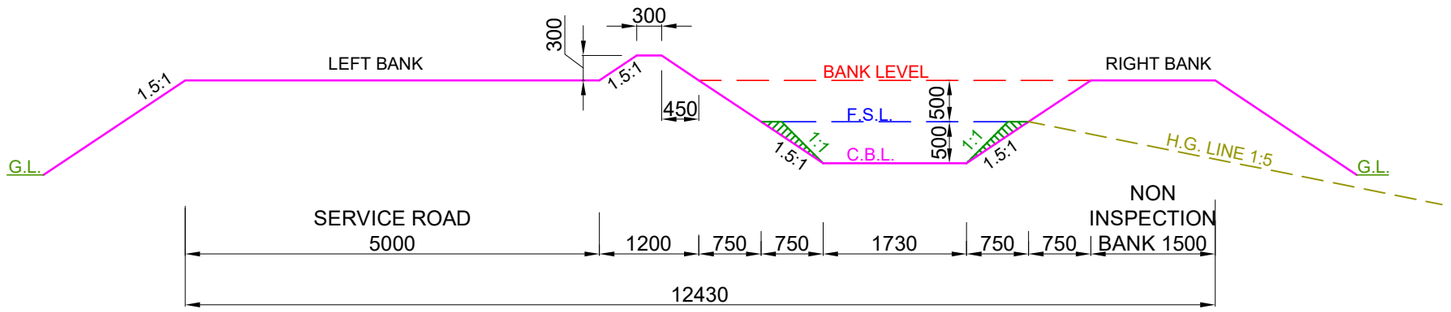
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.305 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FF) 1 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



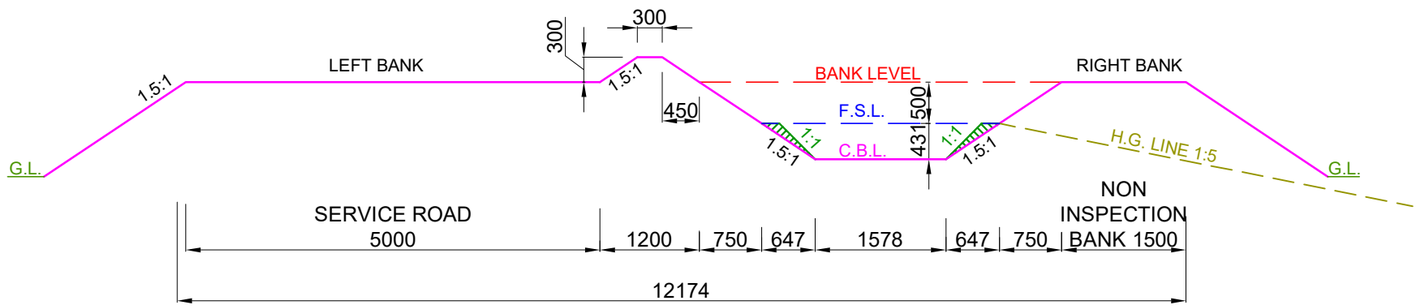
DESIGN SECTION FROM CH: 0.305 KM TO CH: 1.900 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FF) 2 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



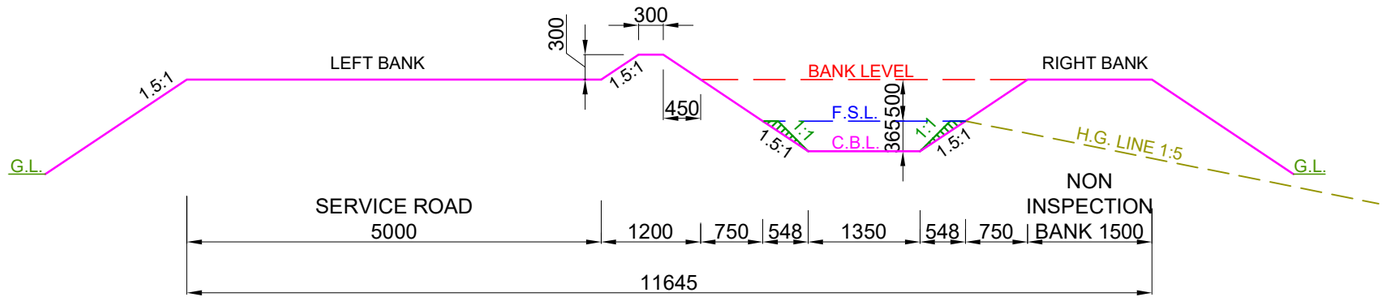
DESIGN SECTION FROM CH: 1.900 KM TO CH: 2.150 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FF) 3 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



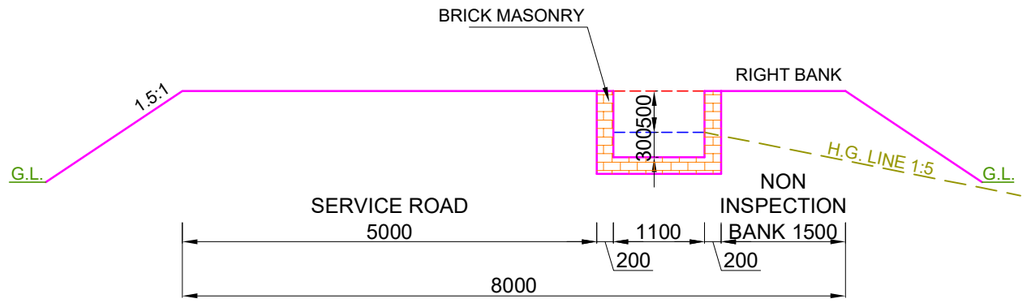
DESIGN SECTION FROM CH: 2.150 KM TO CH: 2.550 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FF) 4 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



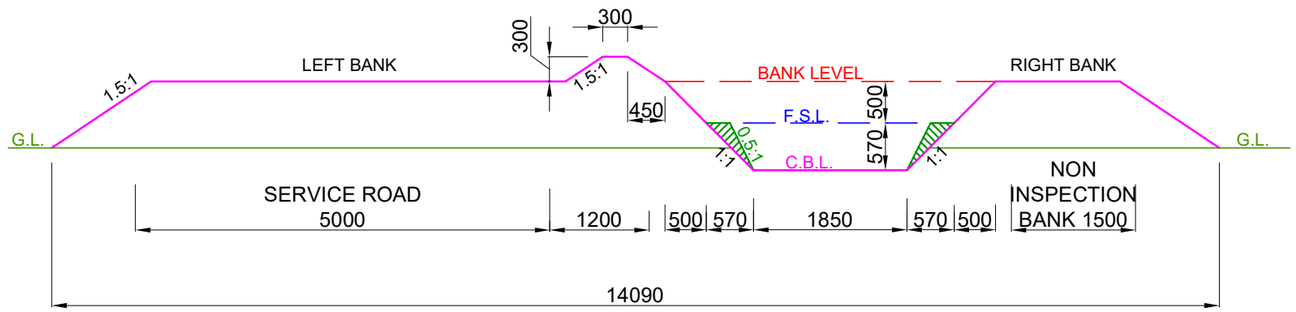
DESIGN SECTION FROM CH: 2.550 KM TO CH: 2.655 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(FF) 5 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



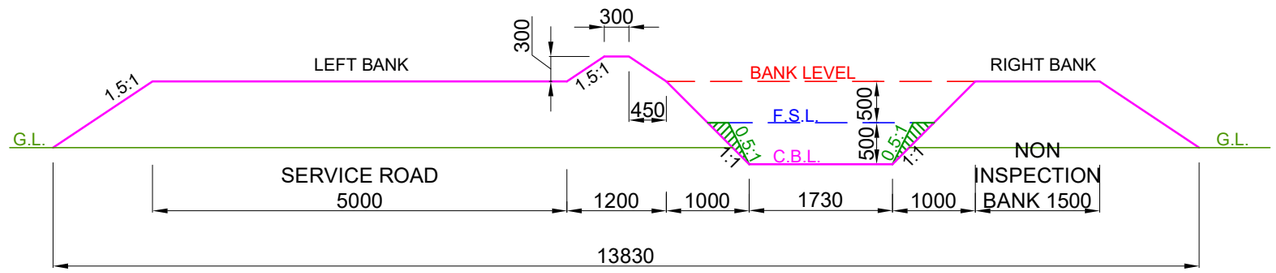
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.305 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(PCF) 1 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



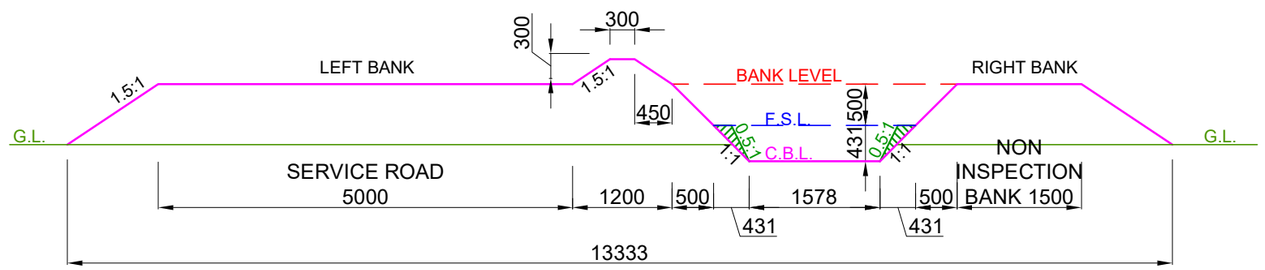
DESIGN SECTION FROM CH: 0.305 KM TO CH: 1.900 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(PCF) 2 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



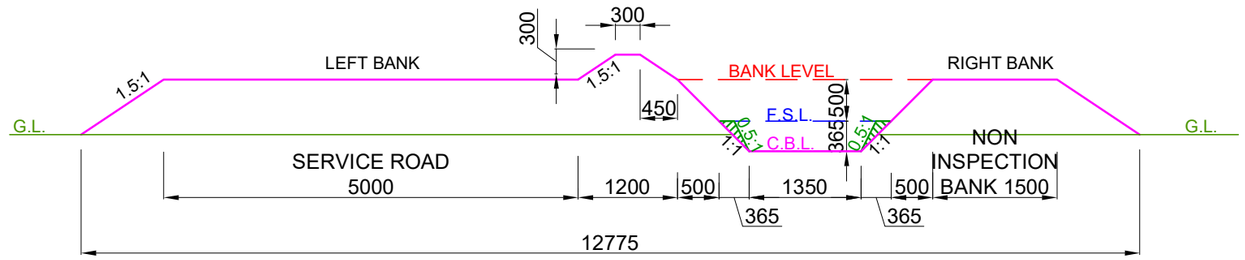
DESIGN SECTION FROM CH: 1.900 KM TO CH: 2.150 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(PCF) 3 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



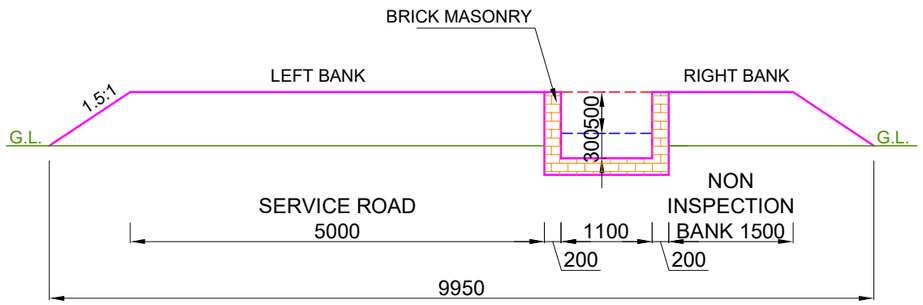
DESIGN SECTION FROM CH: 2.150 KM TO CH: 2.550 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(PCF) 4 of 5

TYPICAL X - SECTION OF AMAR BIGHA MINOR
(OFFTAKE FROM RD - 12+810 KM. (RT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



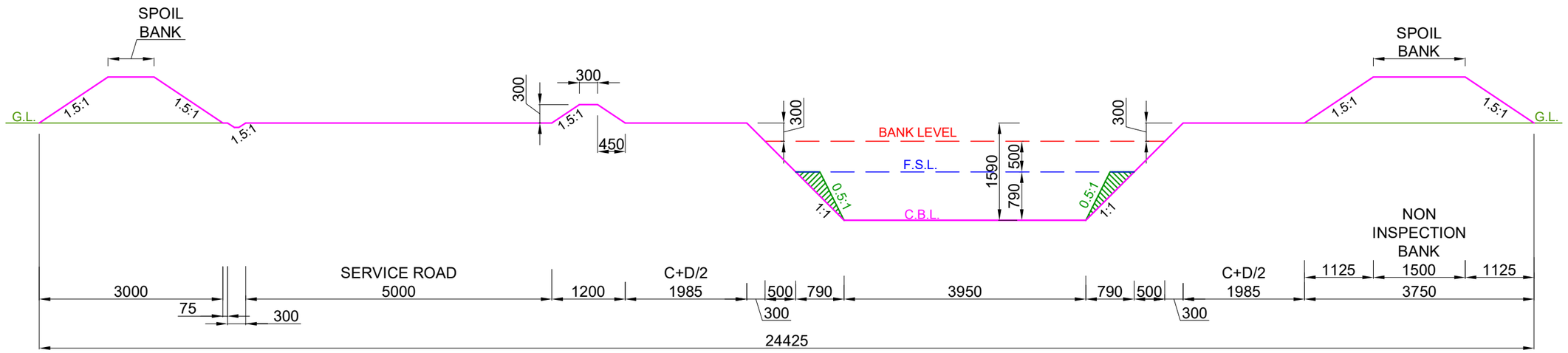
DESIGN SECTION FROM CH: 2.550 KM TO CH: 2.655 KM

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 AMAR BIGHA MR. (OFFTAKE FROM RD - 12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC /TYP-(PCF) 5 of 5

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



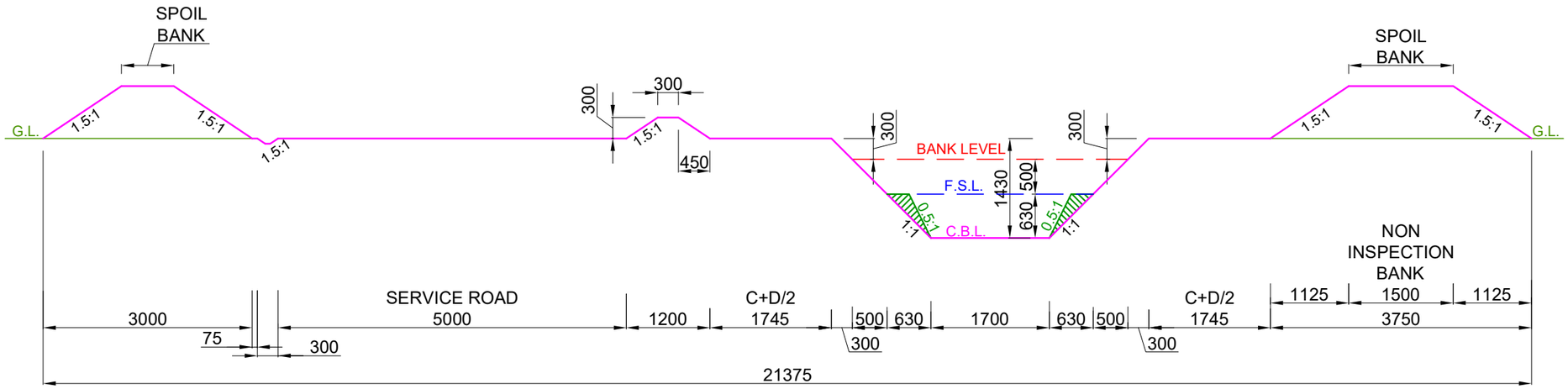
DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.940 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FC) 1 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



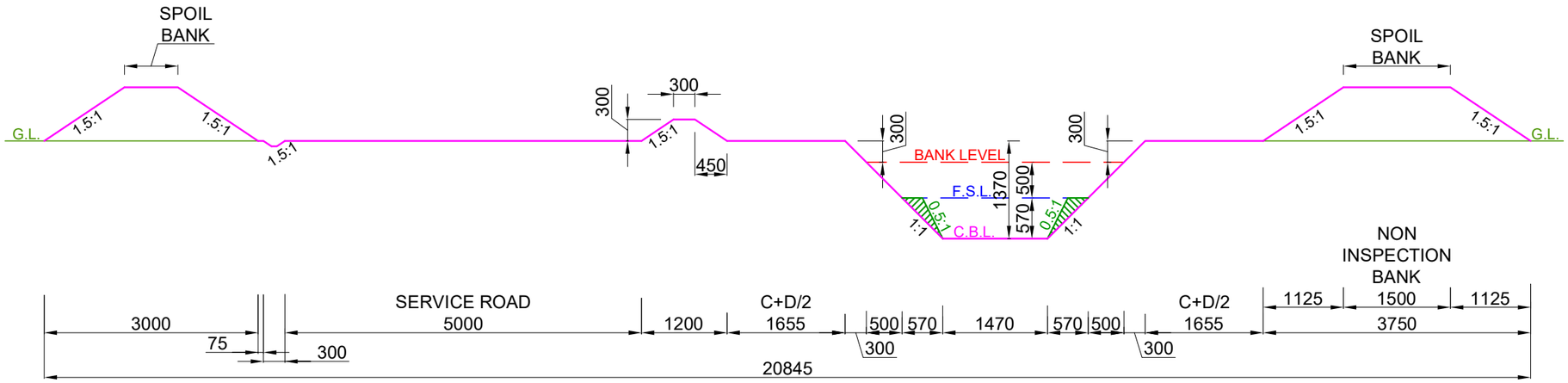
DESIGN SECTION FROM CH: 2.940 KM TO CH: 3.900 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FC) 2 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



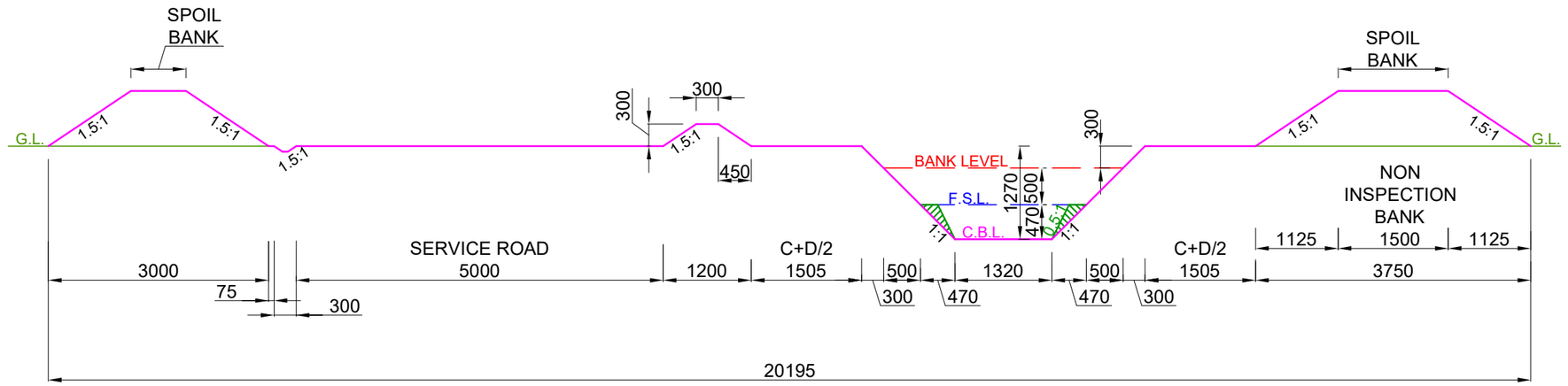
DESIGN SECTION FROM CH: 3.900 KM TO CH: 4.700 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FC) 3 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



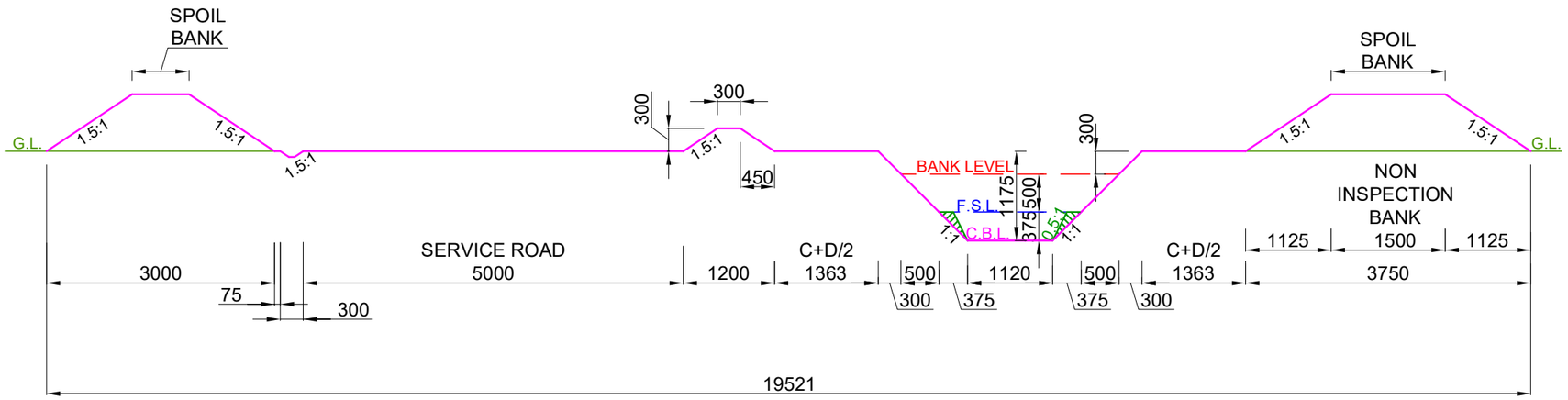
DESIGN SECTION FROM CH: 4.700 KM TO CH: 5.550 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FC) 4 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



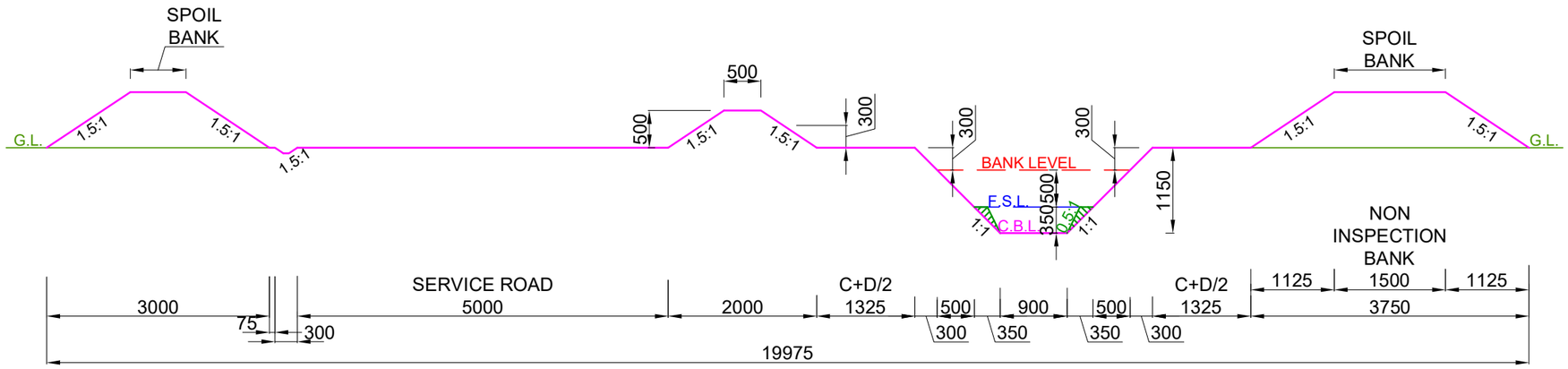
DESIGN SECTION FROM CH: 5.500 KM TO CH: 5.785 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FC) 5 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



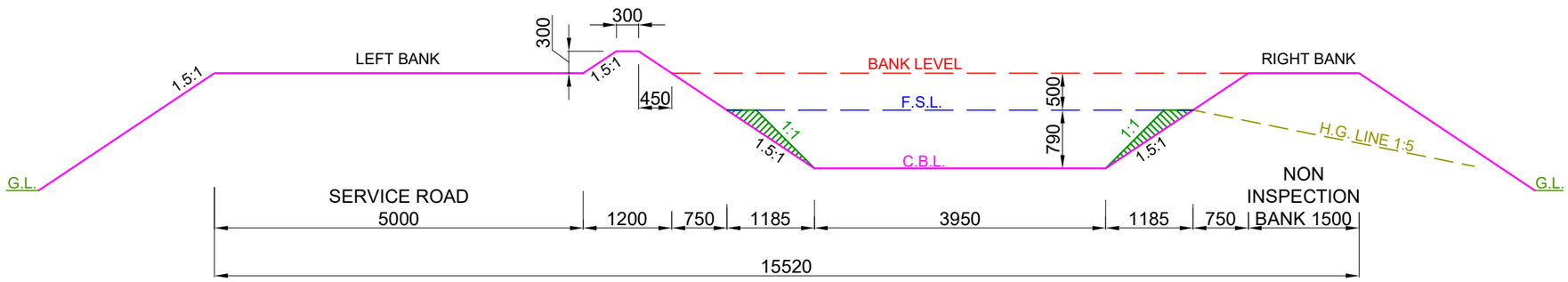
DESIGN SECTION FROM CH: 5.785 KM TO CH: 7.000 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FC) 6 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



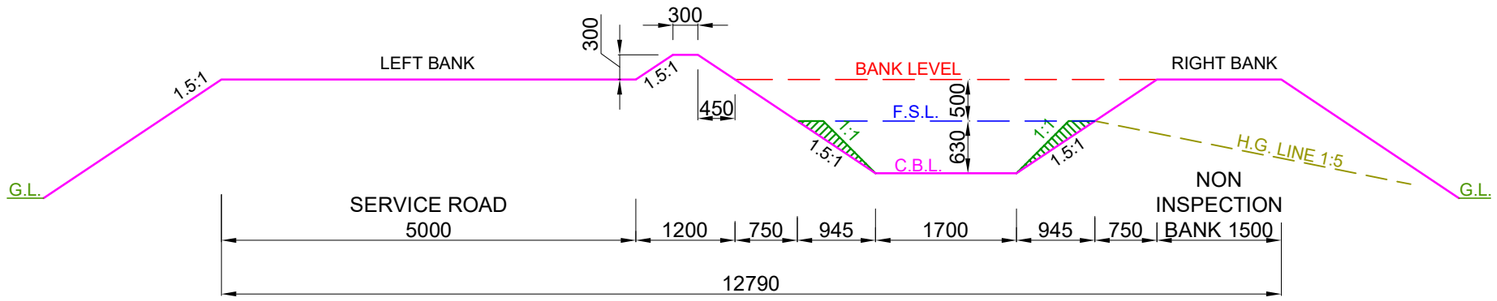
DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.940 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FF) 1 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



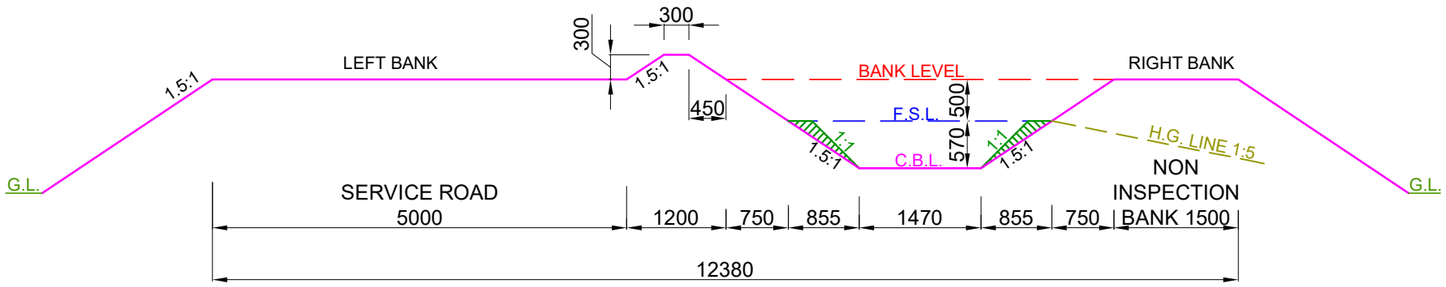
DESIGN SECTION FROM CH: 2.940 KM TO CH: 3.900 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FF) 2 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



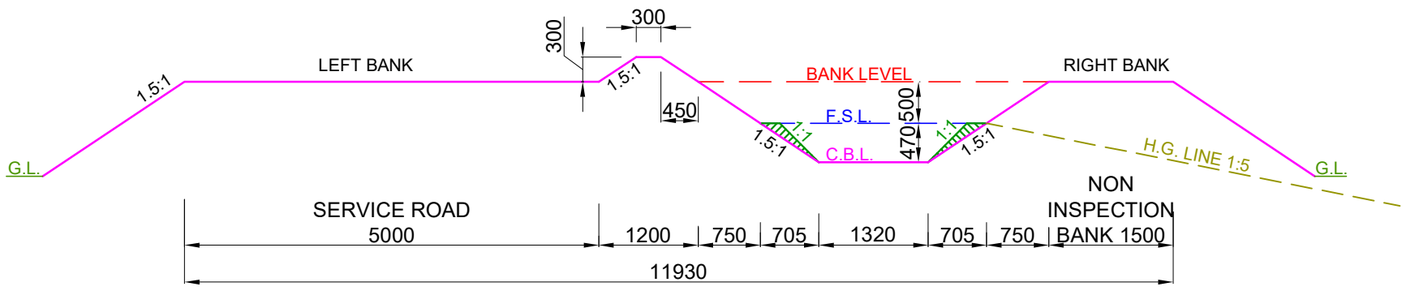
DESIGN SECTION FROM CH: 3.900 KM TO CH: 4.700 KM

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 :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FF) 3 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



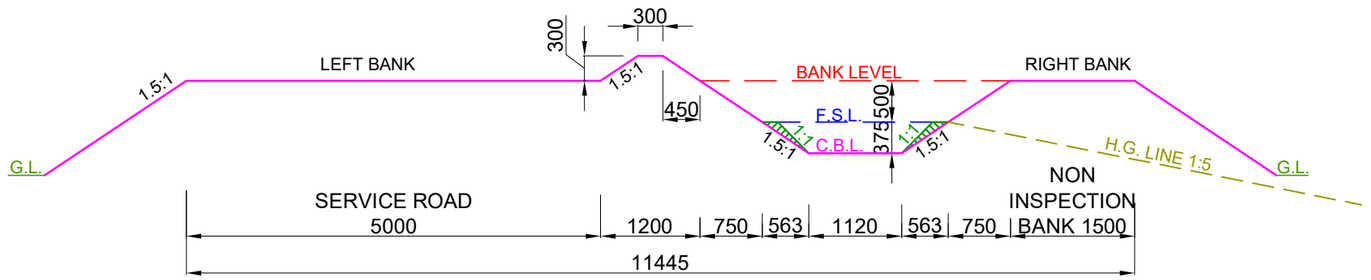
DESIGN SECTION FROM CH: 4.700 KM TO CH: 5.550 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FF) 4 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



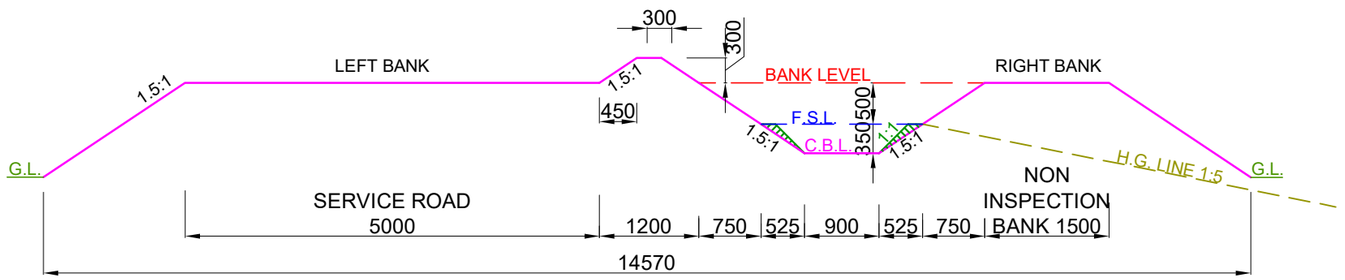
DESIGN SECTION FROM CH: 5.500 KM TO CH: 5.785 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FF) 5 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



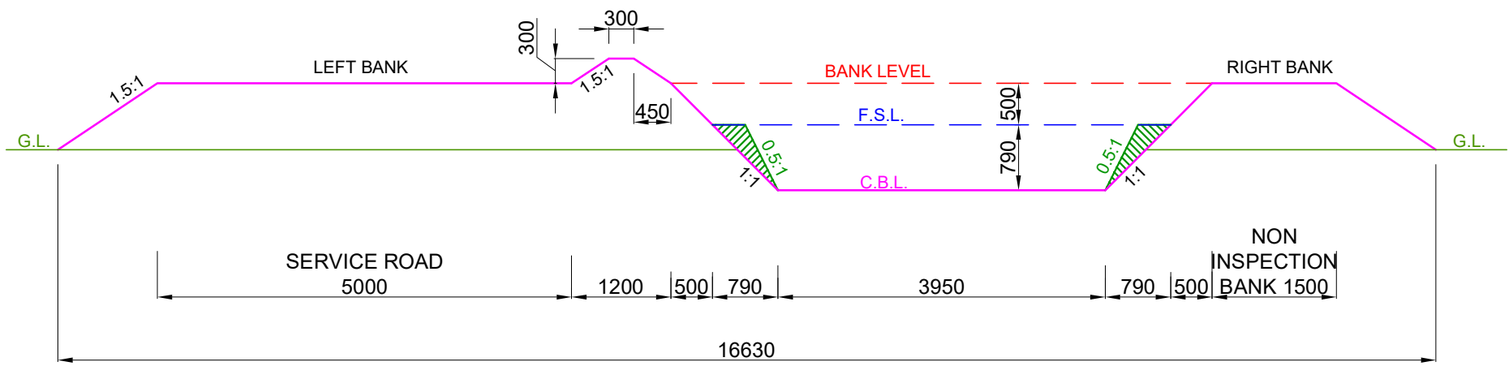
DESIGN SECTION FROM CH: 5.785 KM TO CH: 7.000 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(FF) 6 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



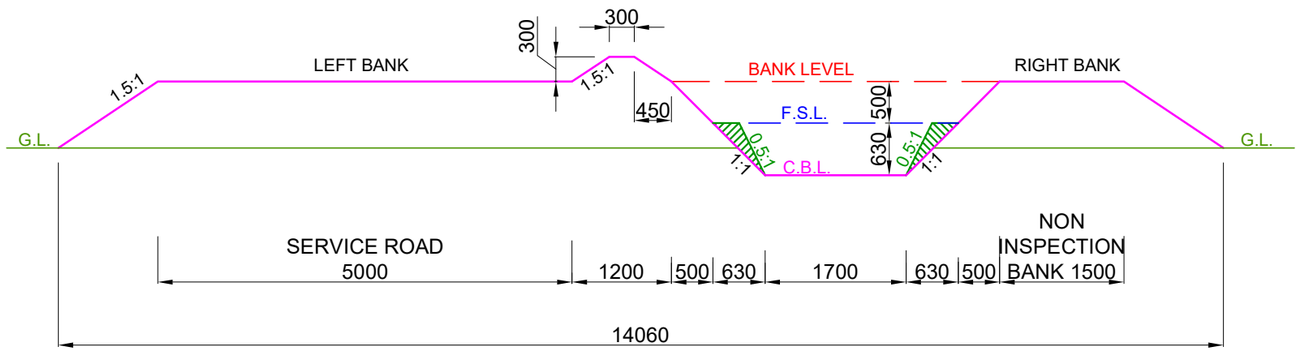
DESIGN SECTION FROM CH: 0.000 KM TO CH: 2.940 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(PCF) 1 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



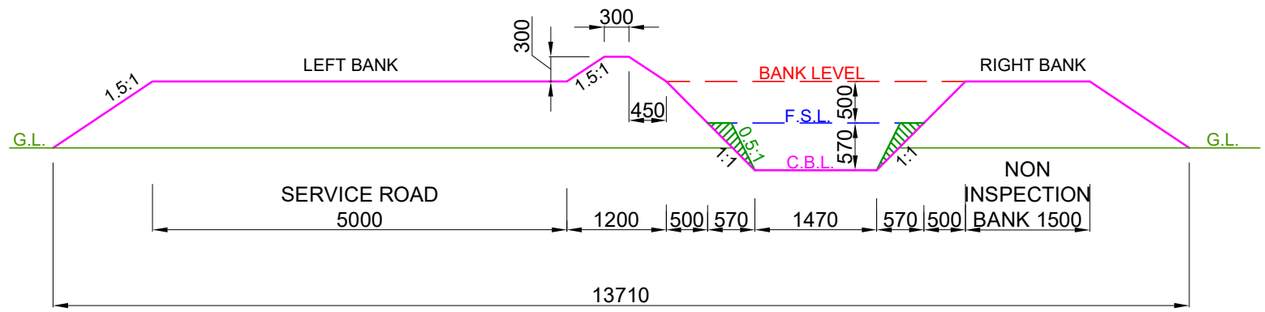
DESIGN SECTION FROM CH: 2.940 KM TO CH: 3.900 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(PCF) 2 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



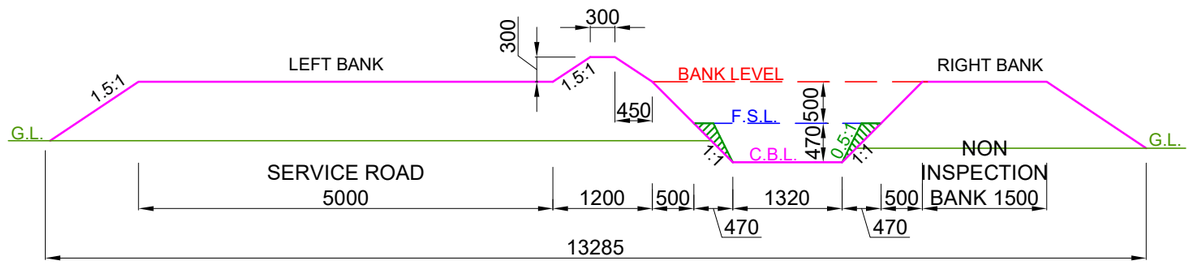
DESIGN SECTION FROM CH: 3.900 KM TO CH: 4.700 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(PCF) 3 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



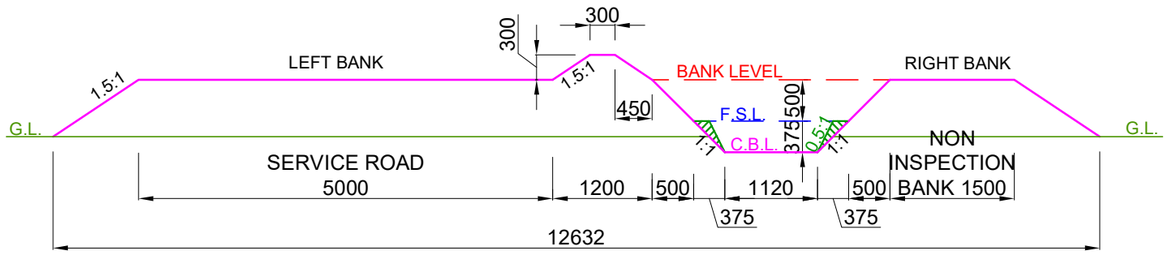
DESIGN SECTION FROM CH: 4.700 KM TO CH: 5.550 KM

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.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	CUT AREA		Drawing Title :-	X SECTION OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
	FILL AREA		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(PCF) 4 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



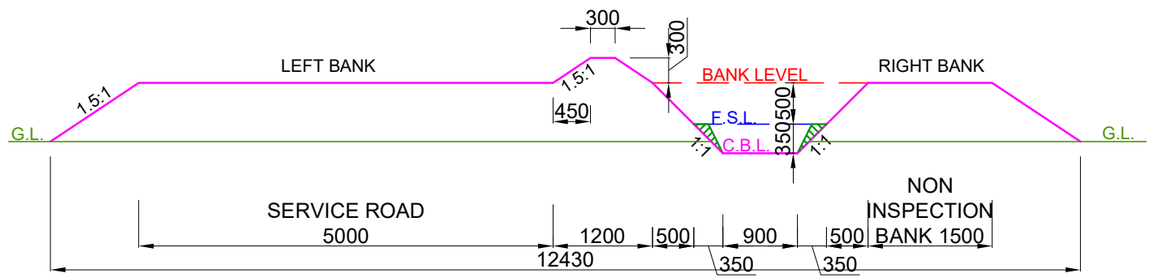
DESIGN SECTION FROM CH: 5.500 KM TO CH: 5.785 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(PCF) 5 of 6

TYPICAL X - SECTION OF CHATARA SUB-DISTRIBUTARY
(OFFTAKE FROM RD - 15+240 KM. (LT), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



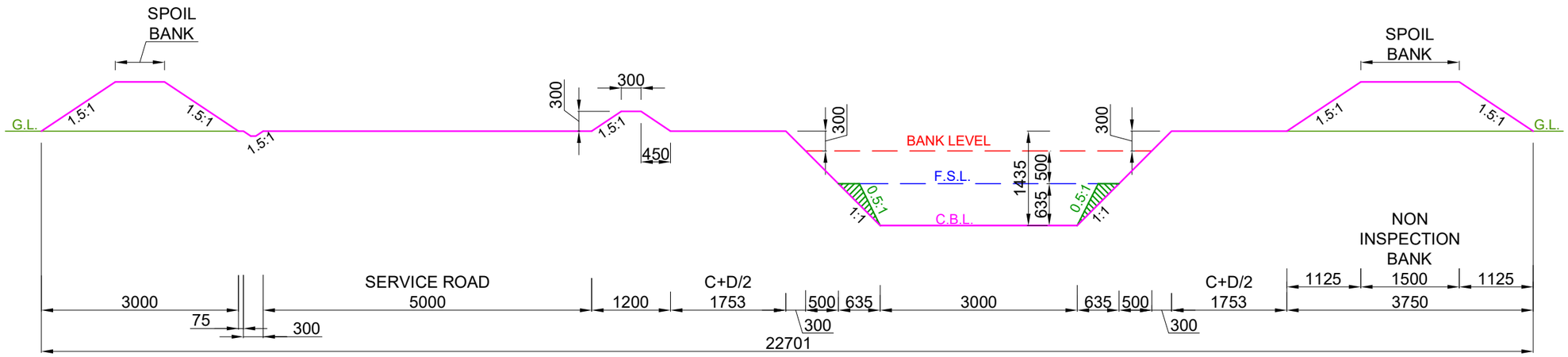
DESIGN SECTION FROM CH: 5.785 KM TO CH: 7.000 KM

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 CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC /TYP-(PCF) 6 of 6

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



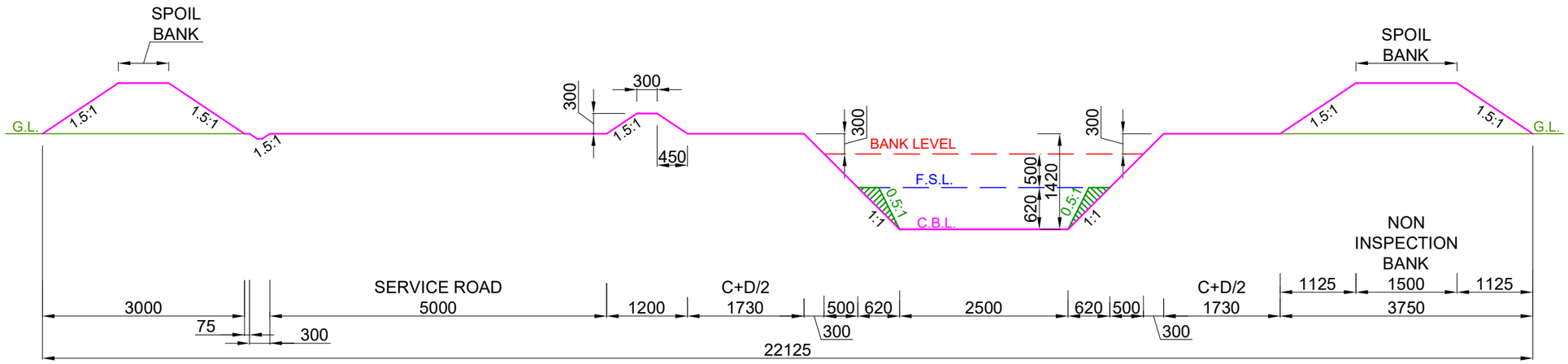
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.050 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 1 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



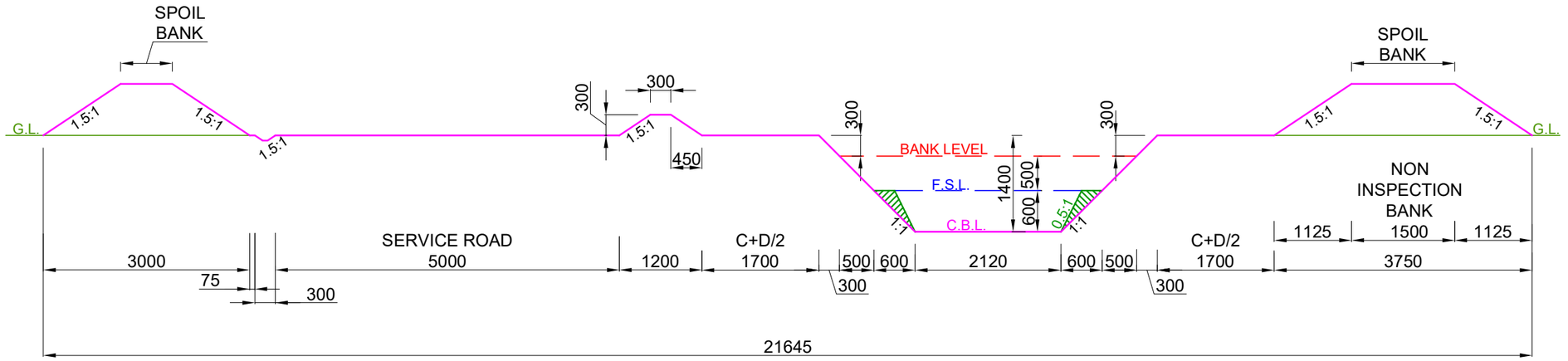
DESIGN SECTION FROM CH: 0.050 KM TO CH: 2.320 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 2 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



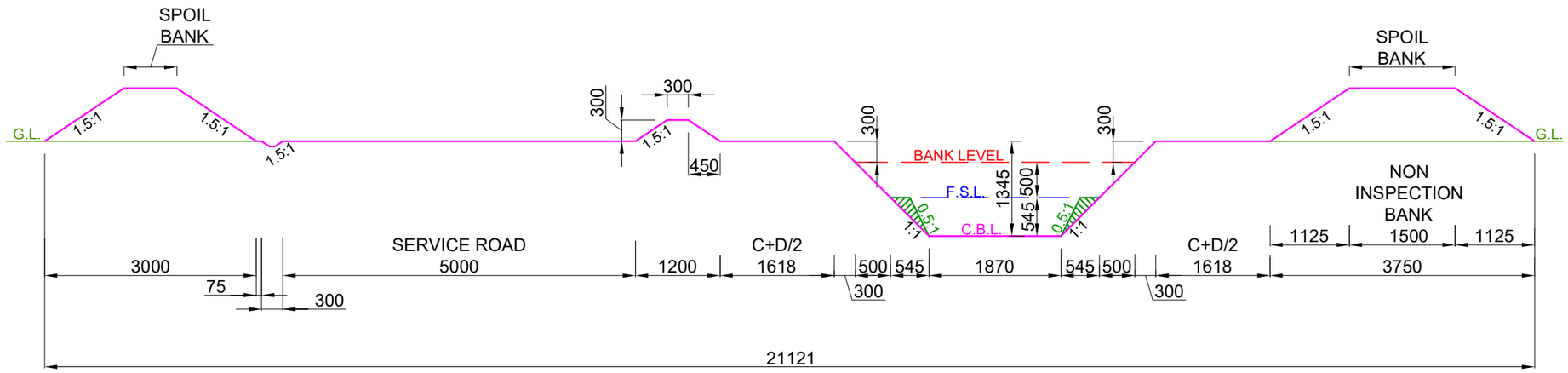
DESIGN SECTION FROM CH: 2.320 KM TO CH: 3.400 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 3 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



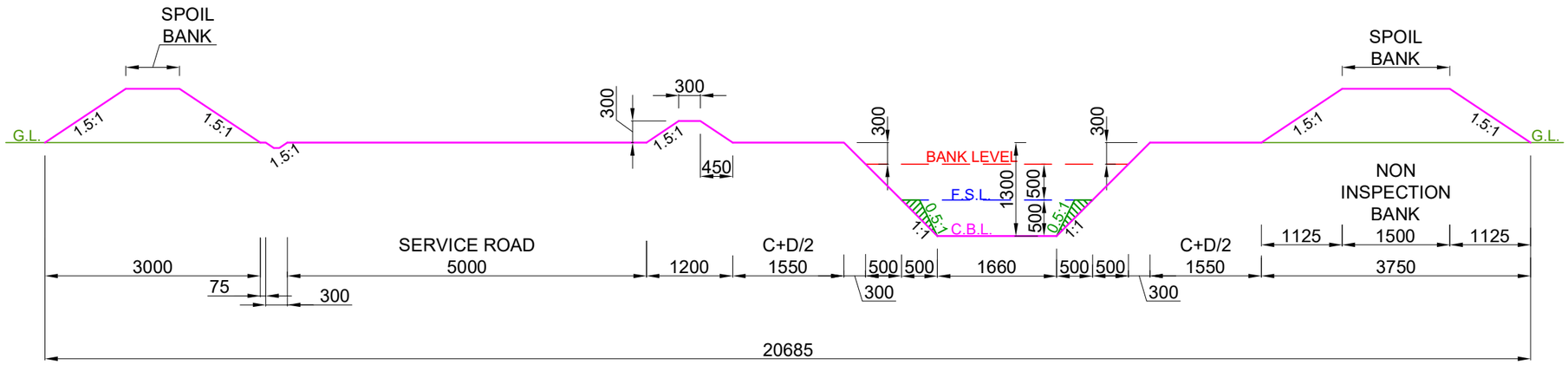
DESIGN SECTION FROM CH: 3.400 KM TO CH: 4.055 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 4 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



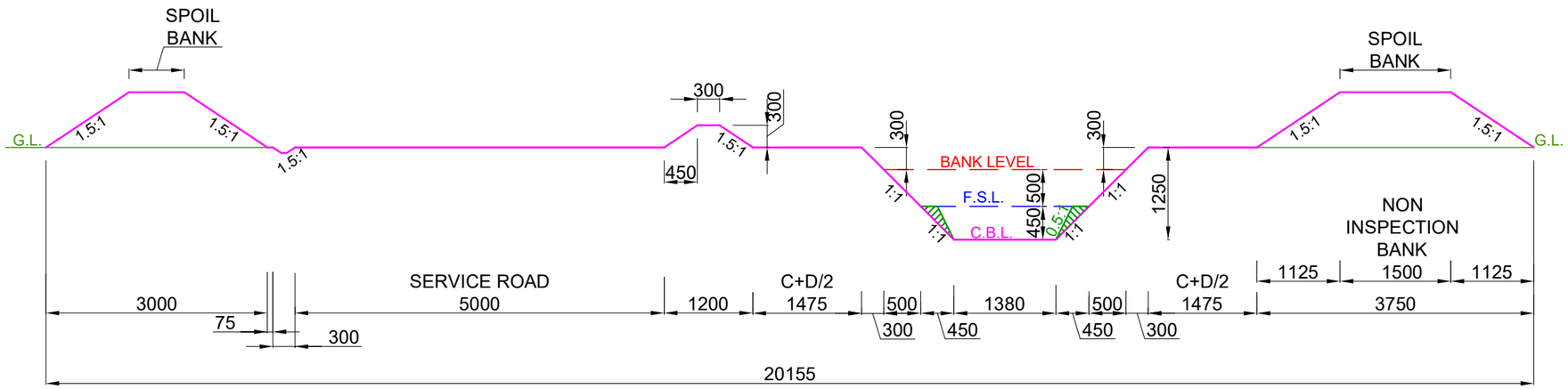
DESIGN SECTION FROM CH: 4.055 KM TO CH: 4.250 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 5 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



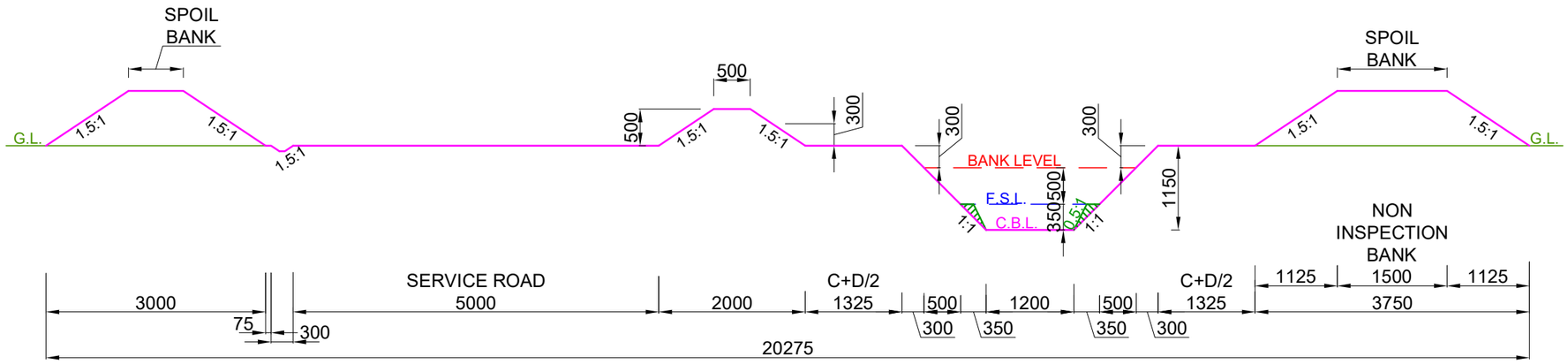
DESIGN SECTION FROM CH: 4.250 KM TO CH: 4.850 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 6 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



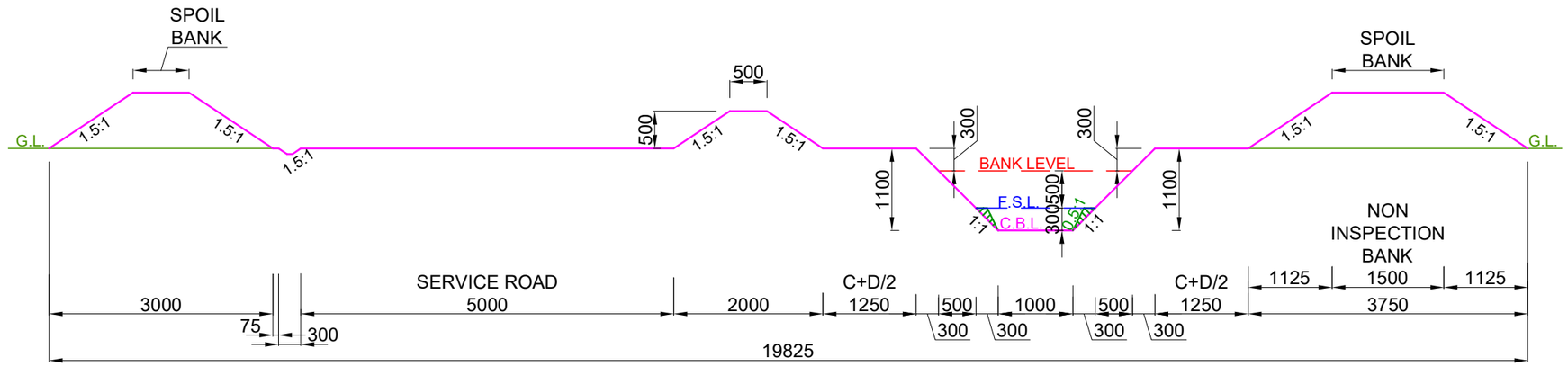
DESIGN SECTION FROM CH: 4.850 KM TO CH: 5.200 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 7 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



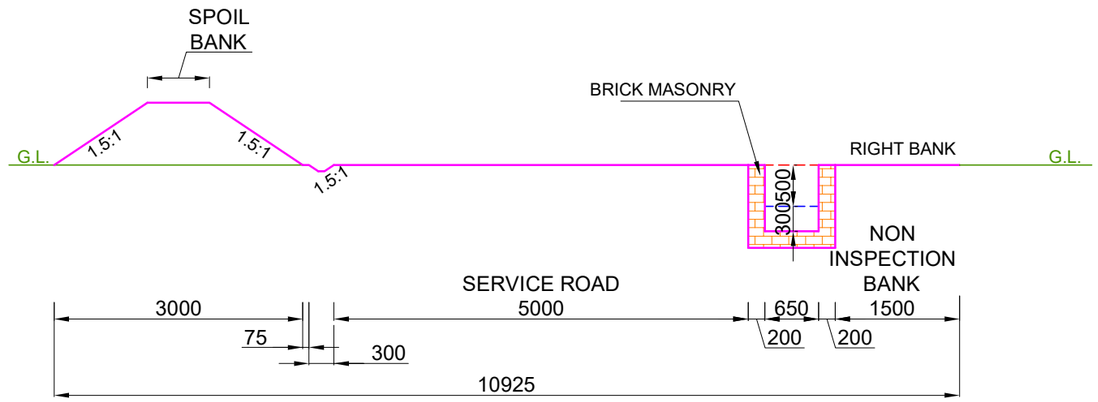
DESIGN SECTION FROM CH: 5.200 KM TO CH: 5.400 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 8 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



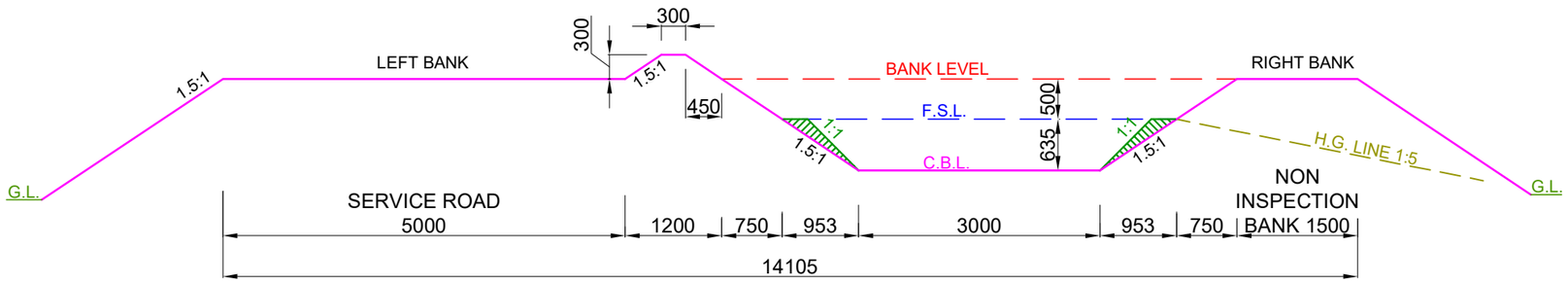
DESIGN SECTION FROM CH: 5.400 KM TO CH: 5.600 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FC) 9 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



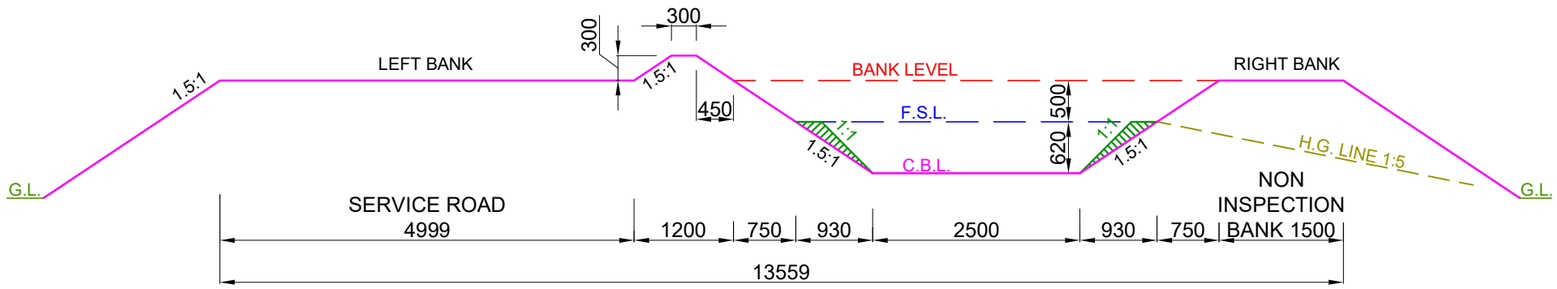
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.050 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 1 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



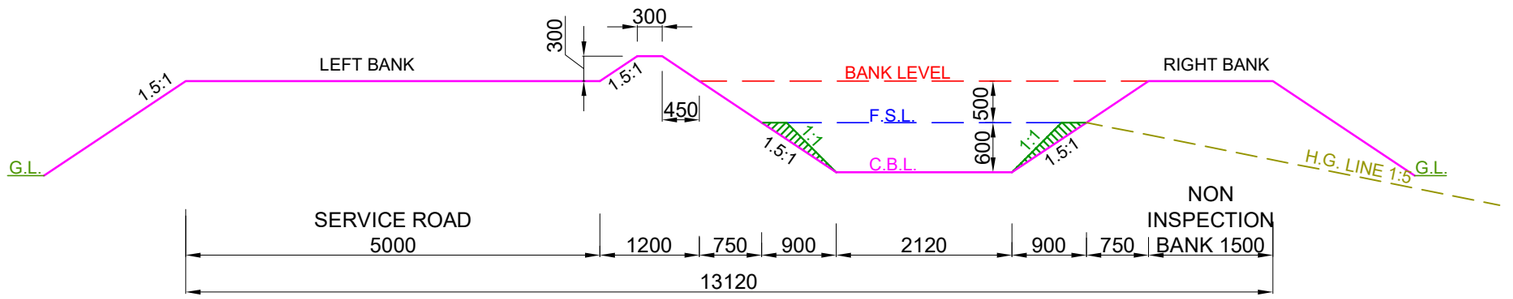
DESIGN SECTION FROM CH: 0.050 KM TO CH: 2.320 KM

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.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	CUT AREA		Drawing Title :-	X SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
	FILL AREA		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 2 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



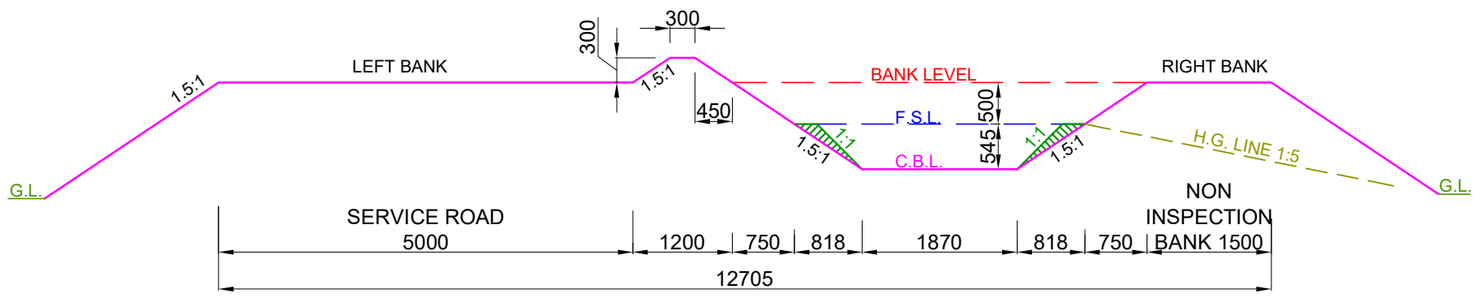
DESIGN SECTION FROM CH: 2.320 KM TO CH: 3.400 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 3 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



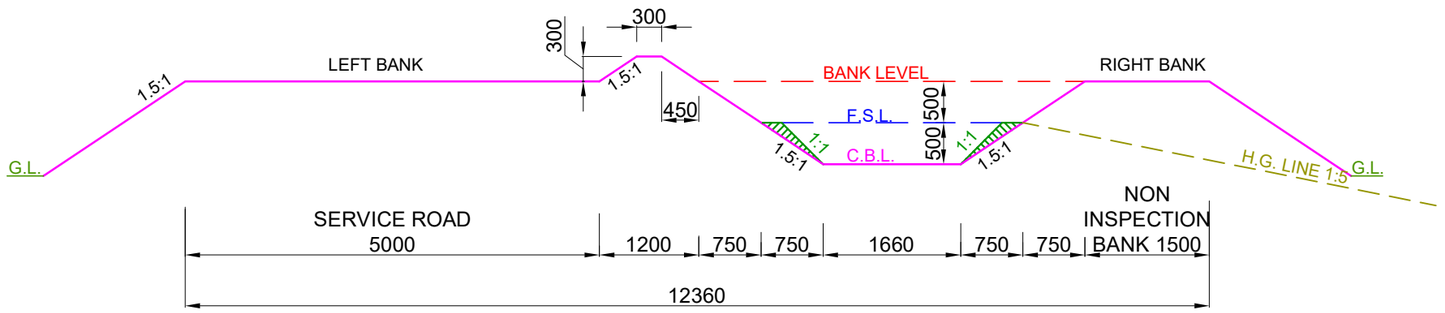
DESIGN SECTION FROM CH: 3.400 KM TO CH: 4.055 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 4 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



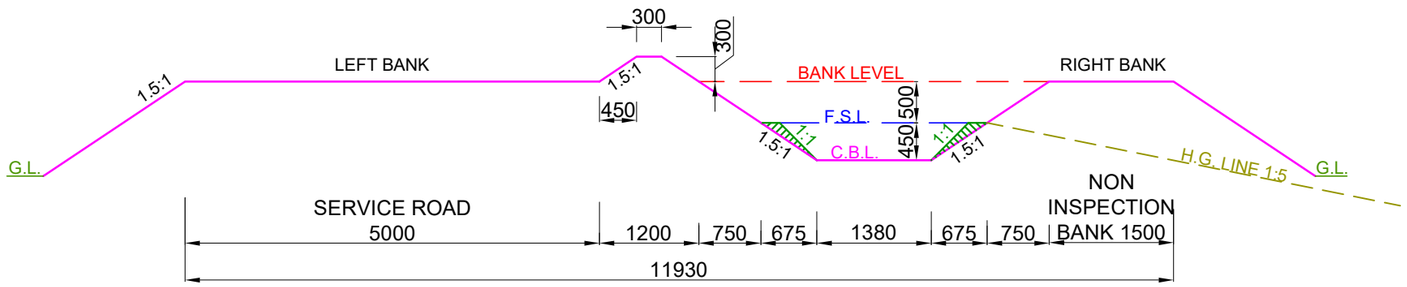
DESIGN SECTION FROM CH: 4.055 KM TO CH: 4.250 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 5 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



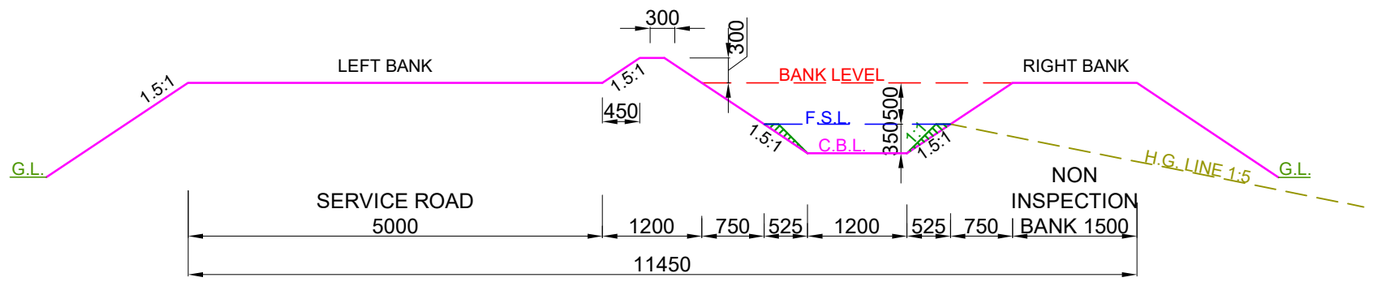
DESIGN SECTION FROM CH: 4.250 KM TO CH: 4.850 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 6 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



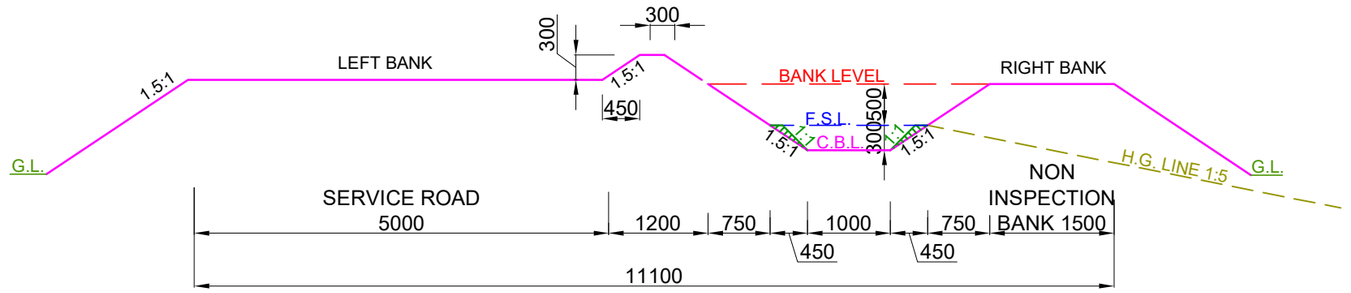
DESIGN SECTION FROM CH: 4.850 KM TO CH: 5.200 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 7 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



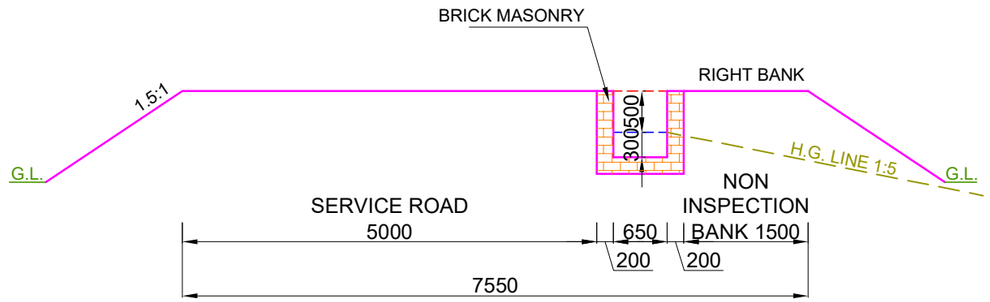
DESIGN SECTION FROM CH: 5.200 KM TO CH: 5.400 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 8 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



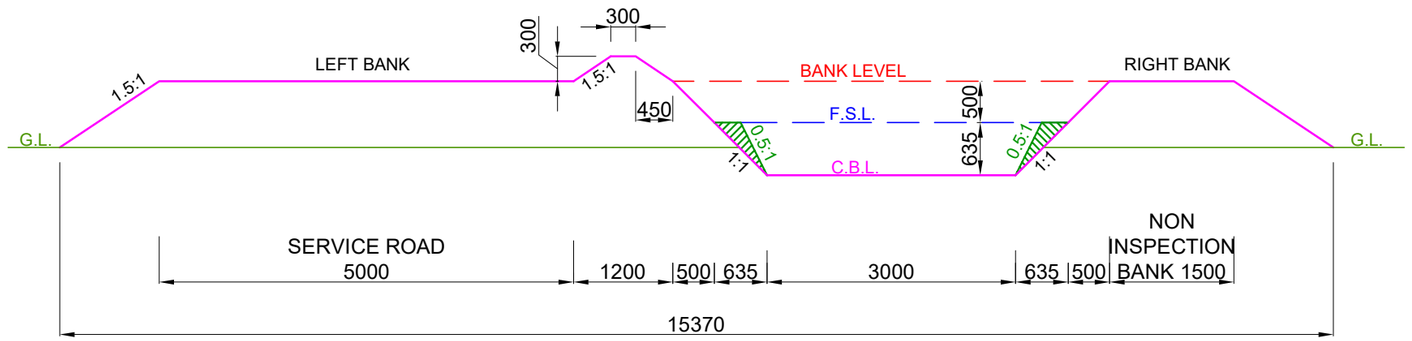
DESIGN SECTION FROM CH: 5.400 KM TO CH: 5.600 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(FF) 9 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



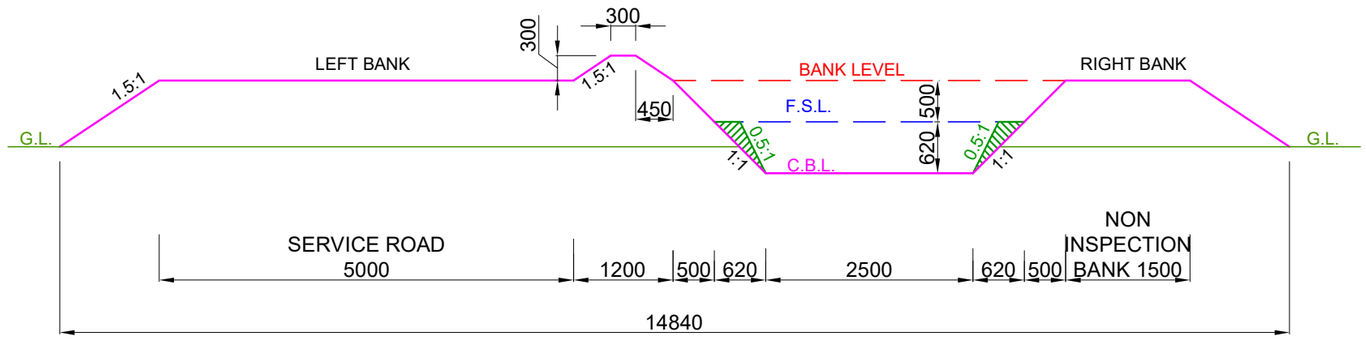
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.050 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 1 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



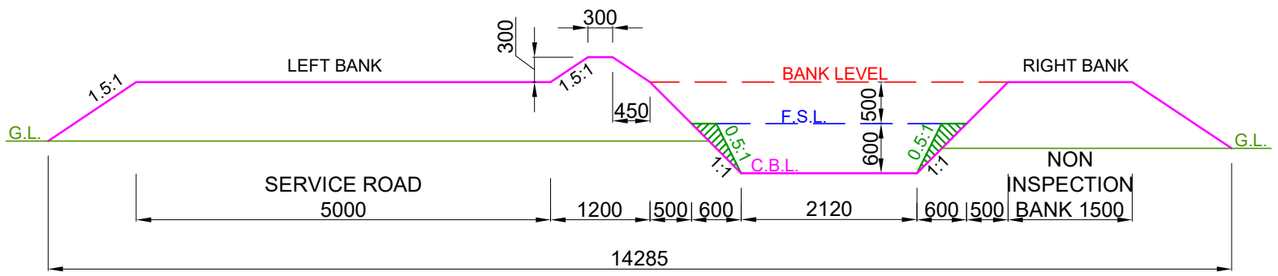
DESIGN SECTION FROM CH: 0.050 KM TO CH: 2.320 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 2 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



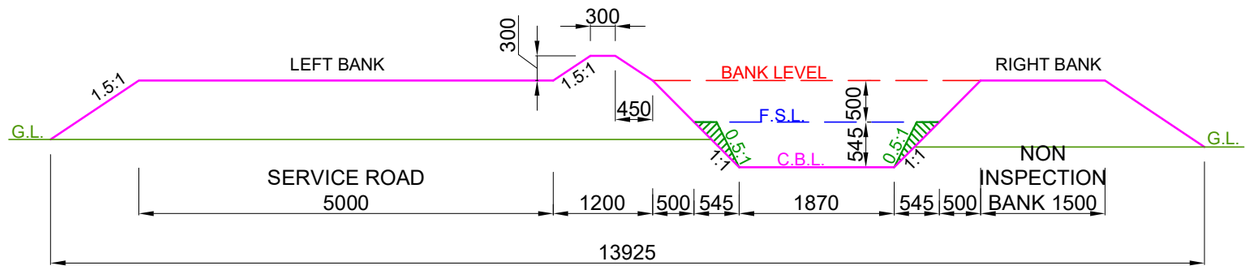
DESIGN SECTION FROM CH: 2.320 KM TO CH: 3.400 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 3 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



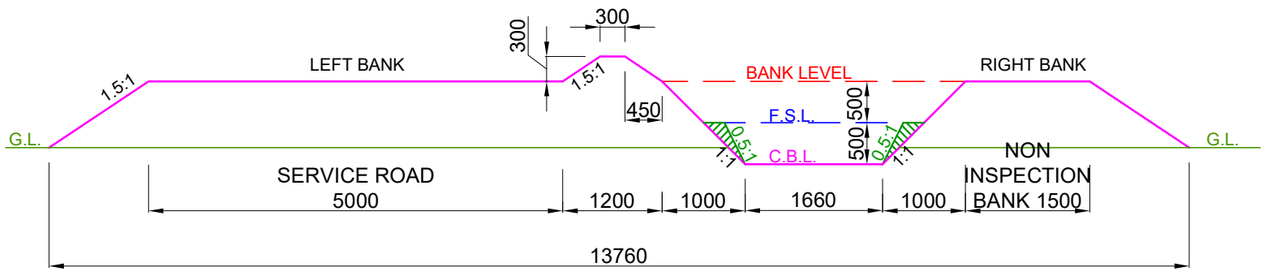
DESIGN SECTION FROM CH: 3.400 KM TO CH: 4.055 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 4 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



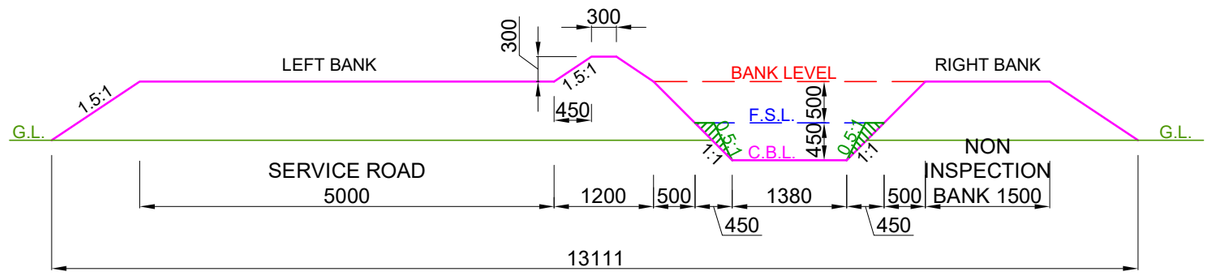
DESIGN SECTION FROM CH: 4.055 KM TO CH: 4.250 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 5 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



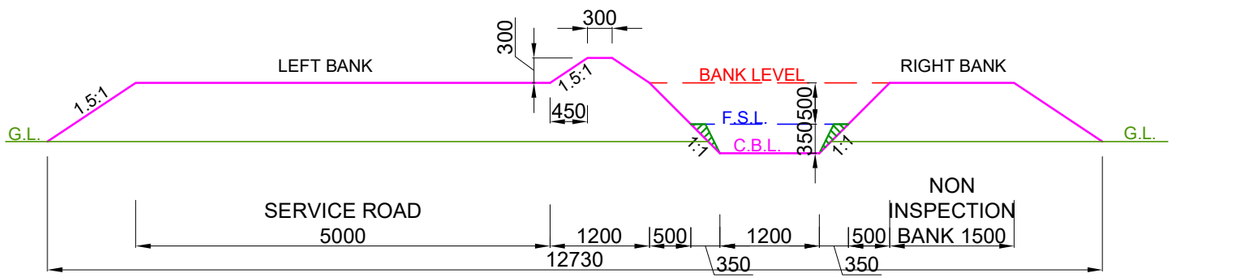
DESIGN SECTION FROM CH: 4.250 KM TO CH: 4.850 KM

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.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	CUT AREA		Drawing Title :-	X SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
	FILL AREA		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 6 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



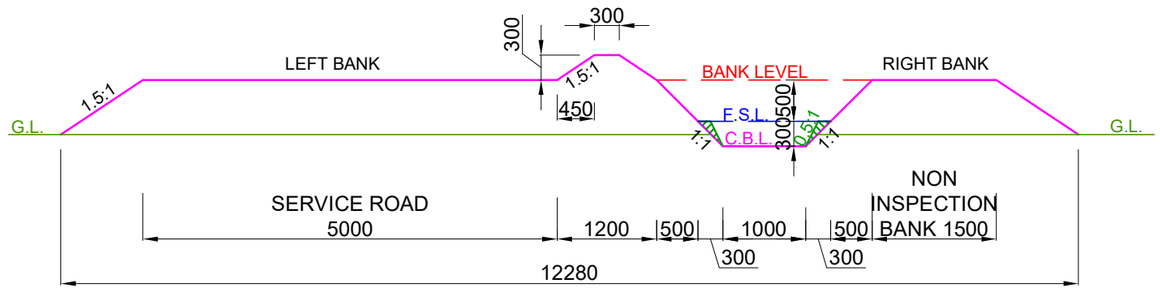
DESIGN SECTION FROM CH: 4.850 KM TO CH: 5.200 KM

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 :-		
	CUT AREA	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	FILL AREA		Drawing Title :-	X SECTION OF DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 7 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



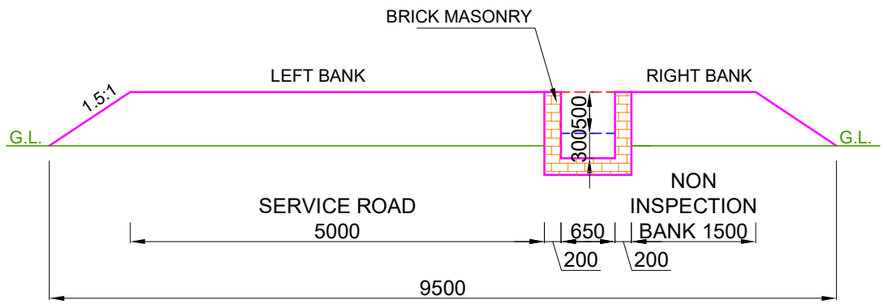
DESIGN SECTION FROM CH: 5.200 KM TO CH: 5.400 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 8 of 9

TYPICAL X - SECTION OF DABURA-I MINOR
(OFFTAKE FROM RD - 2+940 KM. (RT), CHATARA SUB-DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



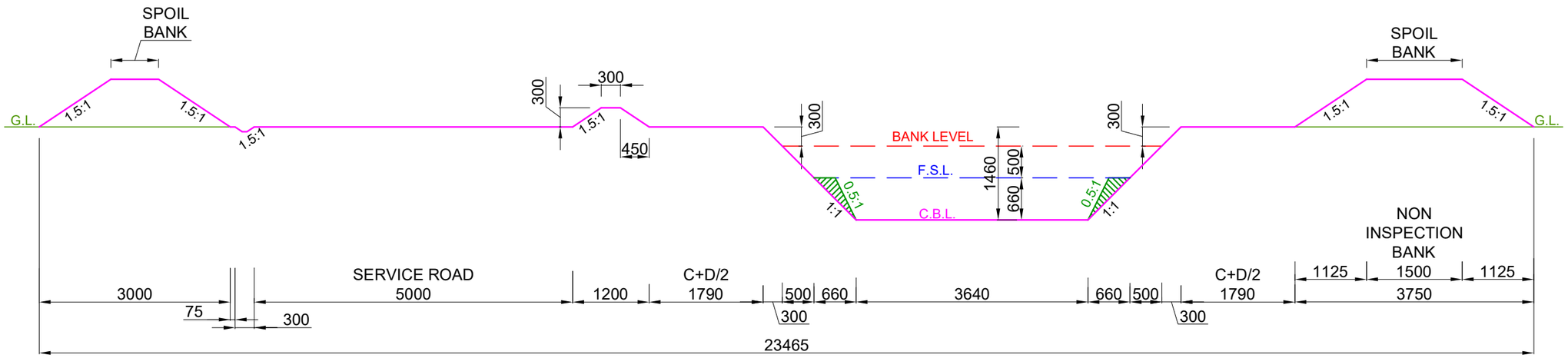
DESIGN SECTION FROM CH: 5.400 KM TO CH: 5.600 KM

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 DABURA-I MR. (OFFTAKE FROM RD - 2+940 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC /TYP-(PCF) 9 of 9

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



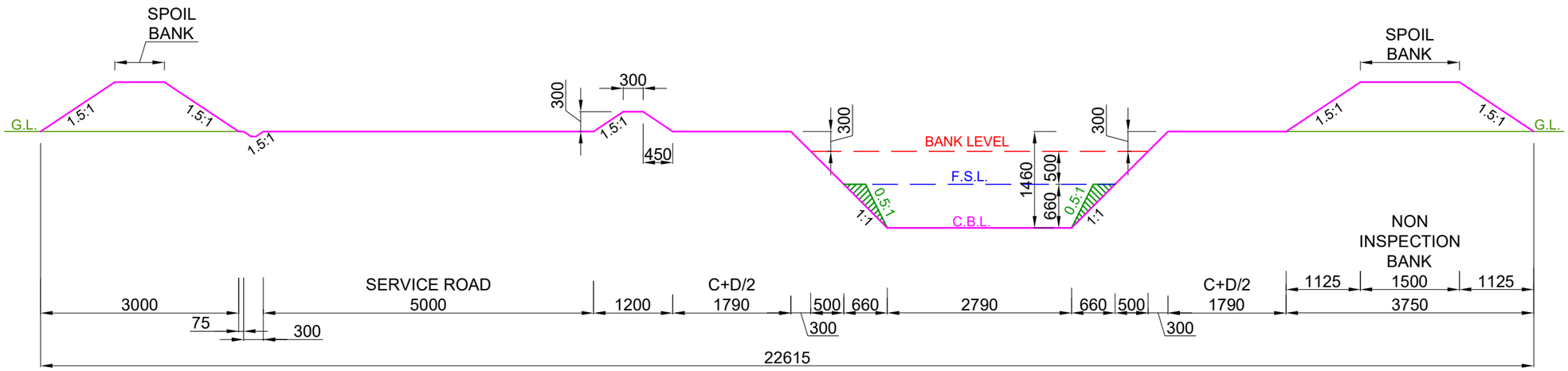
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.160 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 1 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



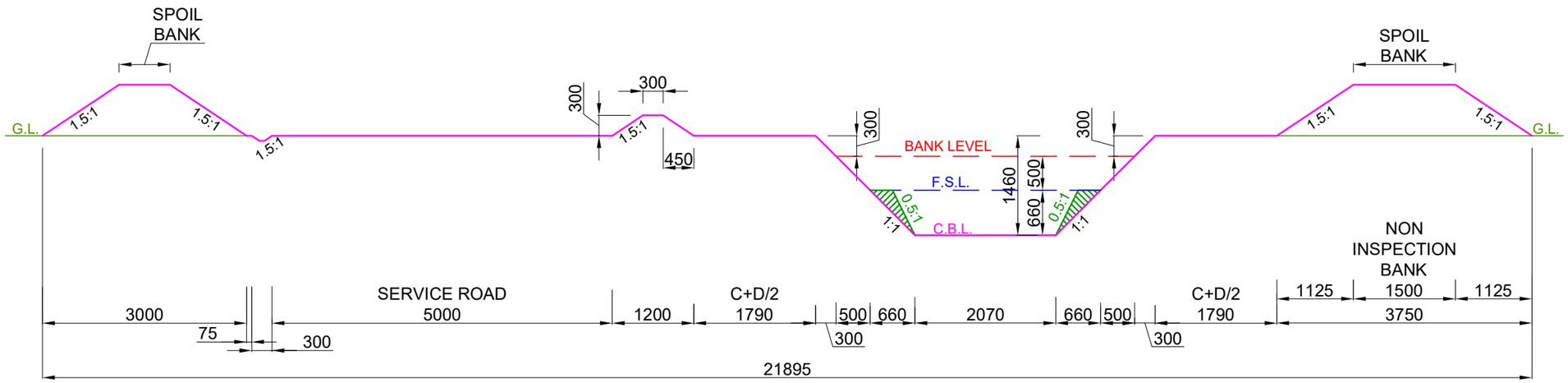
DESIGN SECTION FROM CH: 0.160 KM TO CH: 1.500 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 2 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



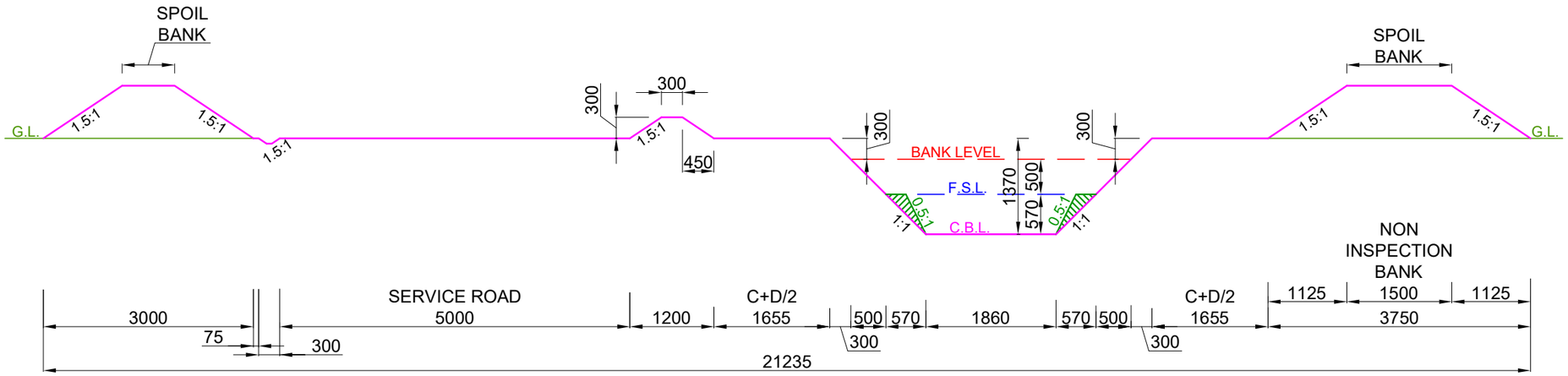
DESIGN SECTION FROM CH: 1.500 KM TO CH: 2.800 KM

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.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	CUT AREA		Drawing Title :-	X SECTION OF AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
	FILL AREA		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 3 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



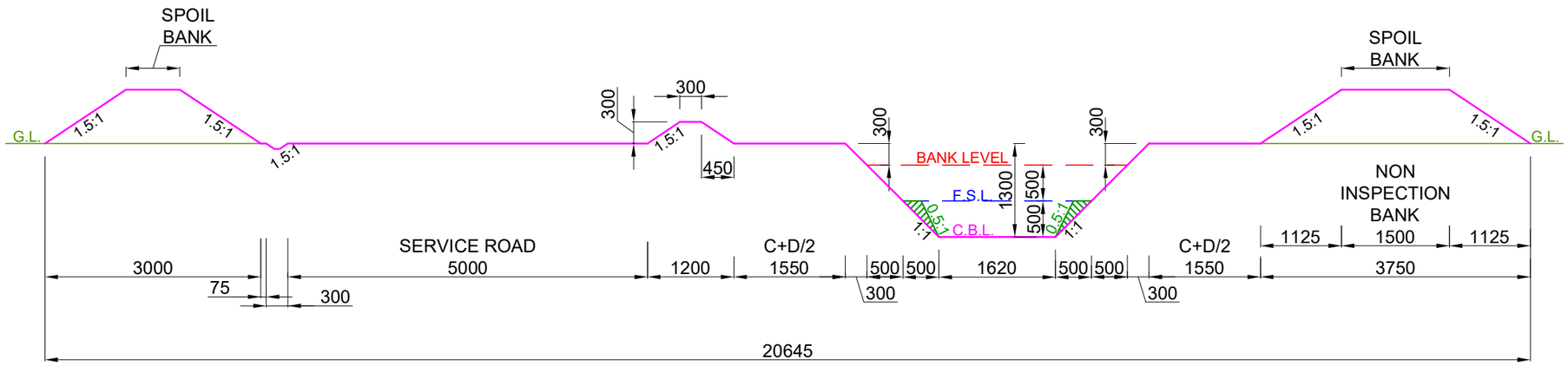
DESIGN SECTION FROM CH: 2.800 KM TO CH: 3.650 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 4 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



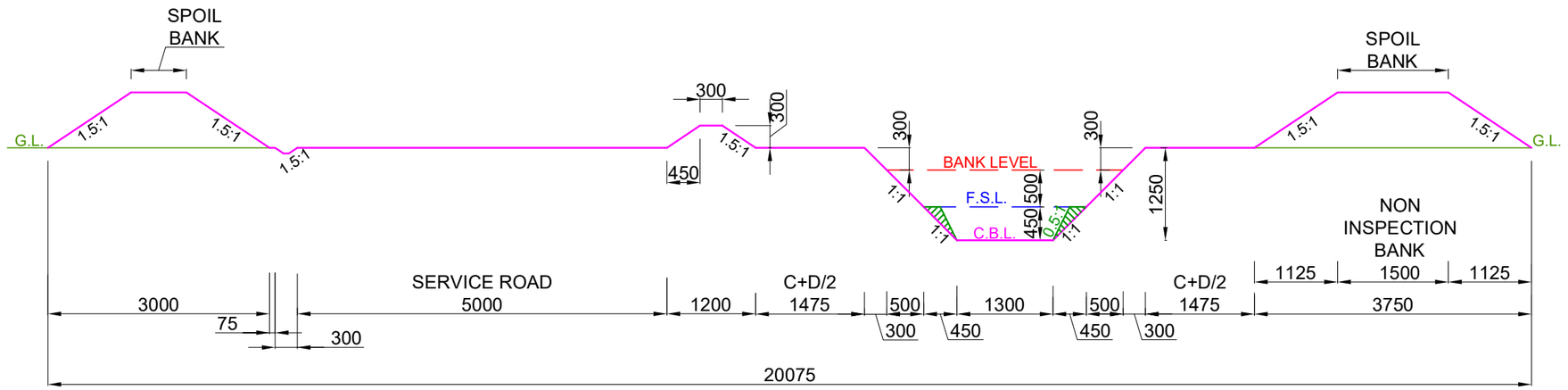
DESIGN SECTION FROM CH: 3.650 KM TO CH: 4.300 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 5 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



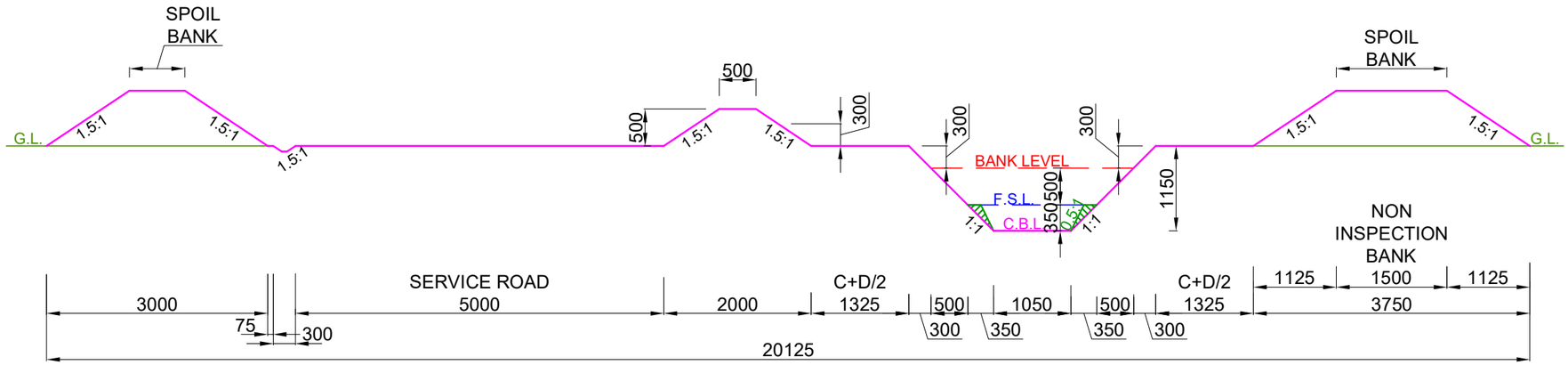
DESIGN SECTION FROM CH: 4.300 KM TO CH: 4.850 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 6 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



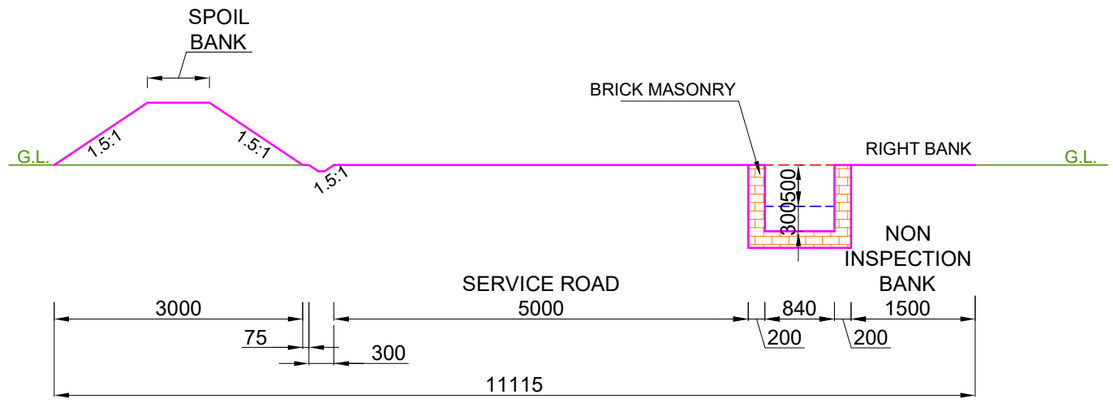
DESIGN SECTION FROM CH: 4.850 KM TO CH: 5.100 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 7 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL CUTTING



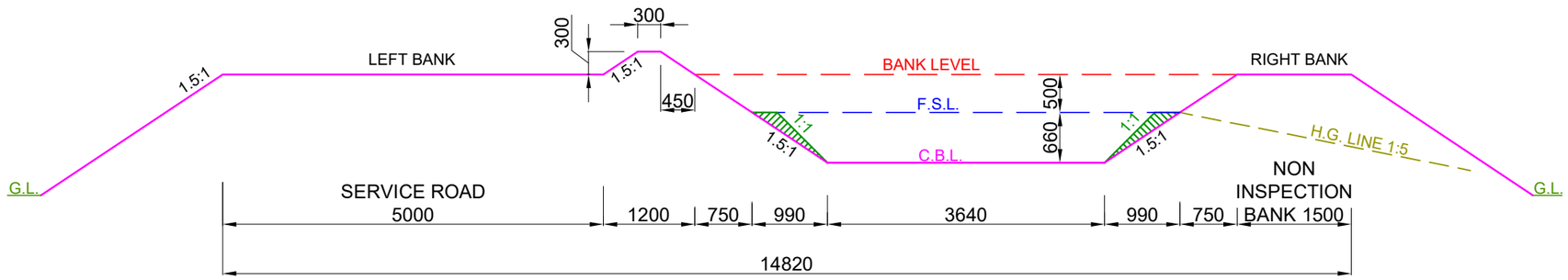
DESIGN SECTION FROM CH: 5.100 KM TO CH: 5.600 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FC) 8 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



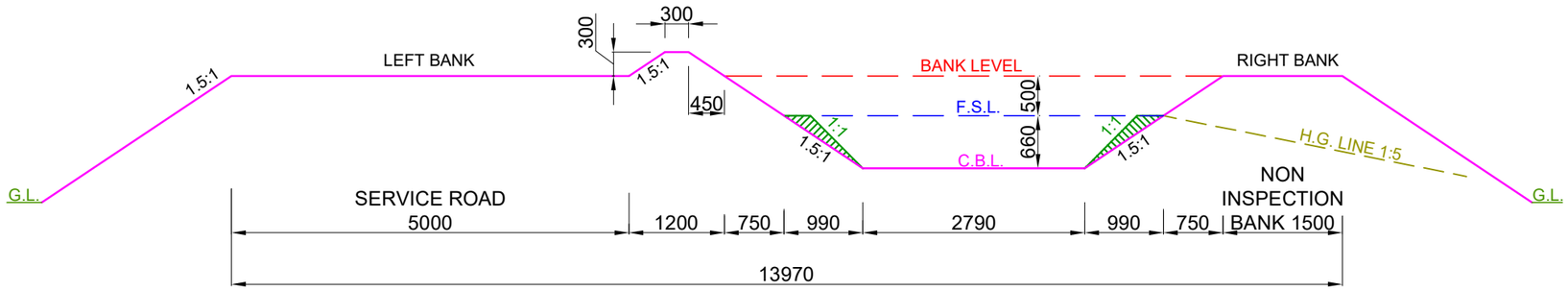
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.160 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 1 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



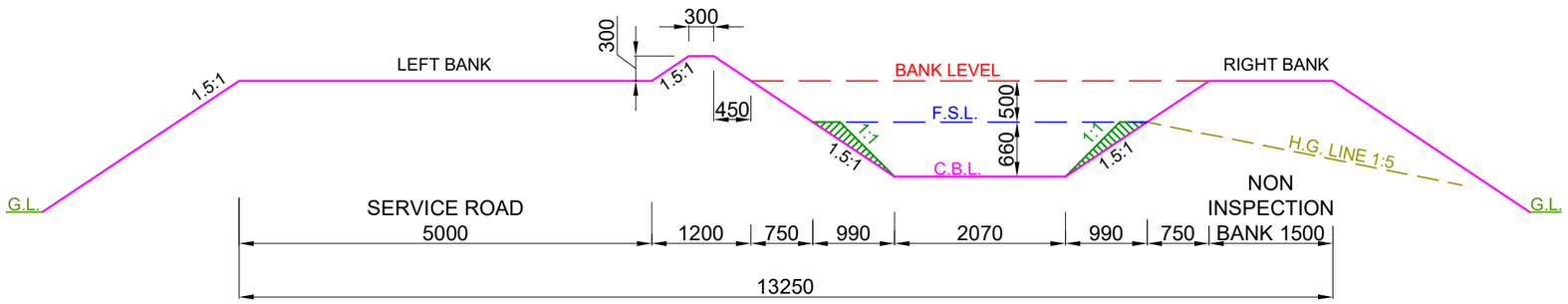
DESIGN SECTION FROM CH: 0.160 KM TO CH: 1.500 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 2 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



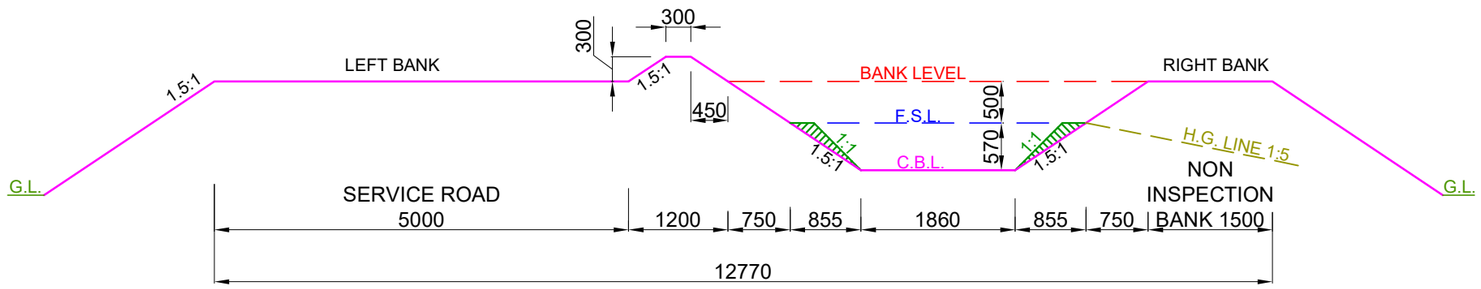
DESIGN SECTION FROM CH: 1.500 KM TO CH: 2.800 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 3 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



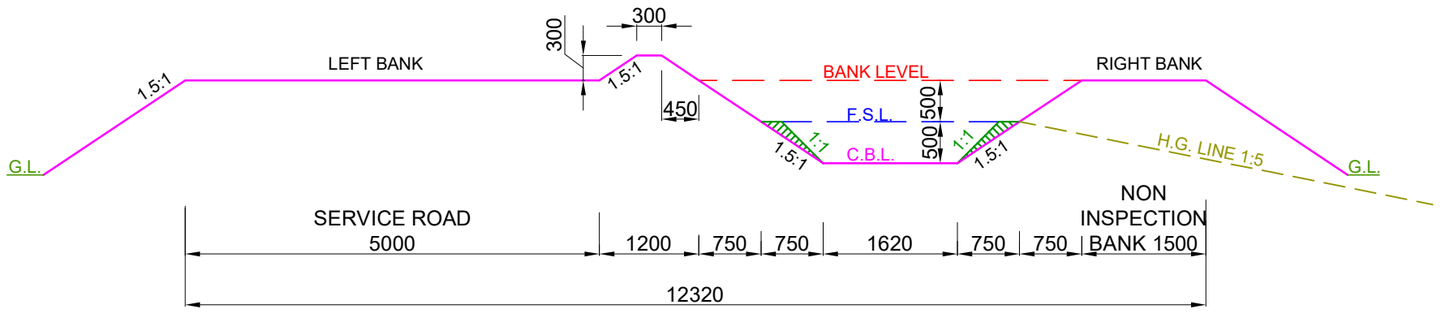
DESIGN SECTION FROM CH: 2.800 KM TO CH: 3.650 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 4 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



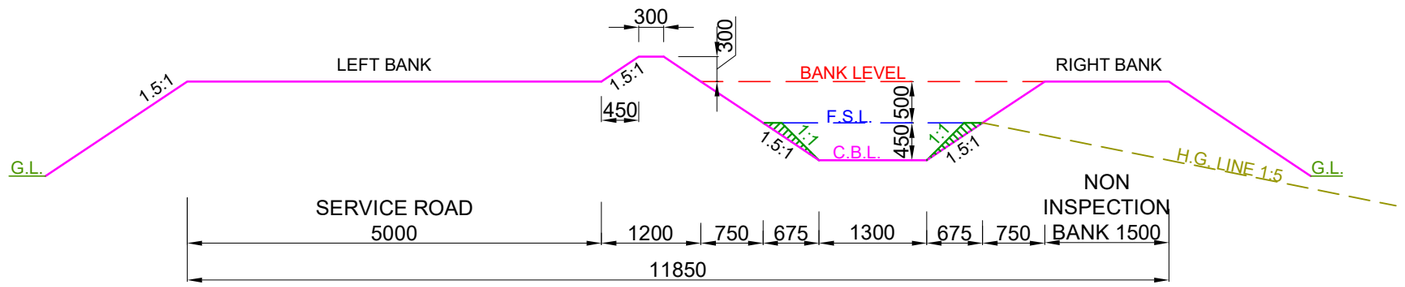
DESIGN SECTION FROM CH: 3.650 KM TO CH: 4.300 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 5 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



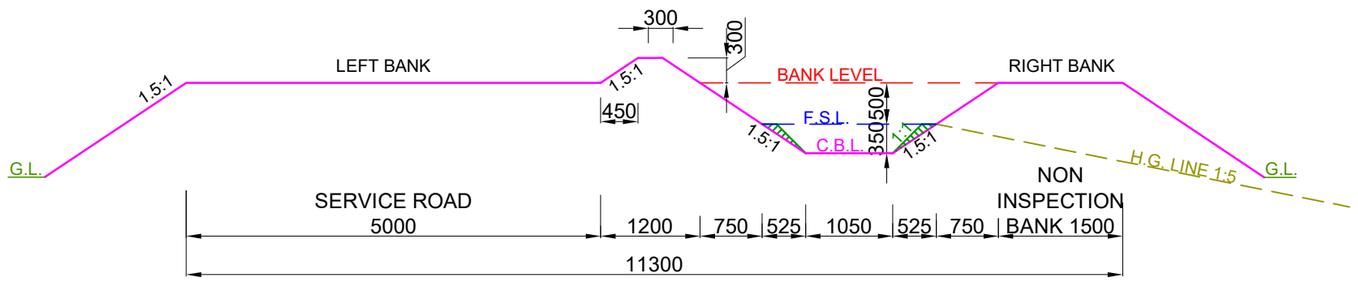
DESIGN SECTION FROM CH: 4.300 KM TO CH: 4.850 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 6 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



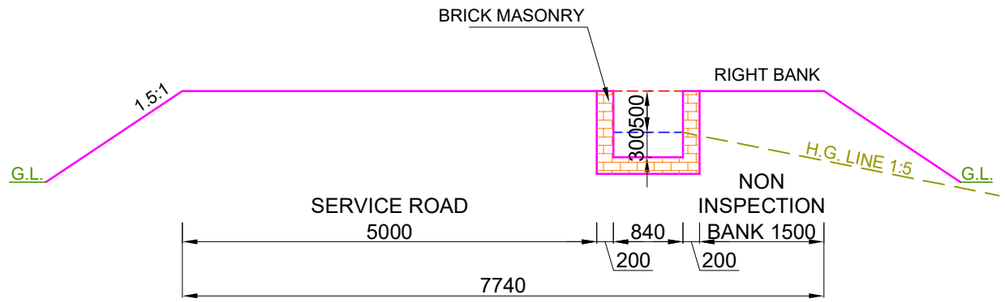
DESIGN SECTION FROM CH: 4.850 KM TO CH: 5.100 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 7 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR FULL FILLING



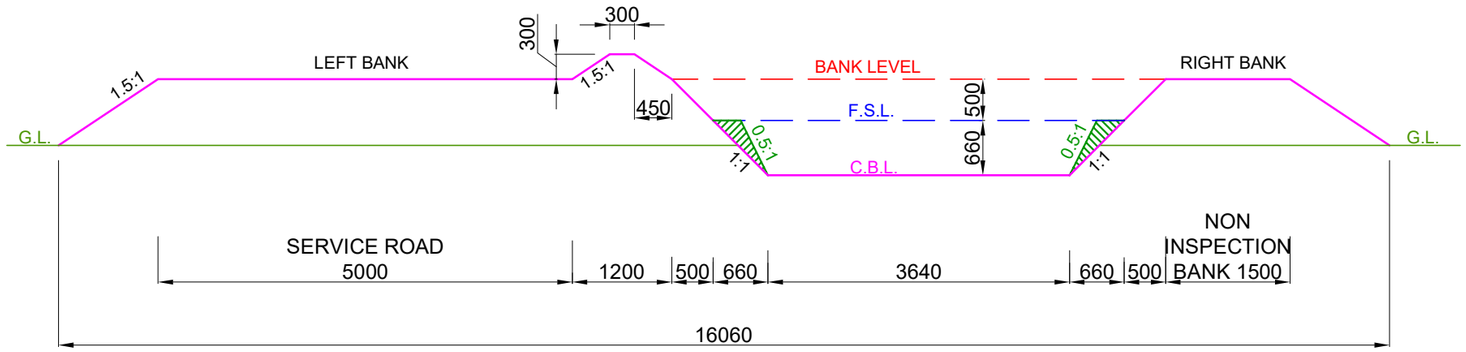
DESIGN SECTION FROM CH: 5.100 KM TO CH: 5.600 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(FF) 8 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



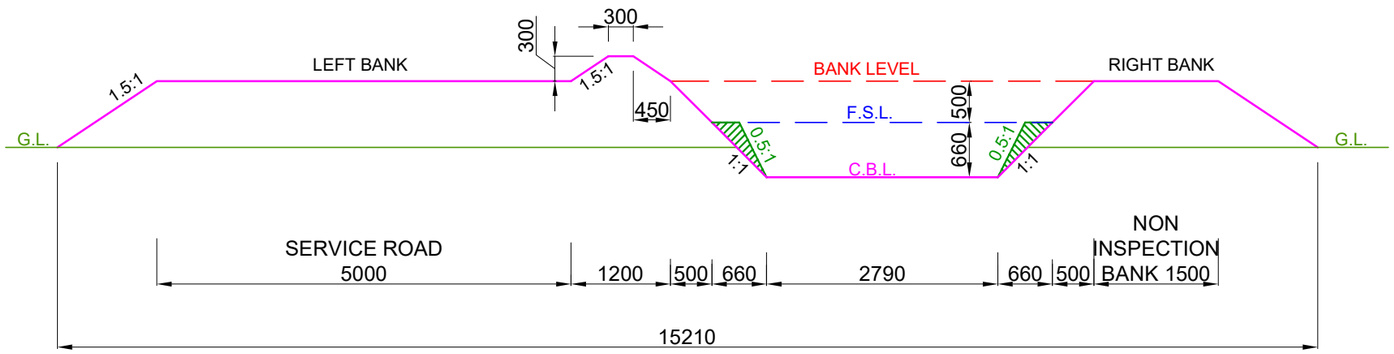
DESIGN SECTION FROM CH: 0.000 KM TO CH: 0.160 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 1 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



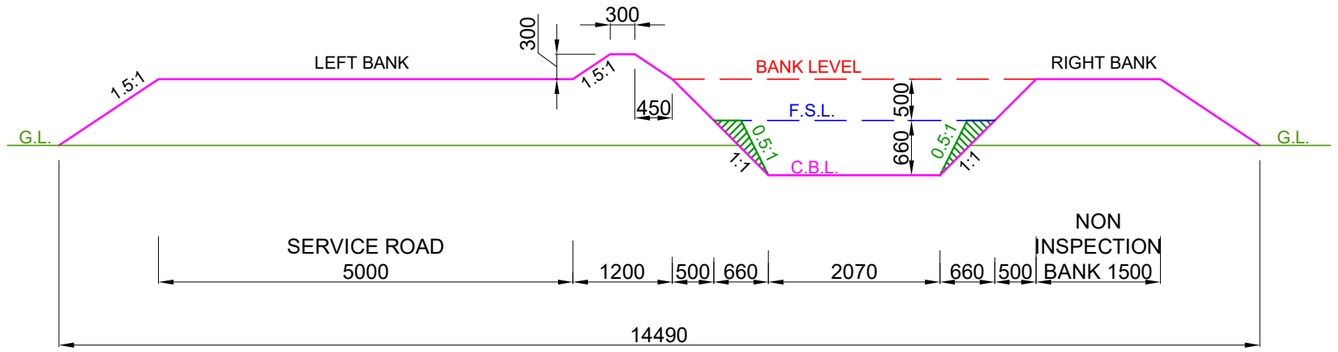
DESIGN SECTION FROM CH: 0.160 KM TO CH: 1.500 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 2 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



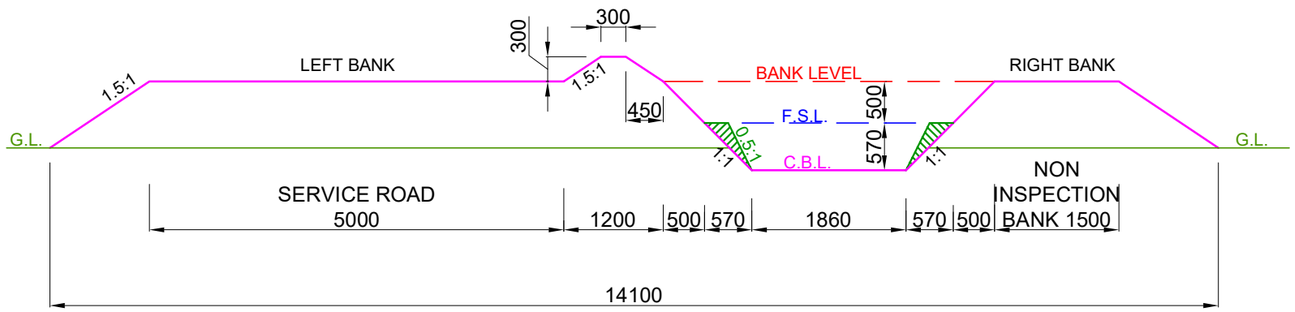
DESIGN SECTION FROM CH: 1.500 KM TO CH: 2.800 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 3 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



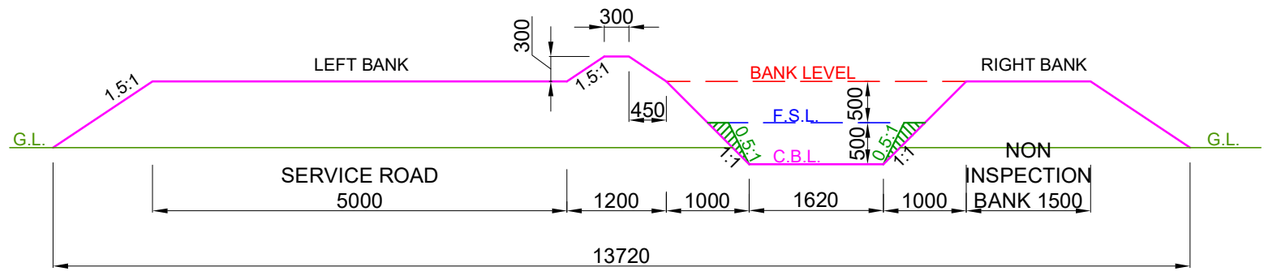
DESIGN SECTION FROM CH: 2.800 KM TO CH: 3.650 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 4 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



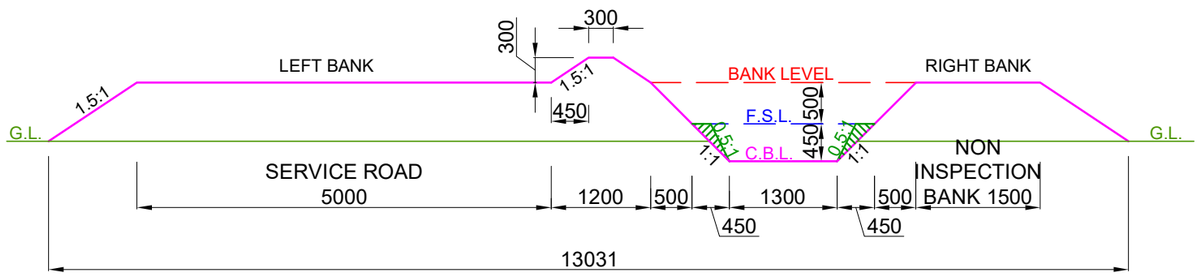
DESIGN SECTION FROM CH: 3.650 KM TO CH: 4.300 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 5 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



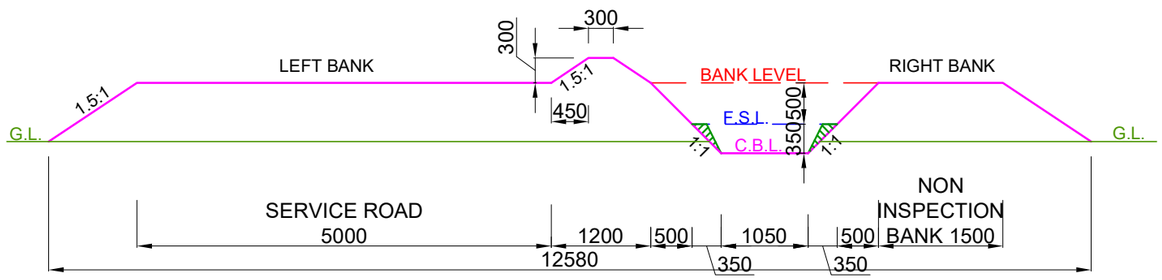
DESIGN SECTION FROM CH: 4.300 KM TO CH: 4.850 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 6 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



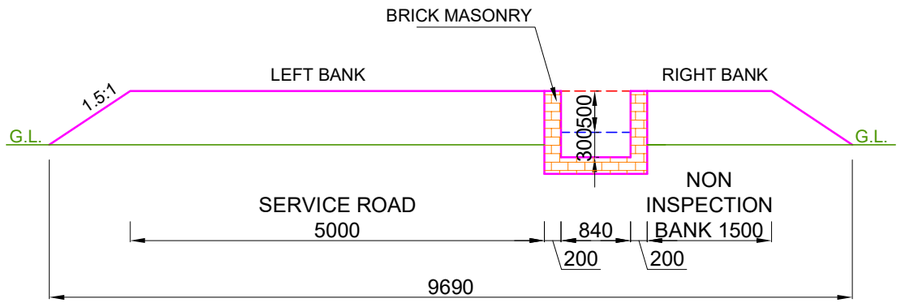
DESIGN SECTION FROM CH: 4.850 KM TO CH: 5.100 KM

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 7 of 8

TYPICAL X - SECTION OF AKAUNA MINOR
(OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
DESIGN SECTION FOR PARTLY CUTTING/ PARTLY FILLING



DESIGN SECTION FROM CH: 5.100 KM TO CH: 5.600 KM

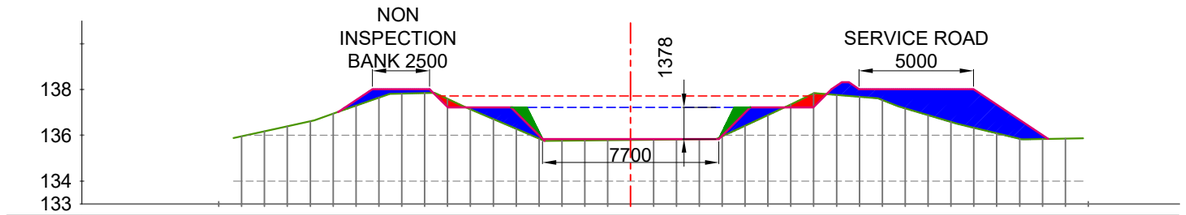
NOTE:-

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 AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DISTRIBUTARY CANAL)
			Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC /TYP-(PCF) 8 of 8

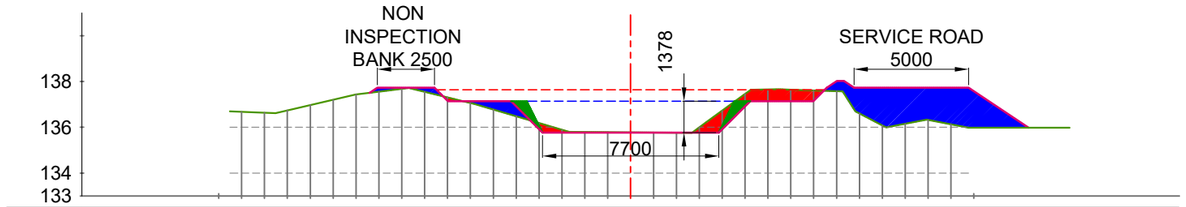
CROSS-SECTION

X SECTION OF KAPASIYA DY.



| | | |

X SECTION OF KAPASIYA DY.



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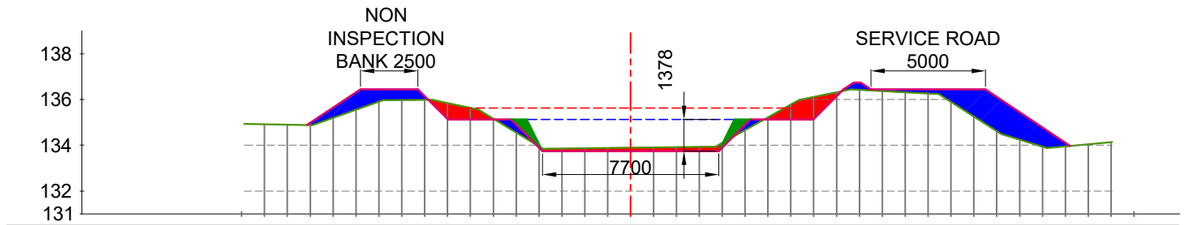
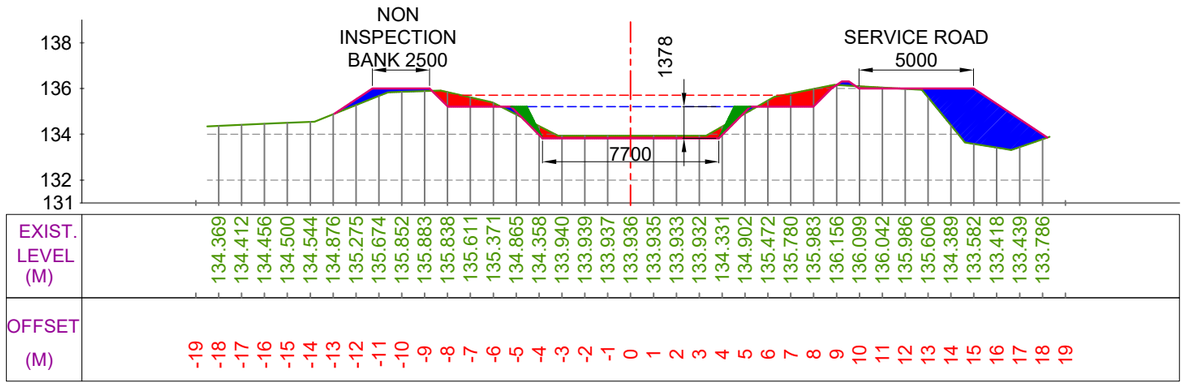
X SECTION OF KAPASIYA DY.



| | | |

X SECTION OF KAPASIYA DY.



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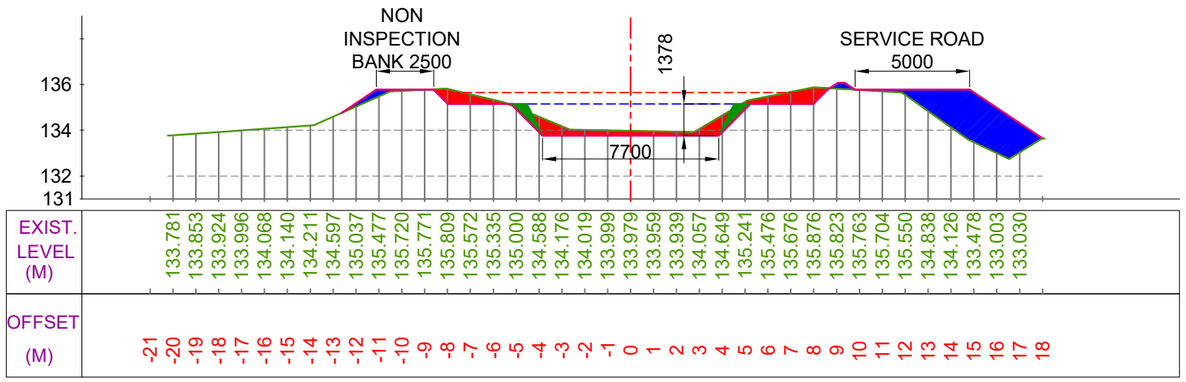
X SECTION OF KAPASIYA DY.



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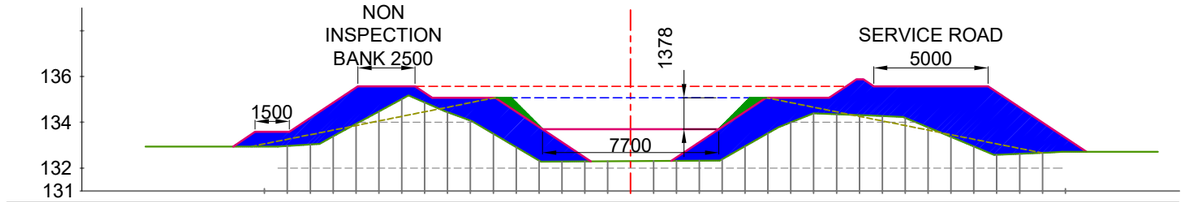
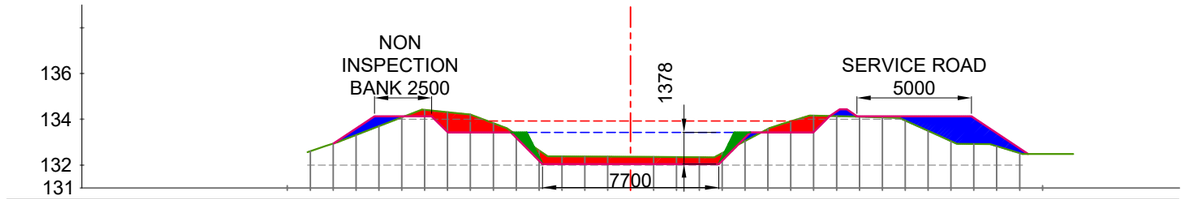
X SECTION OF KAPASIYA DY.



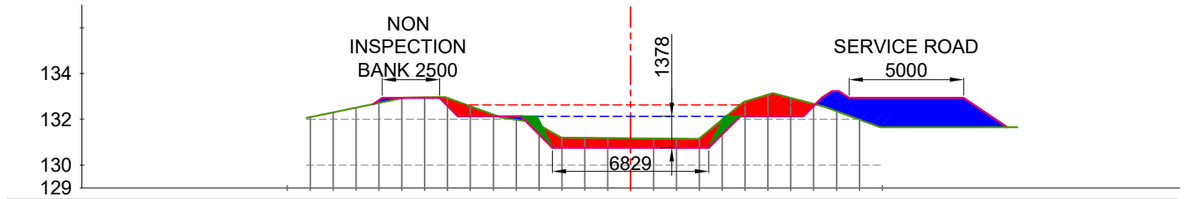
| | | |

X SECTION OF KAPASIYA DY.



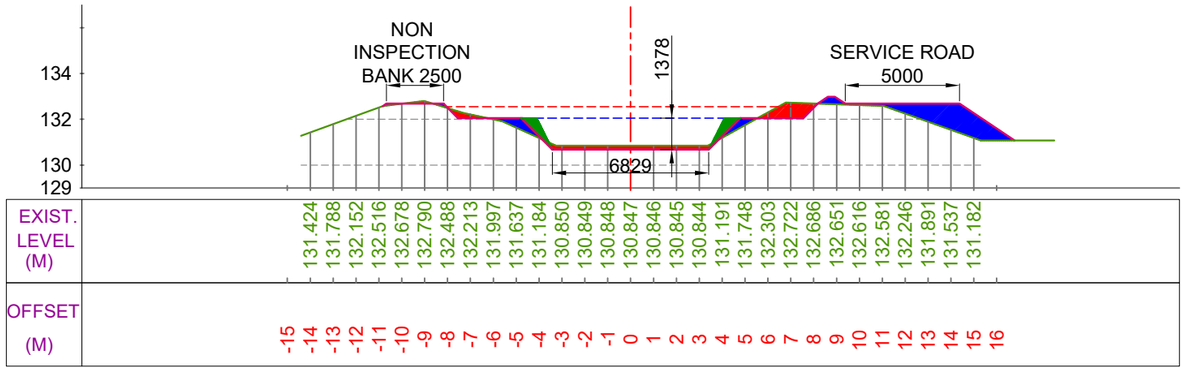
| | | |

X SECTION OF KAPASIYA DY.

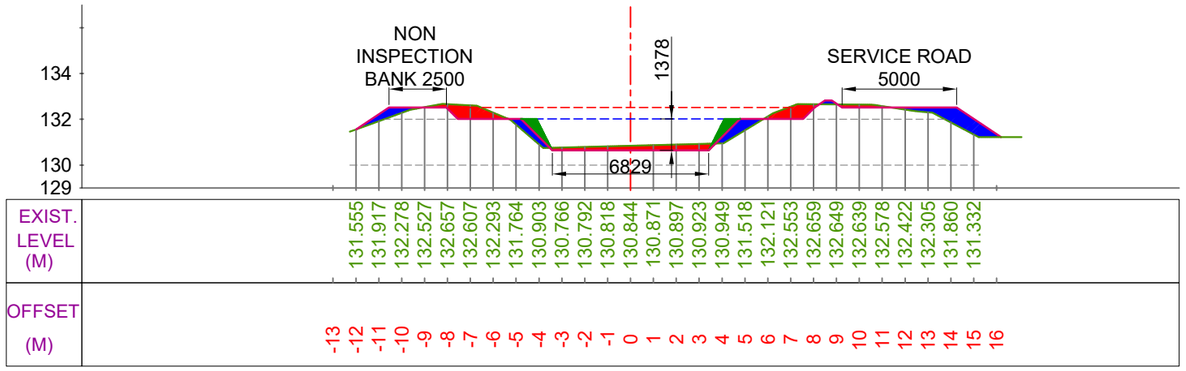


| | | |

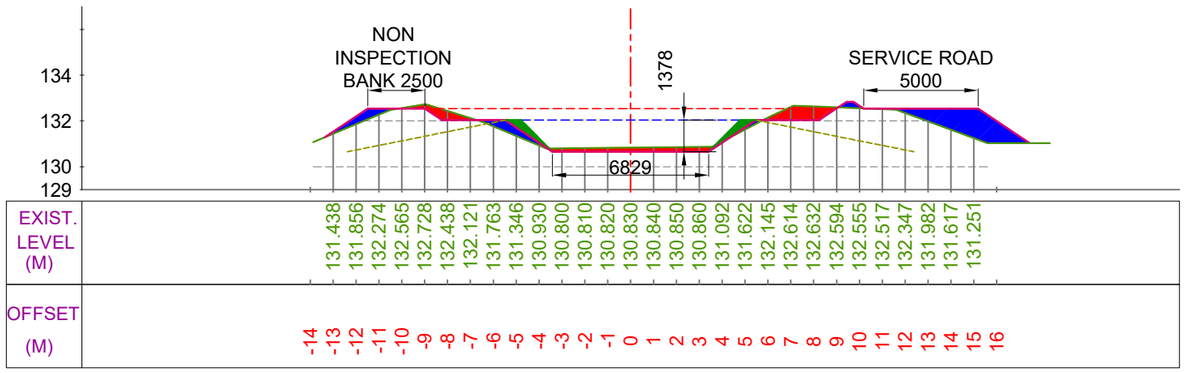
X SECTION OF KAPASIYA DY.



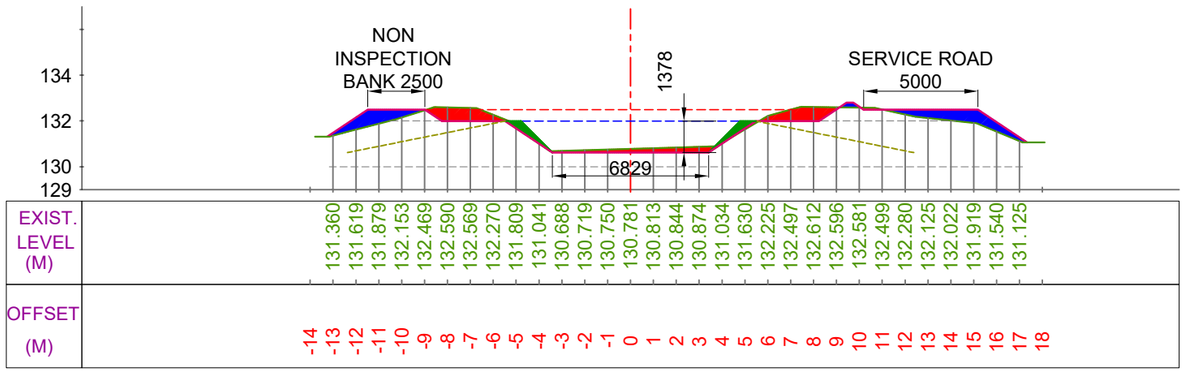
CUTTING AREA (SQ.M) = 2.656 CH. (KM):- 3+300
FILLING AREA (SQ.M) = 5.426 DESIGNED BED LEVEL = 130.676 M



CUTTING AREA (SQ.M) = 3.742 CH. (KM):- 3+500
FILLING AREA (SQ.M) = 3.694 DESIGNED BED LEVEL = 130.638 M



CUTTING AREA (SQ.M) = 3.308 CH. (KM):- 3+400
FILLING AREA (SQ.M) = 5.945 DESIGNED BED LEVEL = 130.657 M



CUTTING AREA (SQ.M) = 4.139 CH. (KM):- 3+600
FILLING AREA (SQ.M) = 4.035 DESIGNED BED LEVEL = 130.619 M

LEGEND

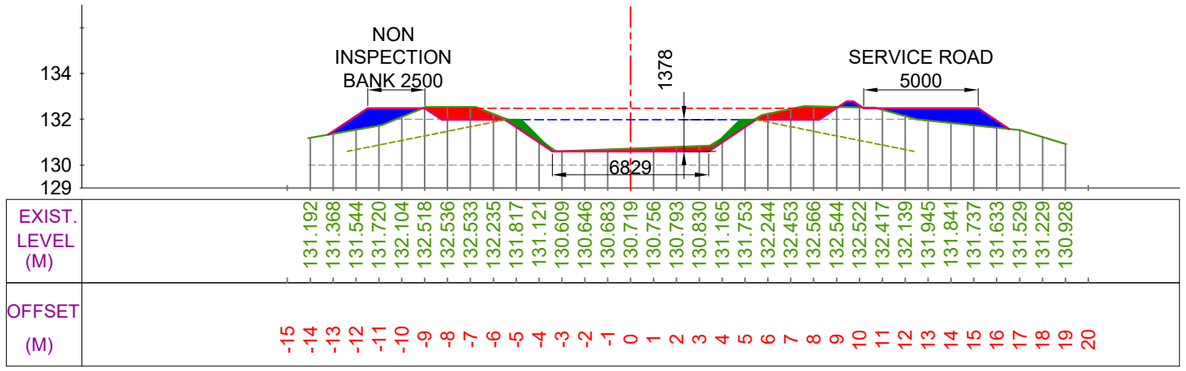
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

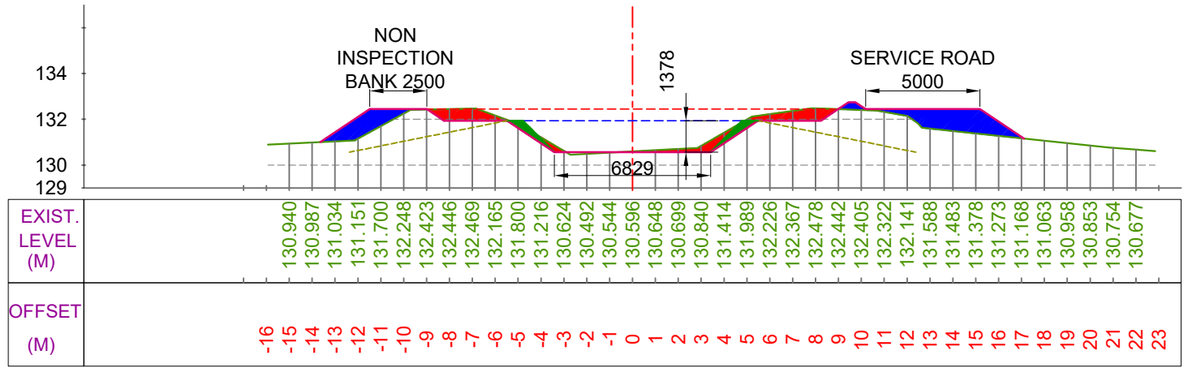
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 9 of 47

X SECTION OF KAPASIYA DY.



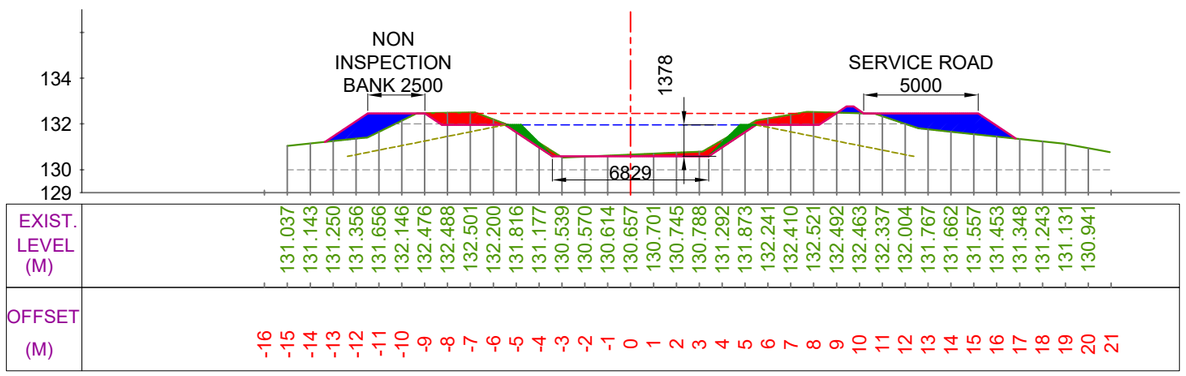
CUTTING AREA (SQ.M) = 3.743 CH. (KM):- 3+700

FILLING AREA (SQ.M) = 4.633 DESIGNED BED LEVEL = 130.601 M



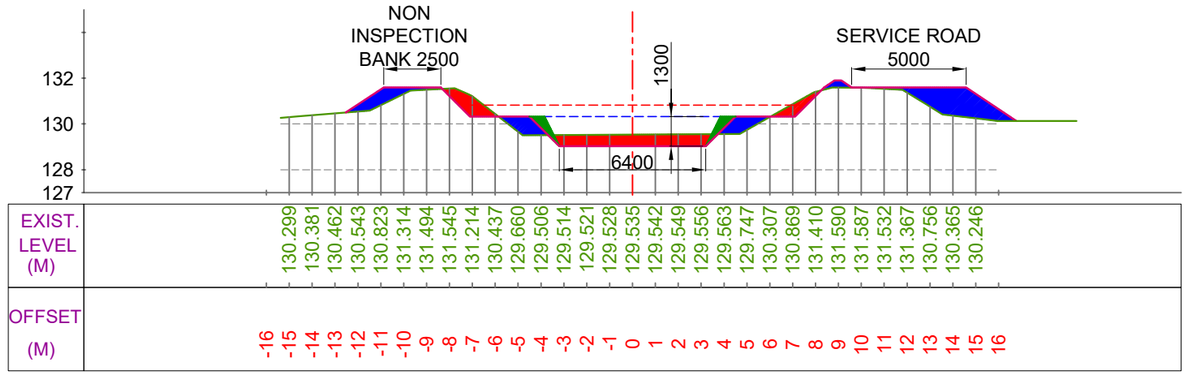
CUTTING AREA (SQ.M) = 3.687 CH. (KM):- 3+900

FILLING AREA (SQ.M) = 6.584 DESIGNED BED LEVEL = 130.563 M



CUTTING AREA (SQ.M) = 3.630 CH. (KM):- 3+800

FILLING AREA (SQ.M) = 5.744 DESIGNED BED LEVEL = 130.582 M



CUTTING AREA (SQ.M) = 5.362 CH. (KM):- 4+000

FILLING AREA (SQ.M) = 7.590 DESIGNED BED LEVEL = 129.024 M

LEGEND

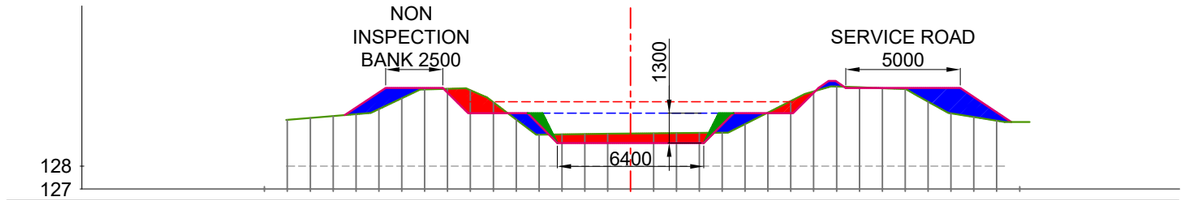
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 10 of 47

X SECTION OF KAPASIYA DY.



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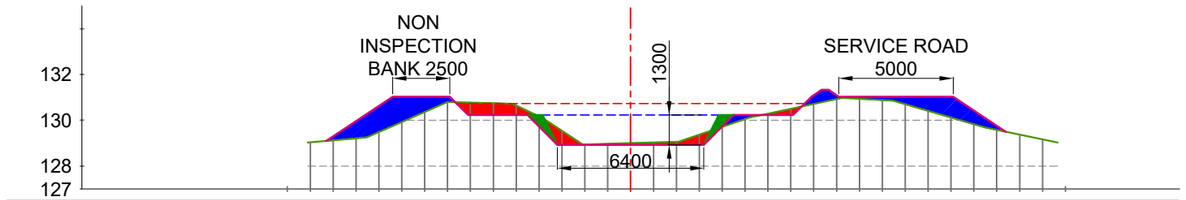
X SECTION OF KAPASIYA DY.



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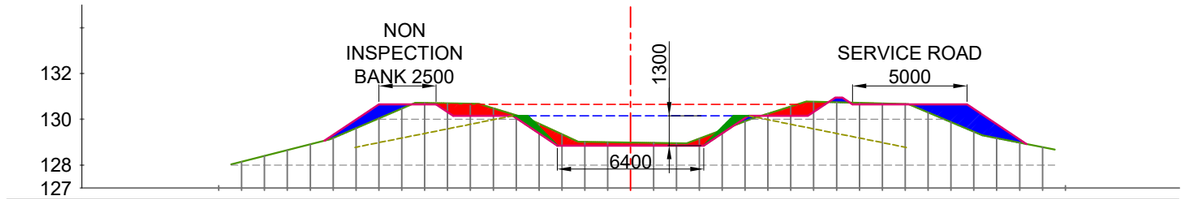
X SECTION OF KAPASIYA DY.



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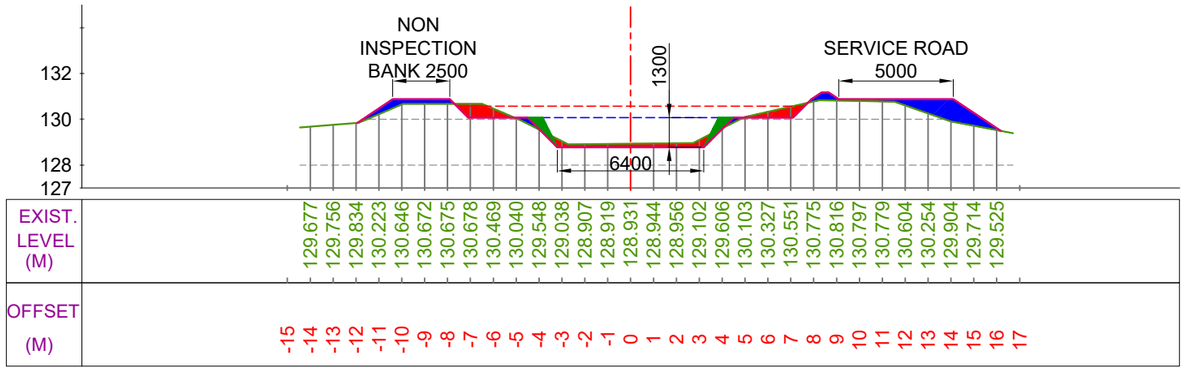
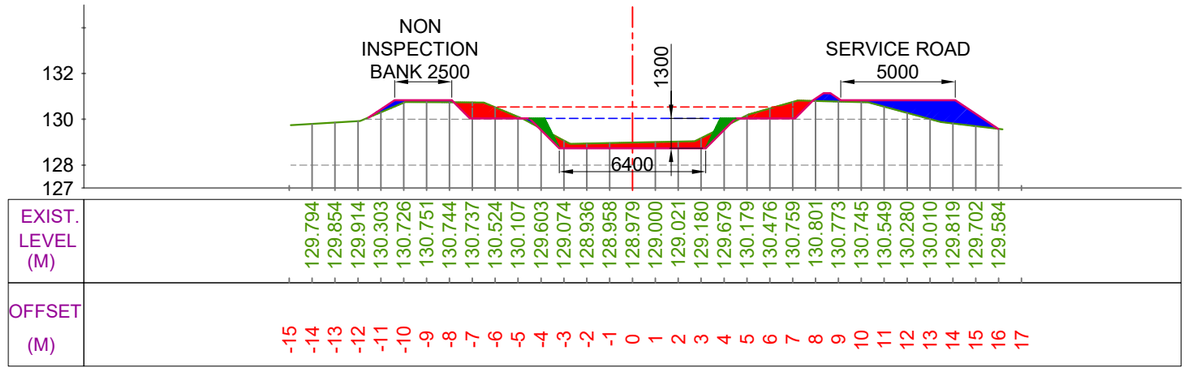
X SECTION OF KAPASIYA DY.



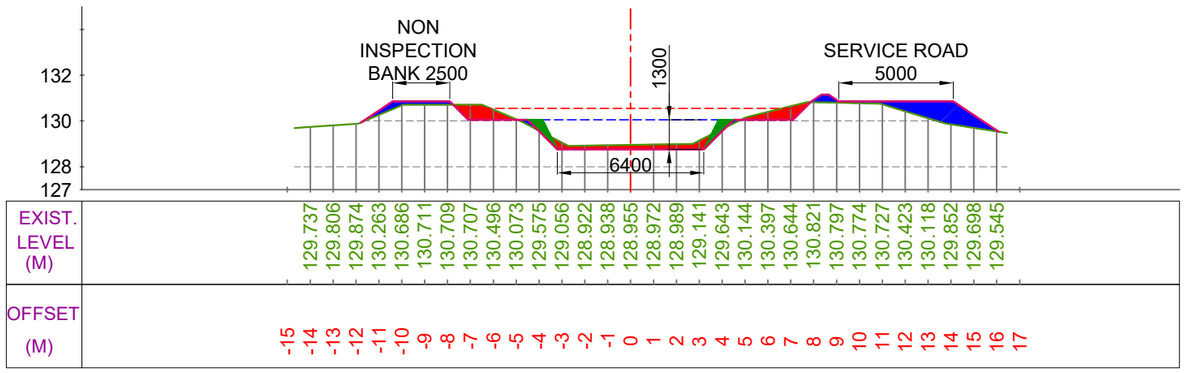
CUTTING AREA (SQ.M) = 2.922 CH. (KM):- 5+300

FILLING AREA (SQ.M) = 4.096 DESIGNED BED LEVEL = 128.774 M



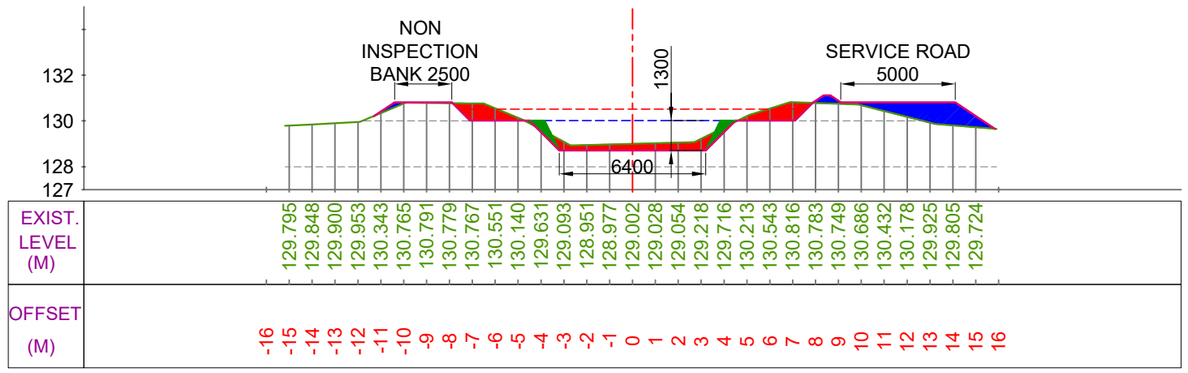
CUTTING AREA (SQ.M) = 4.379 CH. (KM):- 5+500

FILLING AREA (SQ.M) = 4.126 DESIGNED BED LEVEL = 128.735 M



CUTTING AREA (SQ.M) = 3.641 CH. (KM):- 5+400

FILLING AREA (SQ.M) = 4.100 DESIGNED BED LEVEL = 128.755 M



CUTTING AREA (SQ.M) = 5.041 CH. (KM):- 5+600

FILLING AREA (SQ.M) = 4.092 DESIGNED BED LEVEL = 128.716 M

LEGEND

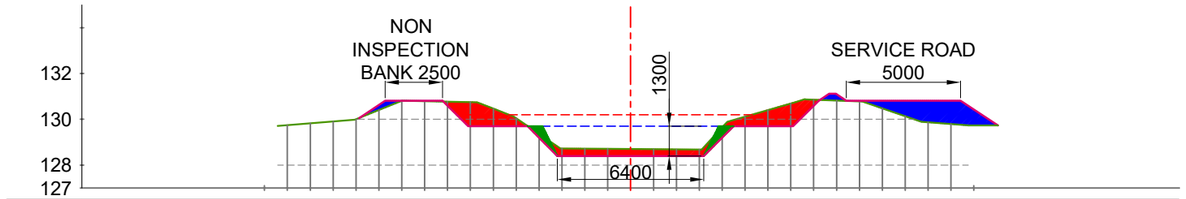
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 14 of 47

X SECTION OF KAPASIYA DY.



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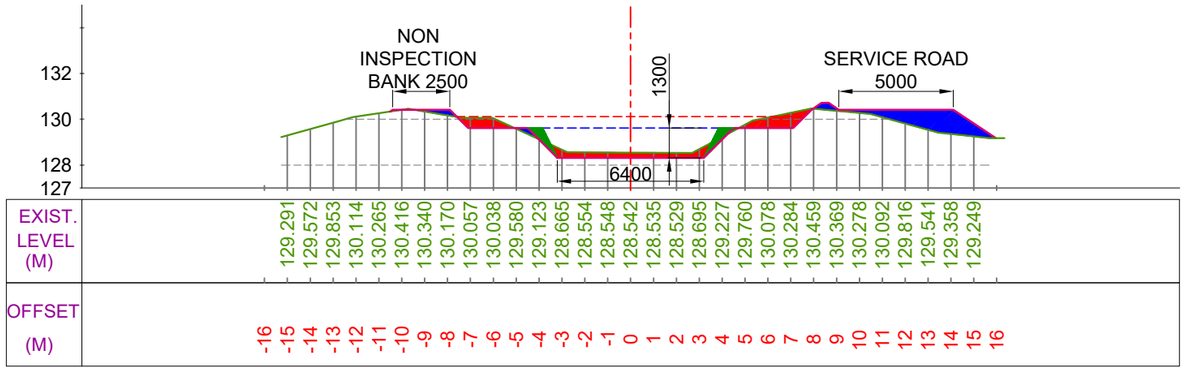
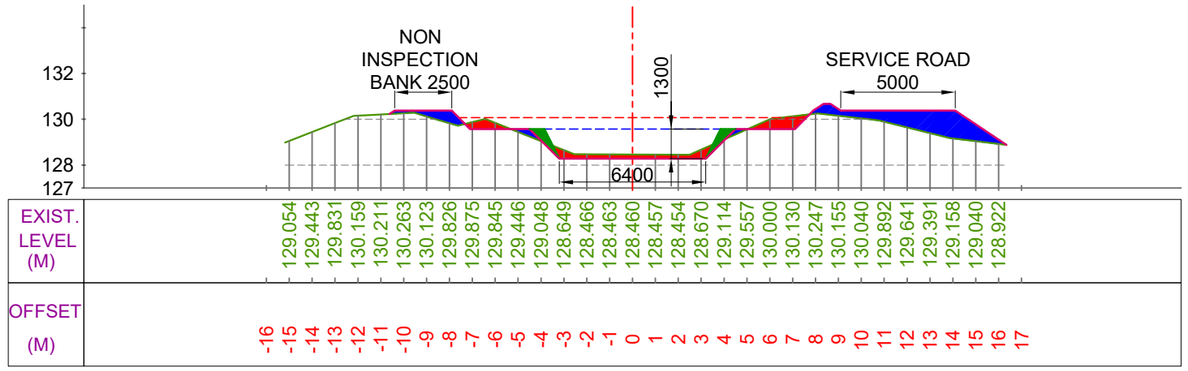
X SECTION OF KAPASIYA DY.



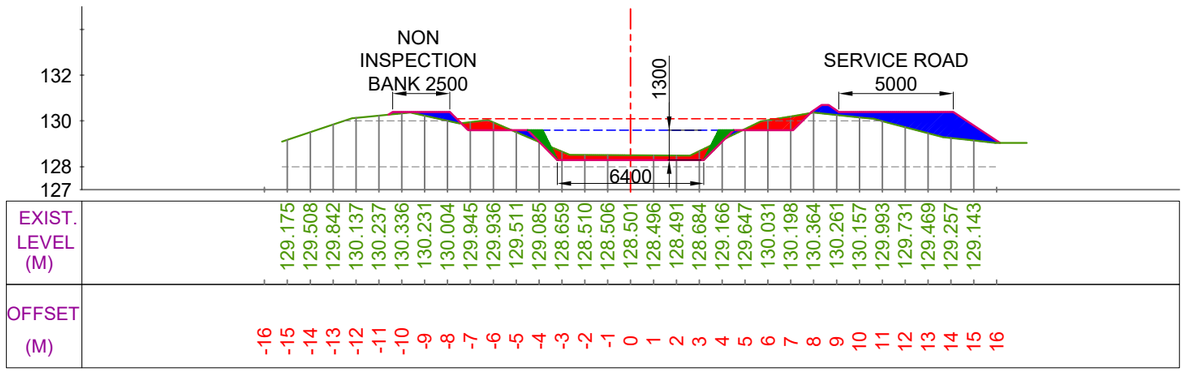
CUTTING AREA (SQ.M) = 3.798 CH. (KM):- 6+100

FILLING AREA (SQ.M) = 4.255 DESIGNED BED LEVEL = 128.315 M



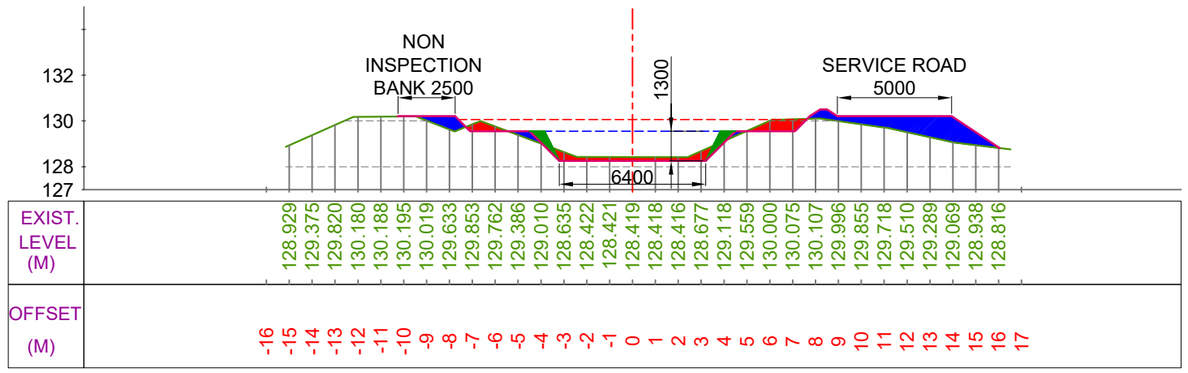
CUTTING AREA (SQ.M) = 2.944 CH. (KM):- 6+300

FILLING AREA (SQ.M) = 6.380 DESIGNED BED LEVEL = 128.277 M



CUTTING AREA (SQ.M) = 3.306 CH. (KM):- 6+200

FILLING AREA (SQ.M) = 5.289 DESIGNED BED LEVEL = 128.296 M



CUTTING AREA (SQ.M) = 2.794 CH. (KM):- 6+400

FILLING AREA (SQ.M) = 5.774 DESIGNED BED LEVEL = 128.257 M

LEGEND

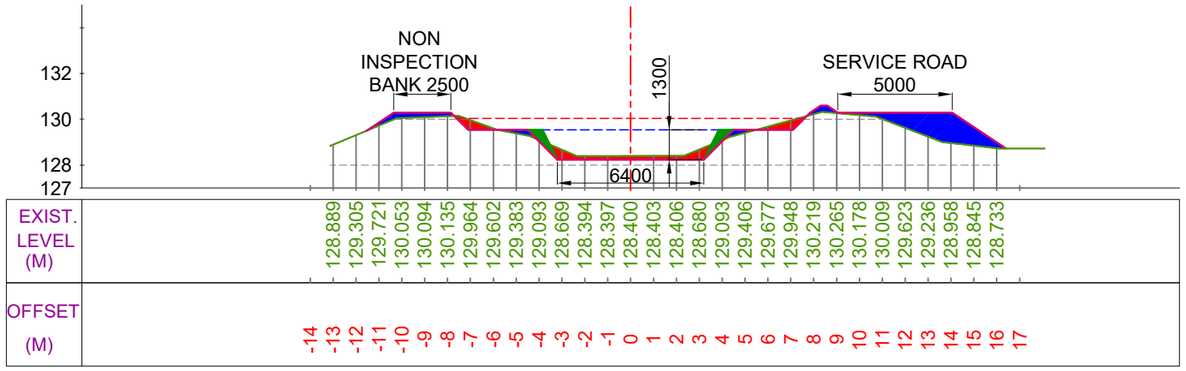
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

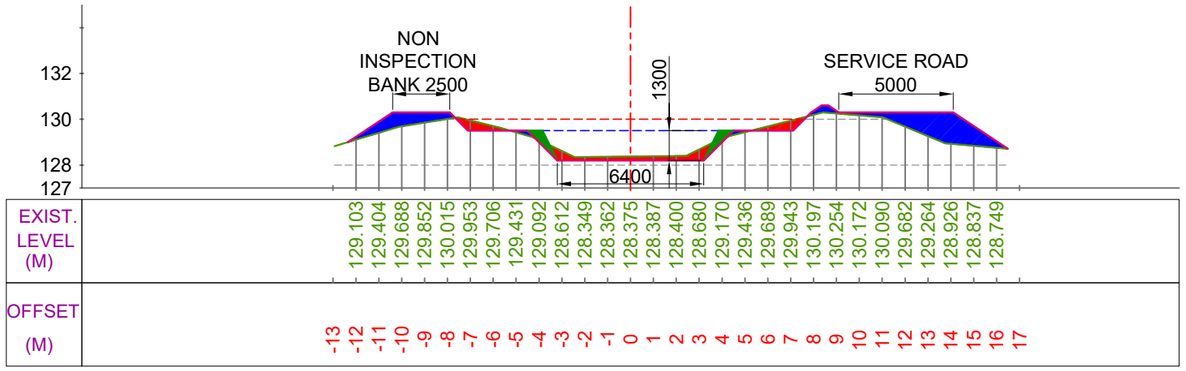
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 16 of 47

X SECTION OF KAPASIYA DY.



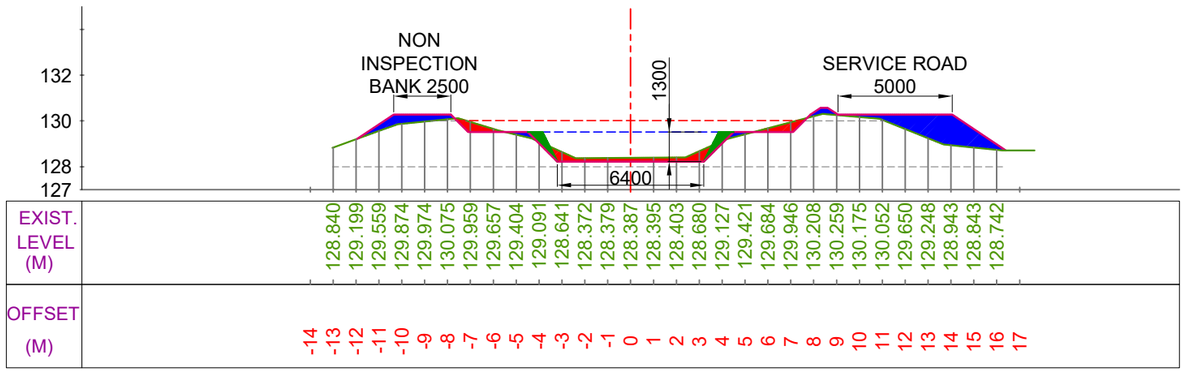
CUTTING AREA (SQ.M) = 2.449 CH. (KM):- 6+500

FILLING AREA (SQ.M) = 5.803 DESIGNED BED LEVEL = 128.238 M



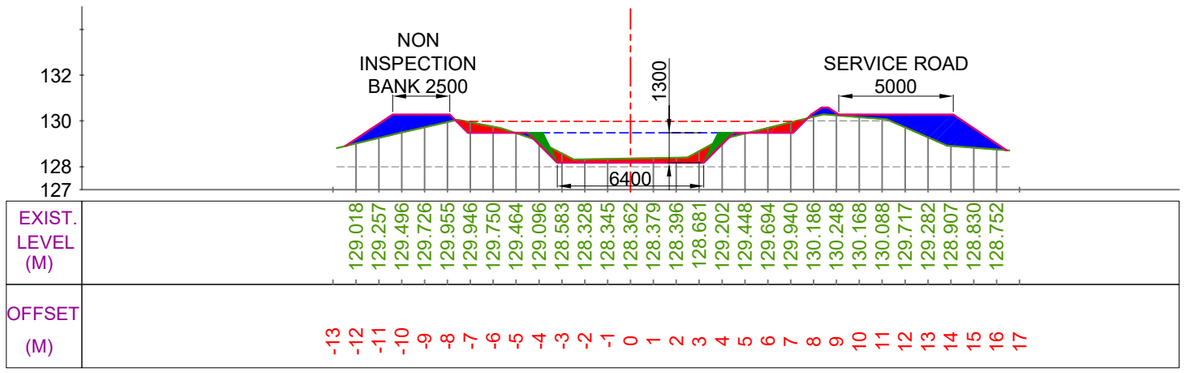
CUTTING AREA (SQ.M) = 2.776 CH. (KM):- 6+700

FILLING AREA (SQ.M) = 6.928 DESIGNED BED LEVEL = 128.200 M



CUTTING AREA (SQ.M) = 2.602 CH. (KM):- 6+600

FILLING AREA (SQ.M) = 6.049 DESIGNED BED LEVEL = 128.219 M



CUTTING AREA (SQ.M) = 2.981 CH. (KM):- 6+800

FILLING AREA (SQ.M) = 7.142 DESIGNED BED LEVEL = 128.180 M

LEGEND

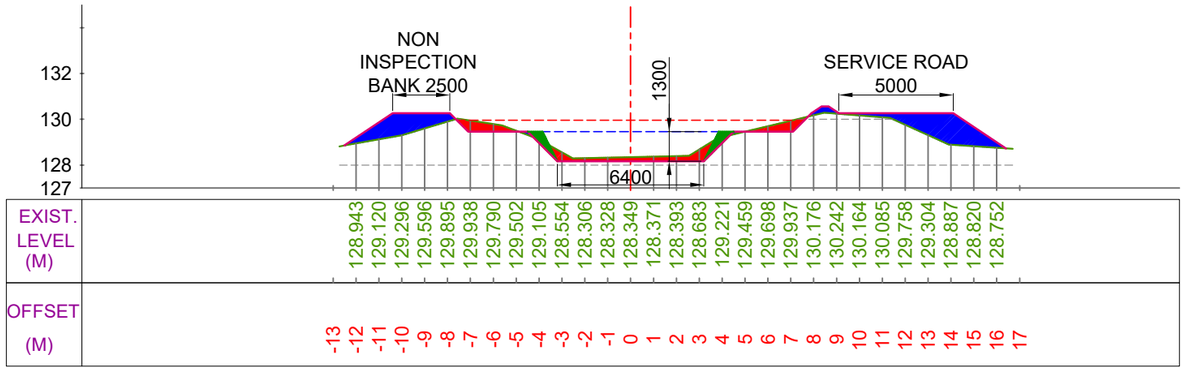
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

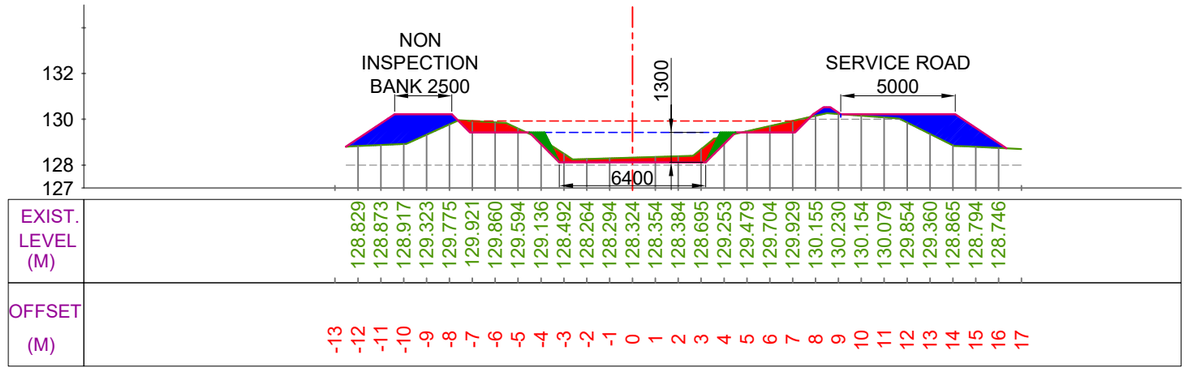
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 17 of 47

X SECTION OF KAPASIYA DY.



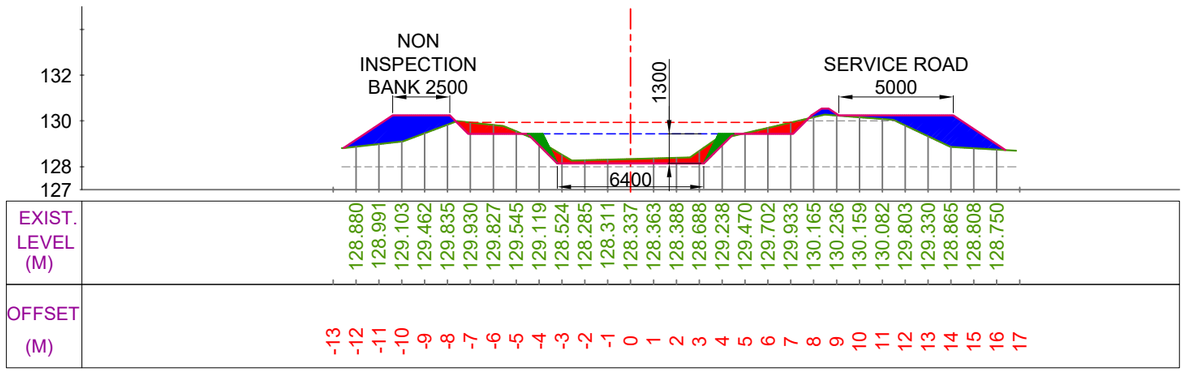
CUTTING AREA (SQ.M) = 3.192 CH. (KM):- 6+900

FILLING AREA (SQ.M) = 7.377 DESIGNED BED LEVEL = 128.161 M



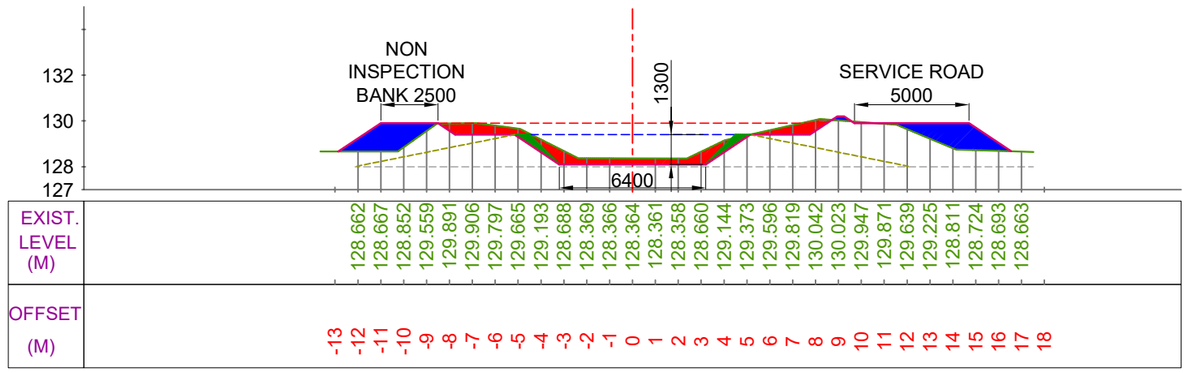
CUTTING AREA (SQ.M) = 3.670 CH. (KM):- 7+100

FILLING AREA (SQ.M) = 7.839 DESIGNED BED LEVEL = 128.123 M



CUTTING AREA (SQ.M) = 3.423 CH. (KM):- 7+000

FILLING AREA (SQ.M) = 7.610 DESIGNED BED LEVEL = 128.142 M



CUTTING AREA (SQ.M) = 5.408 CH. (KM):- 7+200

FILLING AREA (SQ.M) = 6.609 DESIGNED BED LEVEL = 128.103 M

LEGEND

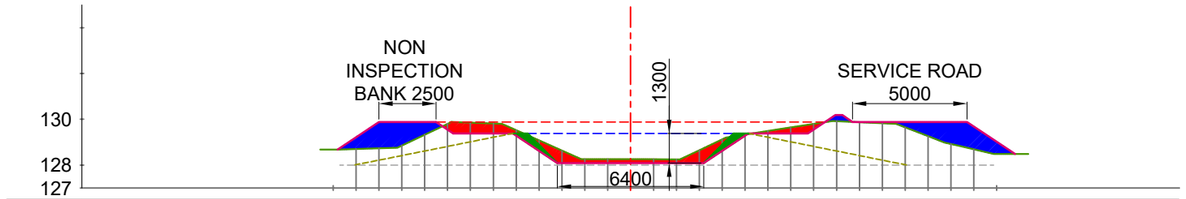
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 18 of 47

X SECTION OF KAPASIYA DY.



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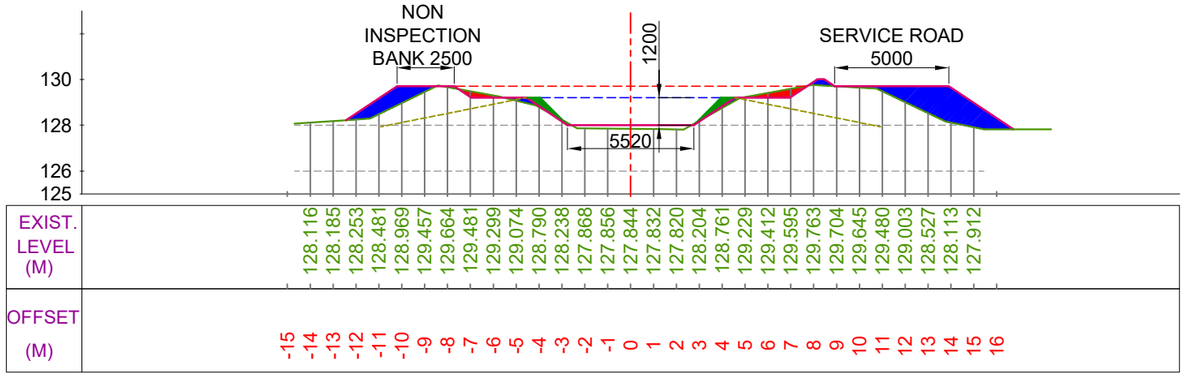
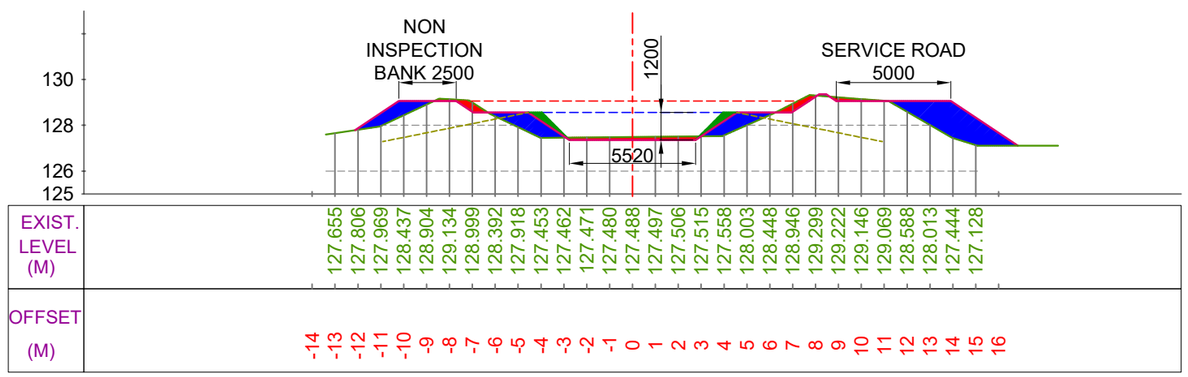
X SECTION OF KAPASIYA DY.



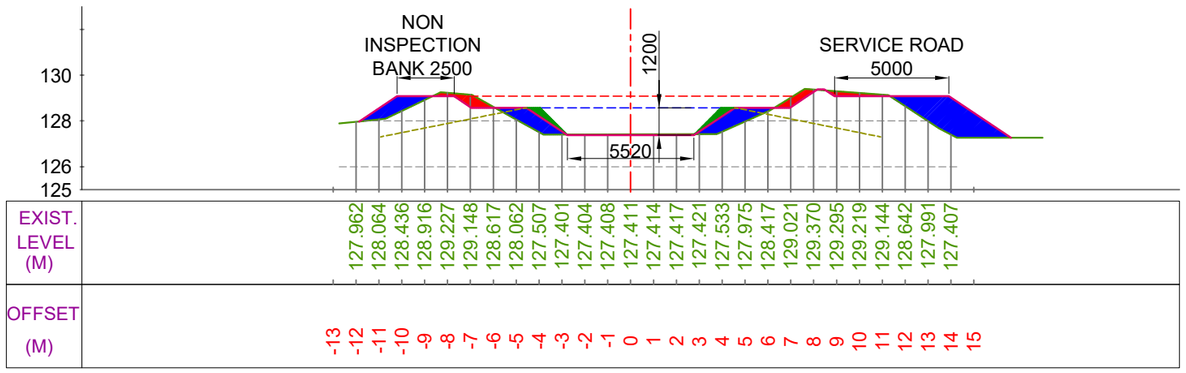
CUTTING AREA (SQ.M) = 0.844 CH. (KM):- 7+700

FILLING AREA (SQ.M) = 7.672 DESIGNED BED LEVEL = 128.007 M



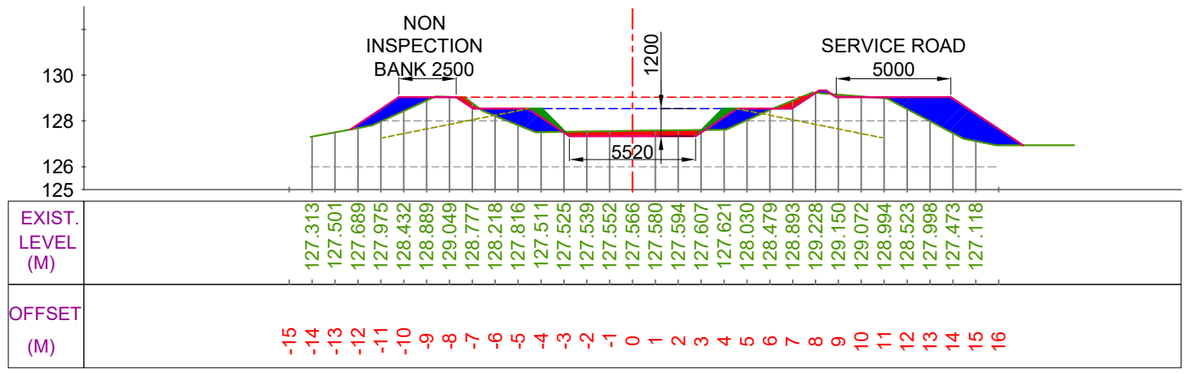
CUTTING AREA (SQ.M) = 1.777 CH. (KM):- 7+900

FILLING AREA (SQ.M) = 9.152 DESIGNED BED LEVEL = 127.358 M



CUTTING AREA (SQ.M) = 1.726 CH. (KM):- 7+800

FILLING AREA (SQ.M) = 8.860 DESIGNED BED LEVEL = 127.378 M



LEGEND

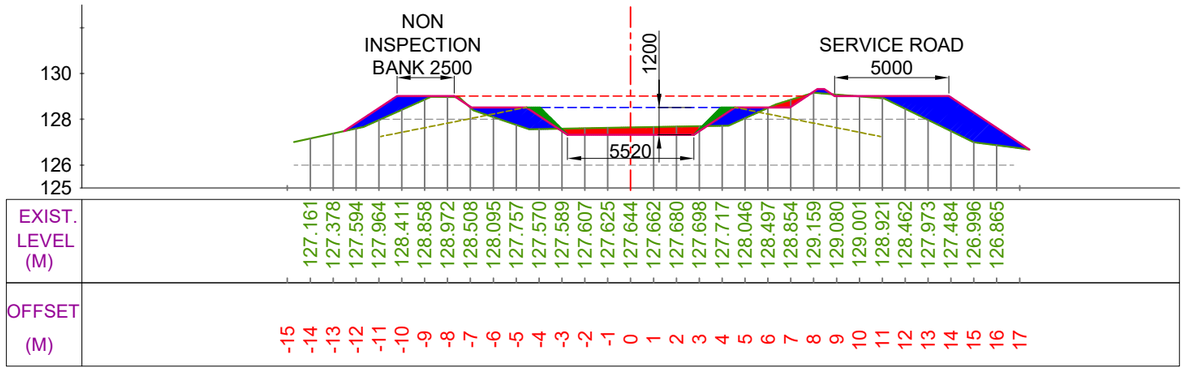
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

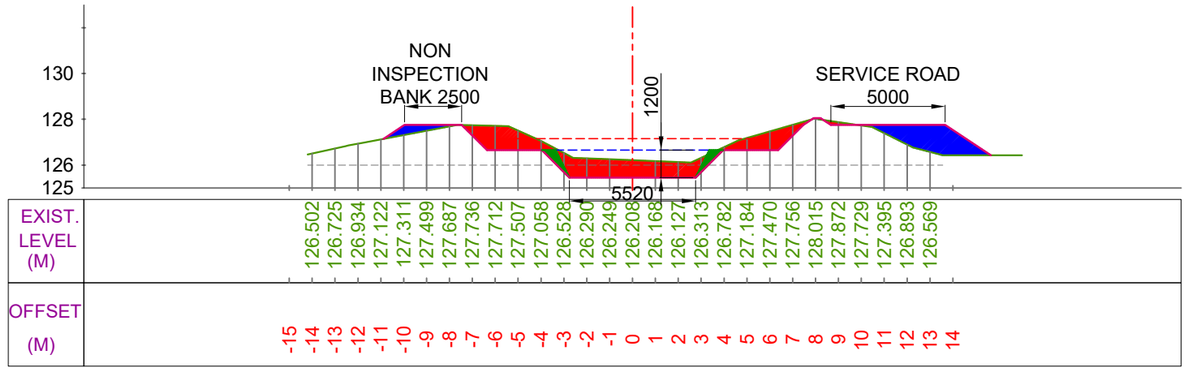
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 20 of 47

X SECTION OF KAPASIYA DY.



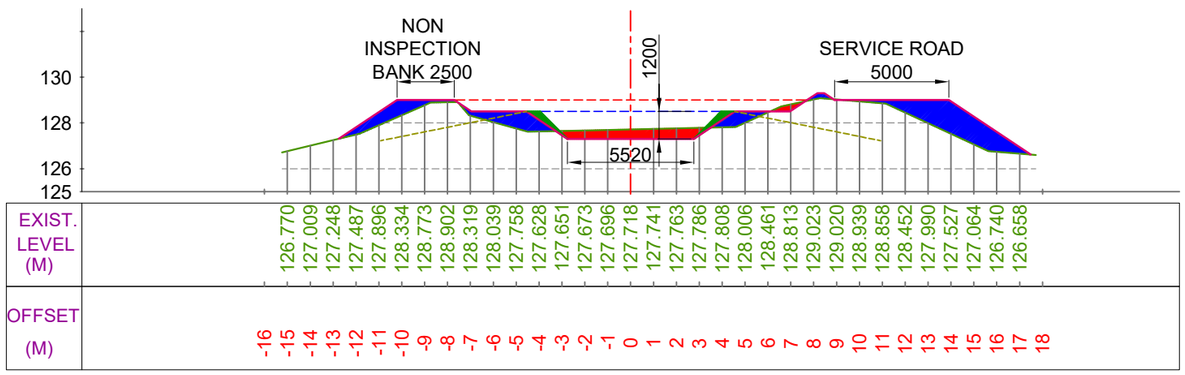
CUTTING AREA (SQ.M) = 2.258 CH. (KM):- 8+100

FILLING AREA (SQ.M) = 9.924 DESIGNED BED LEVEL = 127.319 M



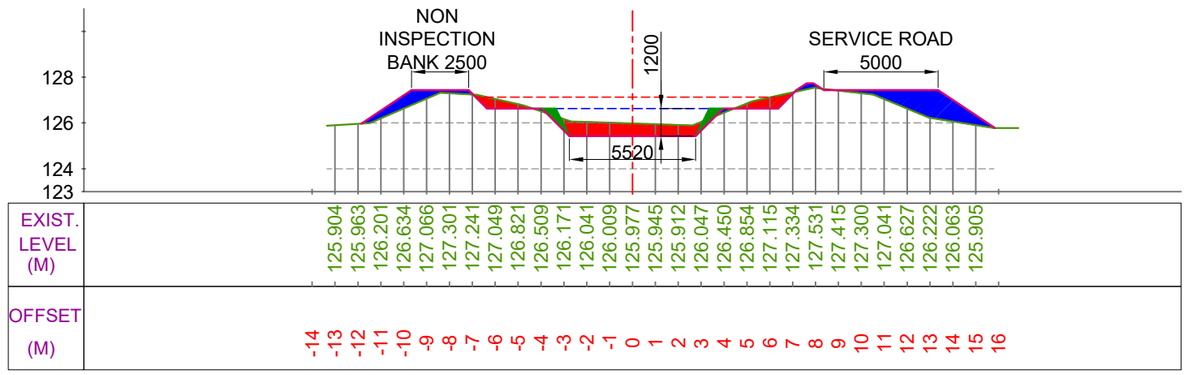
CUTTING AREA (SQ.M) = 9.554 CH. (KM):- 8+300

FILLING AREA (SQ.M) = 4.715 DESIGNED BED LEVEL = 125.450 M



CUTTING AREA (SQ.M) = 2.760 CH. (KM):- 8+200

FILLING AREA (SQ.M) = 10.320 DESIGNED BED LEVEL = 127.299 M



CUTTING AREA (SQ.M) = 4.778 CH. (KM):- 8+400

FILLING AREA (SQ.M) = 5.723 DESIGNED BED LEVEL = 125.430 M

LEGEND

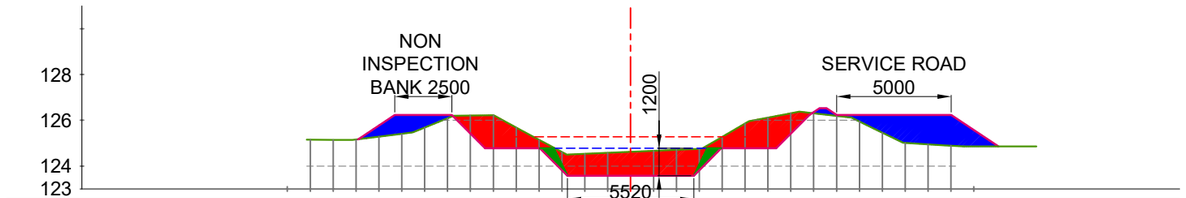
CUT AREA	EXISTING BED LINE		
	F.S.L.		
FILL AREA	DESIGNED BED LINE		
	H.G. LINE		

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 21 of 47

X SECTION OF KAPASIYA DY.



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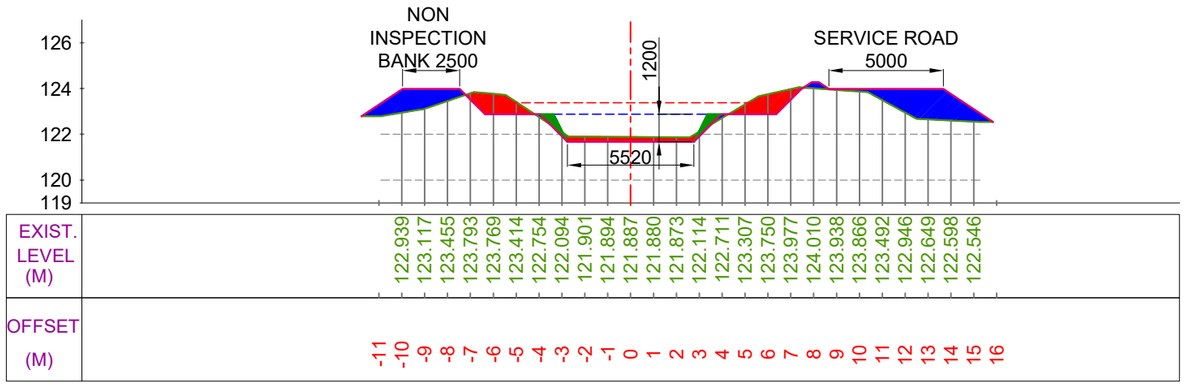
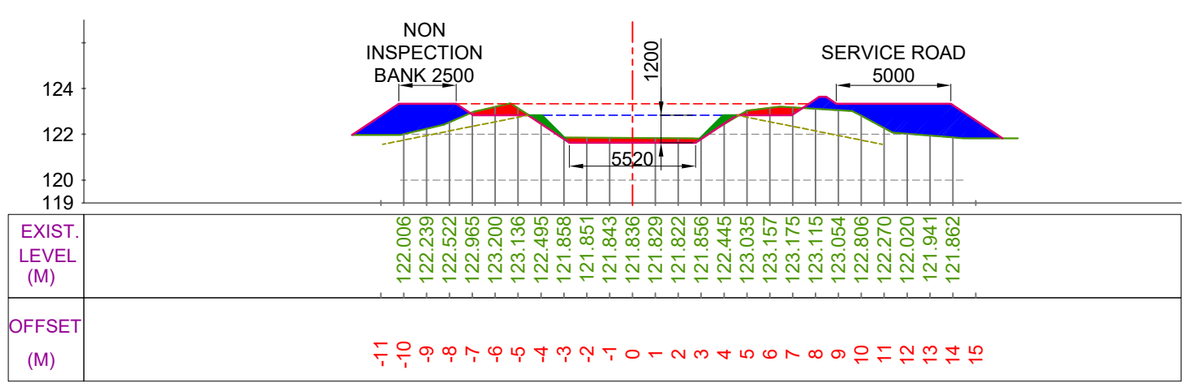
X SECTION OF KAPASIYA DY.



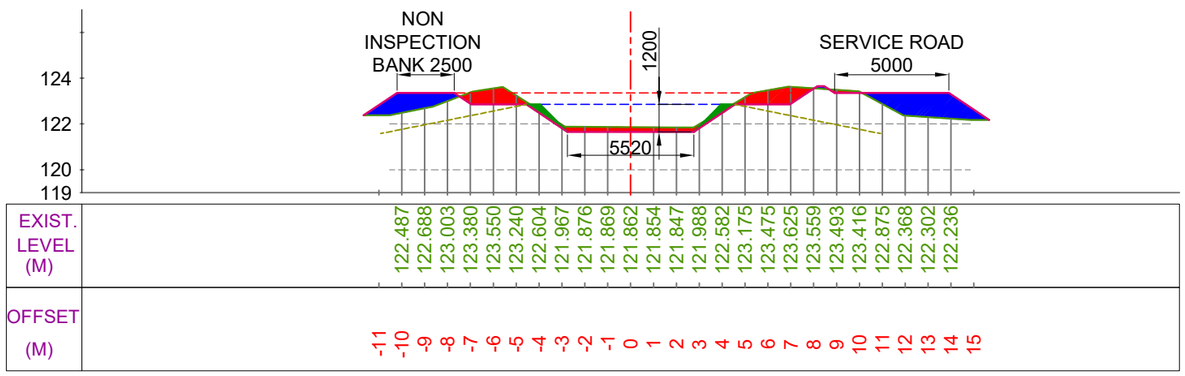
CUTTING AREA (SQ.M) = 4.808 CH. (KM):- 8+900

FILLING AREA (SQ.M) = 7.934 DESIGNED BED LEVEL = 121.672 M



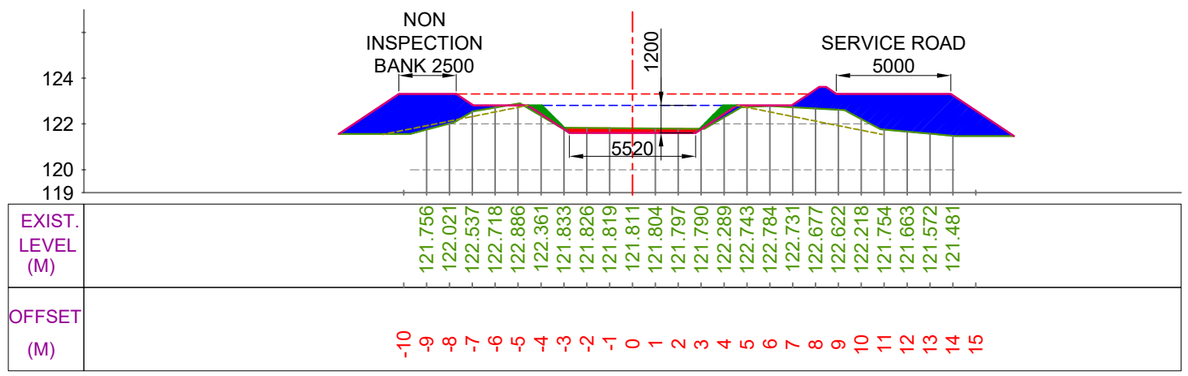
CUTTING AREA (SQ.M) = 2.648 CH. (KM):- 9+100

FILLING AREA (SQ.M) = 11.564 DESIGNED BED LEVEL = 121.633 M



CUTTING AREA (SQ.M) = 4.579 CH. (KM):- 9+000

FILLING AREA (SQ.M) = 6.302 DESIGNED BED LEVEL = 121.652 M



CUTTING AREA (SQ.M) = 1.164 CH. (KM):- 9+200

FILLING AREA (SQ.M) = 18.303 DESIGNED BED LEVEL = 121.613 M

LEGEND

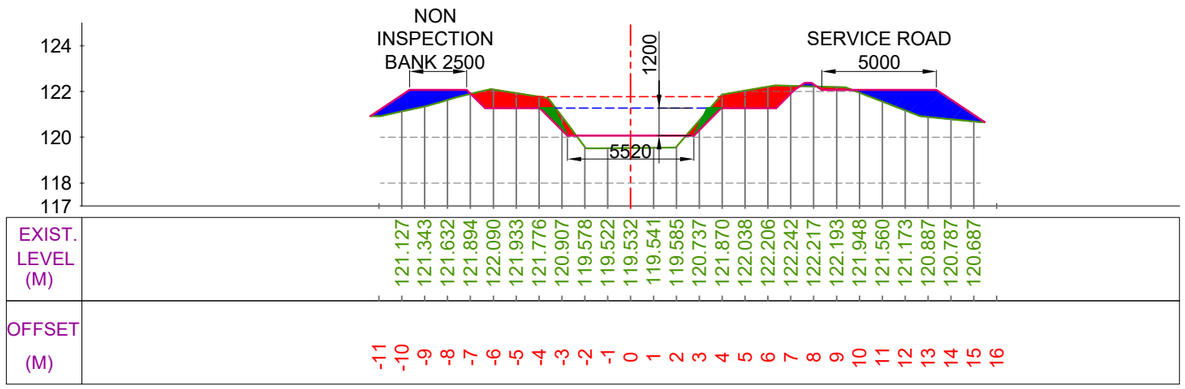
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

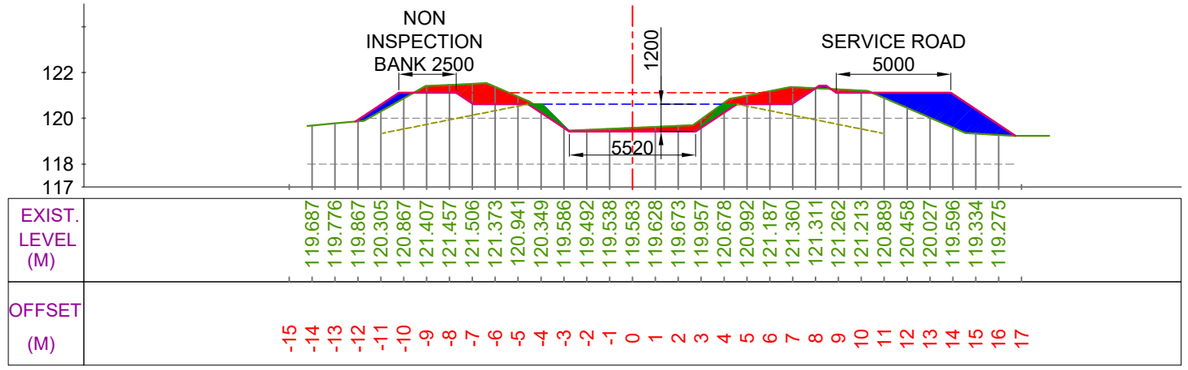
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 23 of 47

X SECTION OF KAPASIYA DY.



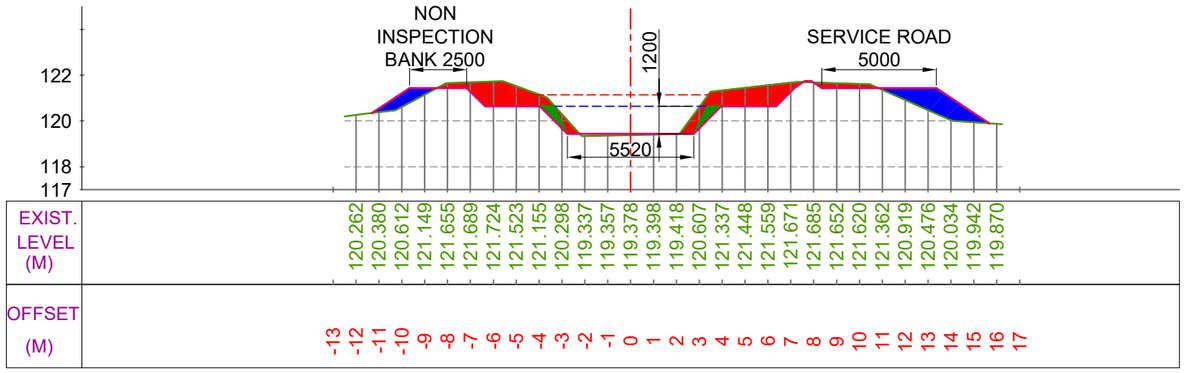
CUTTING AREA (SQ.M) = 5.259 CH. (KM):- 9+300

FILLING AREA (SQ.M) = 6.135 DESIGNED BED LEVEL = 120.070 M



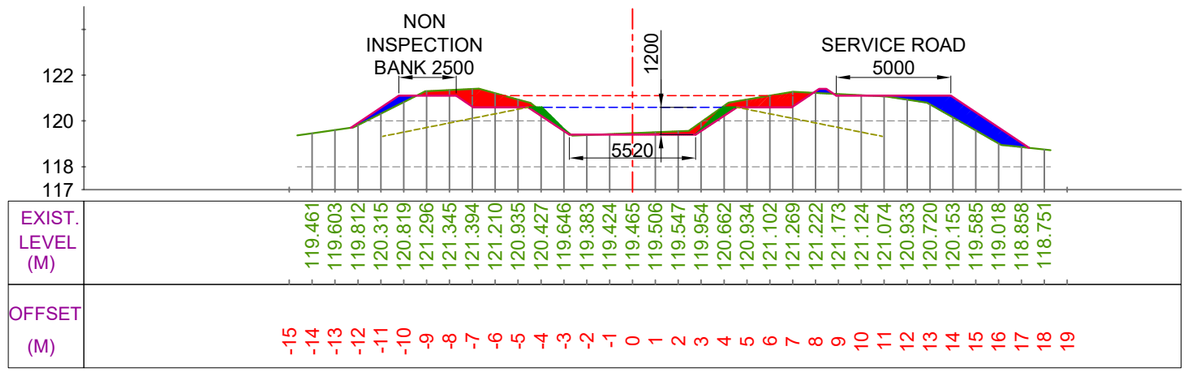
CUTTING AREA (SQ.M) = 5.524 CH. (KM):- 9+500

FILLING AREA (SQ.M) = 5.591 DESIGNED BED LEVEL = 119.420 M



CUTTING AREA (SQ.M) = 7.503 CH. (KM):- 9+400

FILLING AREA (SQ.M) = 4.005 DESIGNED BED LEVEL = 119.440 M



CUTTING AREA (SQ.M) = 4.332 CH. (KM):- 9+600

FILLING AREA (SQ.M) = 3.796 DESIGNED BED LEVEL = 119.401 M

LEGEND

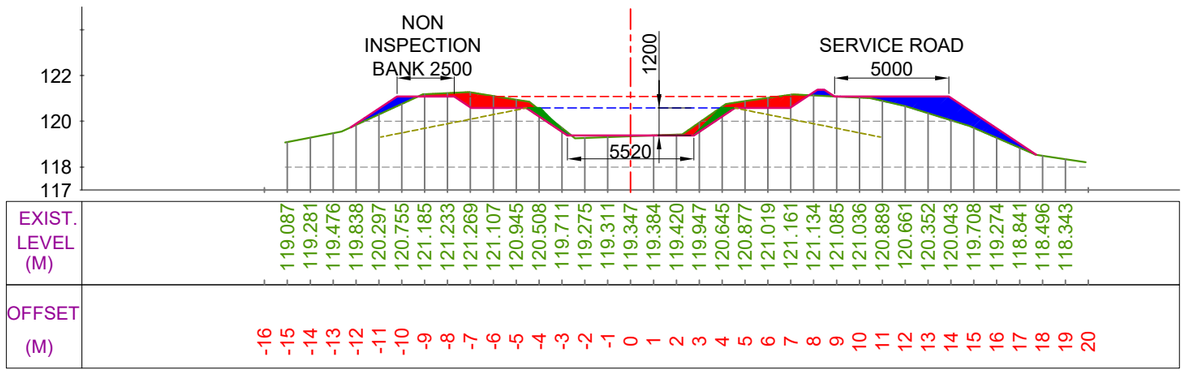
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

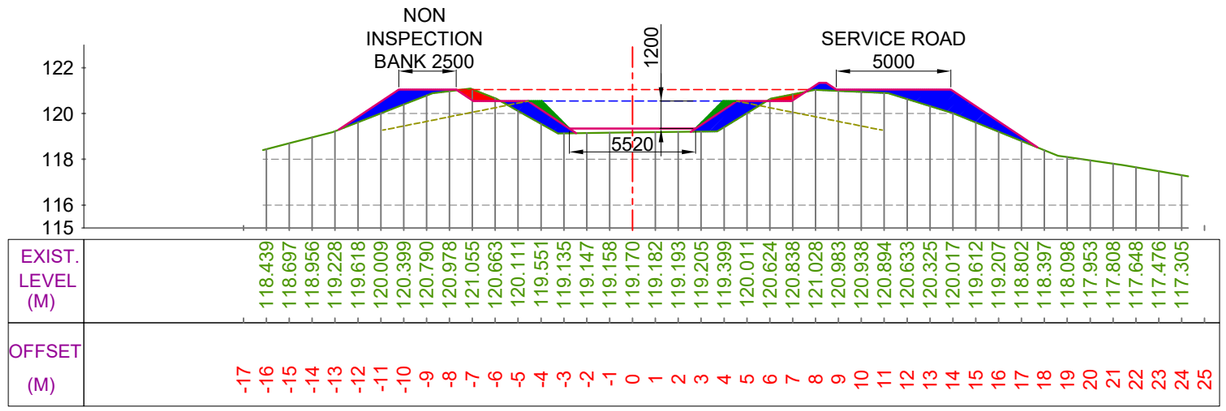
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 24 of 47

X SECTION OF KAPASIYA DY.



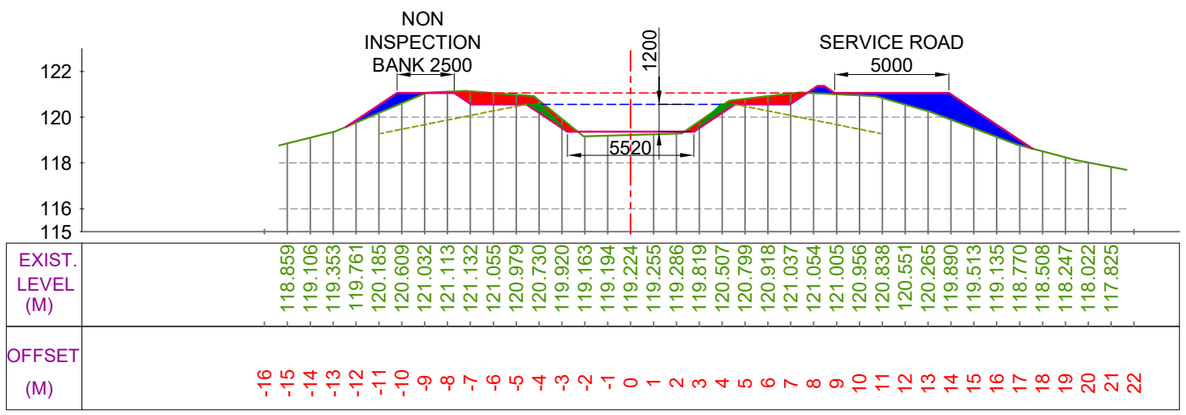
CUTTING AREA (SQ.M) = 3.499 CH. (KM):- 9+700

FILLING AREA (SQ.M) = 4.440 DESIGNED BED LEVEL = 119.381 M



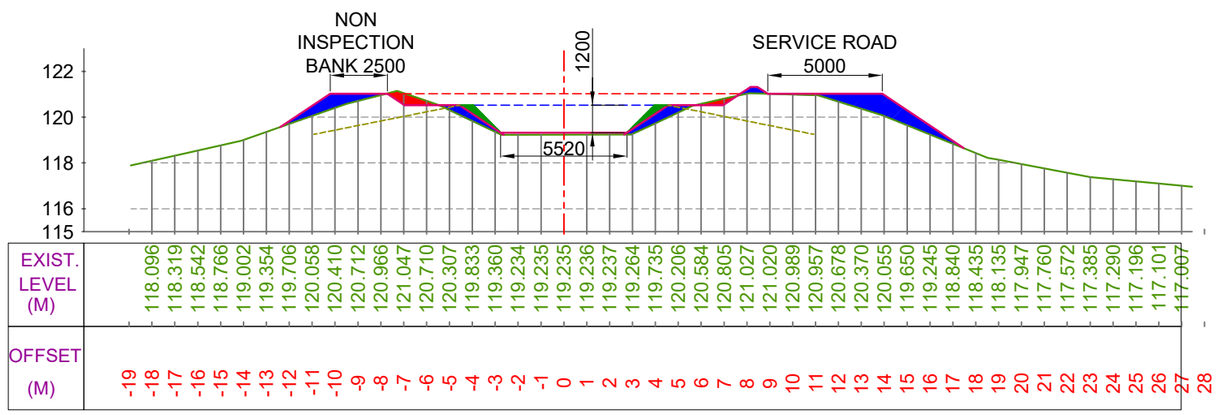
CUTTING AREA (SQ.M) = 0.784 CH. (KM):- 9+900

FILLING AREA (SQ.M) = 8.685 DESIGNED BED LEVEL = 119.342 M



CUTTING AREA (SQ.M) = 3.233 CH. (KM):- 9+800

FILLING AREA (SQ.M) = 5.533 DESIGNED BED LEVEL = 119.362 M



CUTTING AREA (SQ.M) = 0.882 CH. (KM):- 10+000

FILLING AREA (SQ.M) = 6.438 DESIGNED BED LEVEL = 119.322 M

LEGEND

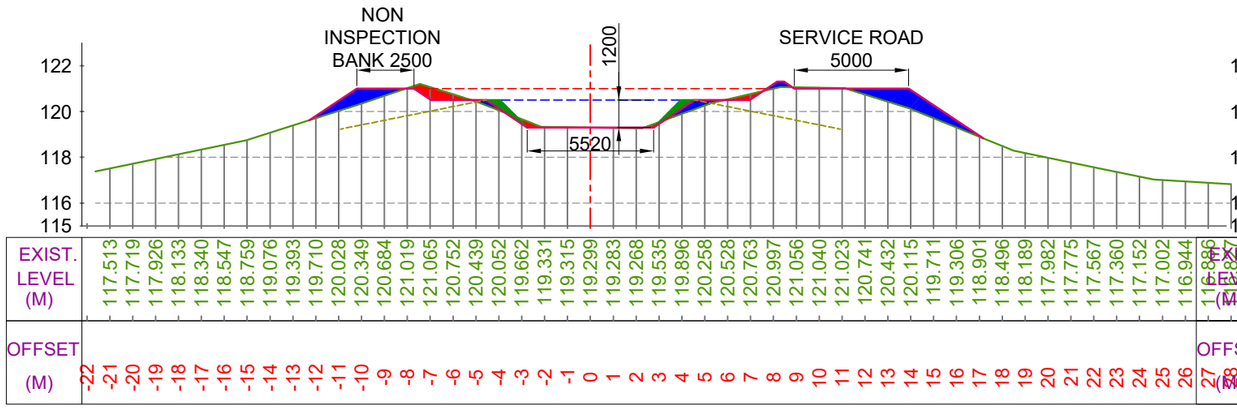
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

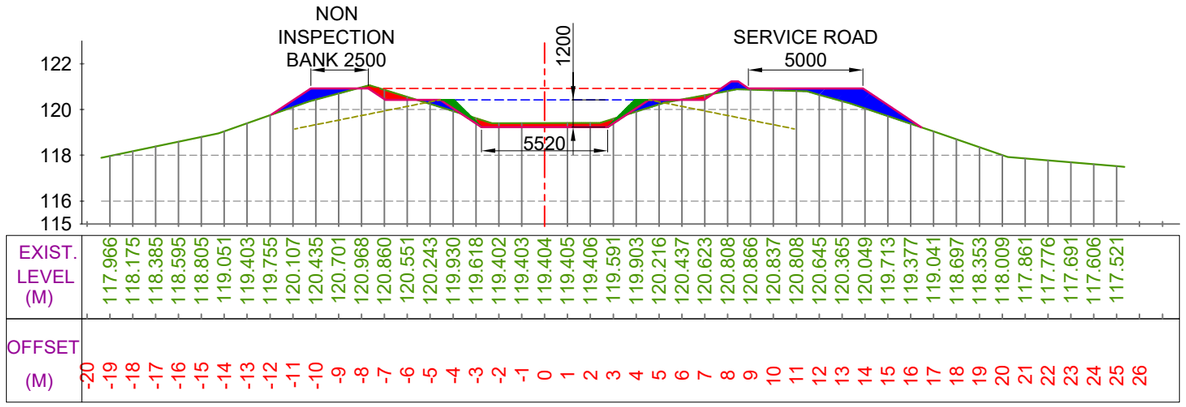
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 25 of 47

X SECTION OF KAPASIYA DY.



| | | |

X SECTION OF KAPASIYA DY.



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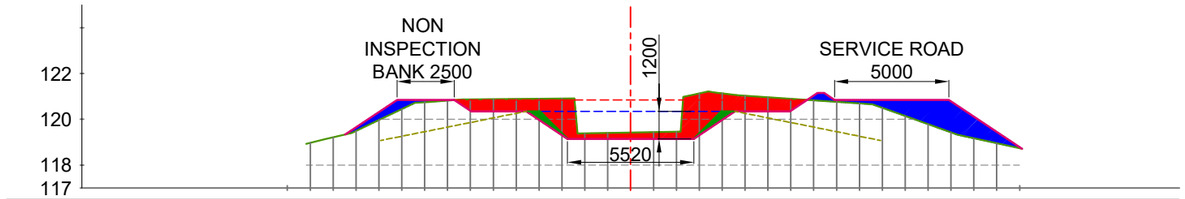
X SECTION OF KAPASIYA DY.



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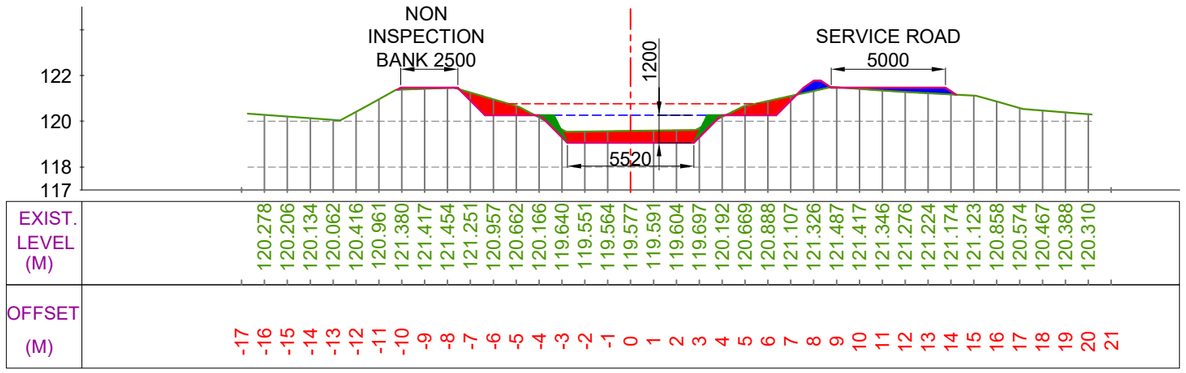
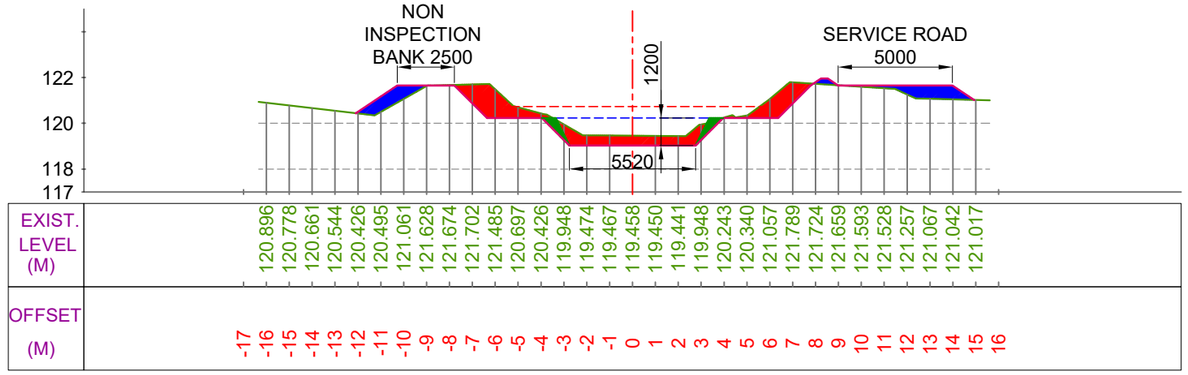
X SECTION OF KAPASIYA DY.



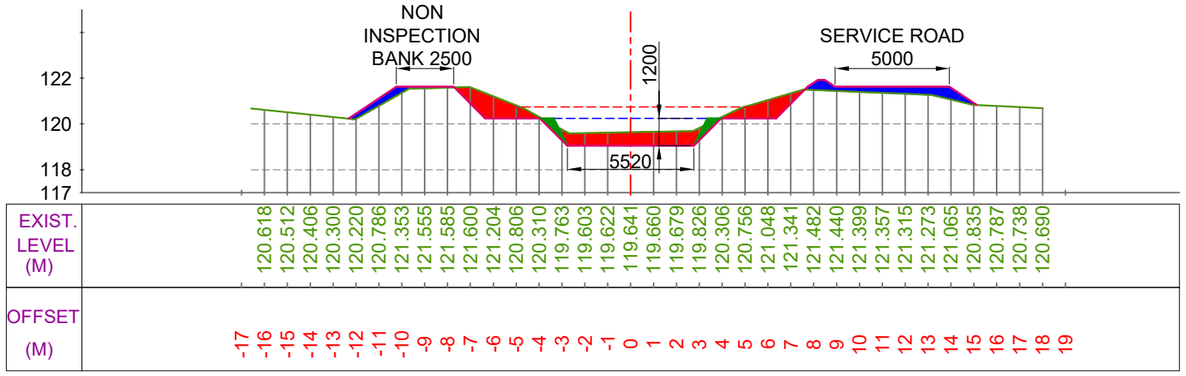
CUTTING AREA (SQ.M) = 5.649 CH. (KM):- 11+300

FILLING AREA (SQ.M) = 1.309 DESIGNED BED LEVEL = 119.067 M



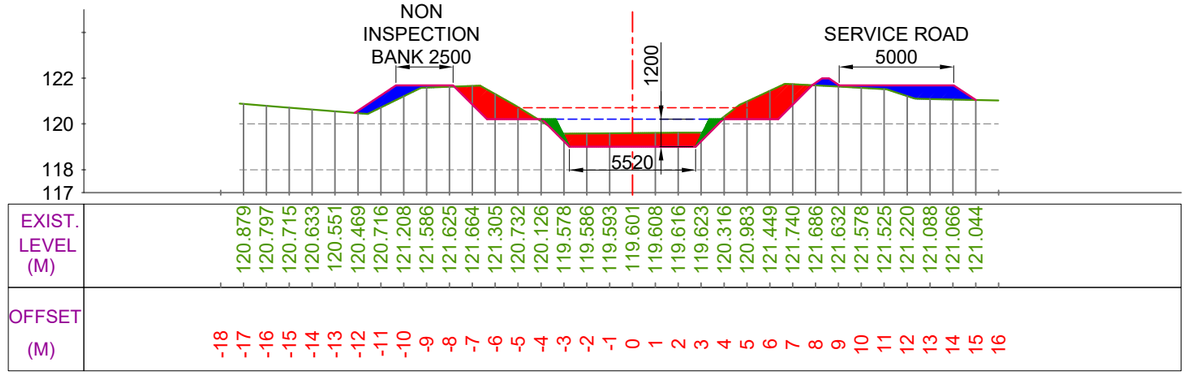
CUTTING AREA (SQ.M) = 7.758 CH. (KM):- 11+500

FILLING AREA (SQ.M) = 3.371 DESIGNED BED LEVEL = 119.028 M



CUTTING AREA (SQ.M) = 7.668 CH. (KM):- 11+400

FILLING AREA (SQ.M) = 3.081 DESIGNED BED LEVEL = 119.048 M



CUTTING AREA (SQ.M) = 9.040 CH. (KM):- 11+600

FILLING AREA (SQ.M) = 3.603 DESIGNED BED LEVEL = 119.009 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

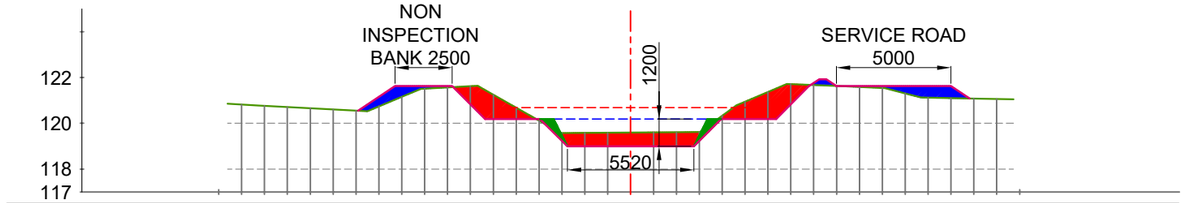
H.G. LINE

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 29 of 47

X SECTION OF KAPASIYA DY.



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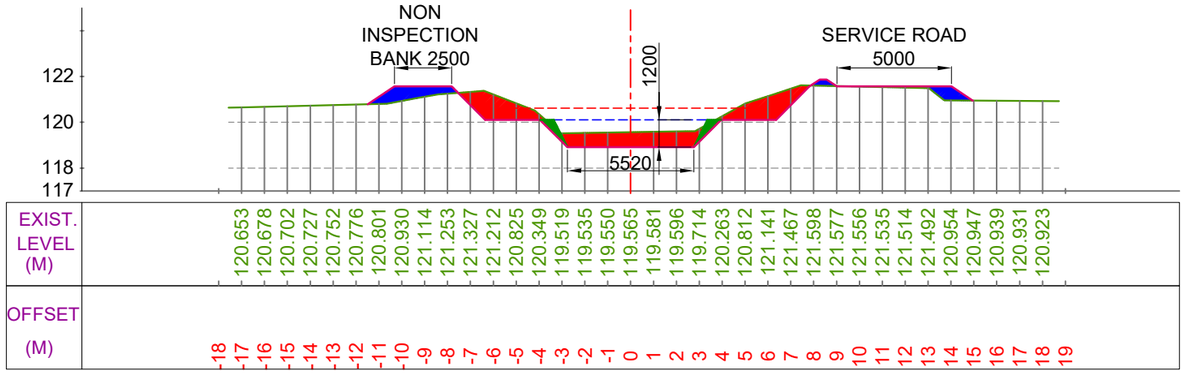
X SECTION OF KAPASIYA DY.



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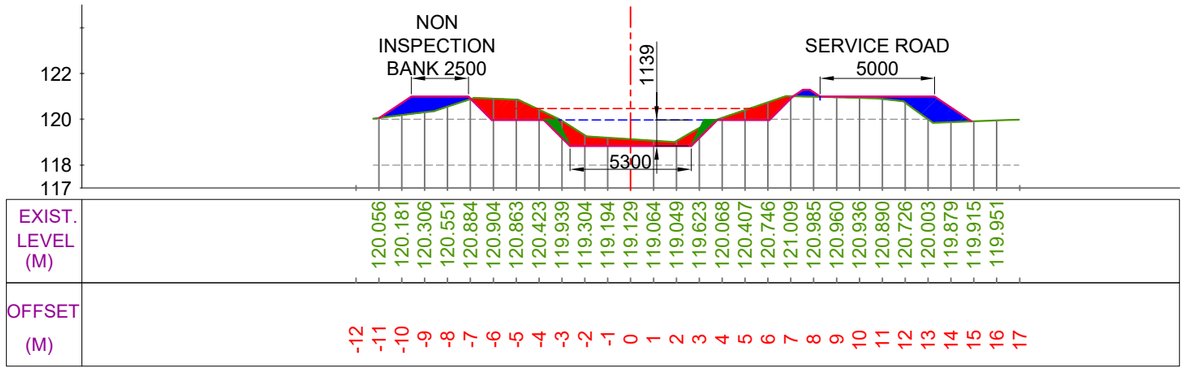
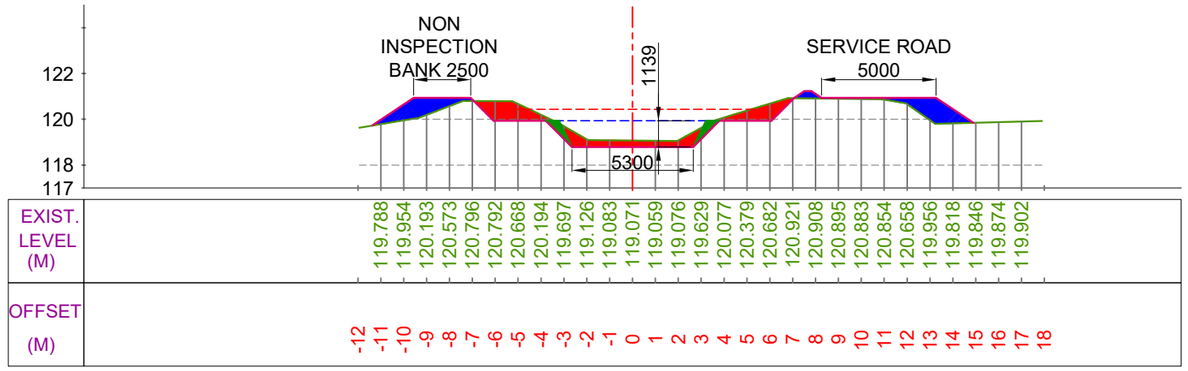
X SECTION OF KAPASIYA DY.



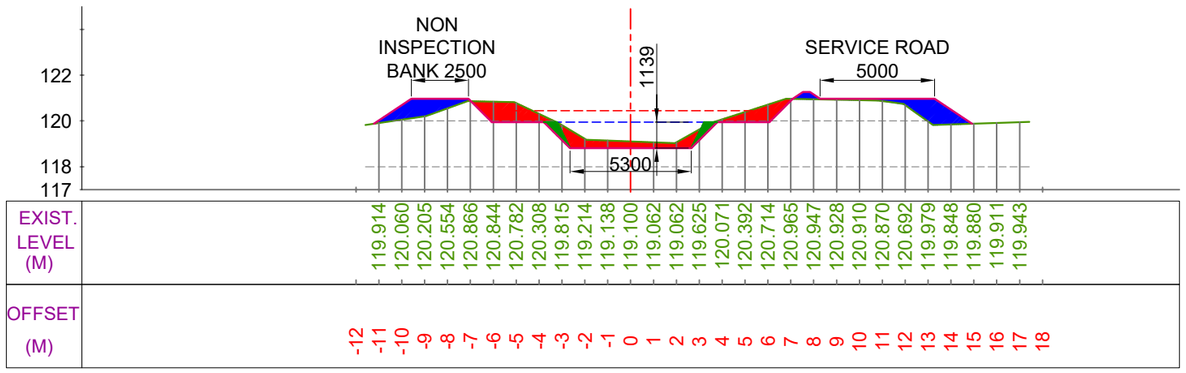
CUTTING AREA (SQ.M) = 6.012 CH. (KM):- 12+500

FILLING AREA (SQ.M) = 4.122 DESIGNED BED LEVEL = 118.832 M



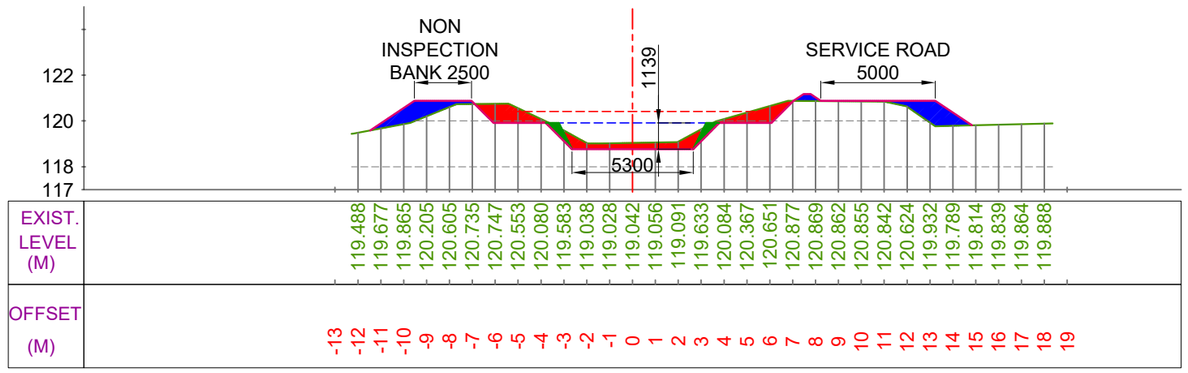
CUTTING AREA (SQ.M) = 5.300 CH. (KM):- 12+700

FILLING AREA (SQ.M) = 4.387 DESIGNED BED LEVEL = 118.793 M



CUTTING AREA (SQ.M) = 5.635 CH. (KM):- 12+600

FILLING AREA (SQ.M) = 4.426 DESIGNED BED LEVEL = 118.813 M



CUTTING AREA (SQ.M) = 5.000 CH. (KM):- 12+800

FILLING AREA (SQ.M) = 4.071 DESIGNED BED LEVEL = 118.773 M

LEGEND

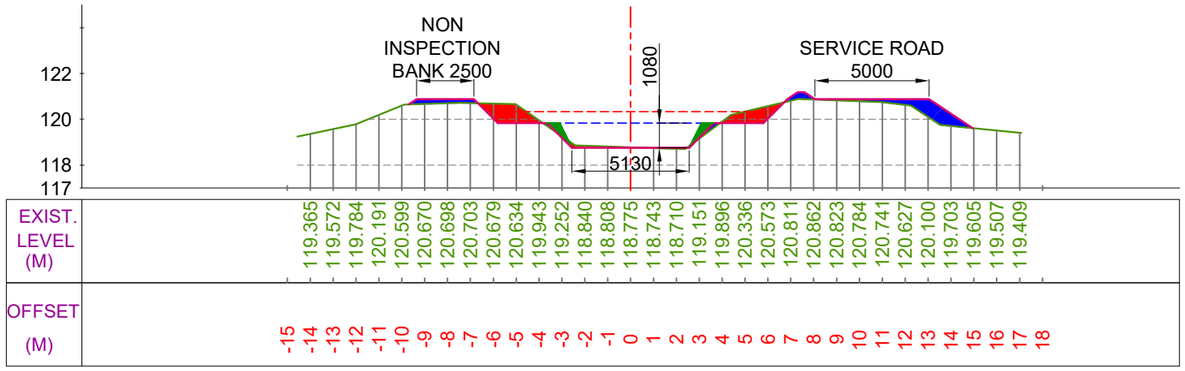
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 32 of 47

X SECTION OF KAPASIYA DY.



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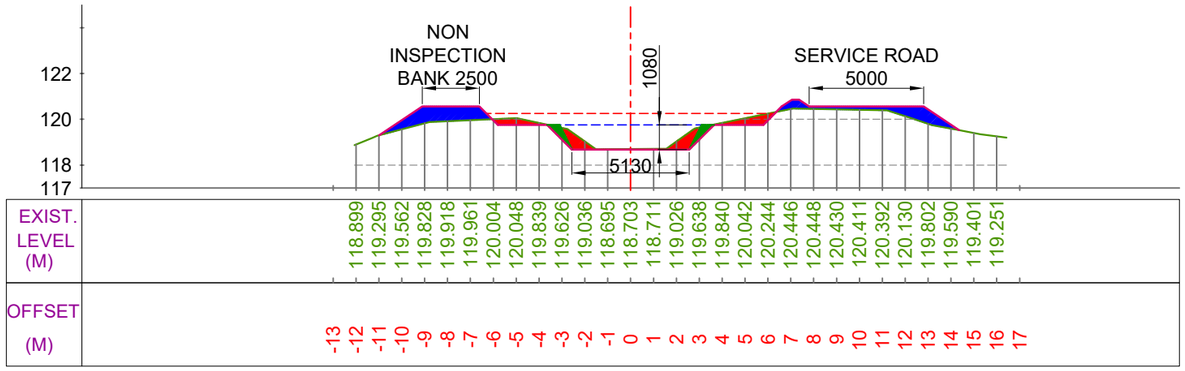
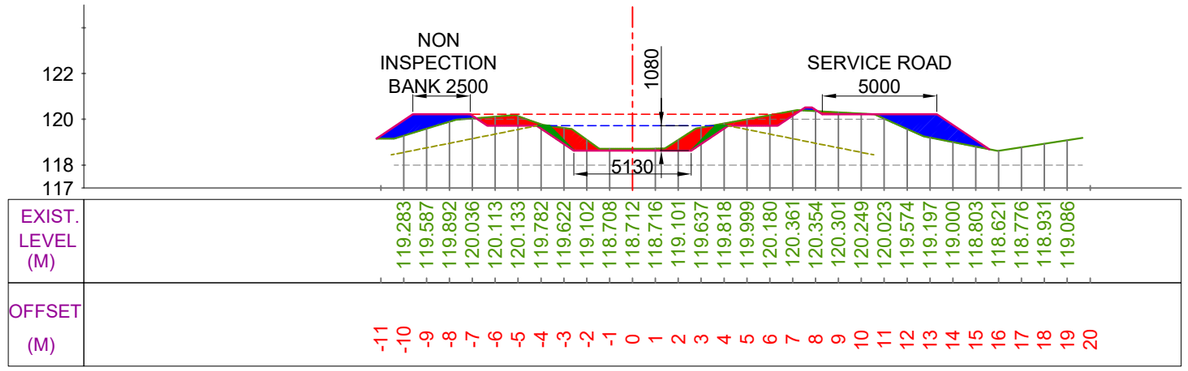
X SECTION OF KAPASIYA DY.



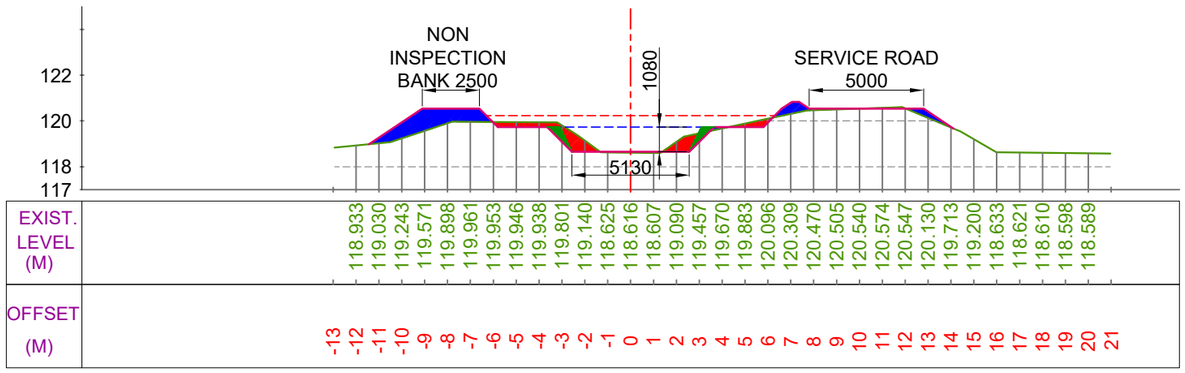
CUTTING AREA (SQ.M) = 2.376 CH. (KM):- 13+300

FILLING AREA (SQ.M) = 4.547 DESIGNED BED LEVEL = 118.675 M



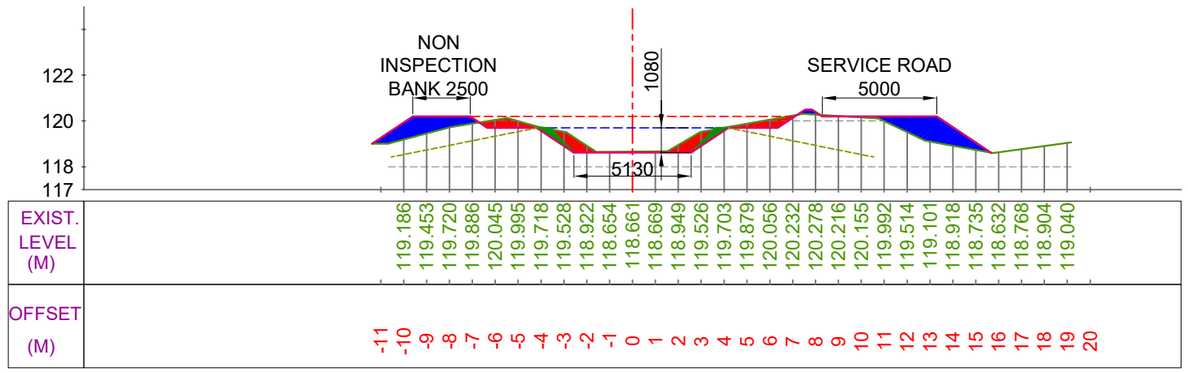
CUTTING AREA (SQ.M) = 4.380 CH. (KM):- 13+500

FILLING AREA (SQ.M) = 4.814 DESIGNED BED LEVEL = 118.636 M



CUTTING AREA (SQ.M) = 2.384 CH. (KM):- 13+400

FILLING AREA (SQ.M) = 4.168 DESIGNED BED LEVEL = 118.656 M



CUTTING AREA (SQ.M) = 3.066 CH. (KM):- 13+600

FILLING AREA (SQ.M) = 5.706 DESIGNED BED LEVEL = 118.616 M

LEGEND

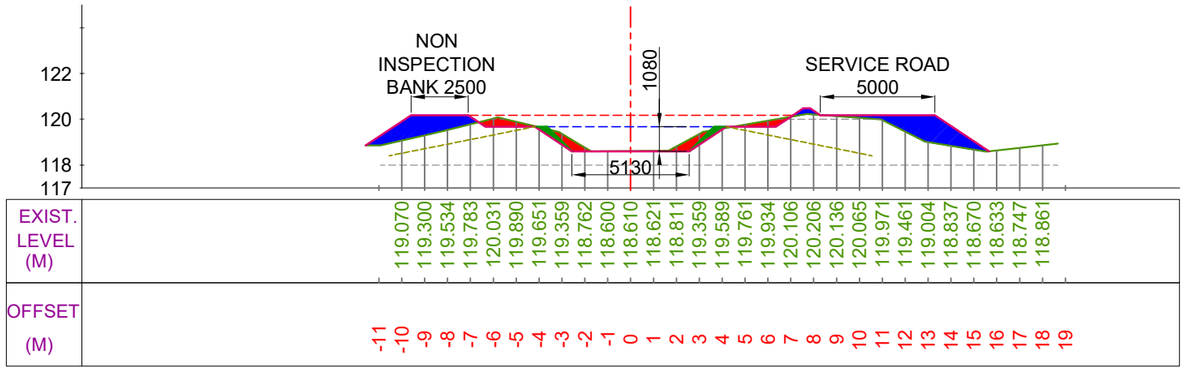
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

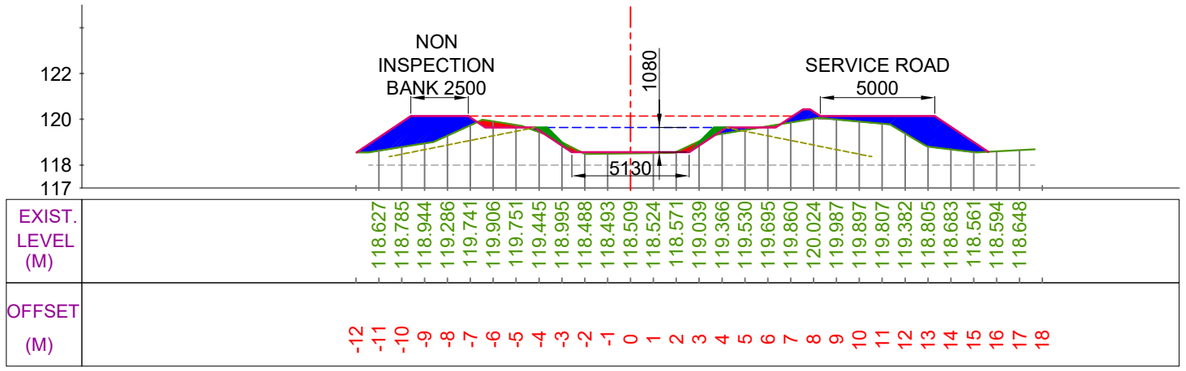
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 34 of 47

X SECTION OF KAPASIYA DY.



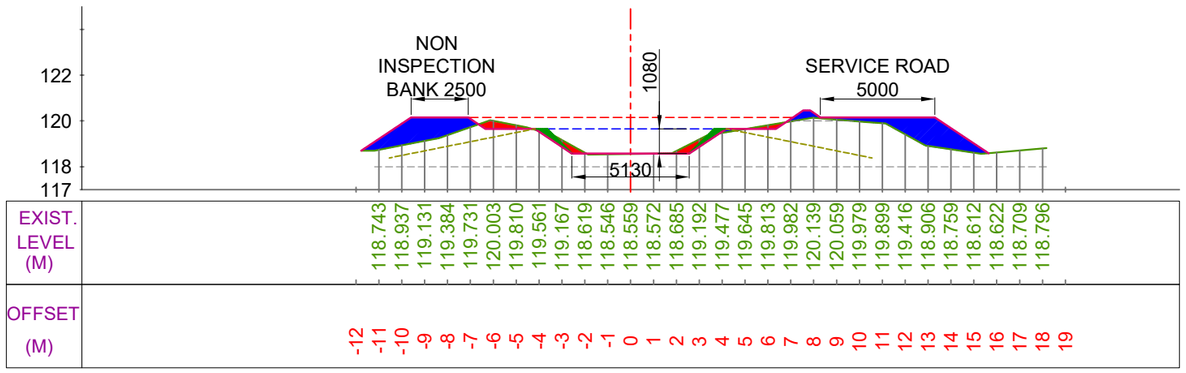
CUTTING AREA (SQ.M) = 2.001 CH. (KM):- 13+700

FILLING AREA (SQ.M) = 6.736 DESIGNED BED LEVEL = 118.597 M



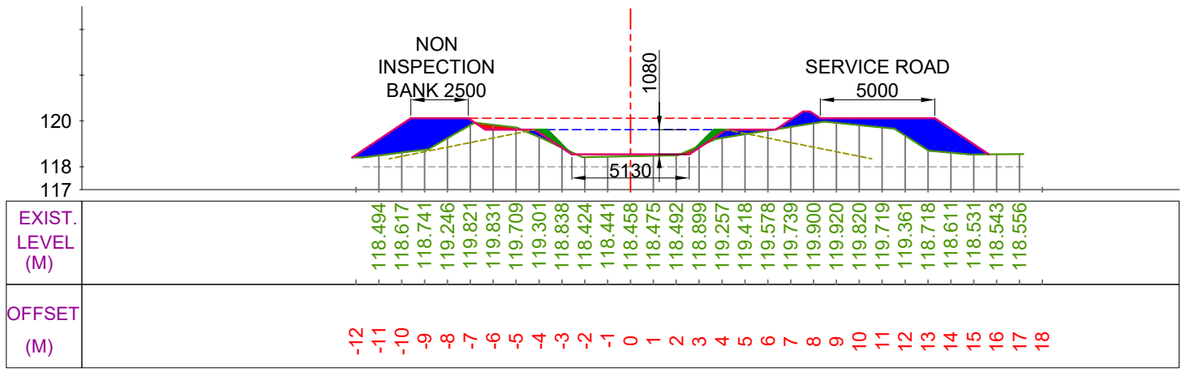
CUTTING AREA (SQ.M) = 0.691 CH. (KM):- 13+900

FILLING AREA (SQ.M) = 9.042 DESIGNED BED LEVEL = 118.558 M



CUTTING AREA (SQ.M) = 1.216 CH. (KM):- 13+800

FILLING AREA (SQ.M) = 7.841 DESIGNED BED LEVEL = 118.577 M



CUTTING AREA (SQ.M) = 0.384 CH. (KM):- 14+000

FILLING AREA (SQ.M) = 10.354 DESIGNED BED LEVEL = 118.538 M

LEGEND

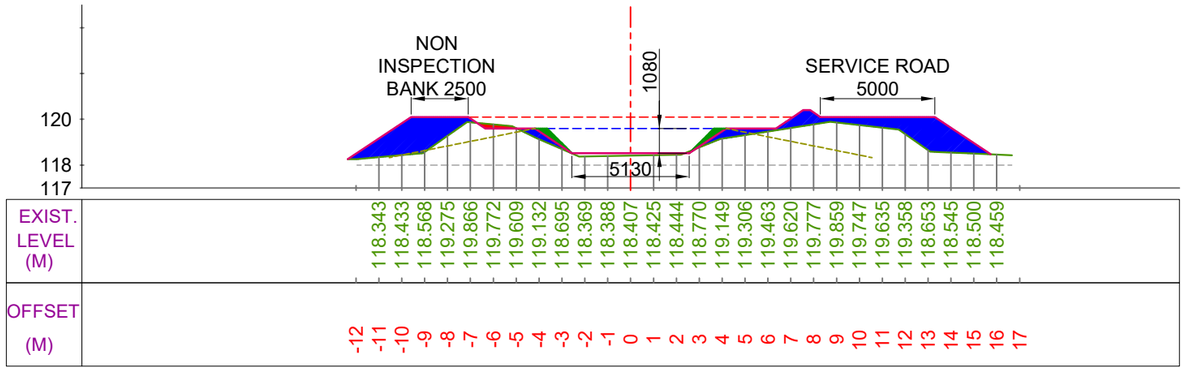
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

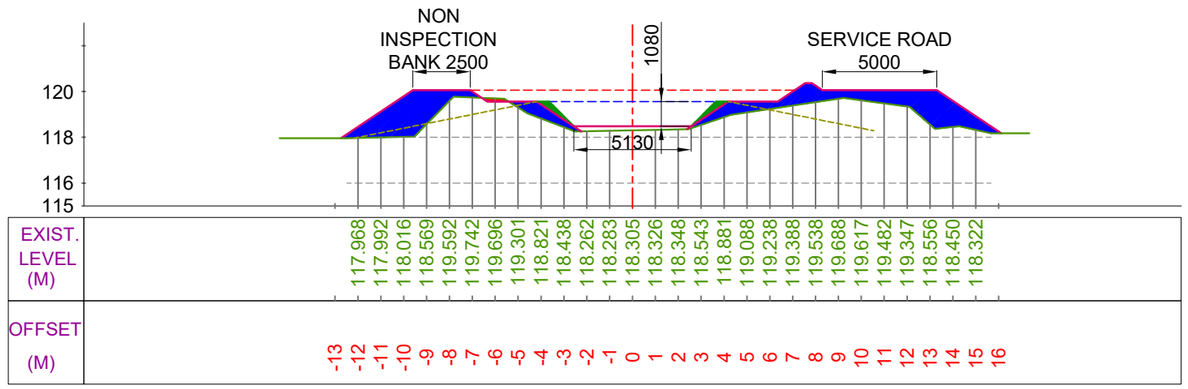
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 35 of 47

X SECTION OF KAPASIYA DY.



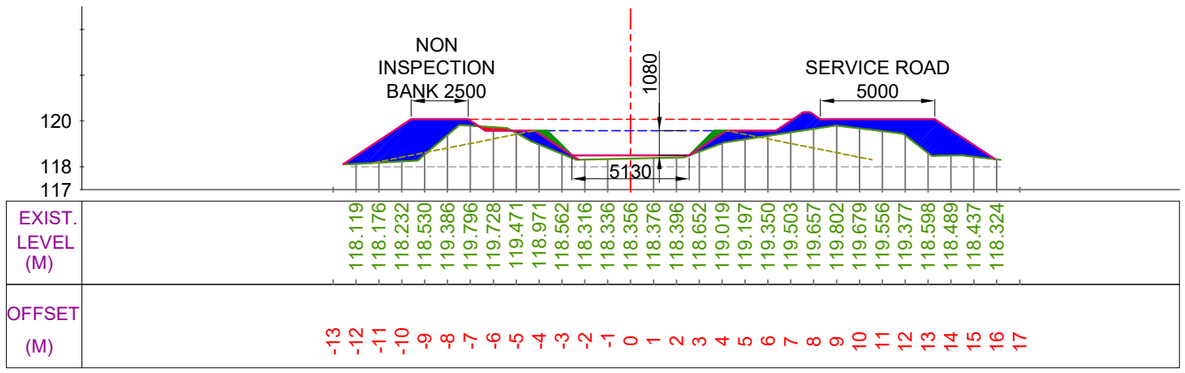
CUTTING AREA (SQ.M) = 0.237 CH. (KM):- 14+100

FILLING AREA (SQ.M) = 11.854 DESIGNED BED LEVEL = 118.518 M



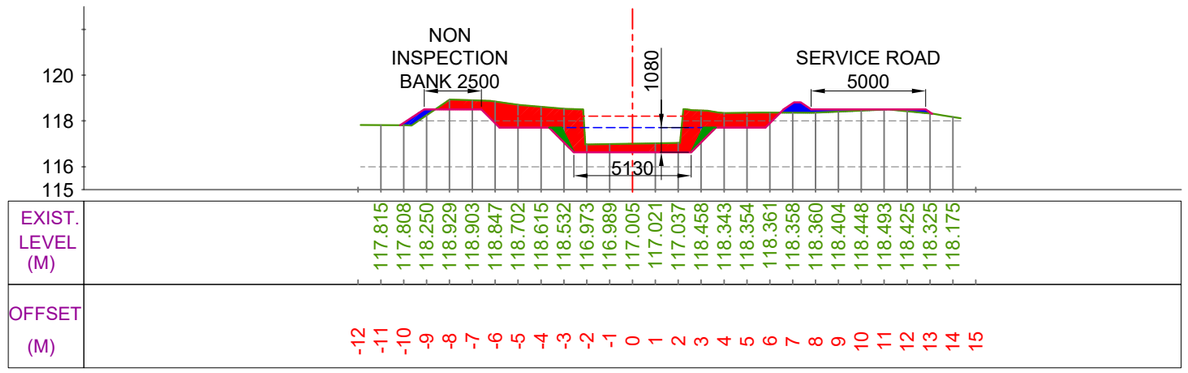
CUTTING AREA (SQ.M) = 0.131 CH. (KM):- 14+300

FILLING AREA (SQ.M) = 15.161 DESIGNED BED LEVEL = 118.479 M



CUTTING AREA (SQ.M) = 0.169 CH. (KM):- 14+200

FILLING AREA (SQ.M) = 13.480 DESIGNED BED LEVEL = 118.499 M



CUTTING AREA (SQ.M) = 10.521 CH. (KM):- 14+400

FILLING AREA (SQ.M) = 1.216 DESIGNED BED LEVEL = 116.630 M

LEGEND

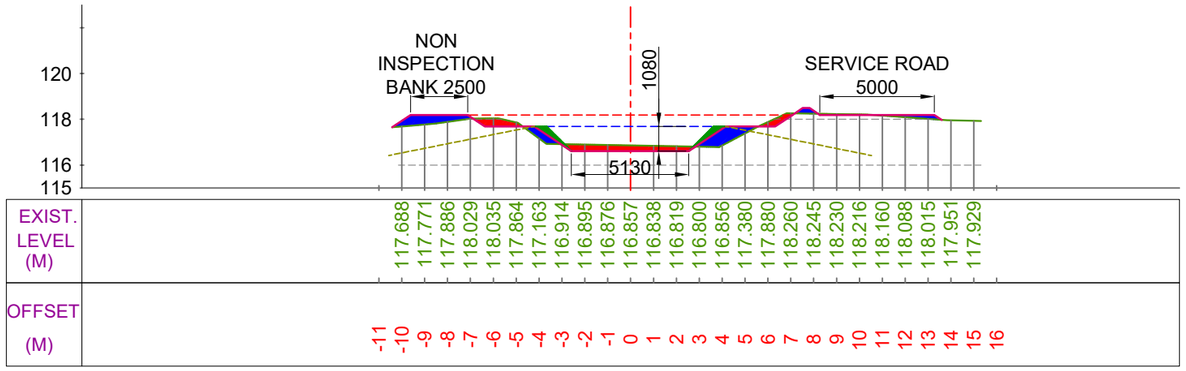
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

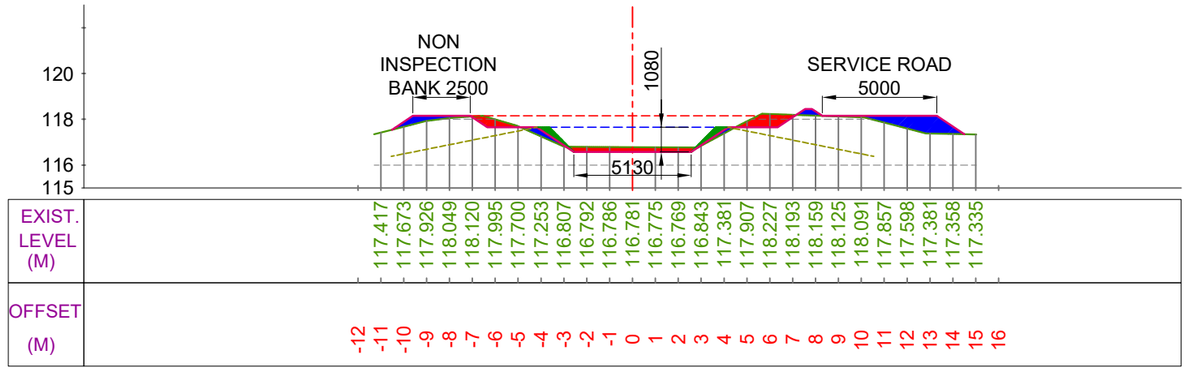
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 36 of 47

X SECTION OF KAPASIYA DY.



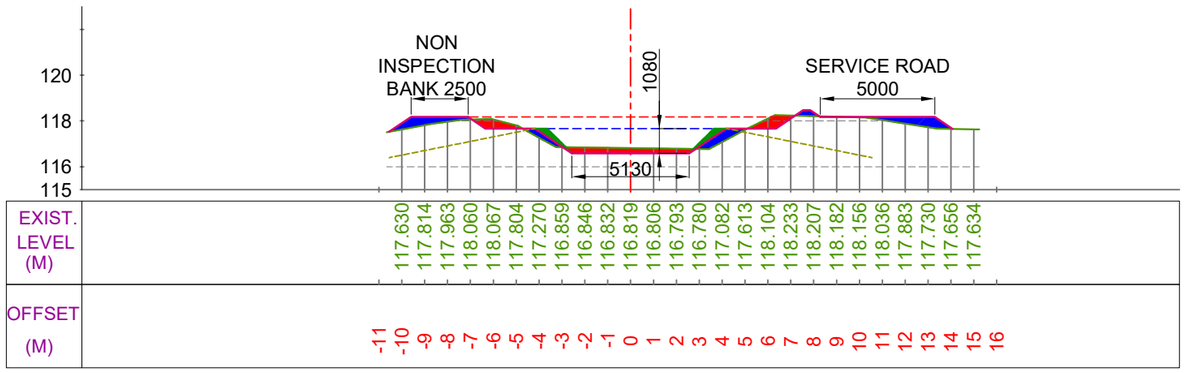
CUTTING AREA (SQ.M) = 2.244 CH. (KM):- 14+500

FILLING AREA (SQ.M) = 3.068 DESIGNED BED LEVEL = 116.610 M



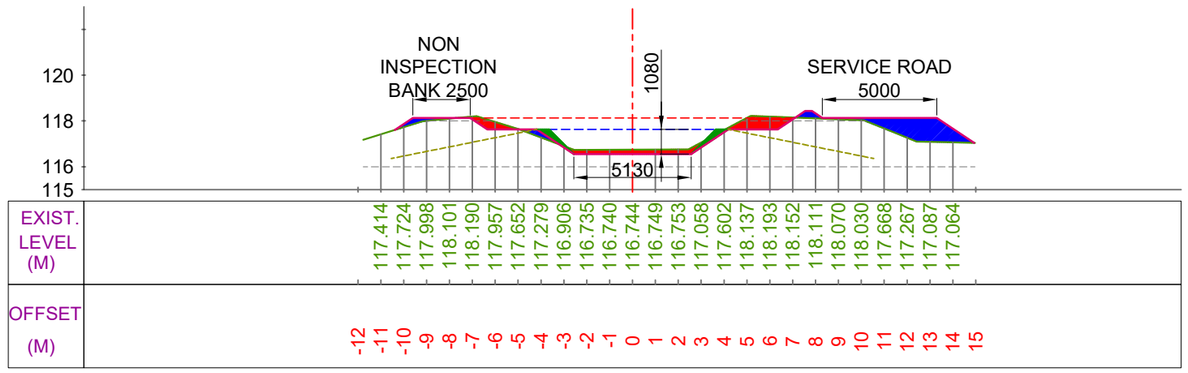
CUTTING AREA (SQ.M) = 2.596 CH. (KM):- 14+700

FILLING AREA (SQ.M) = 3.269 DESIGNED BED LEVEL = 116.571 M



CUTTING AREA (SQ.M) = 2.415 CH. (KM):- 14+600

FILLING AREA (SQ.M) = 3.039 DESIGNED BED LEVEL = 116.590 M



CUTTING AREA (SQ.M) = 2.849 CH. (KM):- 14+800

FILLING AREA (SQ.M) = 3.998 DESIGNED BED LEVEL = 116.551 M

LEGEND

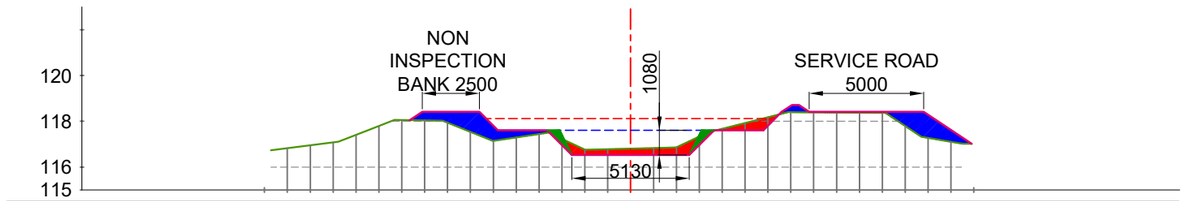
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

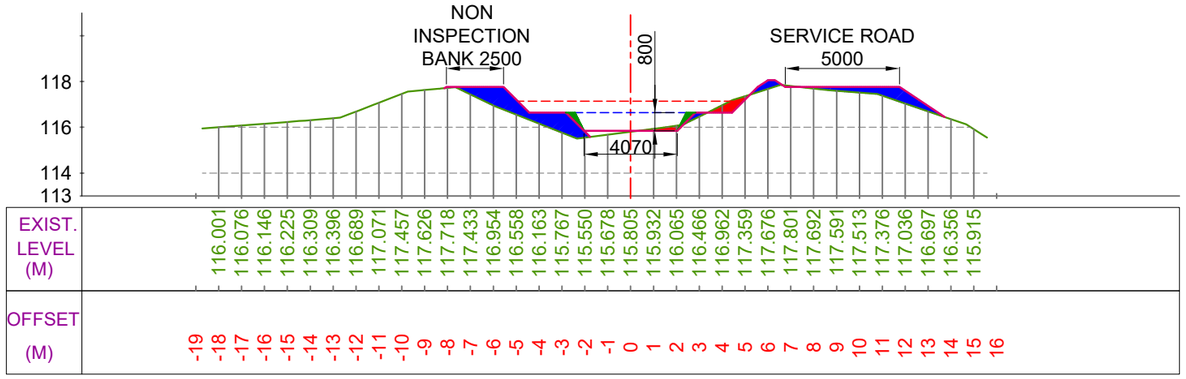
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 37 of 47

X SECTION OF KAPASIYA DY.

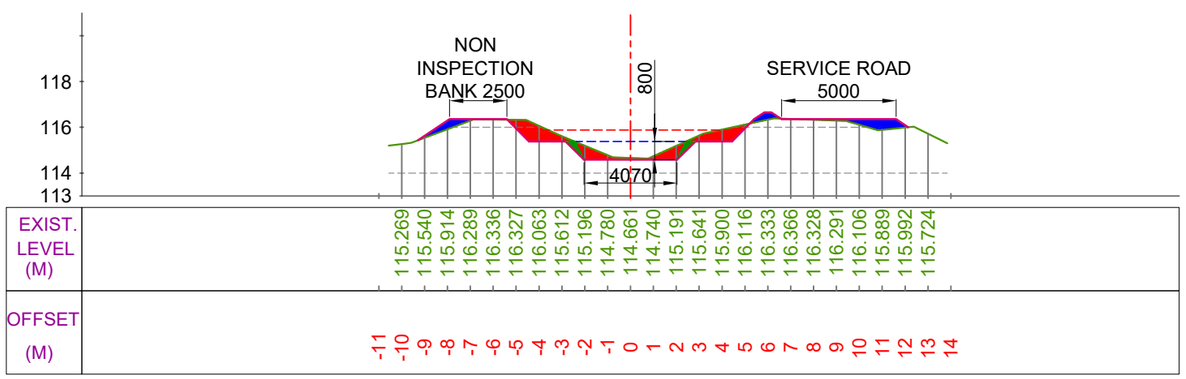


| | | |

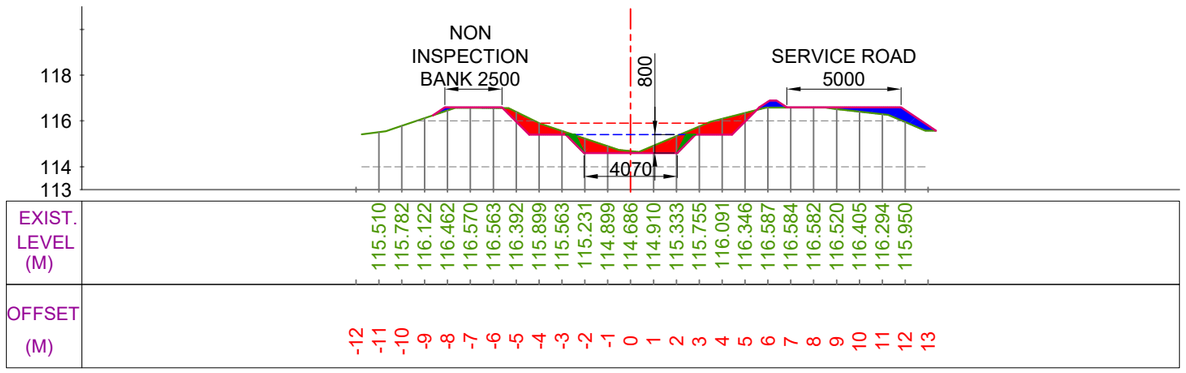
X SECTION OF KAPASIYA DY.



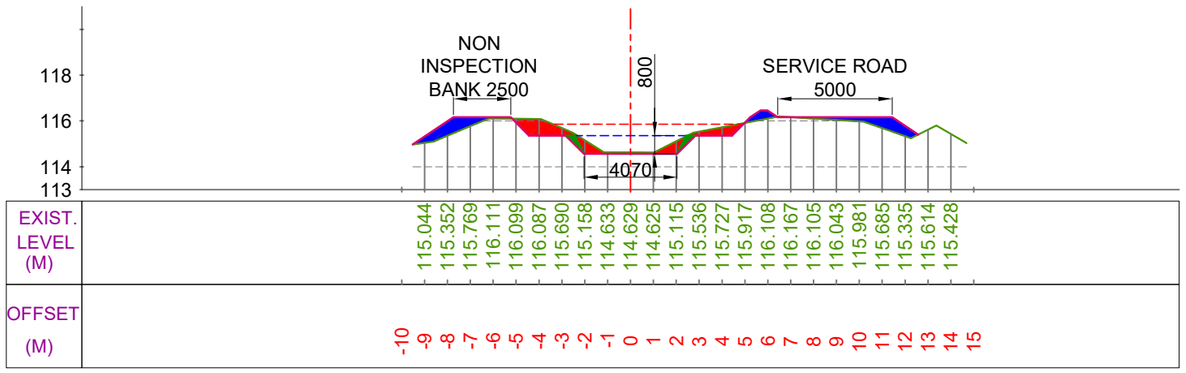
CUTTING AREA (SQ.M) = 0.731 CH. (KM):- 15+300
FILLING AREA (SQ.M) = 5.521 DESIGNED BED LEVEL = 115.843 M



CUTTING AREA (SQ.M) = 3.527 CH. (KM):- 15+500
FILLING AREA (SQ.M) = 1.718 DESIGNED BED LEVEL = 114.583 M



CUTTING AREA (SQ.M) = 4.136 CH. (KM):- 15+400
FILLING AREA (SQ.M) = 1.651 DESIGNED BED LEVEL = 114.603 M



CUTTING AREA (SQ.M) = 2.882 CH. (KM):- 15+600
FILLING AREA (SQ.M) = 3.018 DESIGNED BED LEVEL = 114.563 M

LEGEND

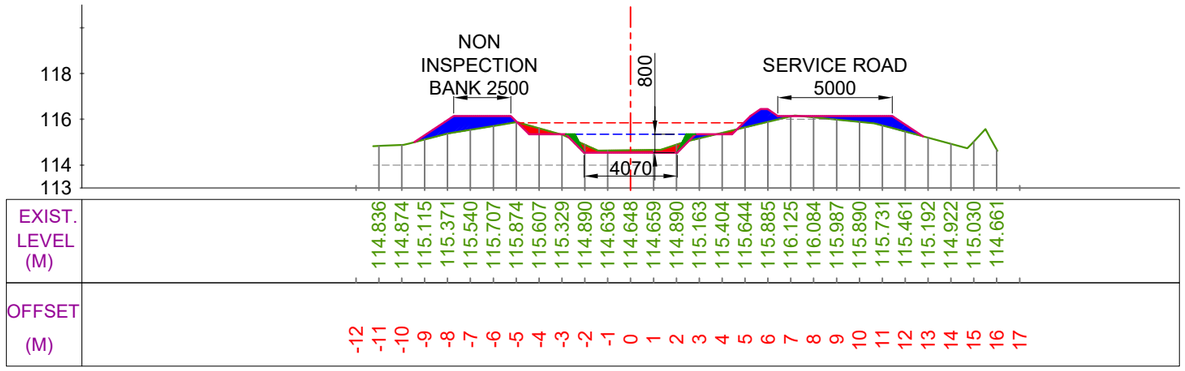
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

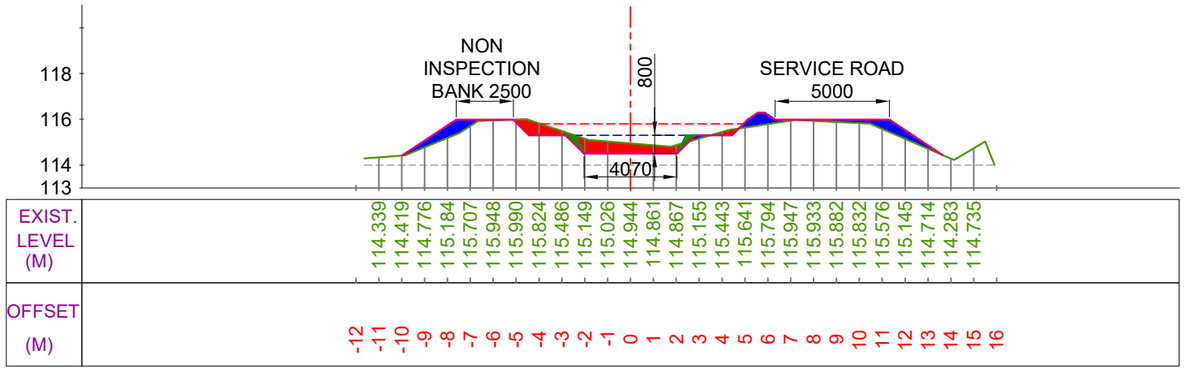
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 39 of 47

X SECTION OF KAPASIYA DY.



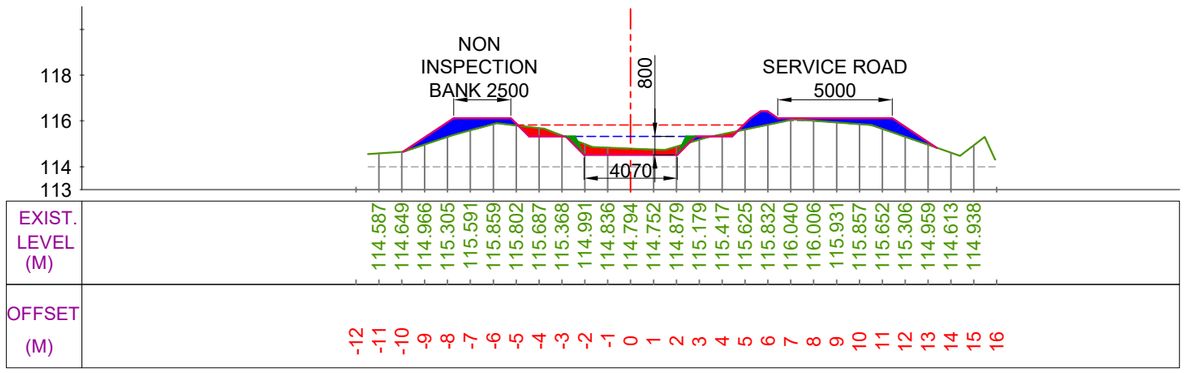
CUTTING AREA (SQ.M) = 1.124 CH. (KM):- 15+700

FILLING AREA (SQ.M) = 4.033 DESIGNED BED LEVEL = 114.543 M



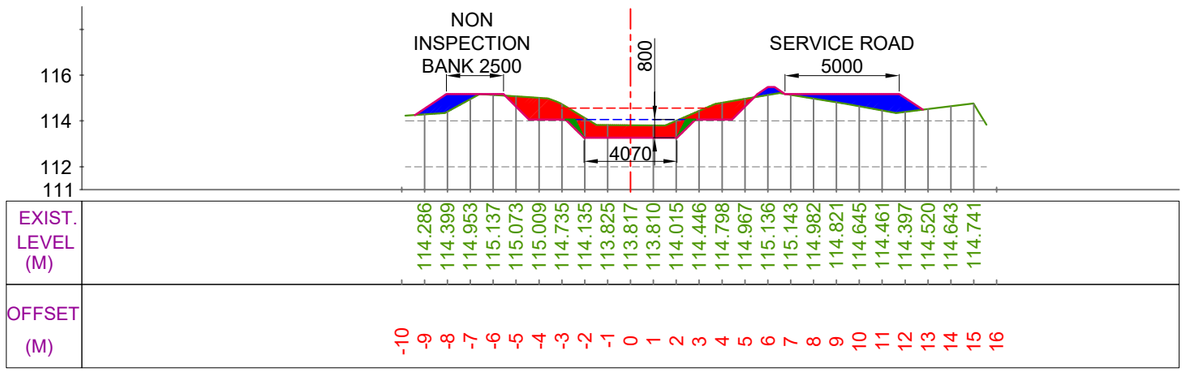
CUTTING AREA (SQ.M) = 3.043 CH. (KM):- 15+900

FILLING AREA (SQ.M) = 3.173 DESIGNED BED LEVEL = 114.503 M



CUTTING AREA (SQ.M) = 1.883 CH. (KM):- 15+800

FILLING AREA (SQ.M) = 4.470 DESIGNED BED LEVEL = 114.523 M



CUTTING AREA (SQ.M) = 6.357 CH. (KM):- 16+000

FILLING AREA (SQ.M) = 3.904 DESIGNED BED LEVEL = 113.263 M

LEGEND

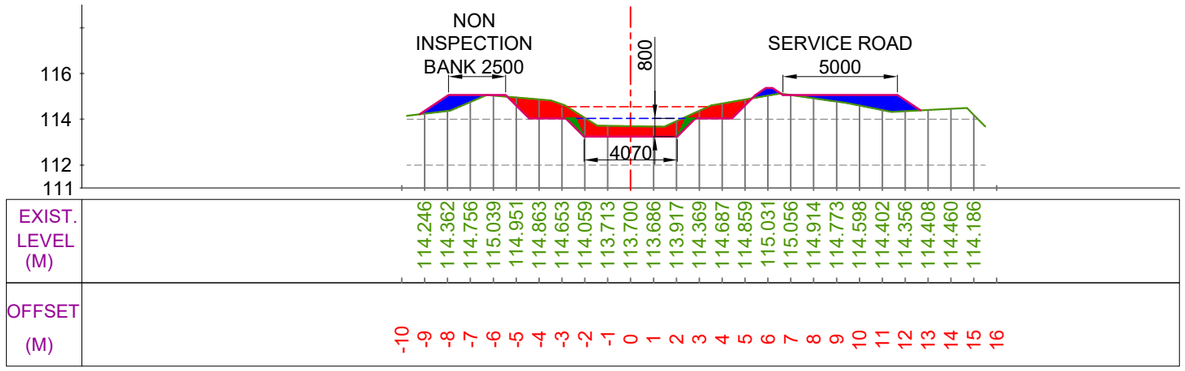
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

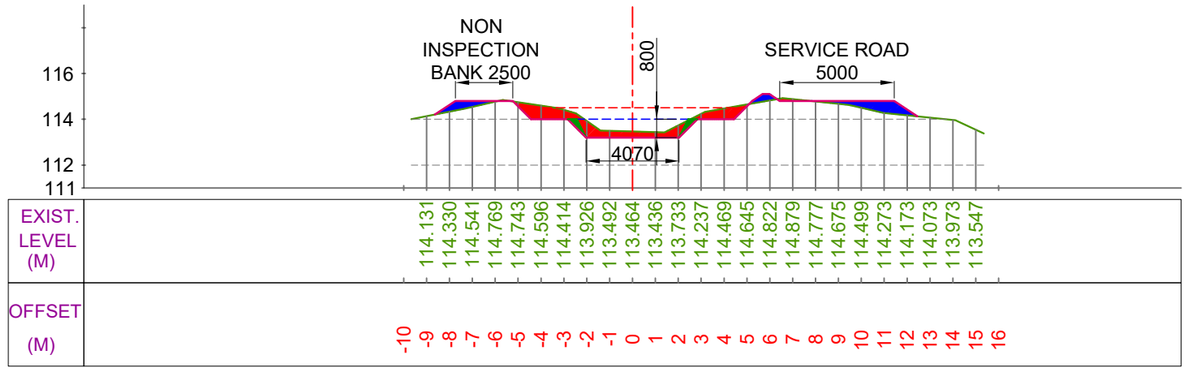
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 40 of 47

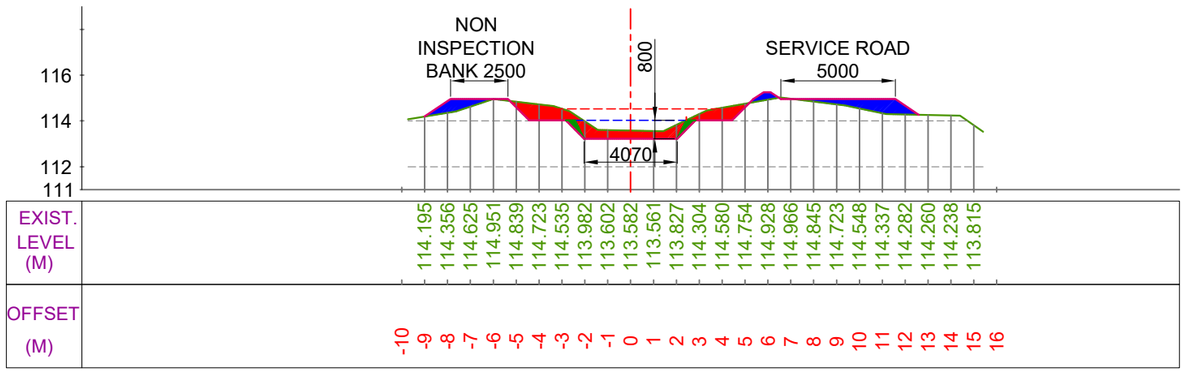
X SECTION OF KAPASIYA DY.



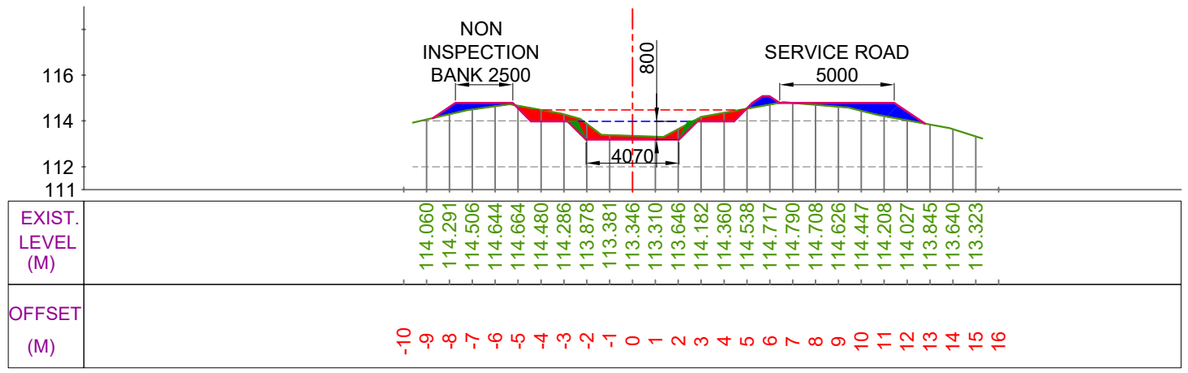
CUTTING AREA (SQ.M) = 5.435 CH. (KM):- 16+100
FILLING AREA (SQ.M) = 3.420 DESIGNED BED LEVEL = 113.243 M



CUTTING AREA (SQ.M) = 3.754 CH. (KM):- 16+300
FILLING AREA (SQ.M) = 2.076 DESIGNED BED LEVEL = 113.203 M



CUTTING AREA (SQ.M) = 4.546 CH. (KM):- 16+200
FILLING AREA (SQ.M) = 2.945 DESIGNED BED LEVEL = 113.223 M



CUTTING AREA (SQ.M) = 2.839 CH. (KM):- 16+400
FILLING AREA (SQ.M) = 2.661 DESIGNED BED LEVEL = 113.183 M

LEGEND

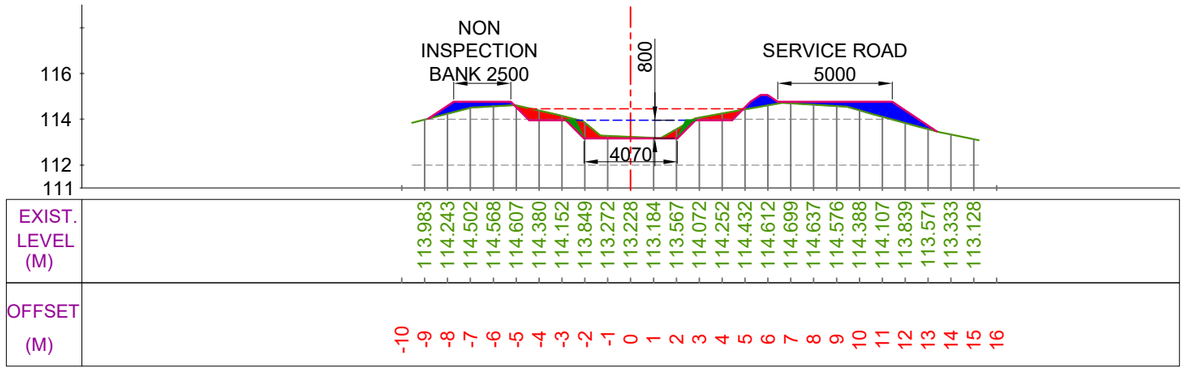
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

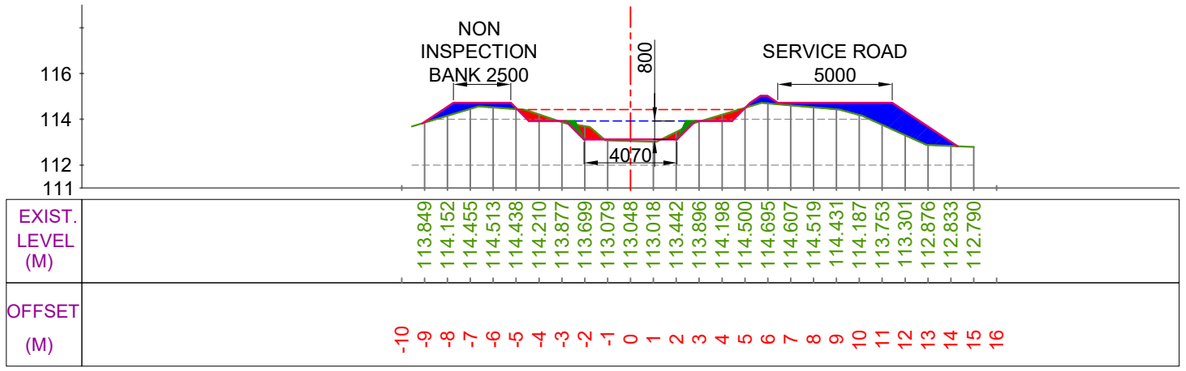
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 41 of 47

X SECTION OF KAPASIYA DY.



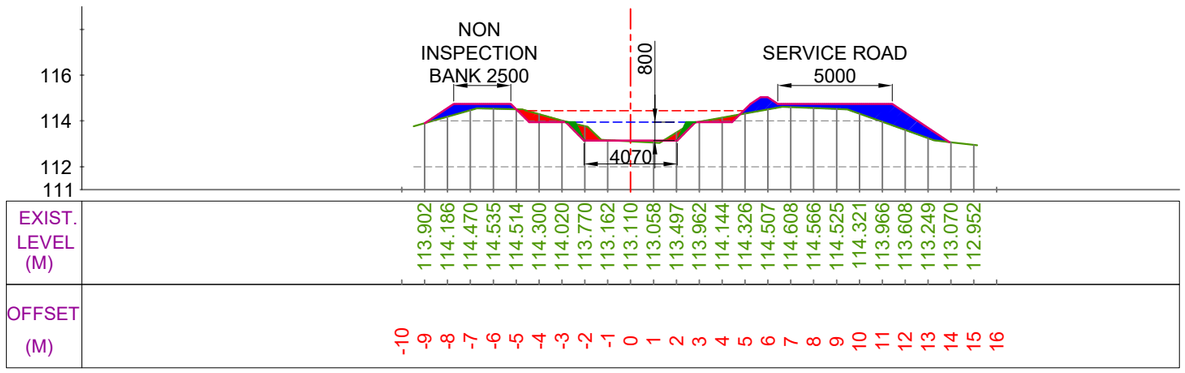
CUTTING AREA (SQ.M) = 2.035
FILLING AREA (SQ.M) = 3.483

CH. (KM):- 16+500
DESIGNED BED LEVEL = 113.163 M



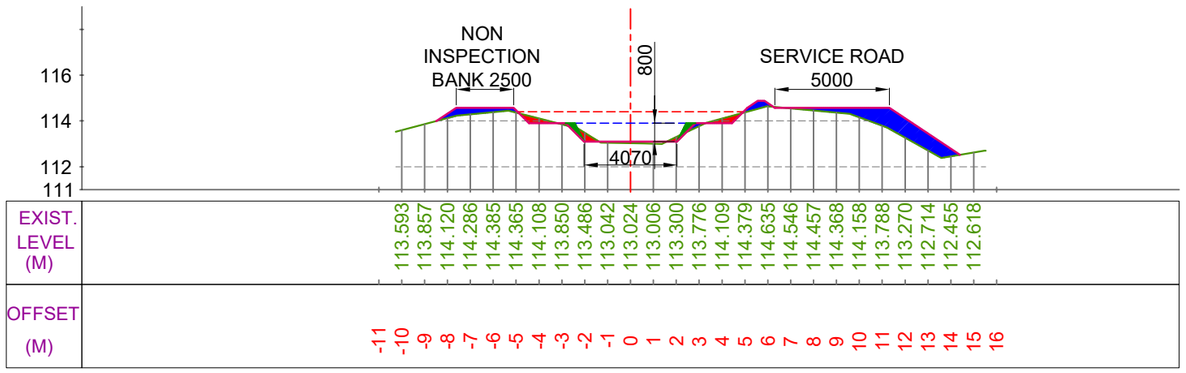
CUTTING AREA (SQ.M) = 1.344
FILLING AREA (SQ.M) = 5.519

CH. (KM):- 16+700
DESIGNED BED LEVEL = 113.123 M



CUTTING AREA (SQ.M) = 1.395
FILLING AREA (SQ.M) = 4.604

CH. (KM):- 16+600
DESIGNED BED LEVEL = 113.143 M



CUTTING AREA (SQ.M) = 0.786
FILLING AREA (SQ.M) = 4.622

CH. (KM):- 16+800
DESIGNED BED LEVEL = 113.103 M

LEGEND

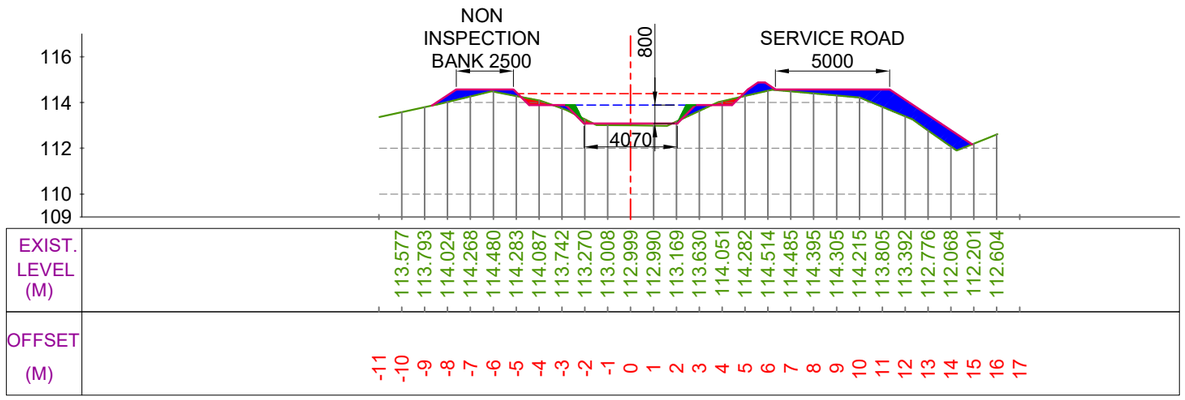
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

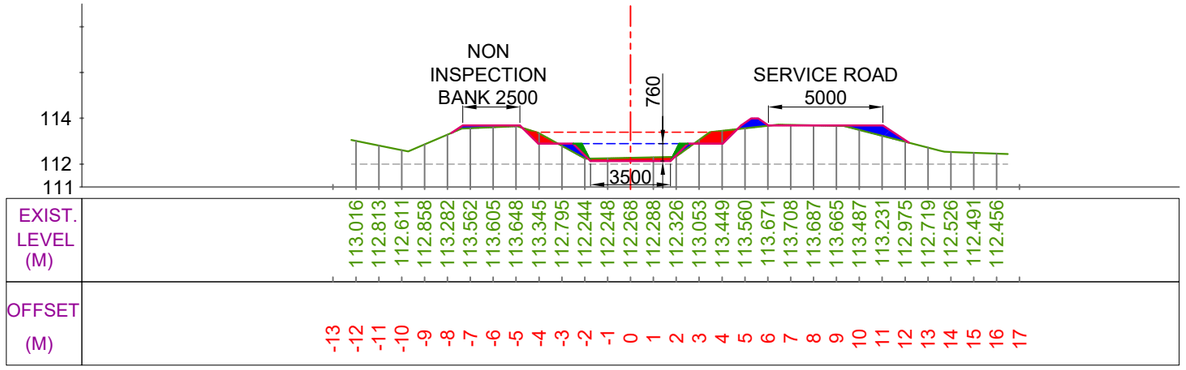
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 42 of 47

X SECTION OF KAPASIYA DY.



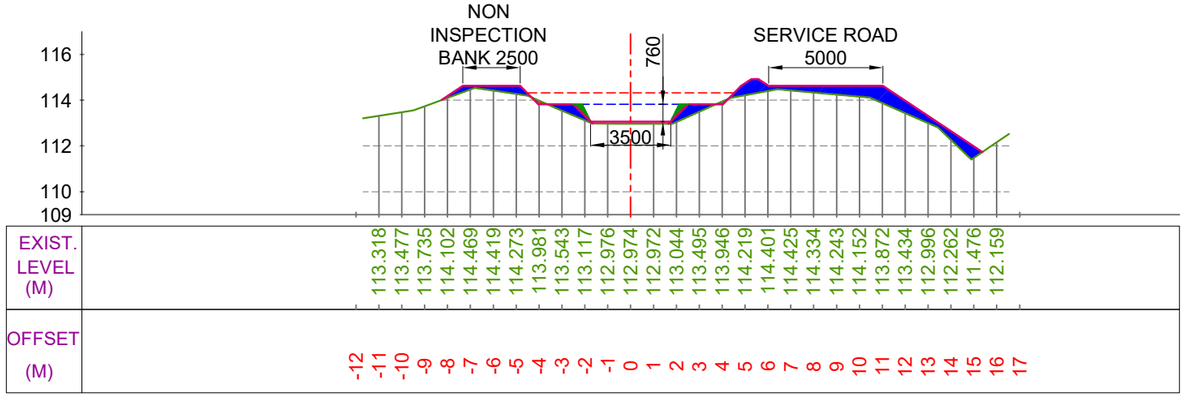
CUTTING AREA (SQ.M) = 0.479 CH. (KM):- 16+900

FILLING AREA (SQ.M) = 5.450 DESIGNED BED LEVEL = 113.083 M



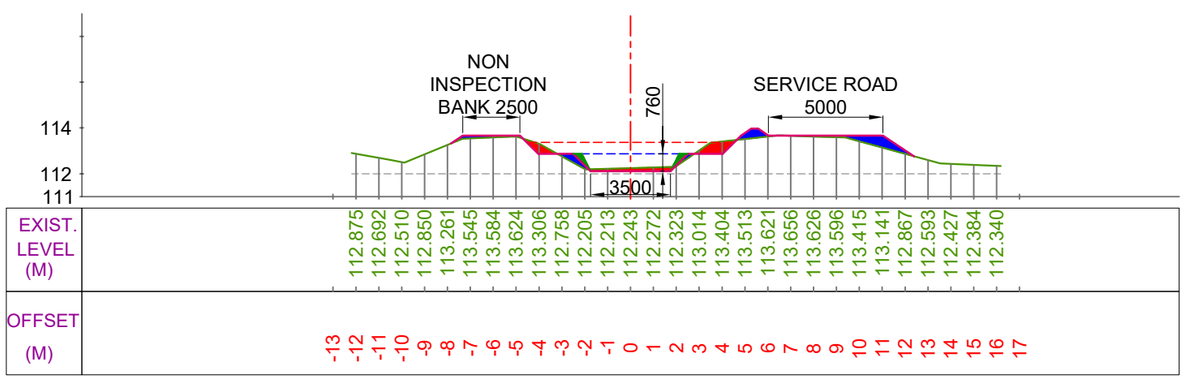
CUTTING AREA (SQ.M) = 1.553 CH. (KM):- 17+100

FILLING AREA (SQ.M) = 1.638 DESIGNED BED LEVEL = 112.128 M



CUTTING AREA (SQ.M) = 0.097 CH. (KM):- 17+000

FILLING AREA (SQ.M) = 6.296 DESIGNED BED LEVEL = 113.063 M



CUTTING AREA (SQ.M) = 1.432 CH. (KM):- 17+200

FILLING AREA (SQ.M) = 2.001 DESIGNED BED LEVEL = 112.108 M

LEGEND

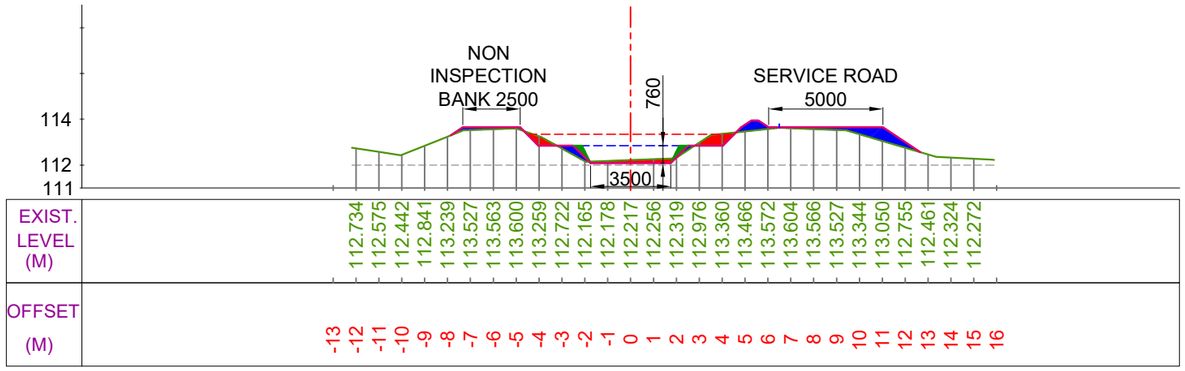
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

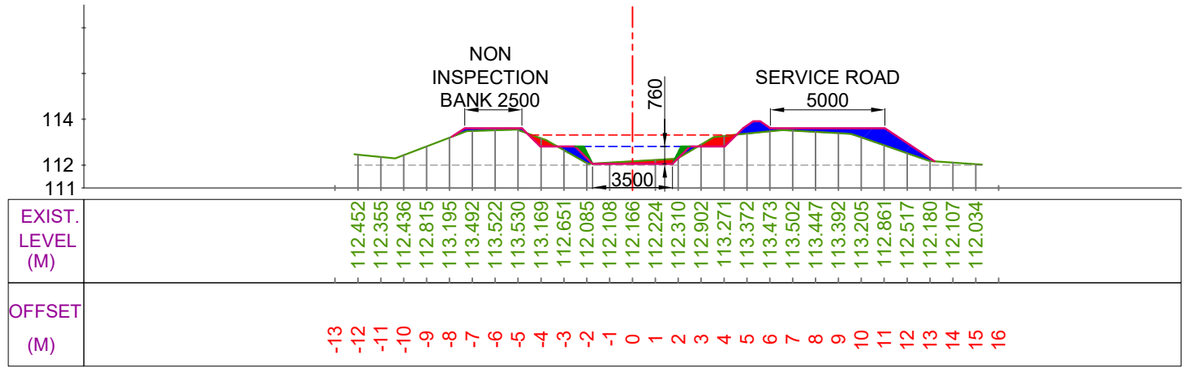
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 43 of 47

X SECTION OF KAPASIYA DY.



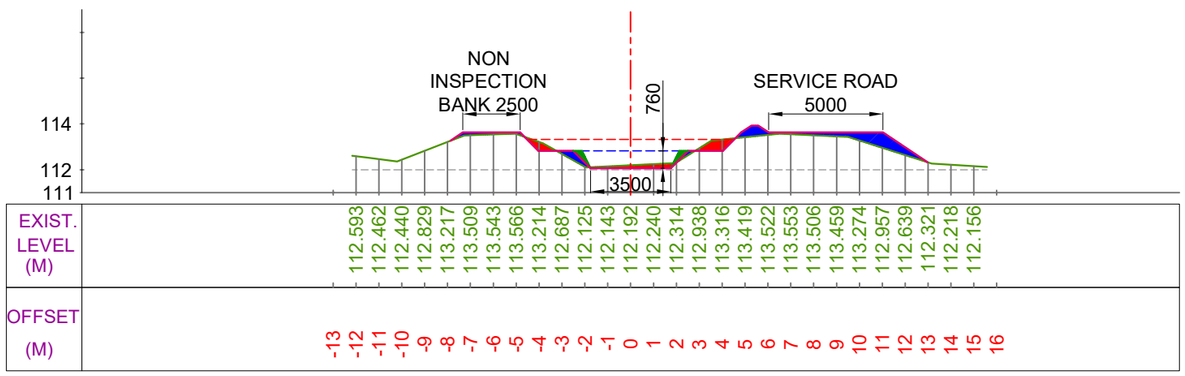
CUTTING AREA (SQ.M) = 1.342 CH. (KM):- 17+300

FILLING AREA (SQ.M) = 2.421 DESIGNED BED LEVEL = 112.088 M



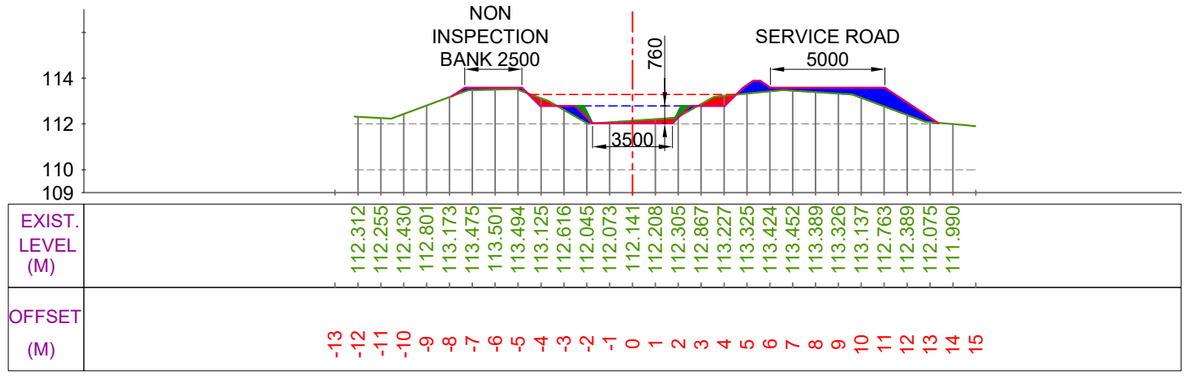
CUTTING AREA (SQ.M) = 1.169 CH. (KM):- 17+500

FILLING AREA (SQ.M) = 3.389 DESIGNED BED LEVEL = 112.048 M



CUTTING AREA (SQ.M) = 1.254 CH. (KM):- 17+400

FILLING AREA (SQ.M) = 2.883 DESIGNED BED LEVEL = 112.068 M



CUTTING AREA (SQ.M) = 1.087 CH. (KM):- 17+600

FILLING AREA (SQ.M) = 3.917 DESIGNED BED LEVEL = 112.028 M

LEGEND

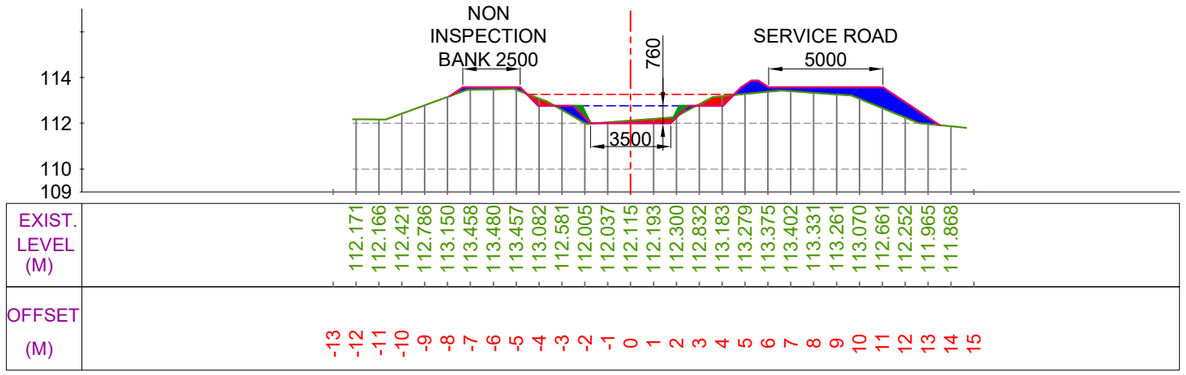
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

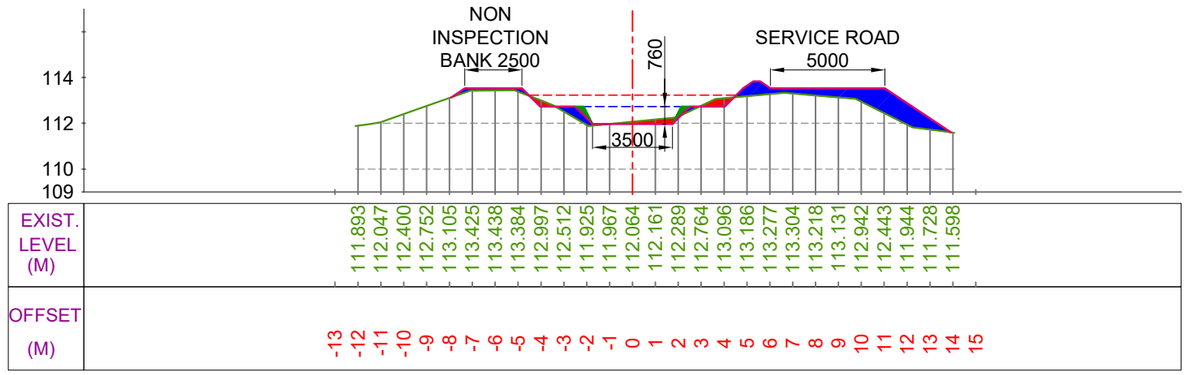
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 44 of 47

X SECTION OF KAPASIYA DY.



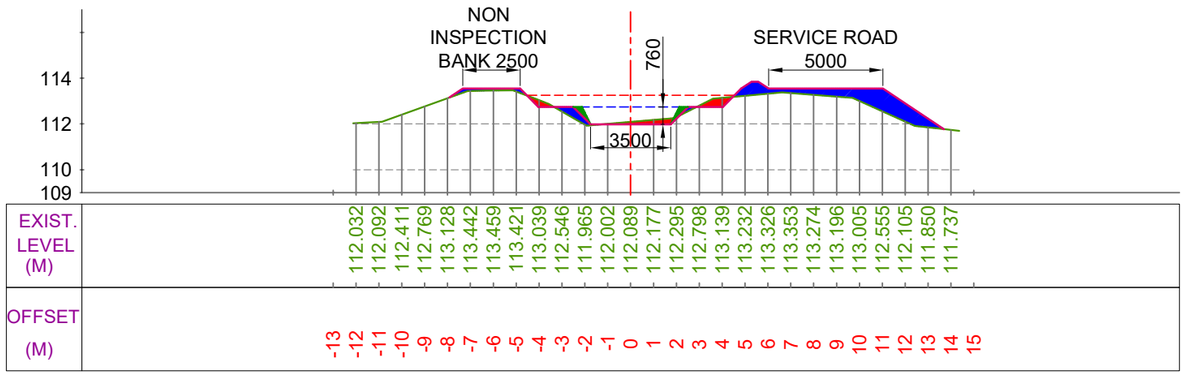
CUTTING AREA (SQ.M) = 1.012 CH. (KM):- 17+700

FILLING AREA (SQ.M) = 4.472 DESIGNED BED LEVEL = 112.008 M



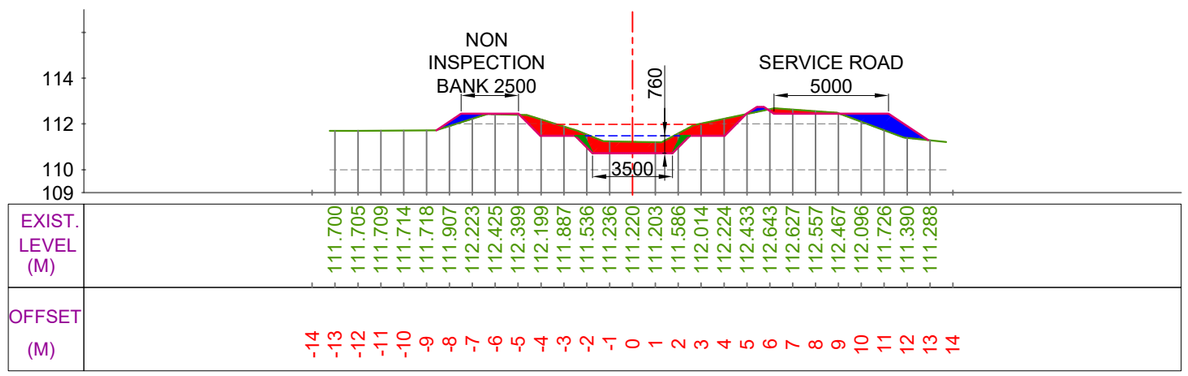
CUTTING AREA (SQ.M) = 0.882 CH. (KM):- 17+900

FILLING AREA (SQ.M) = 5.690 DESIGNED BED LEVEL = 111.968 M



CUTTING AREA (SQ.M) = 0.944 CH. (KM):- 17+800

FILLING AREA (SQ.M) = 5.061 DESIGNED BED LEVEL = 111.988 M



CUTTING AREA (SQ.M) = 5.067 CH. (KM):- 18+000

FILLING AREA (SQ.M) = 2.195 DESIGNED BED LEVEL = 110.728 M

LEGEND

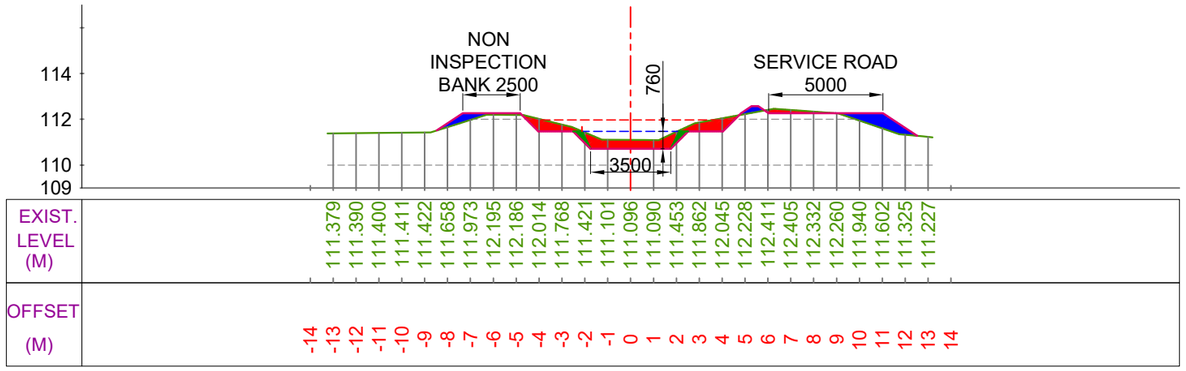
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

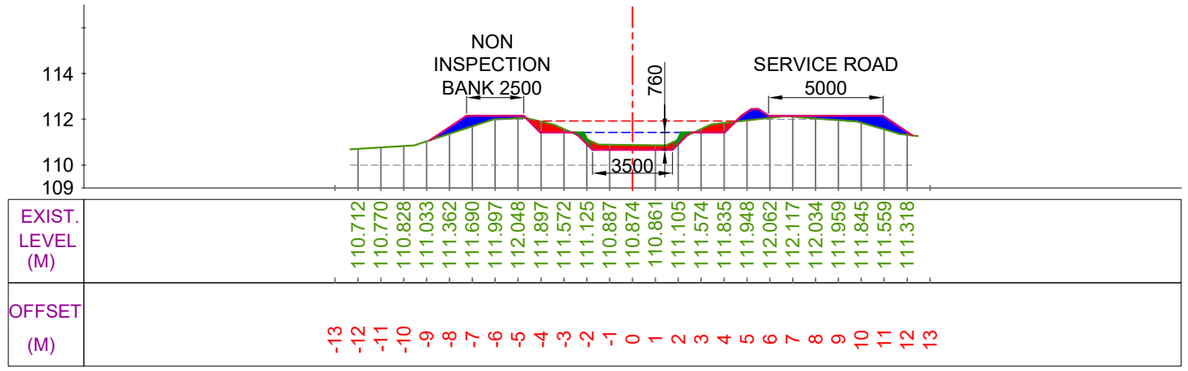
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 45 of 47

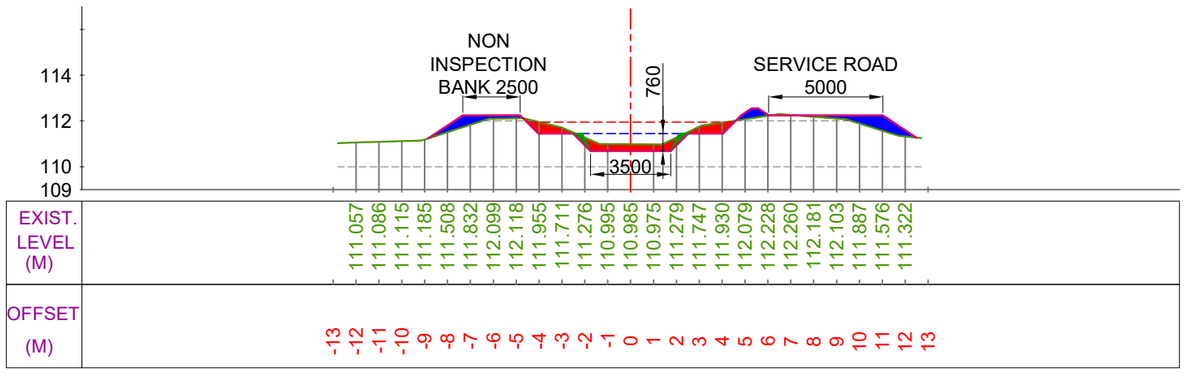
X SECTION OF KAPASIYA DY.



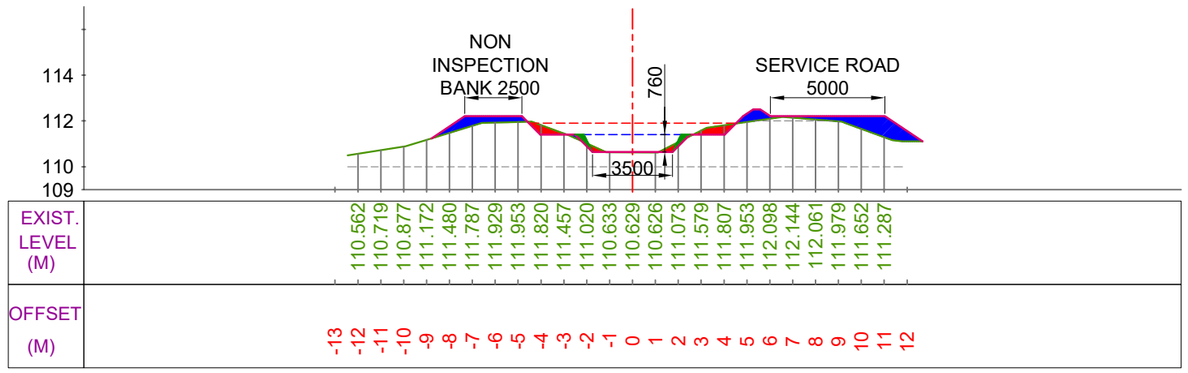
CUTTING AREA (SQ.M) = 3.736 CH. (KM):- 18+100
FILLING AREA (SQ.M) = 2.029 DESIGNED BED LEVEL = 110.708 M



CUTTING AREA (SQ.M) = 1.796 CH. (KM):- 18+300
FILLING AREA (SQ.M) = 2.789 DESIGNED BED LEVEL = 110.668 M



CUTTING AREA (SQ.M) = 2.594 CH. (KM):- 18+200
FILLING AREA (SQ.M) = 2.807 DESIGNED BED LEVEL = 110.688 M



CUTTING AREA (SQ.M) = 1.043 CH. (KM):- 18+400
FILLING AREA (SQ.M) = 4.107 DESIGNED BED LEVEL = 110.648 M

LEGEND

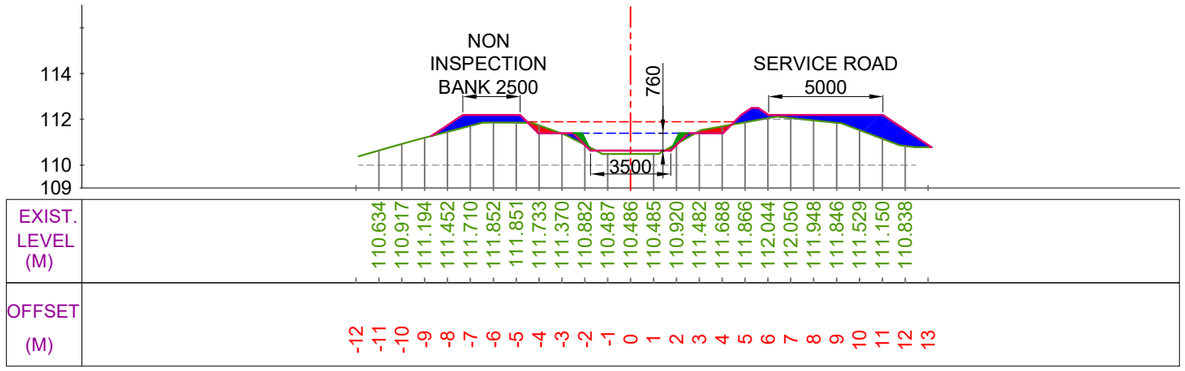
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

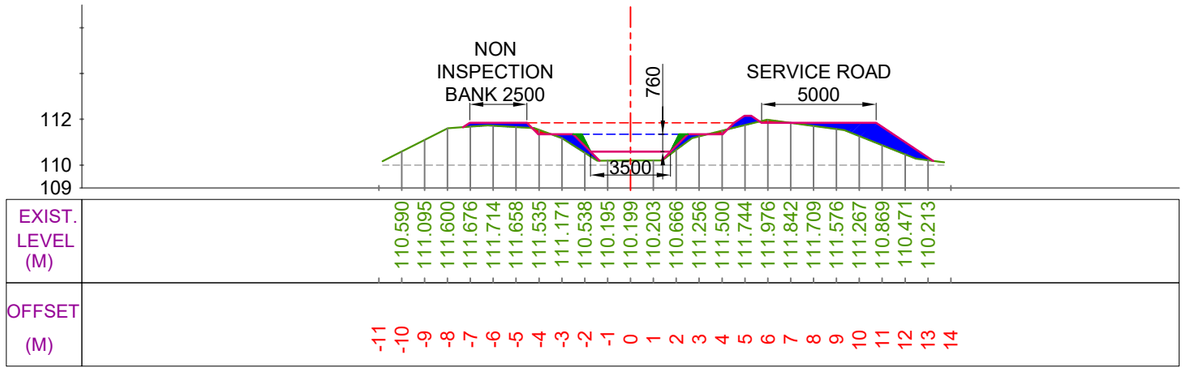
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 46 of 47

X SECTION OF KAPASIYA DY.



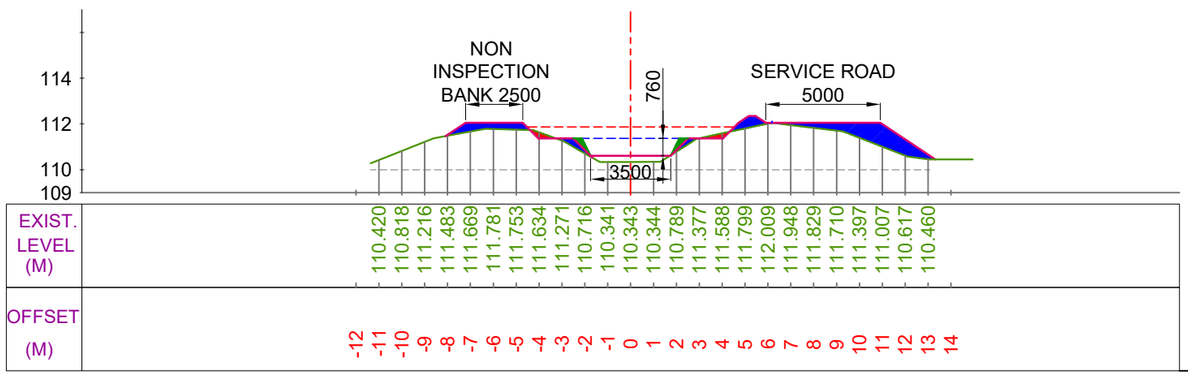
CUTTING AREA (SQ.M) = 0.600 CH. (KM):- 18+500

FILLING AREA (SQ.M) = 5.406 DESIGNED BED LEVEL = 110.628 M



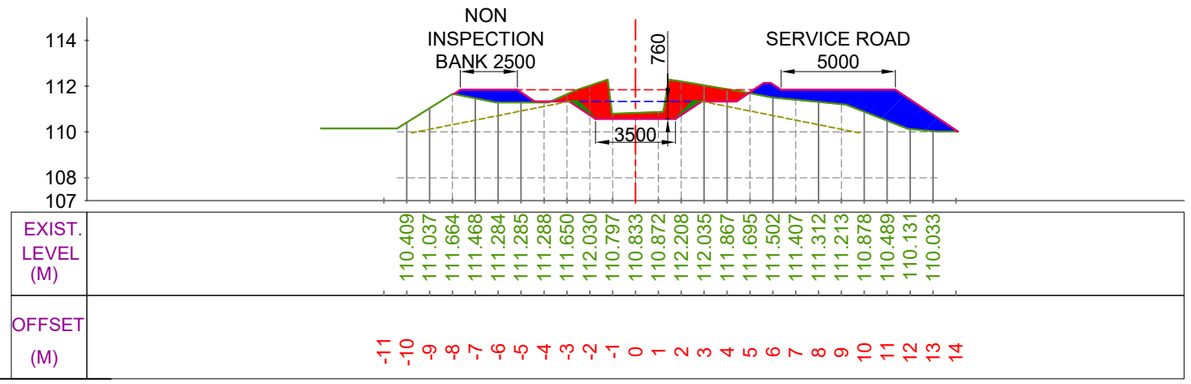
CUTTING AREA (SQ.M) = 0.245 CH. (KM):- 18+700

FILLING AREA (SQ.M) = 4.067 DESIGNED BED LEVEL = 110.588 M



CUTTING AREA (SQ.M) = 0.316 CH. (KM):- 18+600

FILLING AREA (SQ.M) = 5.069 DESIGNED BED LEVEL = 110.608 M



CUTTING AREA (SQ.M) = 5.713 CH. (KM):- 18+750

FILLING AREA (SQ.M) = 8.045 DESIGNED BED LEVEL = 110.578 M

LEGEND

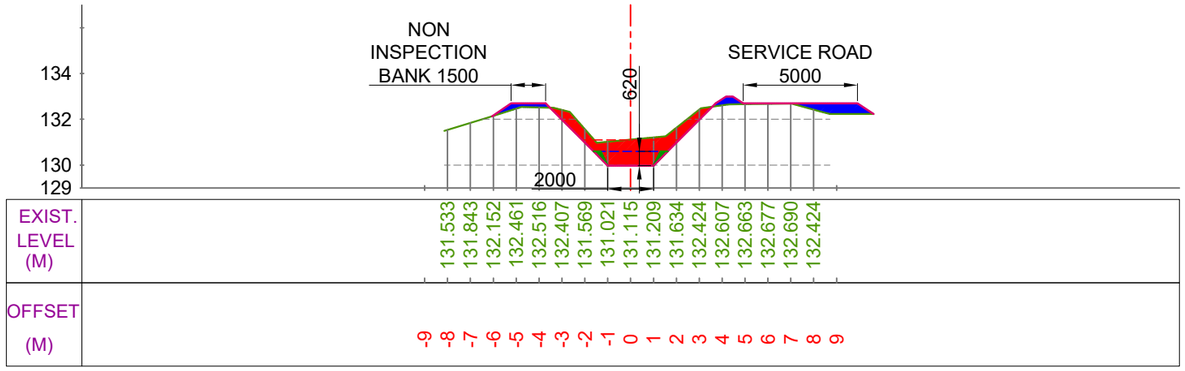
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

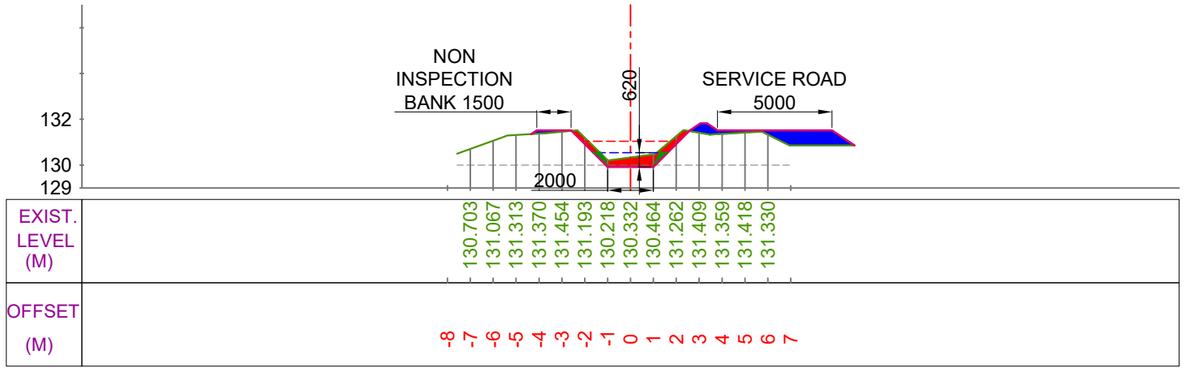
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RIGHT MAIN CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ XSEC- 47 of 47

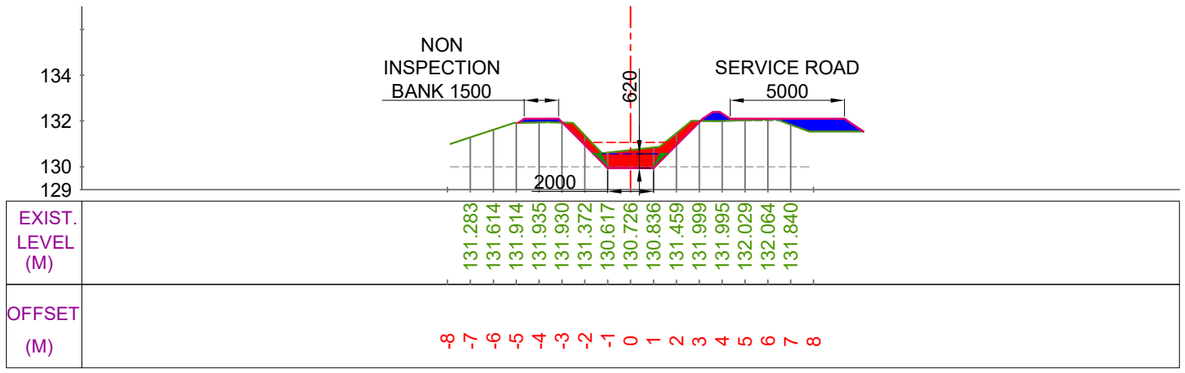
X SECTION OF NARCHI MINOR



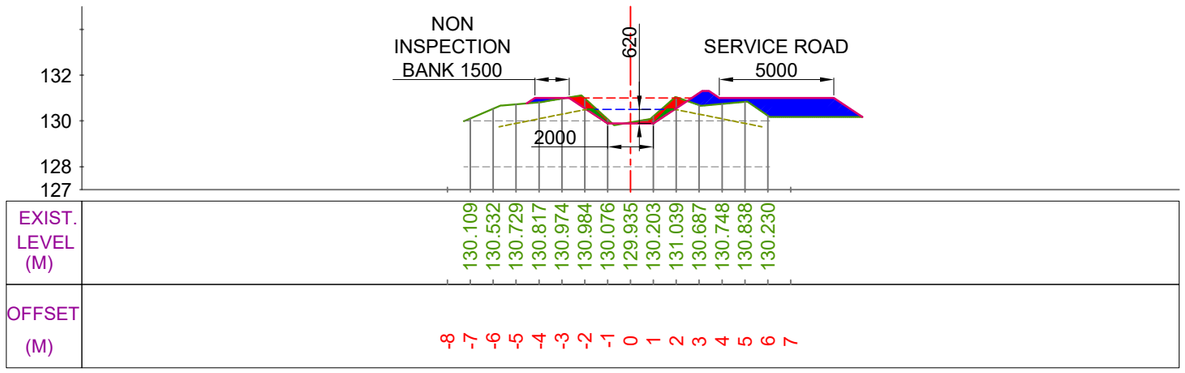
CUTTING AREA (SQ.M) = 5.049 CH. (KM):- 0+100
FILLING AREA (SQ.M) = 1.881 DESIGNED BED LEVEL = 129.974 M



CUTTING AREA (SQ.M) = 1.611 CH. (KM):- 0+300
FILLING AREA (SQ.M) = 2.743 DESIGNED BED LEVEL = 129.917 M



CUTTING AREA (SQ.M) = 3.148 CH. (KM):- 0+200
FILLING AREA (SQ.M) = 2.218 DESIGNED BED LEVEL = 129.946 M



CUTTING AREA (SQ.M) = 1.008 CH. (KM):- 0+400
FILLING AREA (SQ.M) = 4.410 DESIGNED BED LEVEL = 129.889 M

LEGEND

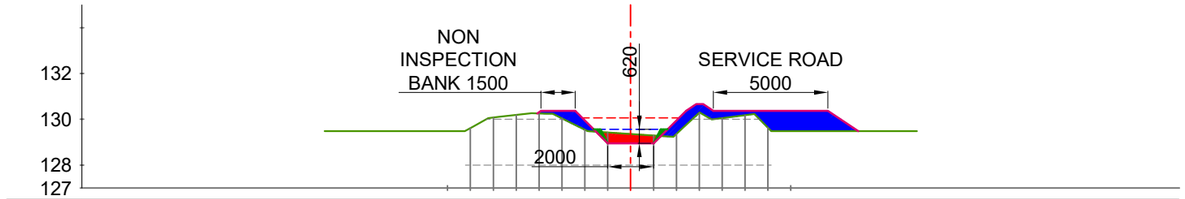
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

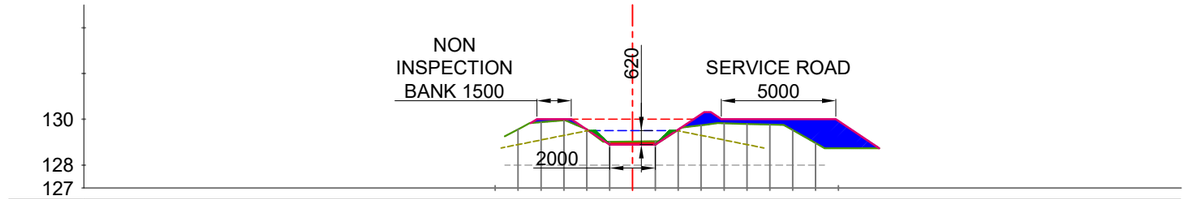
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 1 of 10

X SECTION OF NARCHI MINOR



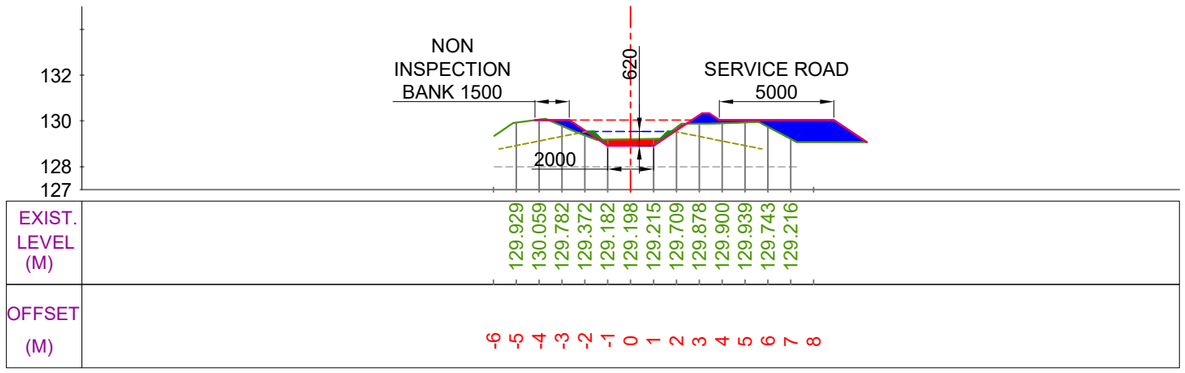
CUTTING AREA (SQ.M) = 0.907 CH. (KM):- 0+500

FILLING AREA (SQ.M) = 5.420 DESIGNED BED LEVEL = 128.946 M



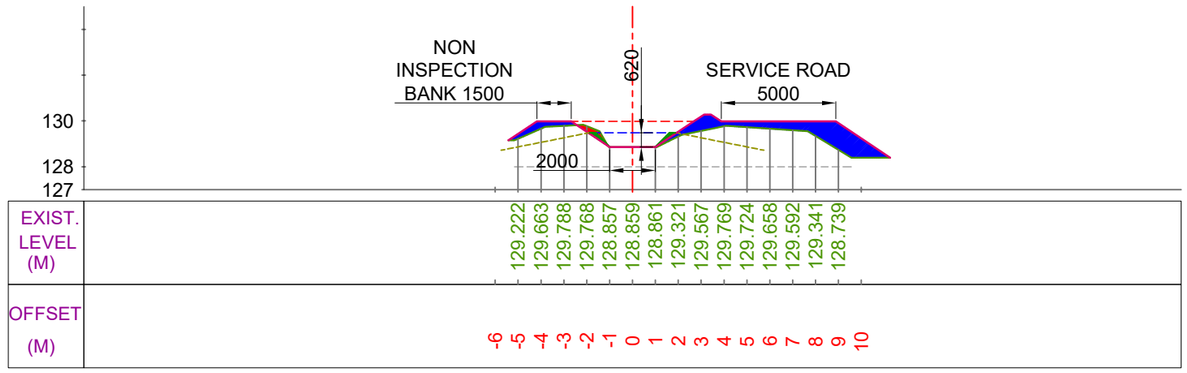
CUTTING AREA (SQ.M) = 0.299 CH. (KM):- 0+700

FILLING AREA (SQ.M) = 4.607 DESIGNED BED LEVEL = 128.889 M



CUTTING AREA (SQ.M) = 0.720 CH. (KM):- 0+600

FILLING AREA (SQ.M) = 0.4.190 DESIGNED BED LEVEL = 128.918 M



CUTTING AREA (SQ.M) = 0.217 CH. (KM):- 0+800

FILLING AREA (SQ.M) = 5.542 DESIGNED BED LEVEL = 128.860 M

LEGEND

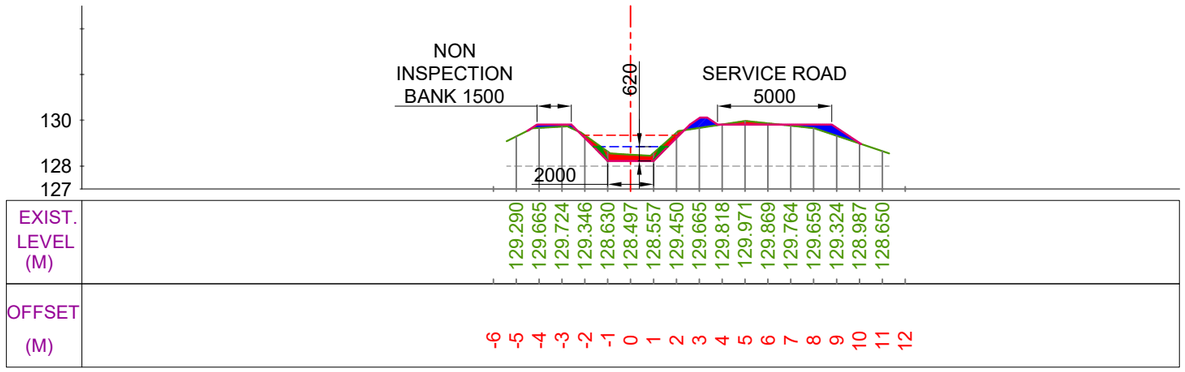
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

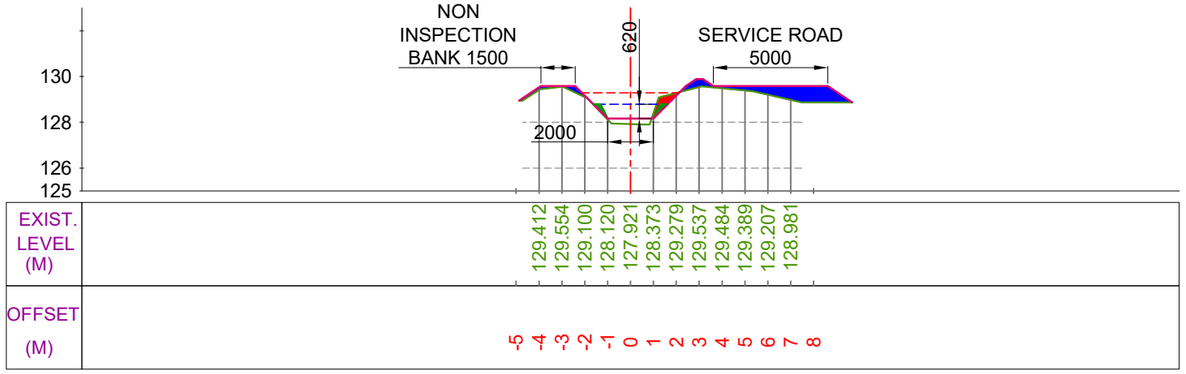
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 2 of 10

X SECTION OF NARCHI MINOR



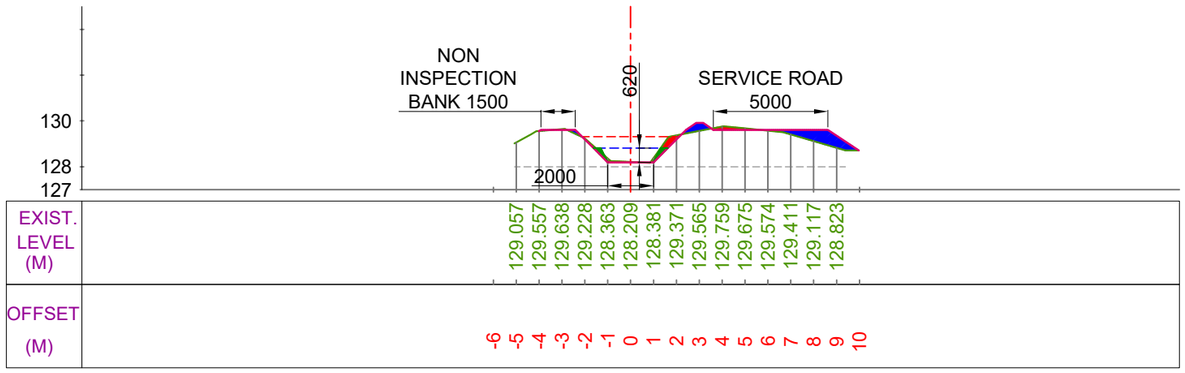
CUTTING AREA (SQ.M) = 1.189
FILLING AREA (SQ.M) = 1.226

CH. (KM):- 0+900
DESIGNED BED LEVEL = 128.222 M



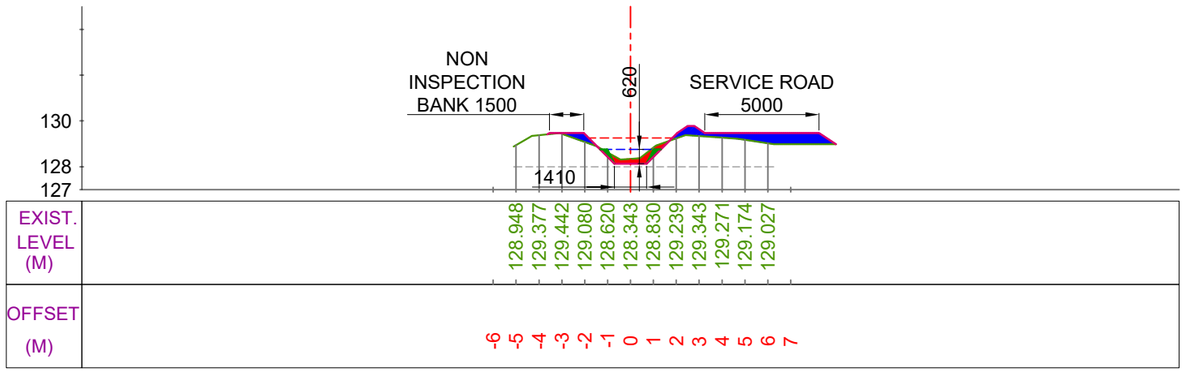
CUTTING AREA (SQ.M) = 0.327
FILLING AREA (SQ.M) = 3.142

CH. (KM):- 1+100
DESIGNED BED LEVEL = 128.165 M



CUTTING AREA (SQ.M) = 0.531
FILLING AREA (SQ.M) = 1.723

CH. (KM):- 1+000
DESIGNED BED LEVEL = 128.193 M



CUTTING AREA (SQ.M) = 0.571
FILLING AREA (SQ.M) = 2.749

CH. (KM):- 1+200
DESIGNED BED LEVEL = 128.136 M

LEGEND

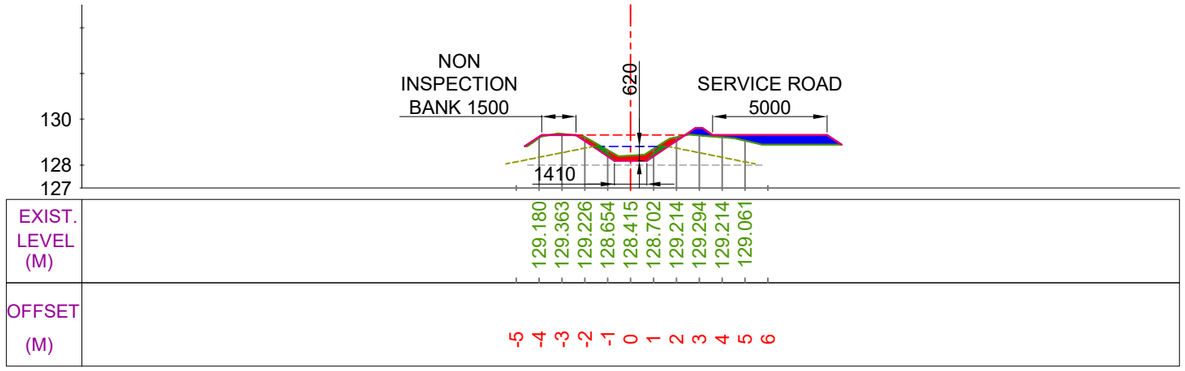
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

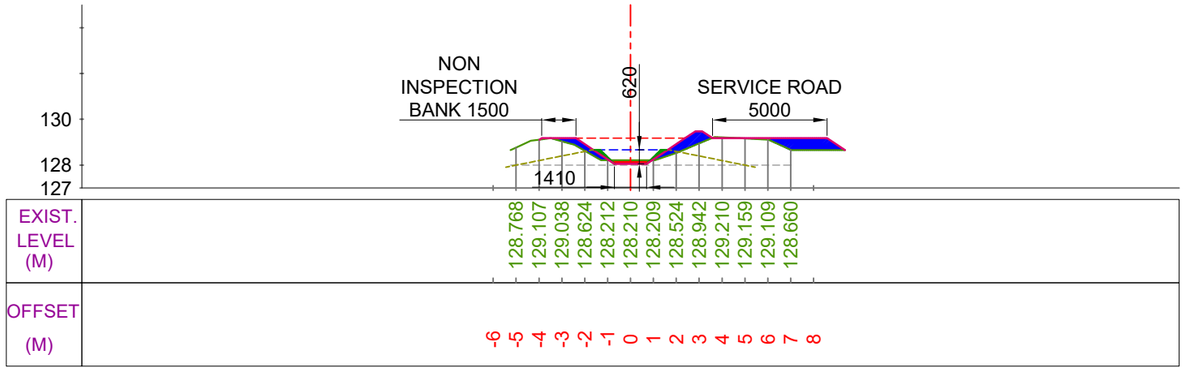
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 3 of 10

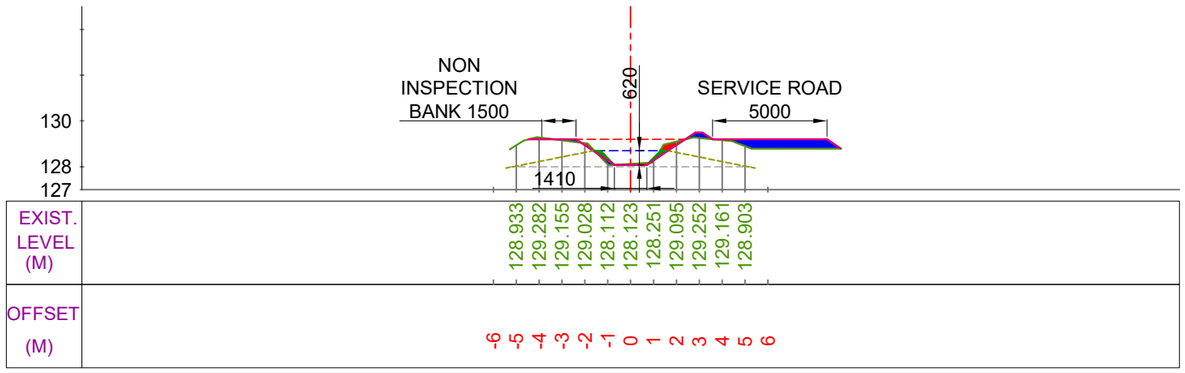
X SECTION OF NARCHI MINOR



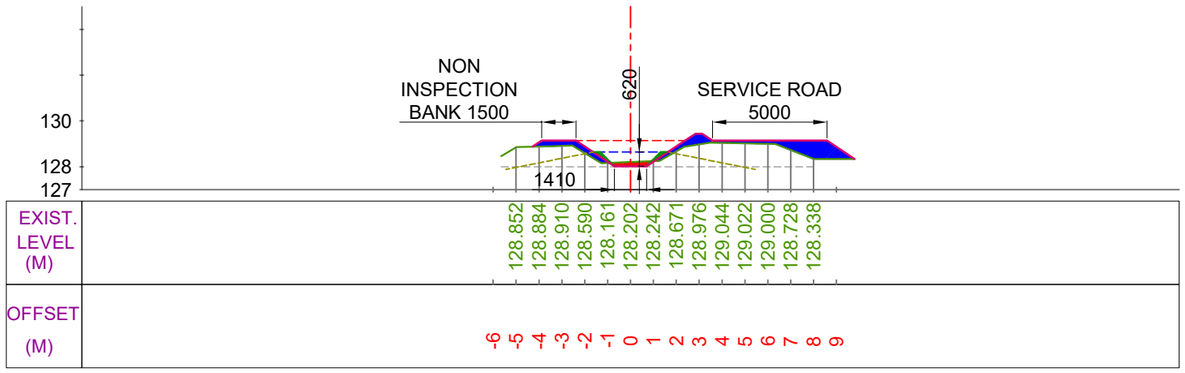
CUTTING AREA (SQ.M) = 0.902 CH. (KM):- 1+300
FILLING AREA (SQ.M) = 2.080 DESIGNED BED LEVEL = 128.108 M



CUTTING AREA (SQ.M) = 0.287 CH. (KM):- 1+500
FILLING AREA (SQ.M) = 2.764 DESIGNED BED LEVEL = 128.050 M



CUTTING AREA (SQ.M) = 0.355 CH. (KM):- 1+400
FILLING AREA (SQ.M) = 2.028 DESIGNED BED LEVEL = 128.079 M



CUTTING AREA (SQ.M) = 0.287 CH. (KM):- 1+600
FILLING AREA (SQ.M) = 3.526 DESIGNED BED LEVEL = 128.022 M

LEGEND

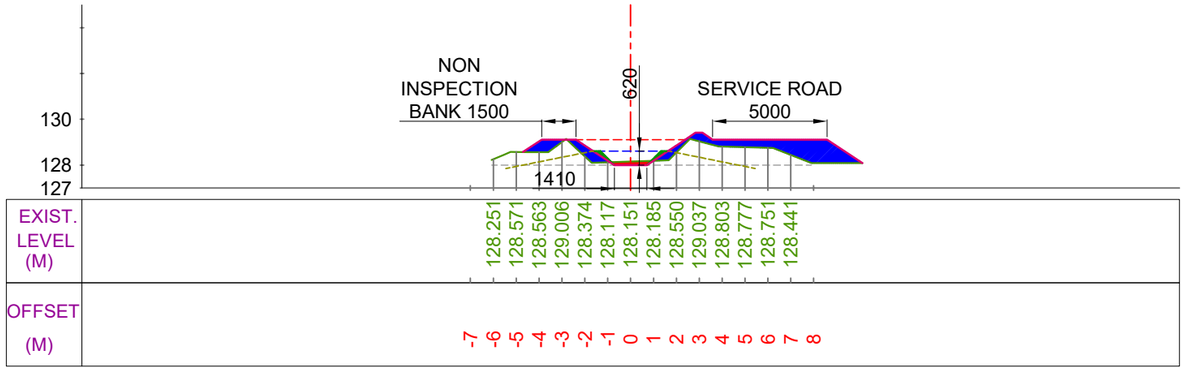
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

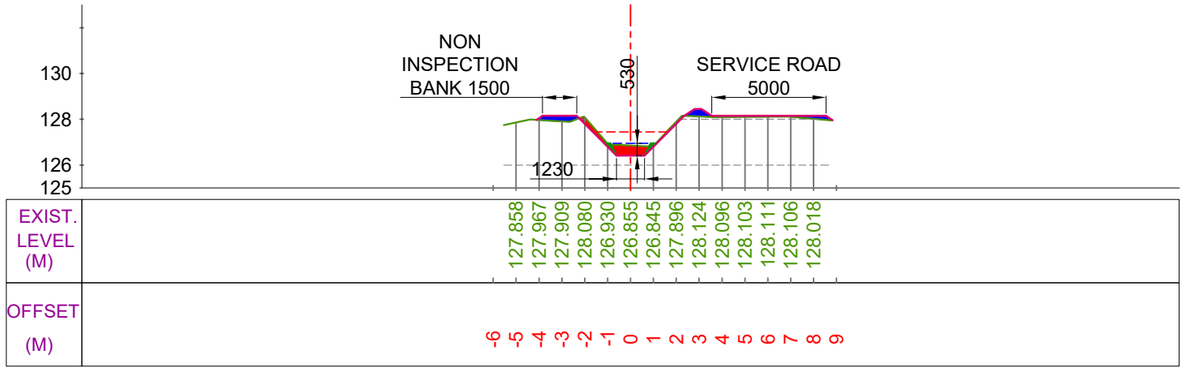
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 4 of 10

X SECTION OF NARCHI MINOR



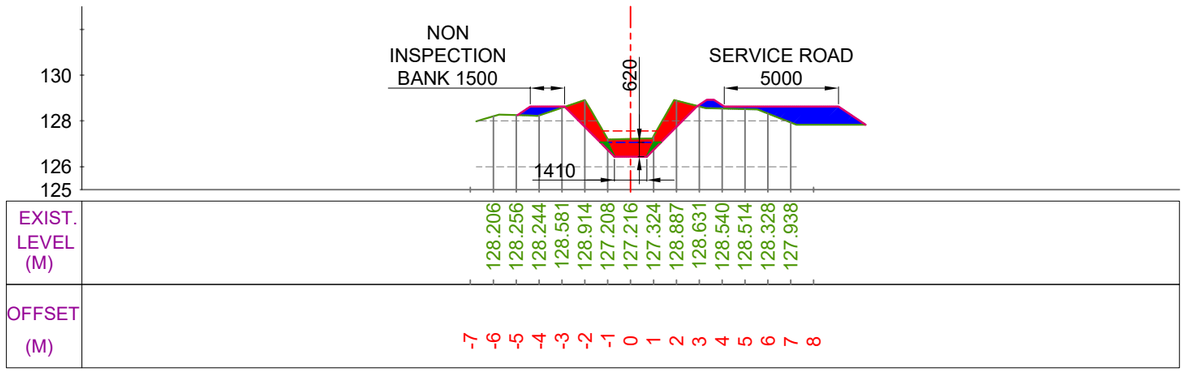
CUTTING AREA (SQ.M) = 0.249 CH. (KM):- 1+700

FILLING AREA (SQ.M) = 5.438 DESIGNED BED LEVEL = 127.993 M



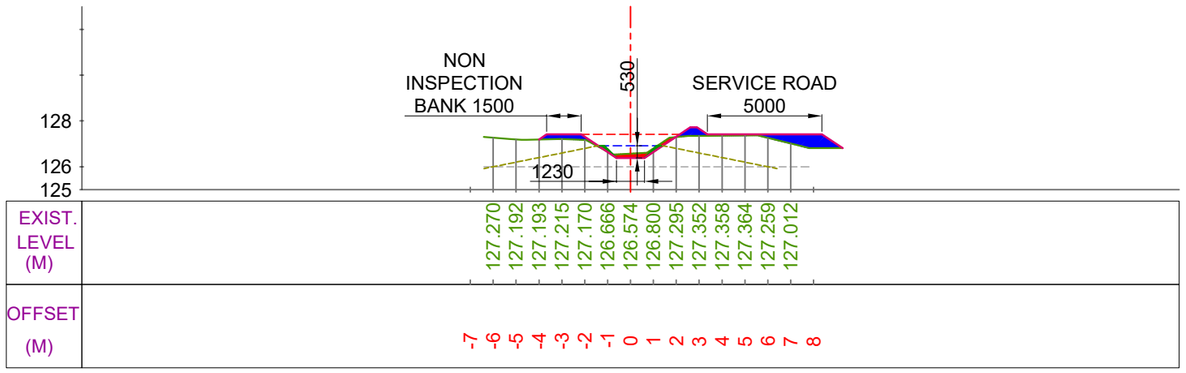
CUTTING AREA (SQ.M) = 0.964 CH. (KM):- 1+900

FILLING AREA (SQ.M) = 0.969 DESIGNED BED LEVEL = 126.416 M



CUTTING AREA (SQ.M) = 4.082 CH. (KM):- 1+800

FILLING AREA (SQ.M) = 3.617 DESIGNED BED LEVEL = 126.445 M



CUTTING AREA (SQ.M) = 0.362 CH. (KM):- 2+000

FILLING AREA (SQ.M) = 2.235 DESIGNED BED LEVEL = 126.388 M

LEGEND

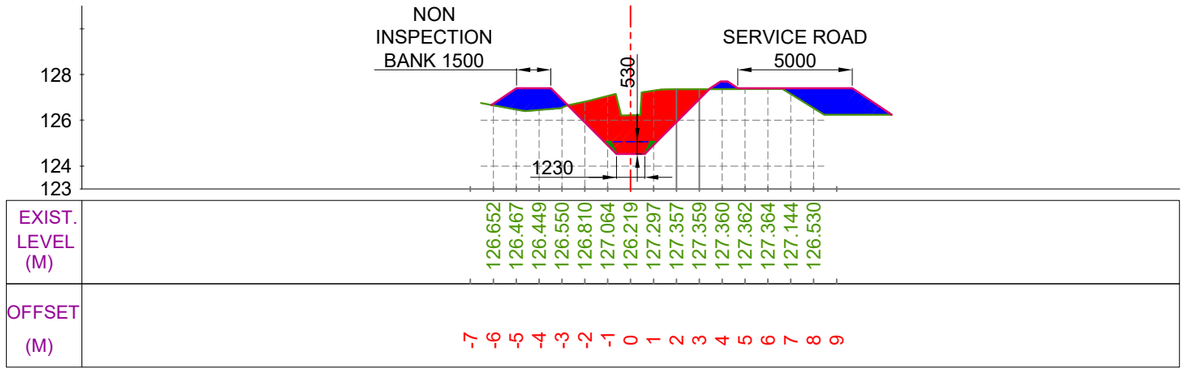
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

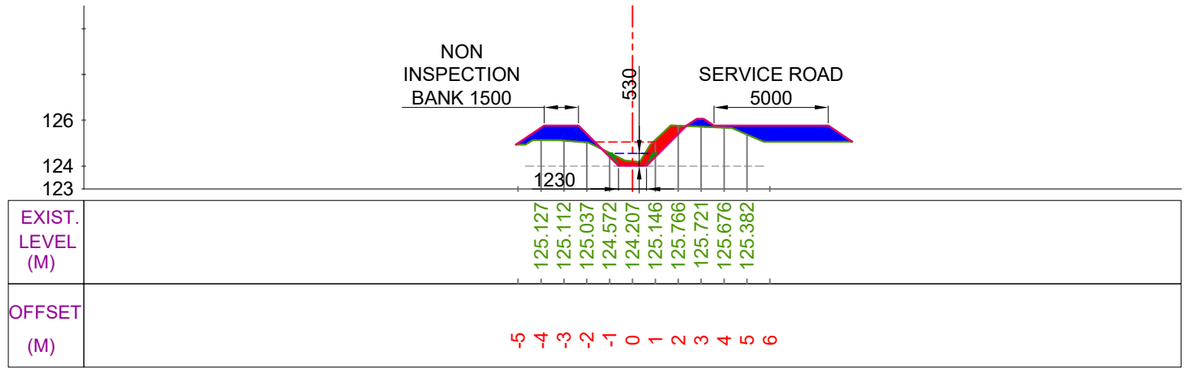
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 5 of 10

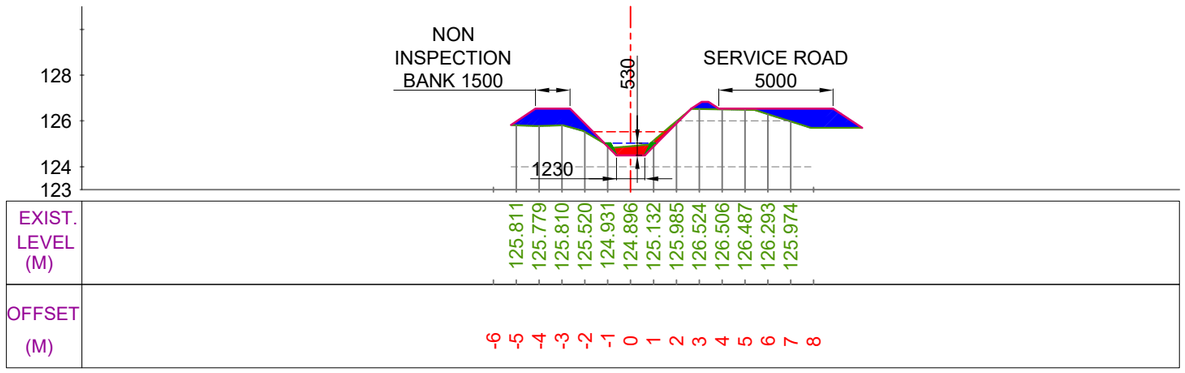
X SECTION OF NARCHI MINOR



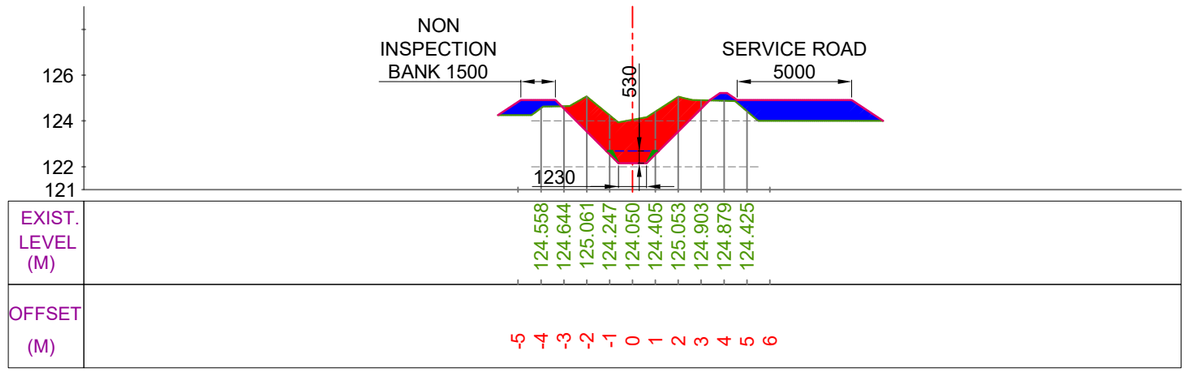
CUTTING AREA (SQ.M) = 8.893 CH. (KM):- 2+100
FILLING AREA (SQ.M) = 6.138 DESIGNED BED LEVEL = 124.530 M



CUTTING AREA (SQ.M) = 1.325 CH. (KM):- 2+300
FILLING AREA (SQ.M) = 4.869 DESIGNED BED LEVEL = 124.016 M



CUTTING AREA (SQ.M) = 0.768 CH. (KM):- 2+200
FILLING AREA (SQ.M) = 4.861 DESIGNED BED LEVEL = 124.501 M



CUTTING AREA (SQ.M) = 8.645 CH. (KM):- 2+400
FILLING AREA (SQ.M) = 6.191 DESIGNED BED LEVEL = 122.158 M

LEGEND

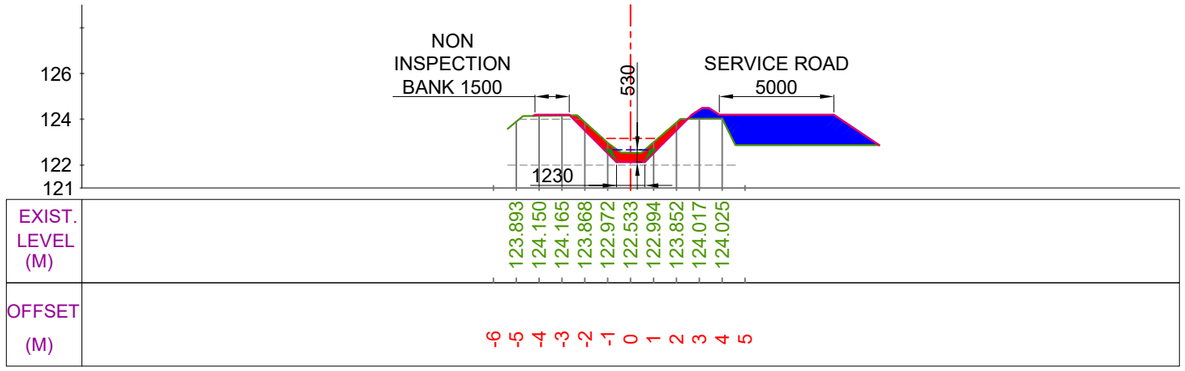
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

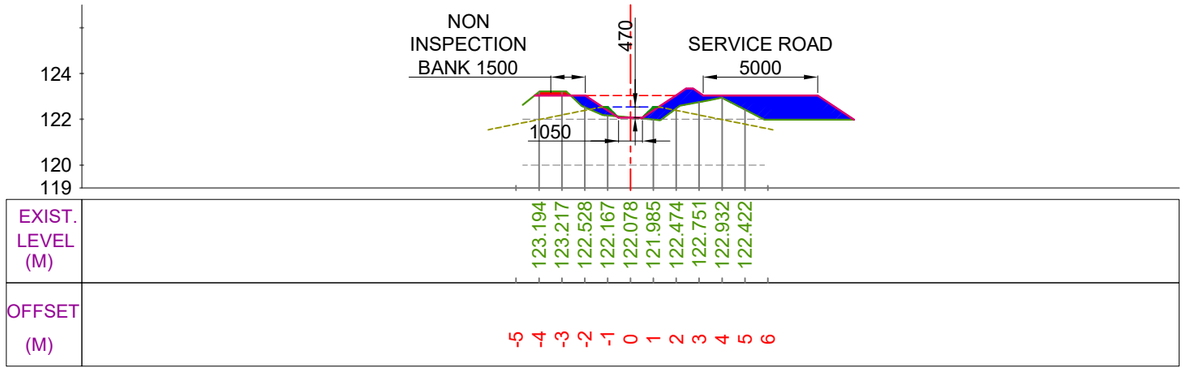
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 6 of 10

X SECTION OF NARCHI MINOR



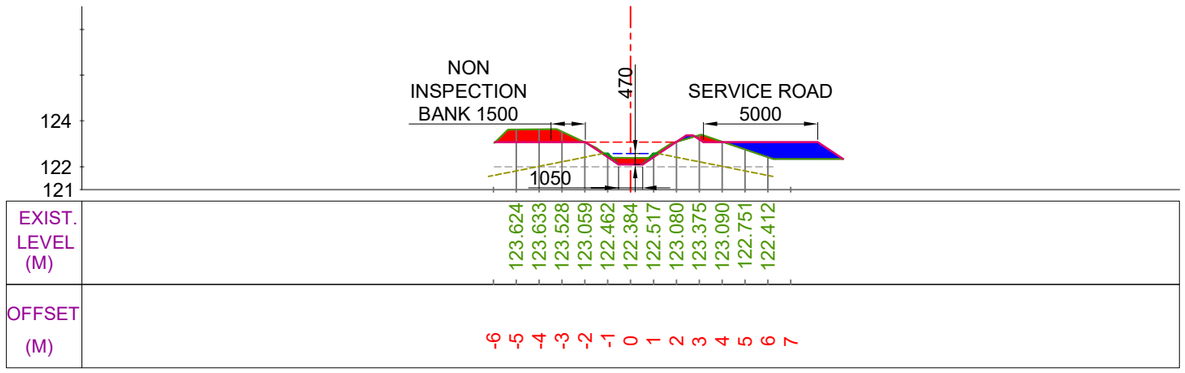
CUTTING AREA (SQ.M) = 1.856
FILLING AREA (SQ.M) = 7.952

CH. (KM):- 2+500
DESIGNED BED LEVEL = 122.130 M



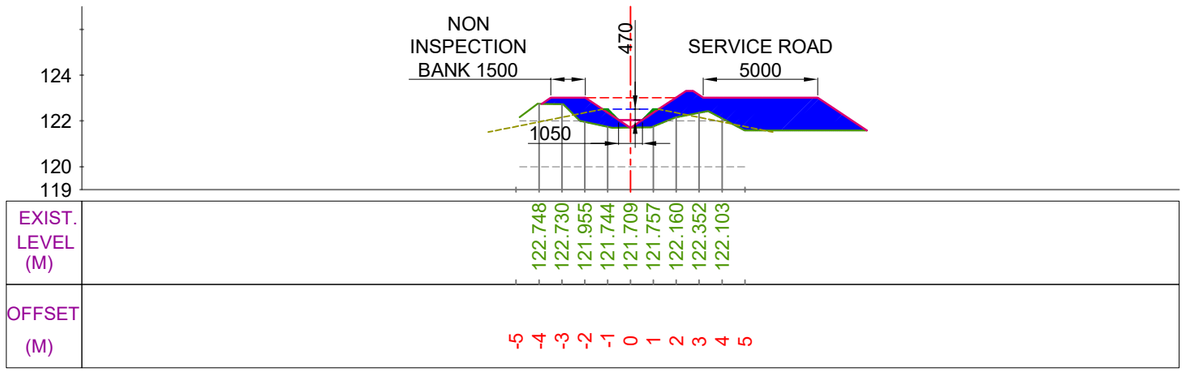
CUTTING AREA (SQ.M) = 0.256
FILLING AREA (SQ.M) = 6.495

CH. (KM):- 2+700
DESIGNED BED LEVEL = 122.071 M



CUTTING AREA (SQ.M) = 2.352
FILLING AREA (SQ.M) = 2.723

CH. (KM):- 2+600
DESIGNED BED LEVEL = 122.101 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 12.035

CH. (KM):- 2+800
DESIGNED BED LEVEL = 122.042 M

LEGEND

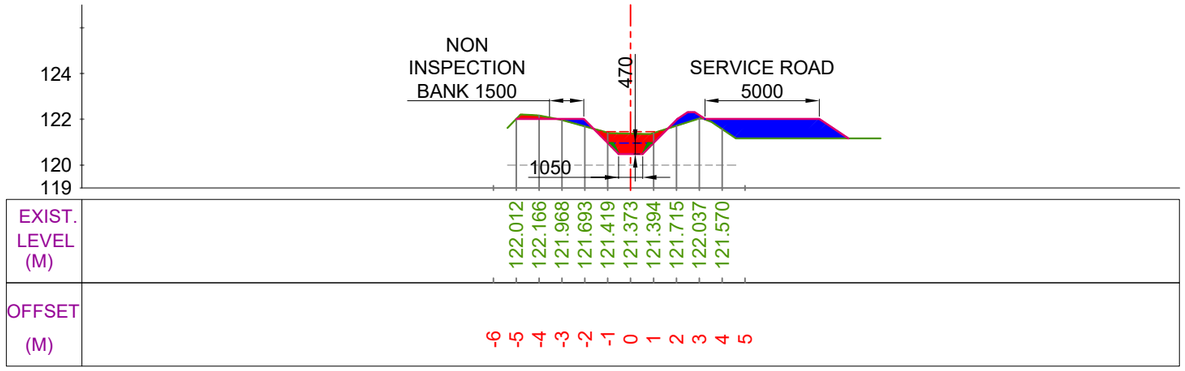
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

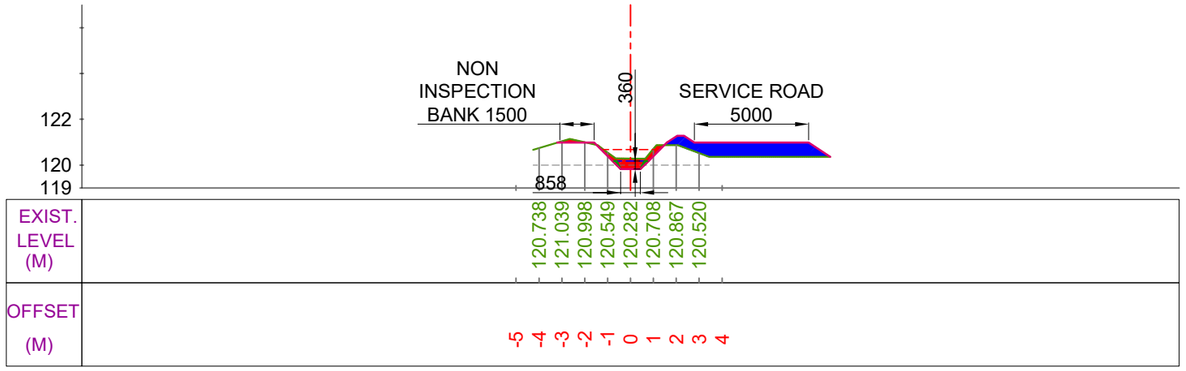
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 7 of 10

X SECTION OF NARCHI MINOR



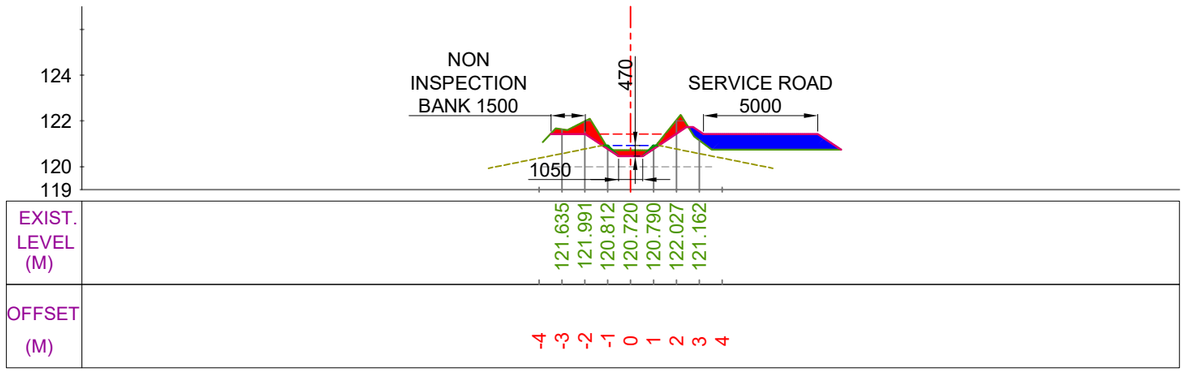
CUTTING AREA (SQ.M) = 1.944
FILLING AREA (SQ.M) = 4.787

CH. (KM):- 2+900
DESIGNED BED LEVEL = 120.488 M



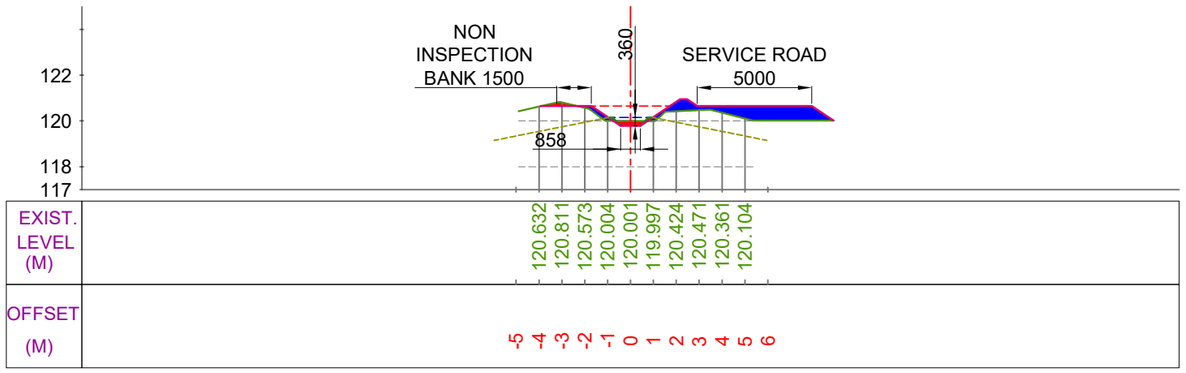
CUTTING AREA (SQ.M) = 0.909
FILLING AREA (SQ.M) = 3.799

CH. (KM):- 3+100
DESIGNED BED LEVEL = 119.820 M



CUTTING AREA (SQ.M) = 1.738
FILLING AREA (SQ.M) = 3.889

CH. (KM):- 3+000
DESIGNED BED LEVEL = 120.459 M



CUTTING AREA (SQ.M) = 0.374
FILLING AREA (SQ.M) = 3.616

CH. (KM):- 3+200
DESIGNED BED LEVEL = 119.790 M

LEGEND

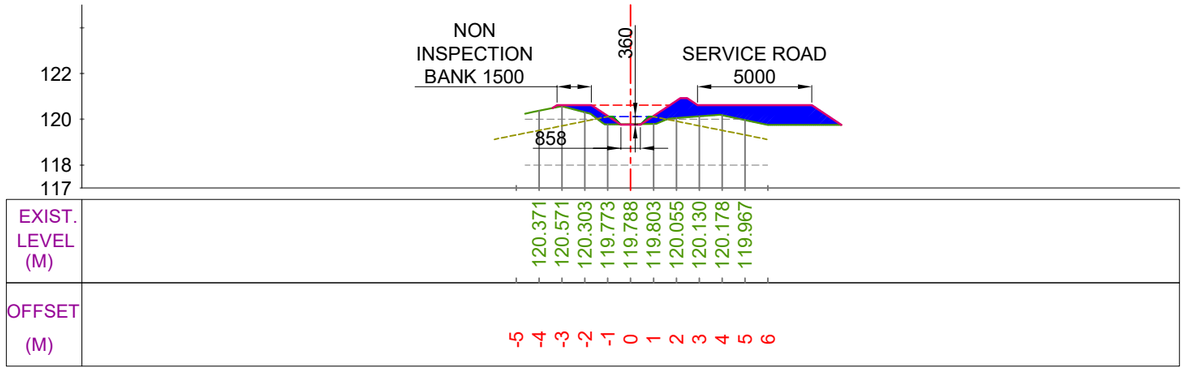
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

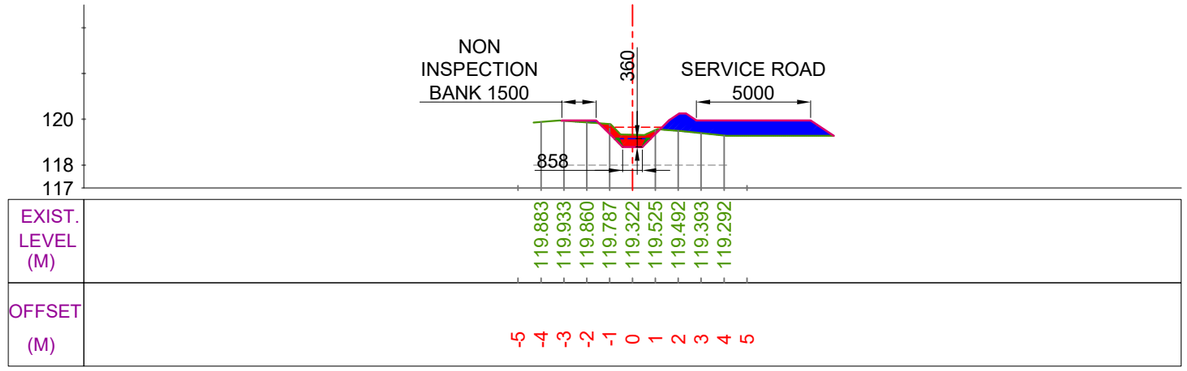
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 8 of 10

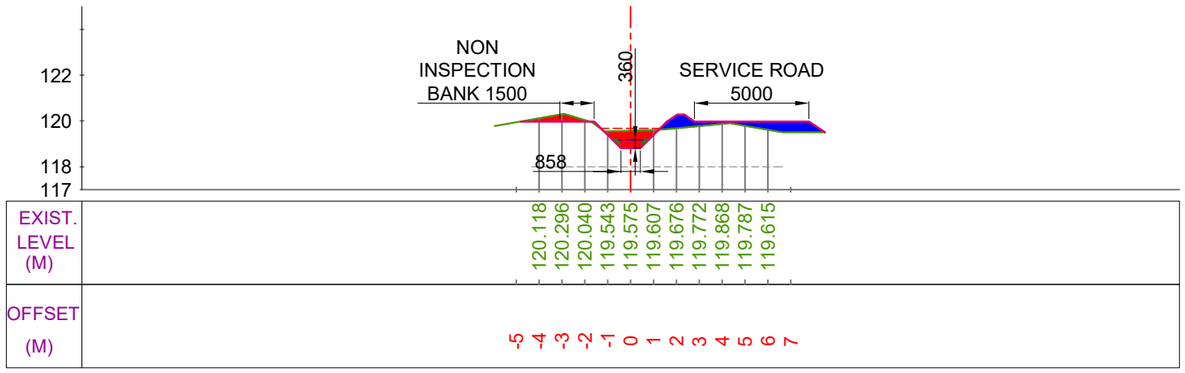
X SECTION OF NARCHI MINOR



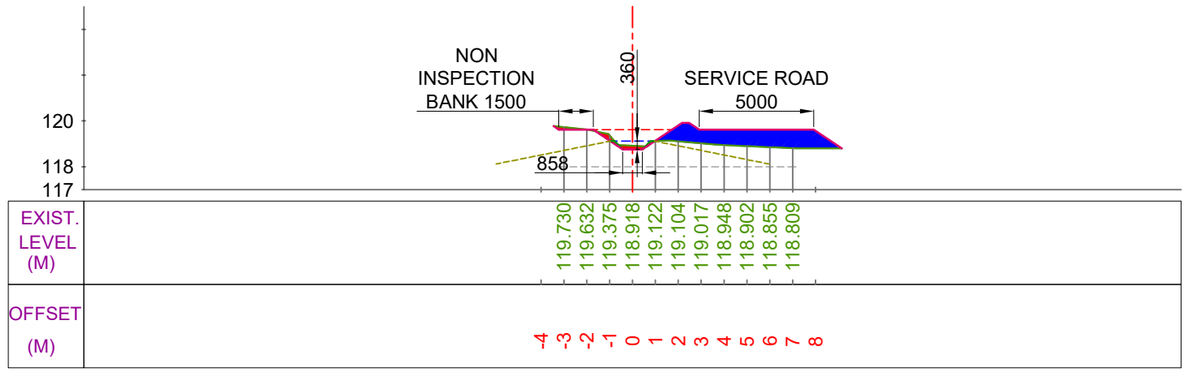
CUTTING AREA (SQ.M) = 0.024 CH. (KM):- 3+300
FILLING AREA (SQ.M) = 6.034 DESIGNED BED LEVEL = 119.761 M



CUTTING AREA (SQ.M) = 0.963 CH. (KM):- 3+500
FILLING AREA (SQ.M) = 4.564 DESIGNED BED LEVEL = 118.788 M



CUTTING AREA (SQ.M) = 1.665 CH. (KM):- 3+400
FILLING AREA (SQ.M) = 2.228 DESIGNED BED LEVEL = 118.817 M



CUTTING AREA (SQ.M) = 0.379 CH. (KM):- 3+600
FILLING AREA (SQ.M) = 5.222 DESIGNED BED LEVEL = 118.759 M

LEGEND

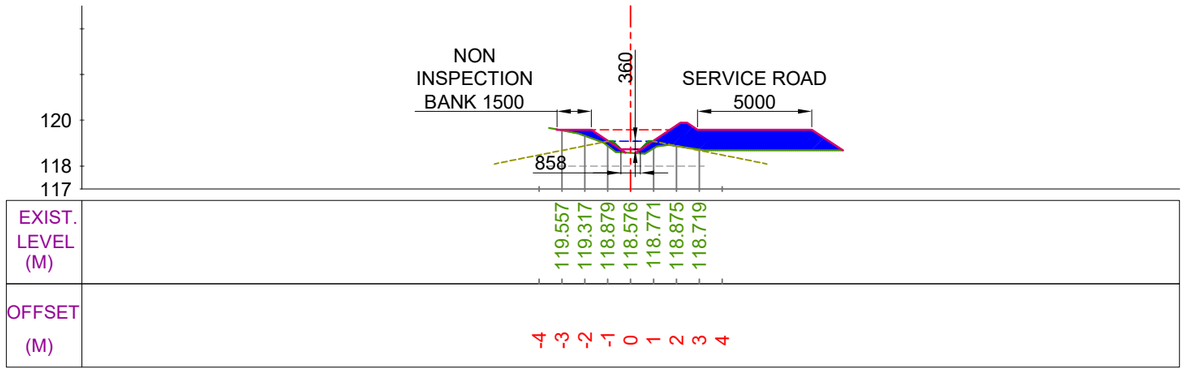
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 9 of 10

X SECTION OF NARCHI MINOR

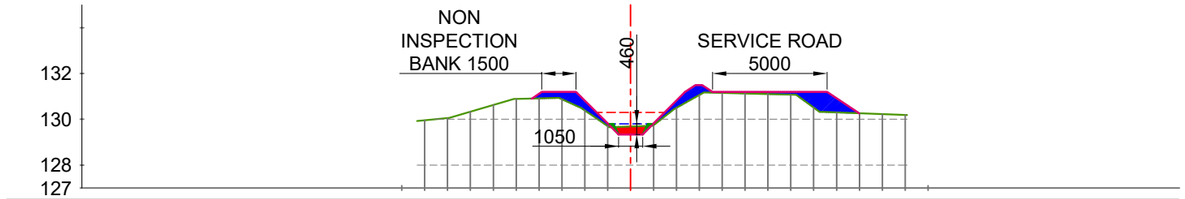


CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+700

FILLING AREA (SQ.M) = 7.369 DESIGNED BED LEVEL = 118.729 M

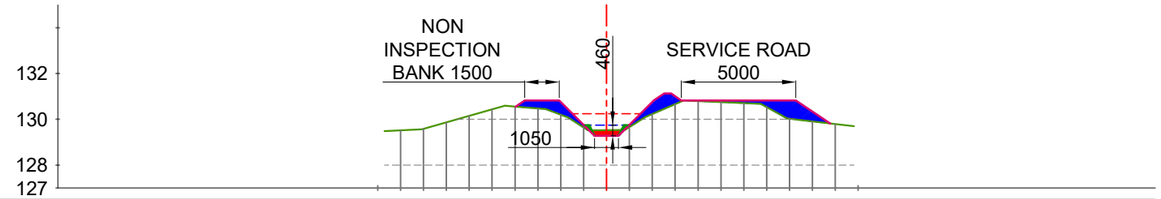
LEGEND			Prepared by :-		
	CUT AREA	EXISTING BED LINE	WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
		F.S.L.		Drawing Title :-	X SEC OF NARCHI MINOR (OFFTAKE FROM RD - 2+860 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	FILL AREA	DESIGNED BED LINE		Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ XSEC- 10 of 10
		H.G. LINE			

X SECTION OF BHAHUARA MINOR



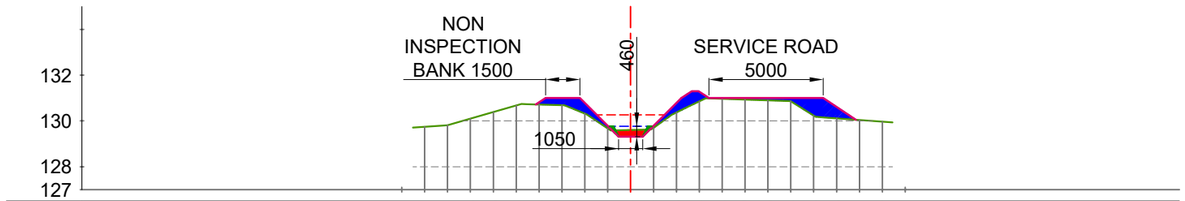
EXIST. LEVEL (M)	129.960	130.055	130.333	130.624	130.889	130.912	130.871	130.387	129.701	129.688	129.731	130.495	131.056	131.152	131.127	131.101	131.076	130.512	130.297	130.260	130.222	130.185			
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	

CUTTING AREA (SQ.M) = 0.432 CH. (KM):- 0+100
FILLING AREA (SQ.M) = 3.530 DESIGNED BED LEVEL = 129.336 M



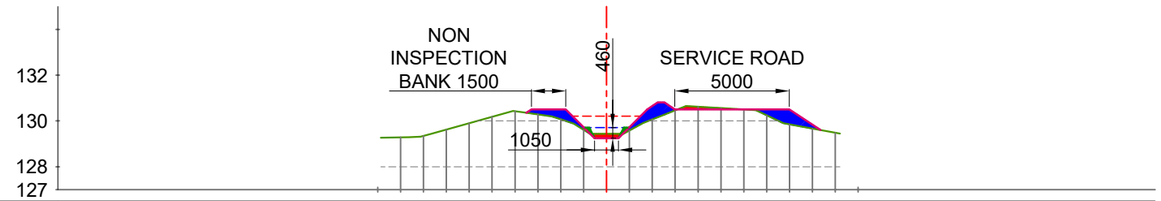
EXIST. LEVEL (M)	129.517	129.581	129.864	130.148	130.431	130.554	130.473	130.201	129.638	129.523	129.655	130.225	130.661	130.794	130.750	130.706	130.531	130.027	129.908	129.789					
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11			

CUTTING AREA (SQ.M) = 0.286 CH. (KM):- 0+300
FILLING AREA (SQ.M) = 3.687 DESIGNED BED LEVEL = 129.279 M



EXIST. LEVEL (M)	129.742	129.811	130.098	130.385	130.672	130.718	130.691	130.322	129.671	129.606	129.700	130.365	130.856	130.973	130.939	130.905	130.863	130.228	130.115	130.042	129.970				
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) = 0.357 CH. (KM):- 0+200
FILLING AREA (SQ.M) = 3.546 DESIGNED BED LEVEL = 129.308 M



EXIST. LEVEL (M)	129.285	129.344	129.624	129.905	130.185	130.428	130.287	130.070	129.614	129.440	129.583	130.070	130.462	130.617	130.561	130.505	130.246	129.848	129.666	129.484					
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) = 0.408 CH. (KM):- 0+400
FILLING AREA (SQ.M) = 2.594 DESIGNED BED LEVEL = 129.250 M

LEGEND

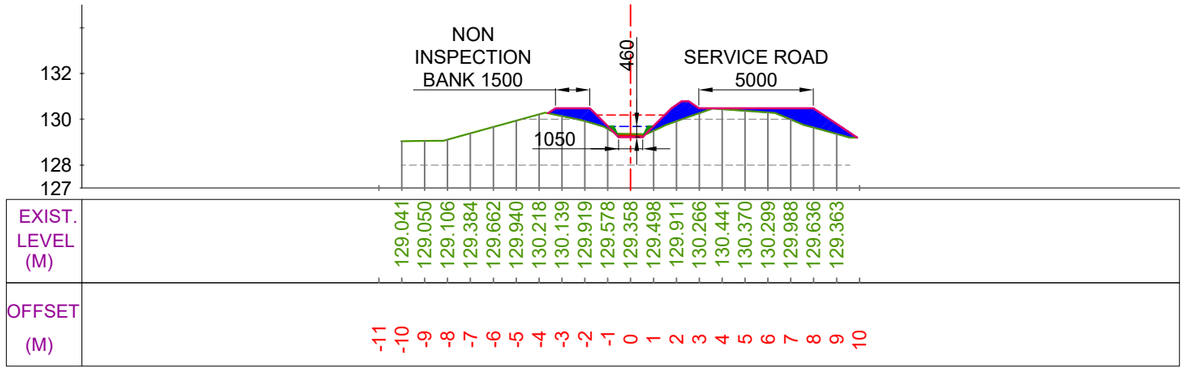
CUT AREA	EXISTING BED LINE	F.S.L.	
FILL AREA	DESIGNED BED LINE	H.G. LINE	

Prepared by :-

WAPCOS LTD.

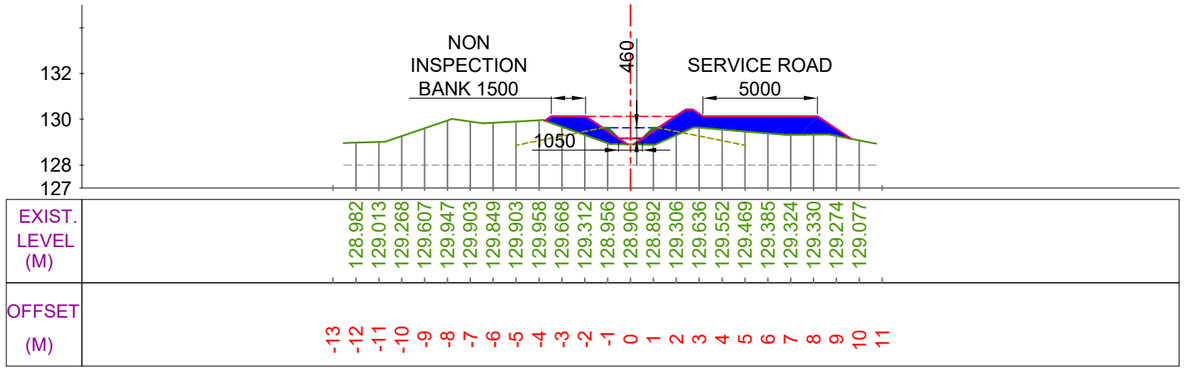
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 1 of 7

X SECTION OF BHAHUARA MINOR



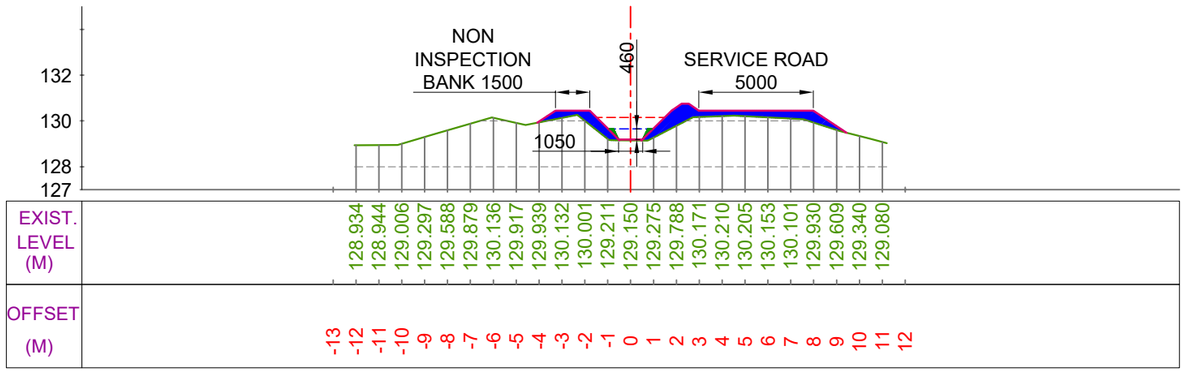
CUTTING AREA (SQ.M) = 0.151 CH. (KM):- 0+500

FILLING AREA (SQ.M) = 4.270 DESIGNED BED LEVEL = 129.222 M



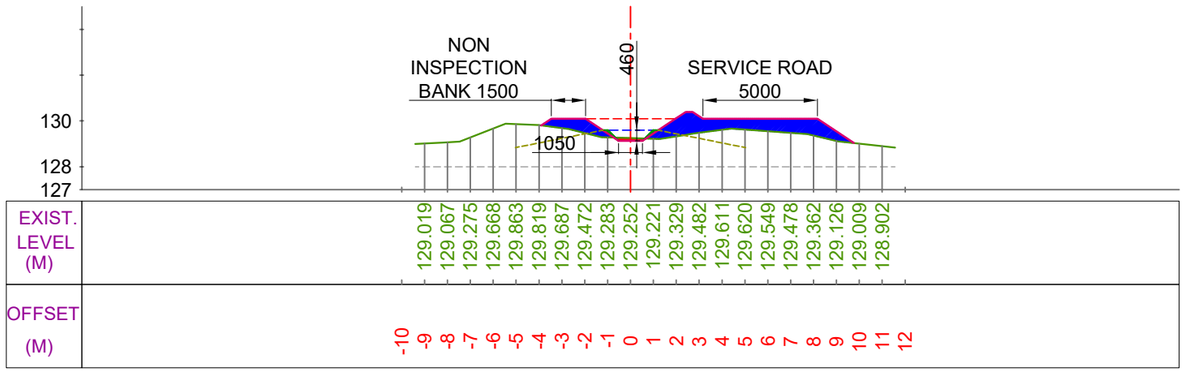
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 0+700

FILLING AREA (SQ.M) = 7.673 DESIGNED BED LEVEL = 129.165 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 0+600

FILLING AREA (SQ.M) = 4.457 DESIGNED BED LEVEL = 129.193 M



CUTTING AREA (SQ.M) = 0.135 CH. (KM):- 0+800

FILLING AREA (SQ.M) = 6.228 DESIGNED BED LEVEL = 129.136 M

LEGEND

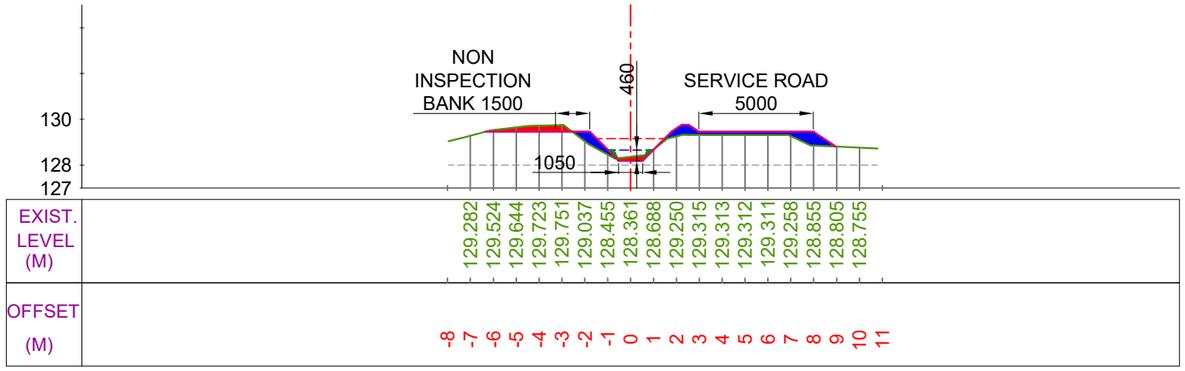
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

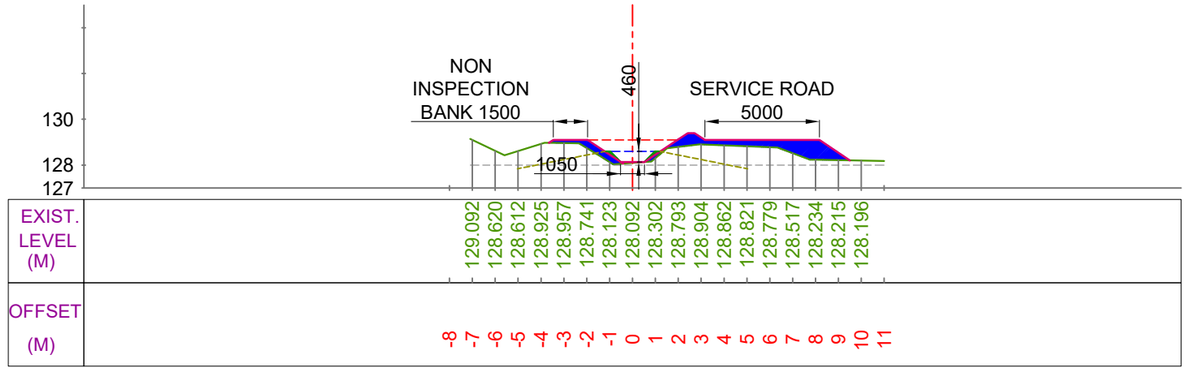
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 2 of 7

X SECTION OF BHAHUARA MINOR



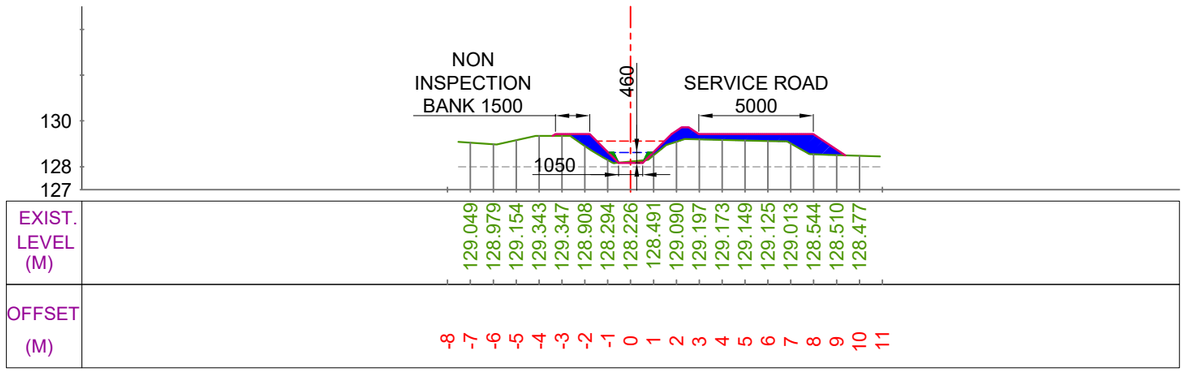
CUTTING AREA (SQ.M) = 0.937 CH. (KM):- 0+900

FILLING AREA (SQ.M) = 2.333 DESIGNED BED LEVEL = 128.194 M



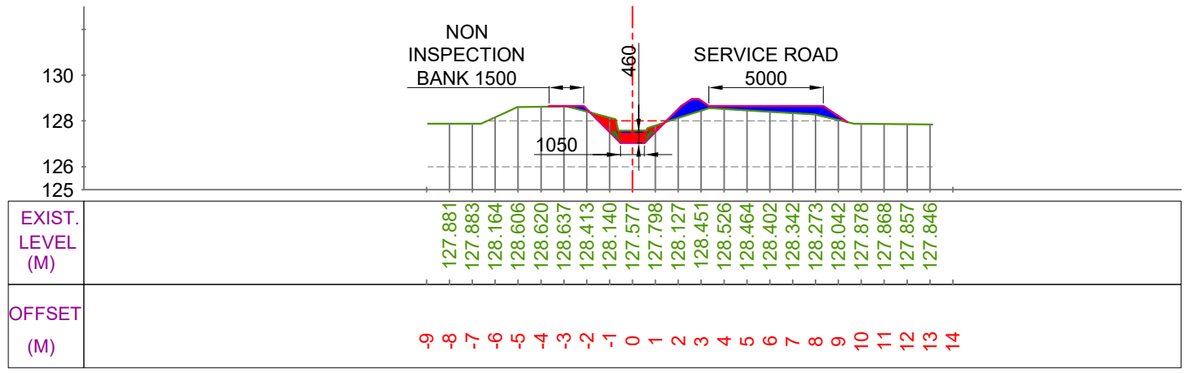
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 1+100

FILLING AREA (SQ.M) = 4.045 DESIGNED BED LEVEL = 128.136 M



CUTTING AREA (SQ.M) = 0.067 CH. (KM):- 1+000

FILLING AREA (SQ.M) = 4.035 DESIGNED BED LEVEL = 128.165 M



CUTTING AREA (SQ.M) = 1.296 CH. (KM):- 1+200

FILLING AREA (SQ.M) = 2.333 DESIGNED BED LEVEL = 127.041 M

LEGEND

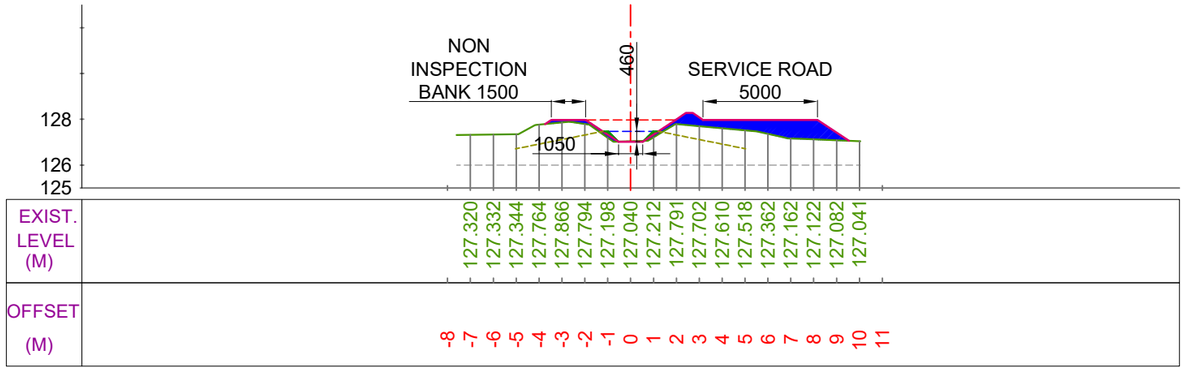
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

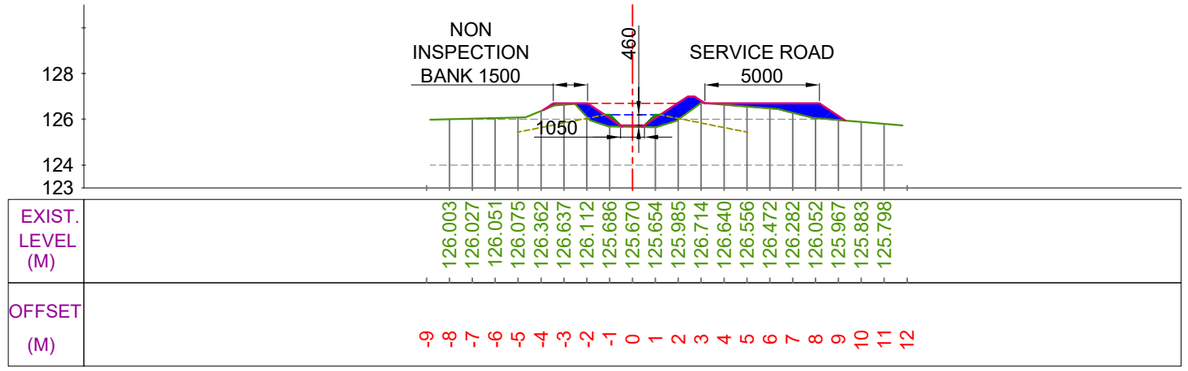
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 3 of 7

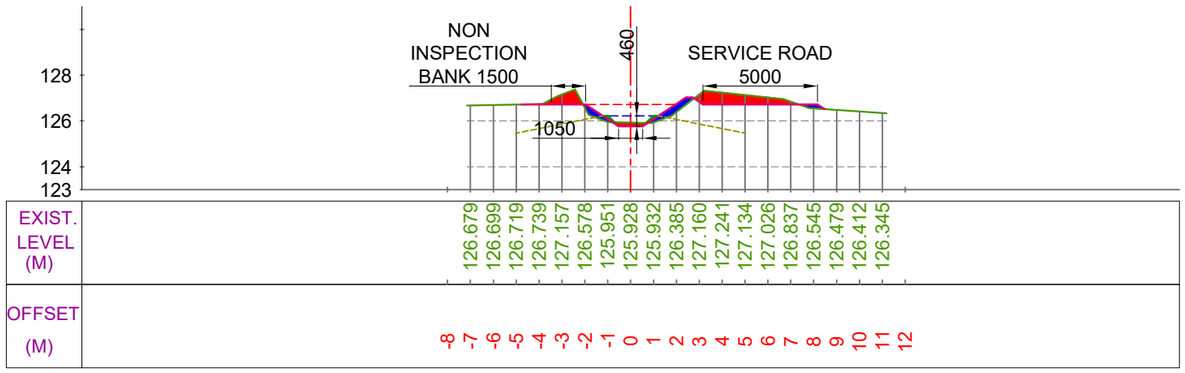
X SECTION OF BHAHUARA MINOR



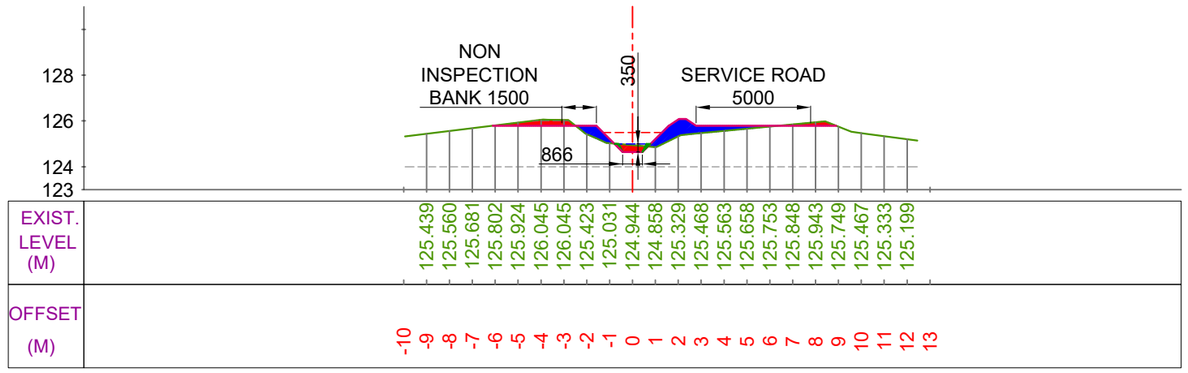
CUTTING AREA (SQ.M) = 0.030 CH. (KM):- 1+300
FILLING AREA (SQ.M) = 4.517 DESIGNED BED LEVEL = 127.012 M



CUTTING AREA (SQ.M) = 0.001 CH. (KM):- 1+500
FILLING AREA (SQ.M) = 3.752 DESIGNED BED LEVEL = 125.735 M



CUTTING AREA (SQ.M) = 2.484 CH. (KM):- 1+400
FILLING AREA (SQ.M) = 0.920 DESIGNED BED LEVEL = 125.764 M



CUTTING AREA (SQ.M) = 1.172 CH. (KM):- 1+600
FILLING AREA (SQ.M) = 2.261 DESIGNED BED LEVEL = 124.640 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

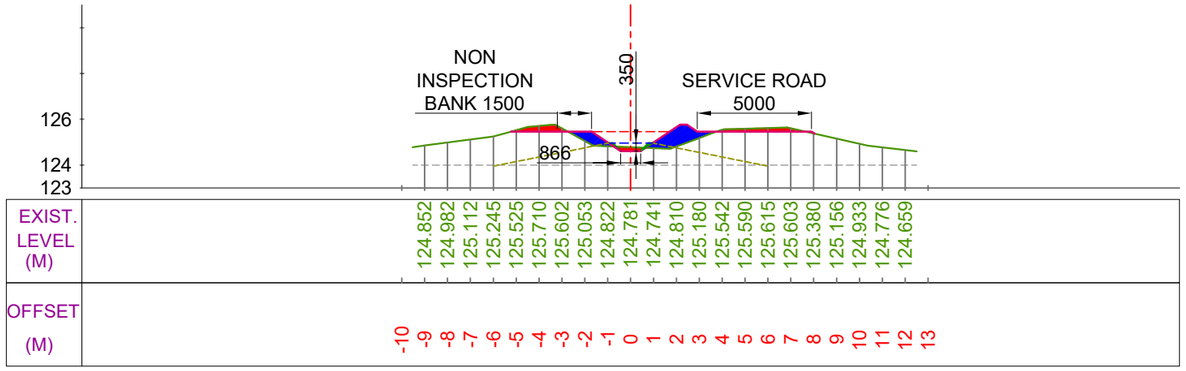
H.G. LINE

Prepared by :-

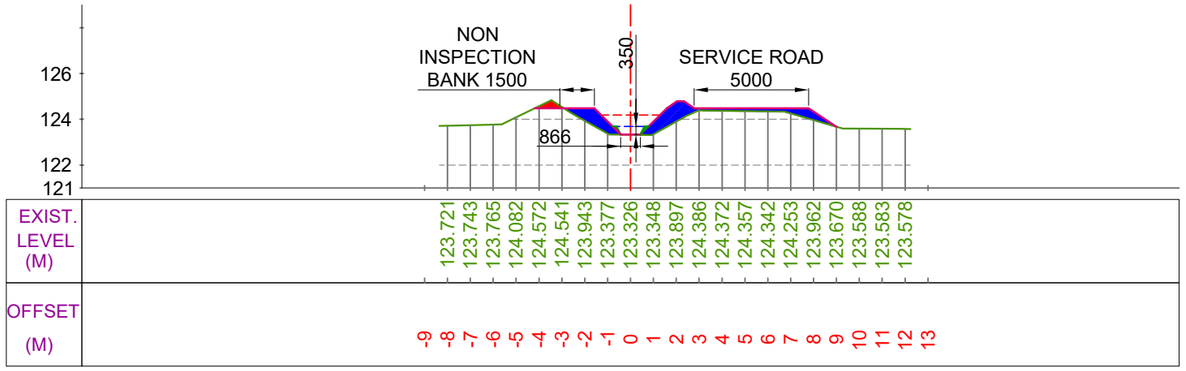
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 4 of 7

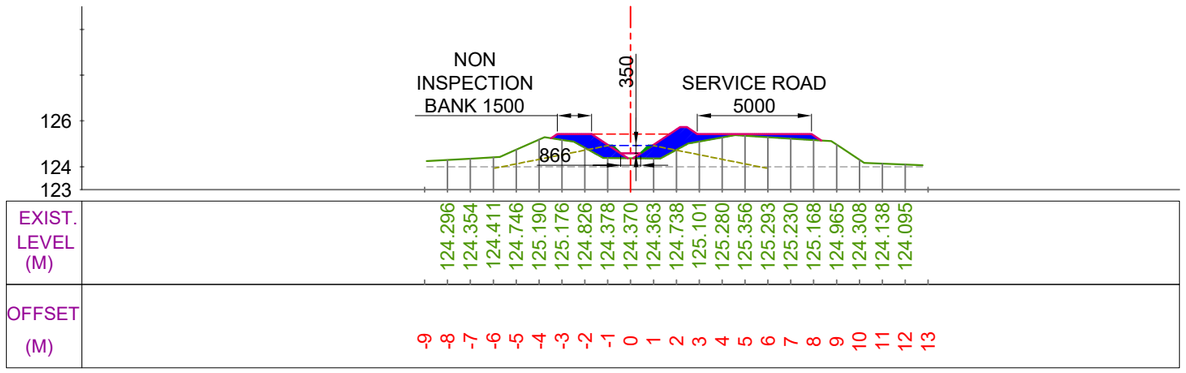
X SECTION OF BHAHUARA MINOR



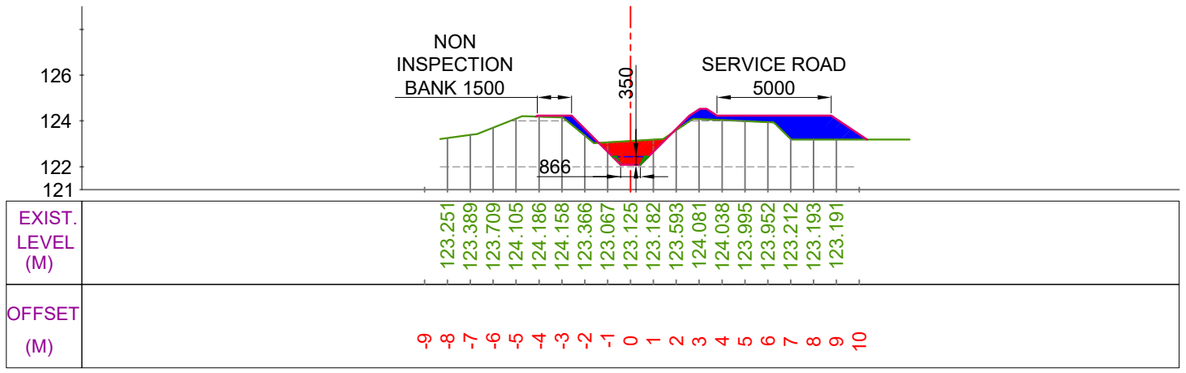
CUTTING AREA (SQ.M) = 1.121 CH. (KM):- 1+700
FILLING AREA (SQ.M) = 2.004 DESIGNED BED LEVEL = 124.611 M



CUTTING AREA (SQ.M) = 0.223 CH. (KM):- 1+900
FILLING AREA (SQ.M) = 3.548 DESIGNED BED LEVEL = 123.334 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 1+800
FILLING AREA (SQ.M) = 4.024 DESIGNED BED LEVEL = 124.582 M



CUTTING AREA (SQ.M) = 1.942 CH. (KM):- 2+000
FILLING AREA (SQ.M) = 4.687 DESIGNED BED LEVEL = 122.085 M

LEGEND

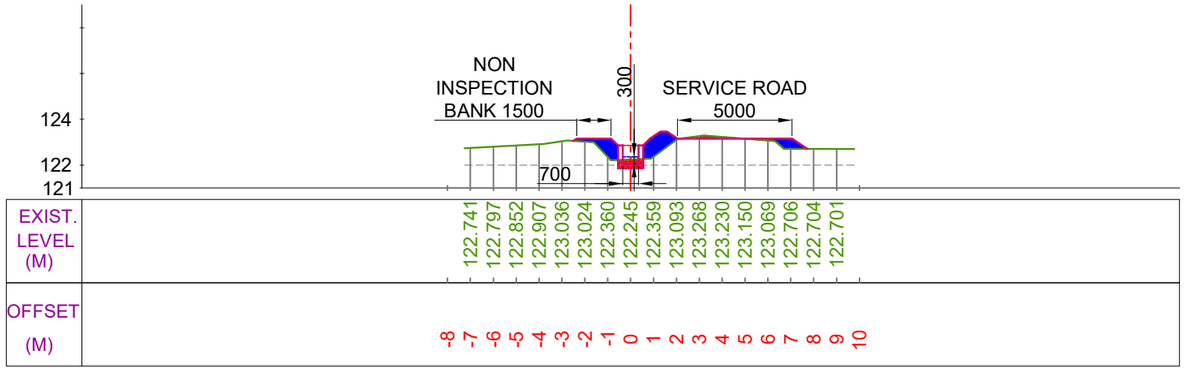
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

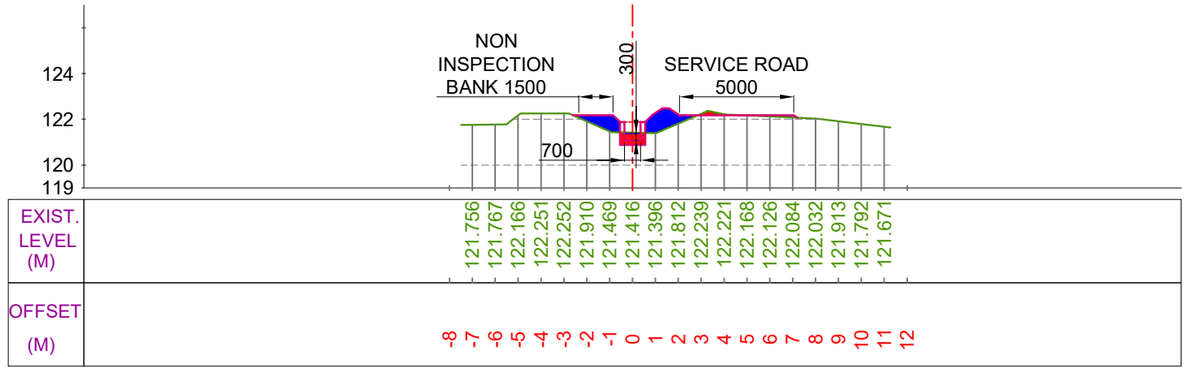
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 5 of 7

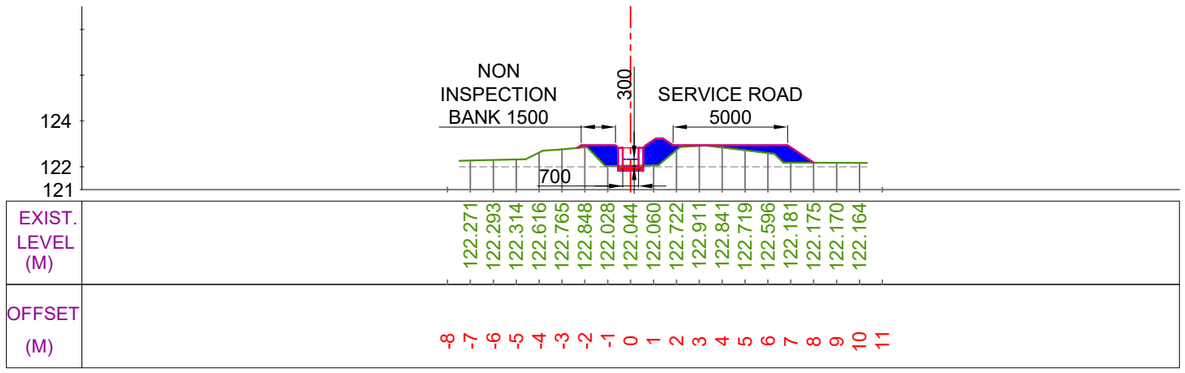
X SECTION OF BHAHUARA MINOR



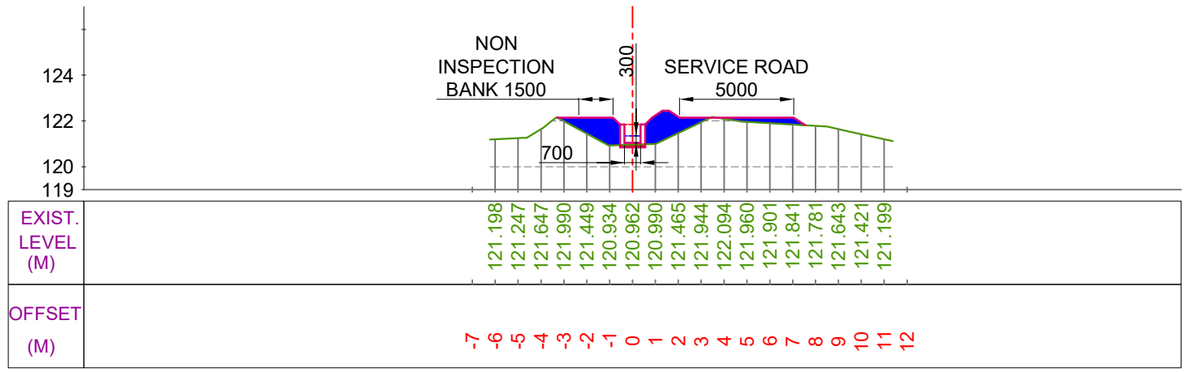
CUTTING AREA (SQ.M) = 0.616 CH. (KM):- 2+100
FILLING AREA (SQ.M) = 2.274 DESIGNED BED LEVEL = 122.057 M



CUTTING AREA (SQ.M) = 0.733 CH. (KM):- 2+300
FILLING AREA (SQ.M) = 2.228 DESIGNED BED LEVEL = 121.076 M



CUTTING AREA (SQ.M) = 0.243 CH. (KM):- 2+200
FILLING AREA (SQ.M) = 3.580 DESIGNED BED LEVEL = 122.023 M



CUTTING AREA (SQ.M) = 0.136 CH. (KM):- 2+400
FILLING AREA (SQ.M) = 4.710 DESIGNED BED LEVEL = 121.043 M

LEGEND

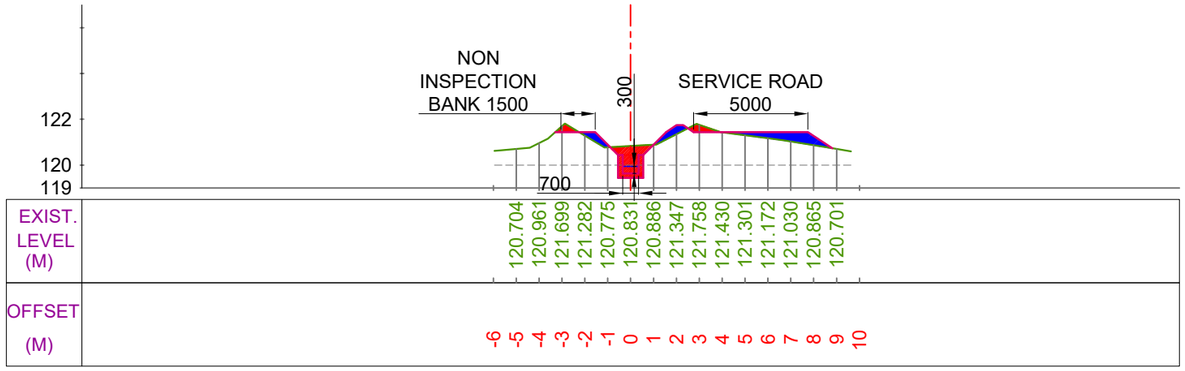
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

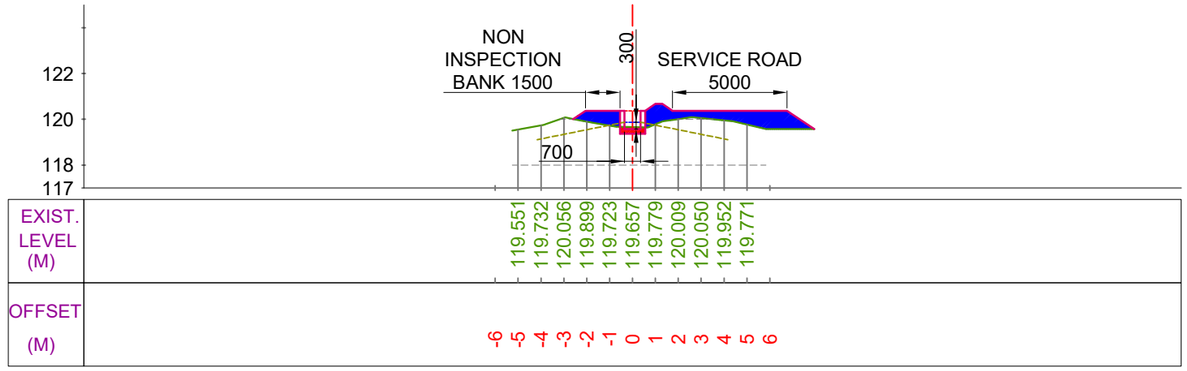
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 6 of 7

X SECTION OF BHAHUARA MINOR



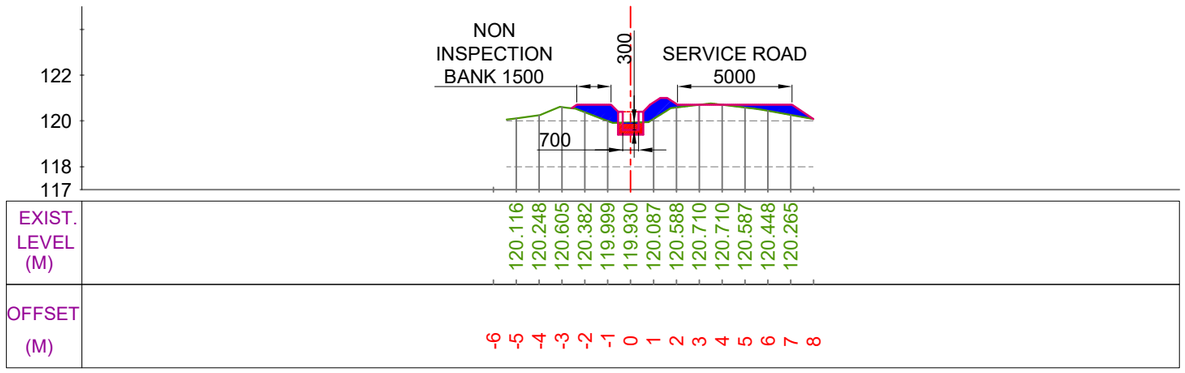
CUTTING AREA (SQ.M) = 2.152 CH. (KM):- 2+500

FILLING AREA (SQ.M) = 1.945 DESIGNED BED LEVEL = 119.638 M



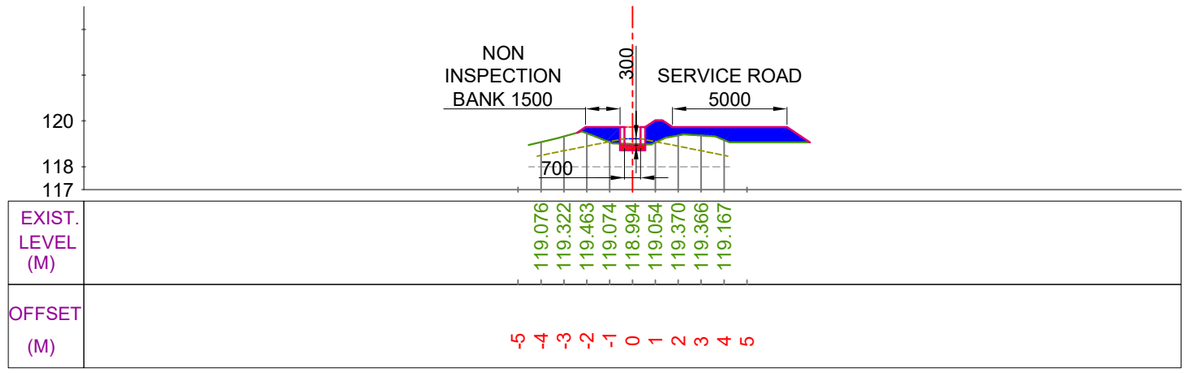
CUTTING AREA (SQ.M) = 0.313 CH. (KM):- 2+700

FILLING AREA (SQ.M) = 4.969 DESIGNED BED LEVEL = 119.572 M



CUTTING AREA (SQ.M) = 0.613 CH. (KM):- 2+600

FILLING AREA (SQ.M) = 2.626 DESIGNED BED LEVEL = 119.605 M



CUTTING AREA (SQ.M) = 0.293 CH. (KM):- 2+800

FILLING AREA (SQ.M) = 4.765 DESIGNED BED LEVEL = 118.928 M

LEGEND

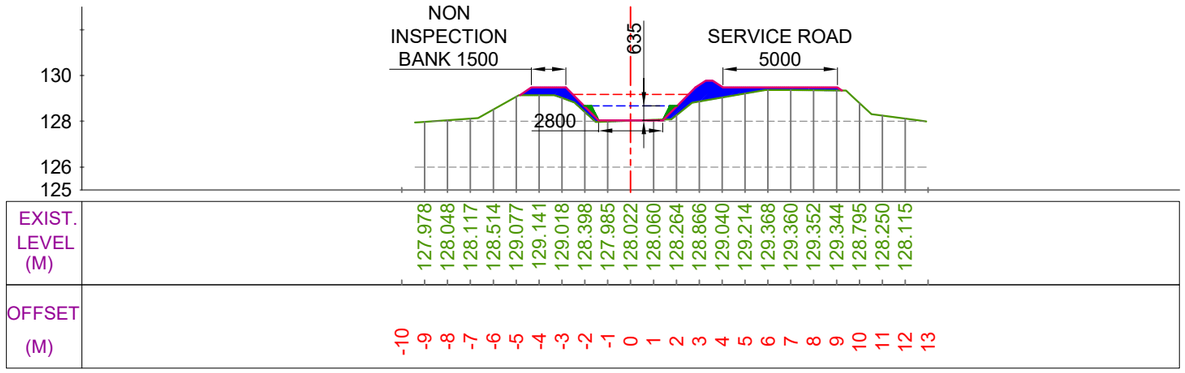
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

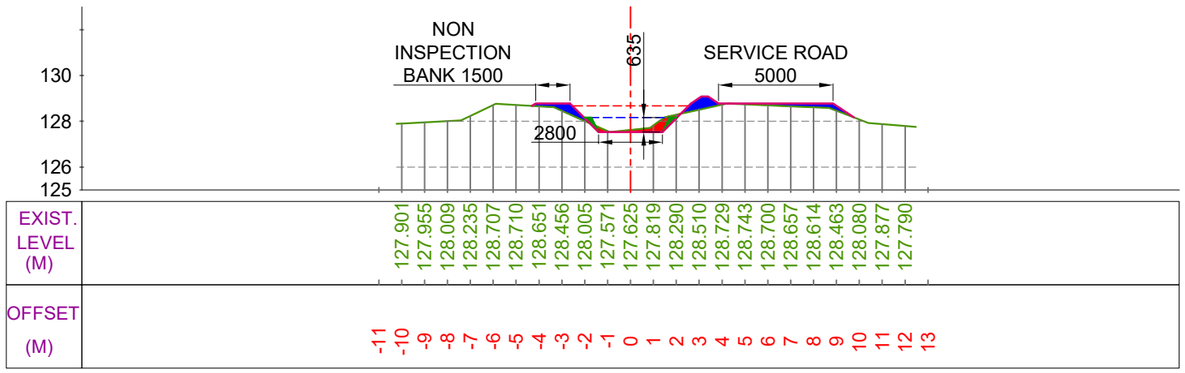
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF BHAHUARA MINOR (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ XSEC- 7 of 7

X SECTION OF YARI MINOR



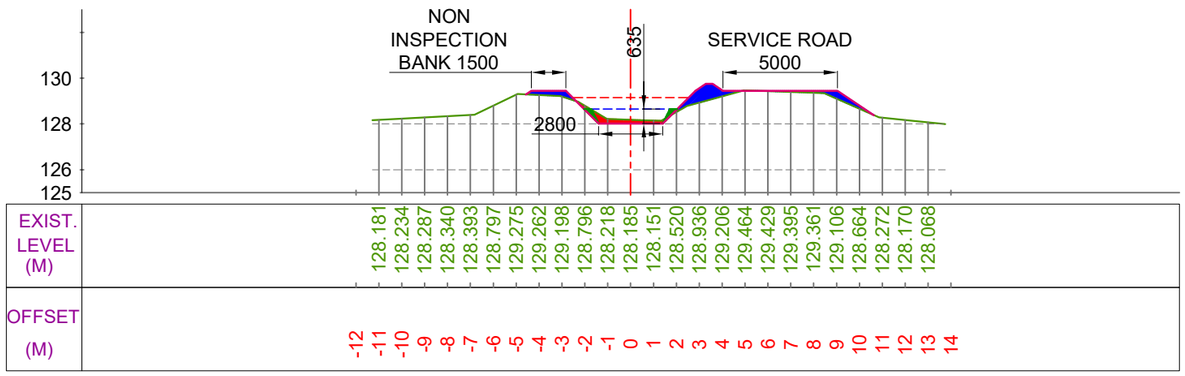
CUTTING AREA (SQ.M) = 0.016 CH. (KM):- 0+100

FILLING AREA (SQ.M) = 3.361 DESIGNED BED LEVEL = 128.040 M



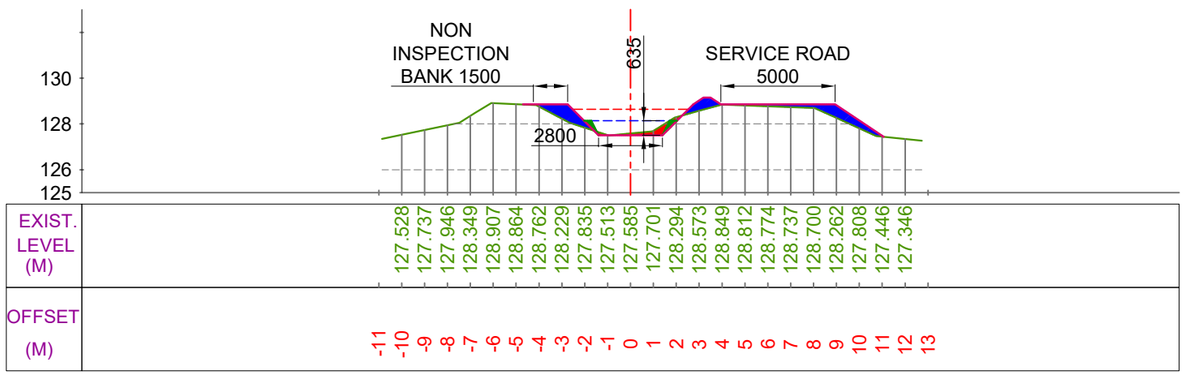
CUTTING AREA (SQ.M) = 0.577 CH. (KM):- 0+300

FILLING AREA (SQ.M) = 1.739 DESIGNED BED LEVEL = 127.533 M



CUTTING AREA (SQ.M) = 0.645 CH. (KM):- 0+200

FILLING AREA (SQ.M) = 2.050 DESIGNED BED LEVEL = 128.015 M



CUTTING AREA (SQ.M) = 0.431 CH. (KM):- 0+400

FILLING AREA (SQ.M) = 2.858 DESIGNED BED LEVEL = 127.508 M

LEGEND

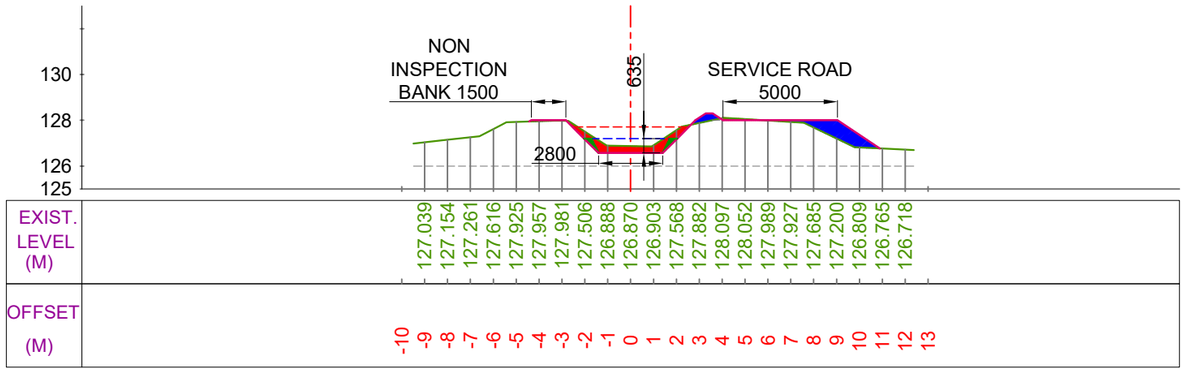
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

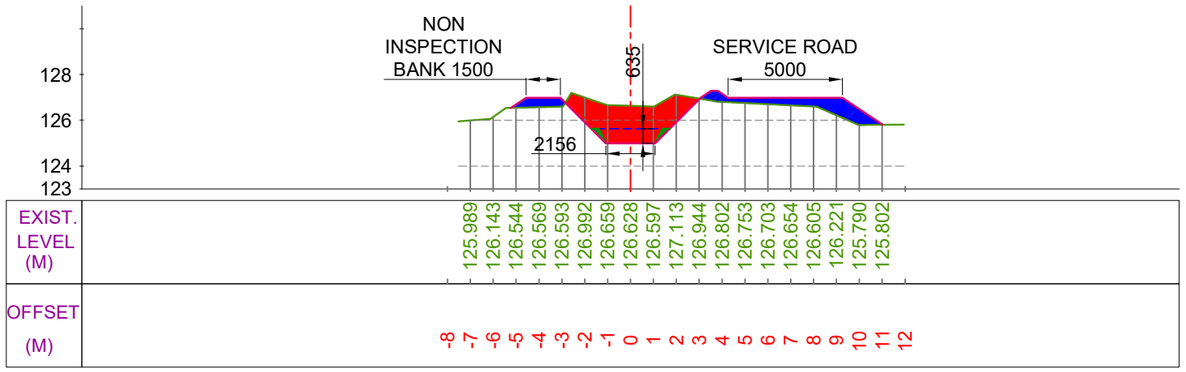
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 1 of 11

X SECTION OF YARI MINOR



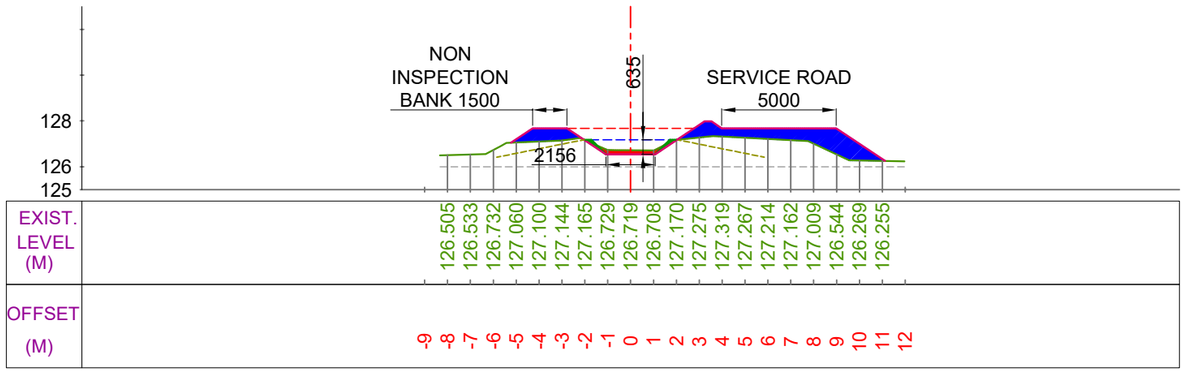
CUTTING AREA (SQ.M) = 1.726 CH. (KM):- 0+500

FILLING AREA (SQ.M) = 2.063 DESIGNED BED LEVEL = 126.569 M



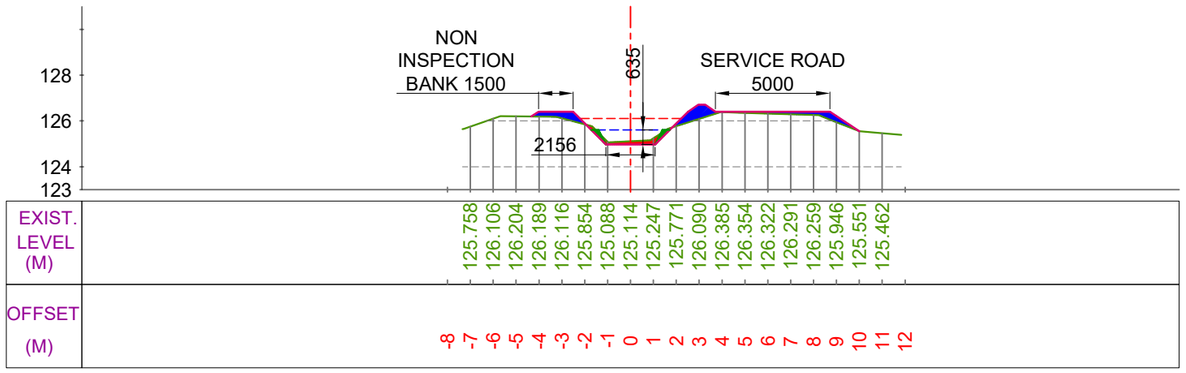
CUTTING AREA (SQ.M) = 7.133 CH. (KM):- 0+700

FILLING AREA (SQ.M) = 3.966 DESIGNED BED LEVEL = 124.995 M



CUTTING AREA (SQ.M) = 0.461 CH. (KM):- 0+600

FILLING AREA (SQ.M) = 6.277 DESIGNED BED LEVEL = 126.544 M



CUTTING AREA (SQ.M) = 0.439 CH. (KM):- 0+800

FILLING AREA (SQ.M) = 1.998 DESIGNED BED LEVEL = 124.970 M

LEGEND

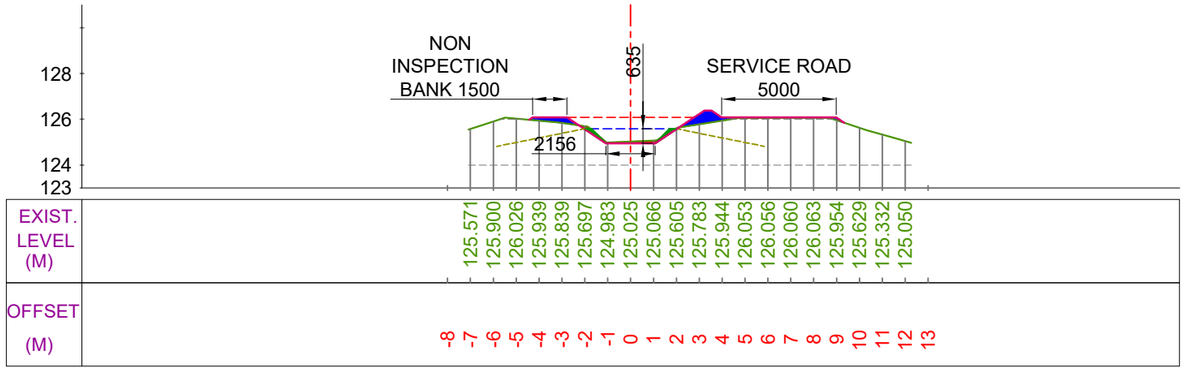
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

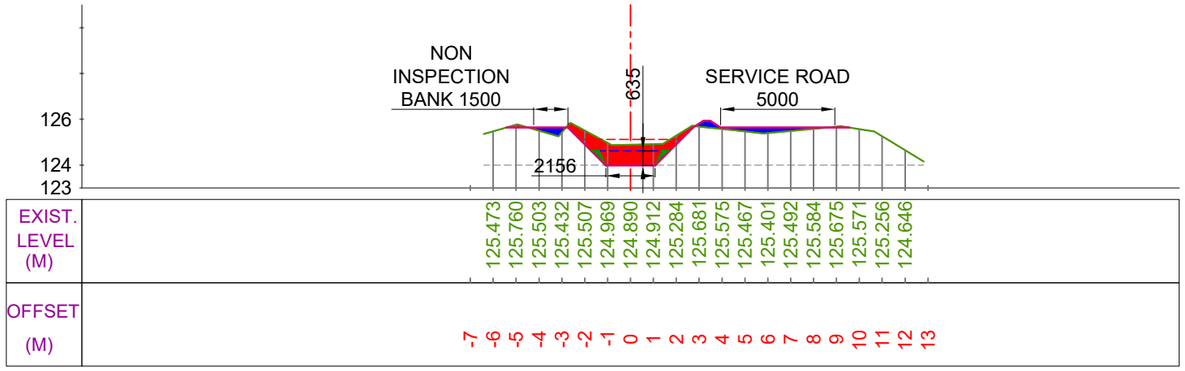
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 2 of 11

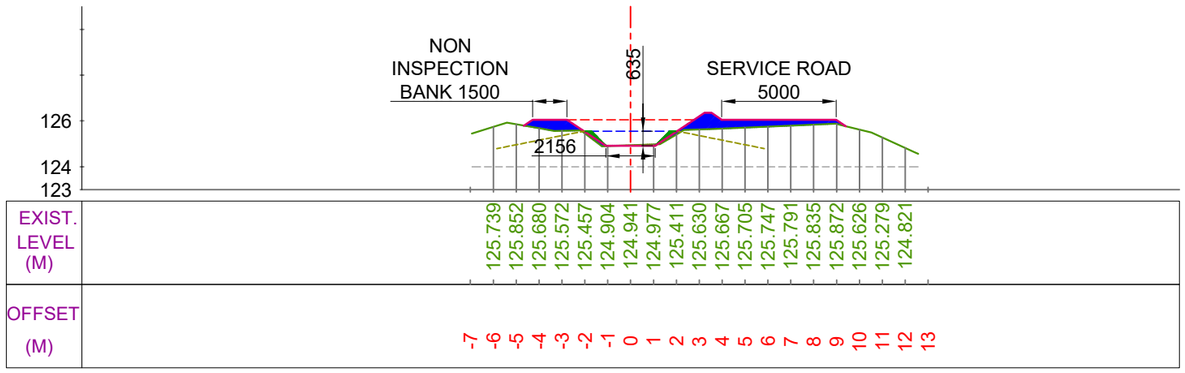
X SECTION OF YARI MINOR



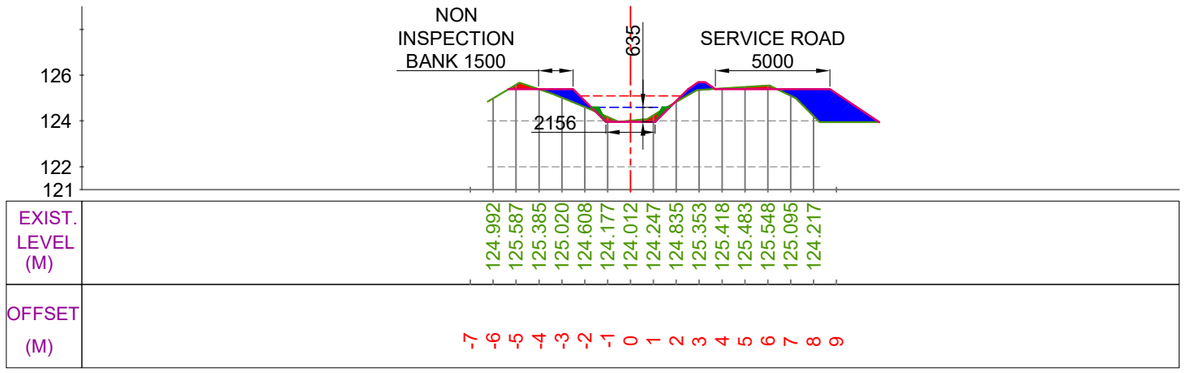
CUTTING AREA (SQ.M) = 0.237 CH. (KM):- 0+900
FILLING AREA (SQ.M) = 1.160 DESIGNED BED LEVEL = 124.945 M



CUTTING AREA (SQ.M) = 3.667 CH. (KM):- 1+100
FILLING AREA (SQ.M) = 1.174 DESIGNED BED LEVEL = 123.981 M



CUTTING AREA (SQ.M) = 0.052 CH. (KM):- 1+000
FILLING AREA (SQ.M) = 3.428 DESIGNED BED LEVEL = 124.920 M



CUTTING AREA (SQ.M) = 0.723 CH. (KM):- 1+200
FILLING AREA (SQ.M) = 4.389 DESIGNED BED LEVEL = 123.956 M

LEGEND

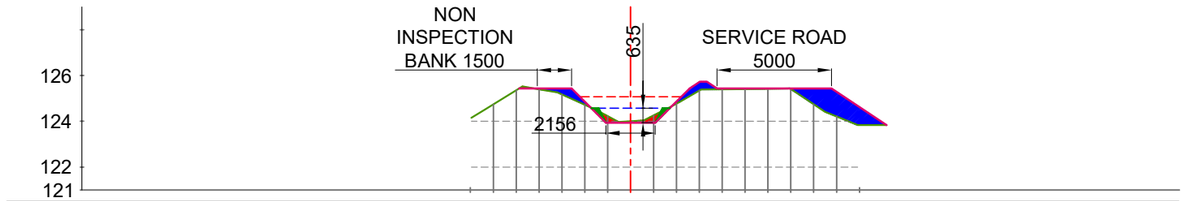
CUT AREA	EXISTING BED LINE
	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

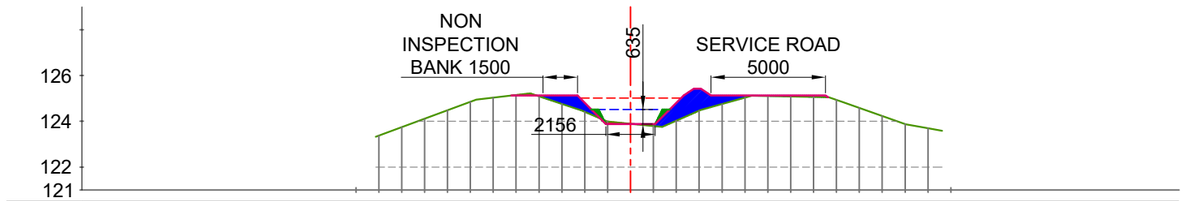
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 3 of 11

X SECTION OF YARI MINOR



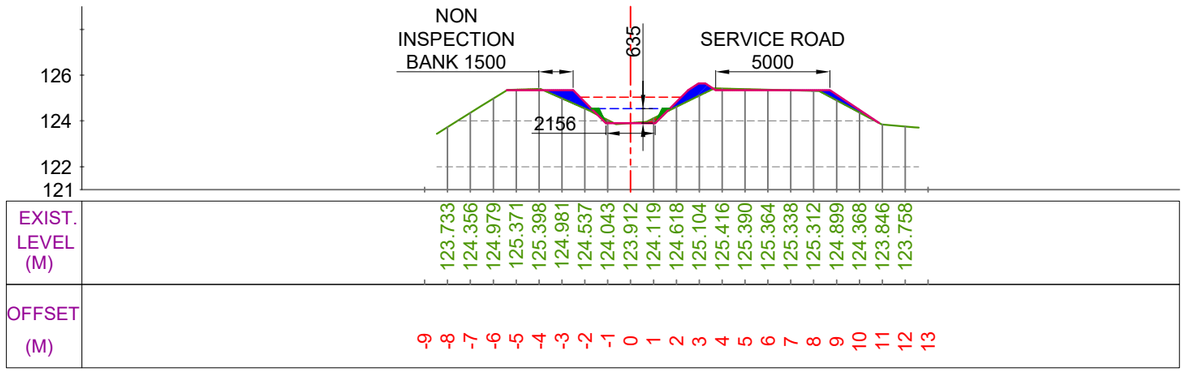
CUTTING AREA (SQ.M) = 0.413 CH. (KM):- 1+300

FILLING AREA (SQ.M) = 3.740 DESIGNED BED LEVEL = 123.931 M



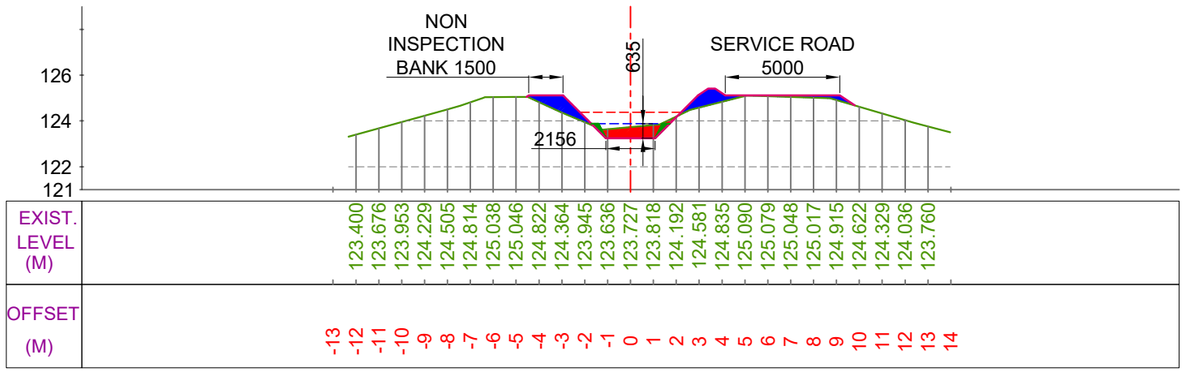
CUTTING AREA (SQ.M) = 0.130 CH. (KM):- 1+500

FILLING AREA (SQ.M) = 3.258 DESIGNED BED LEVEL = 123.881 M



CUTTING AREA (SQ.M) = 0.341 CH. (KM):- 1+400

FILLING AREA (SQ.M) = 1.754 DESIGNED BED LEVEL = 123.906 M



CUTTING AREA (SQ.M) = 1.223 CH. (KM):- 1+600

FILLING AREA (SQ.M) = 2.585 DESIGNED BED LEVEL = 123.246 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

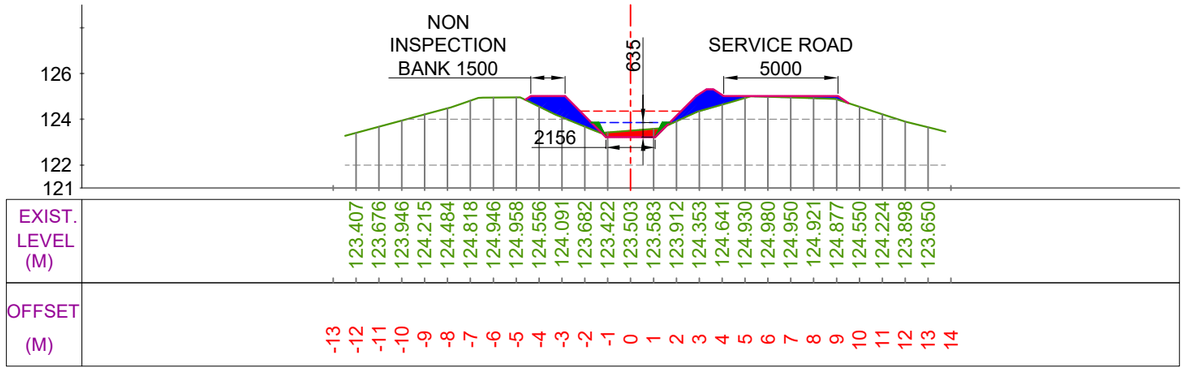
H.G. LINE

Prepared by :-

WAPCOS LTD.

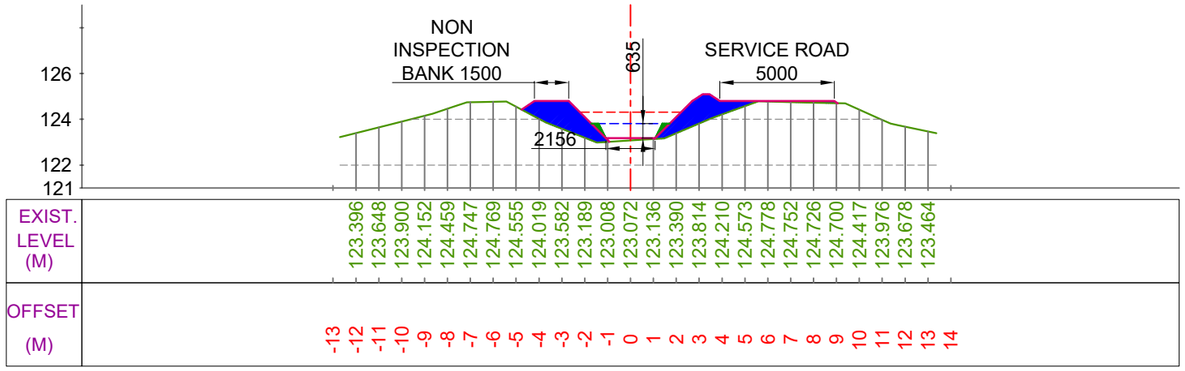
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 4 of 11

X SECTION OF YARI MINOR



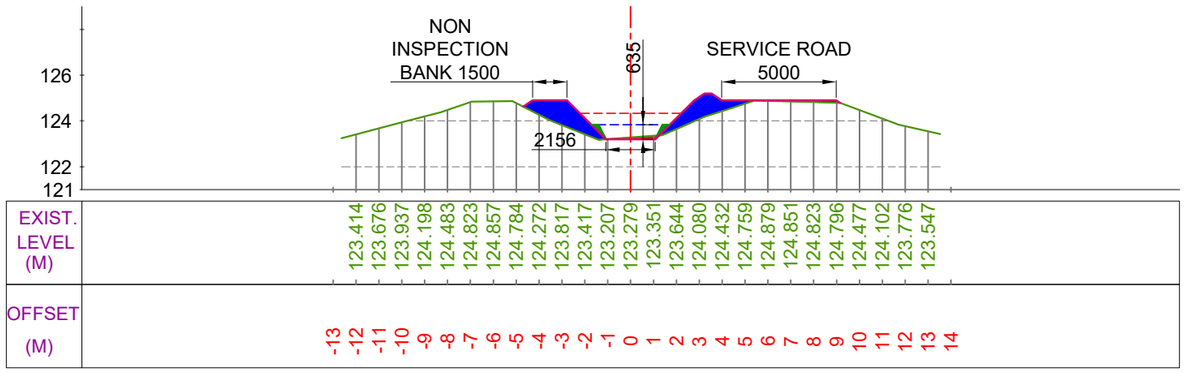
CUTTING AREA (SQ.M) = 0.652 CH. (KM):- 1+700

FILLING AREA (SQ.M) = 3.580 DESIGNED BED LEVEL = 123.221 M



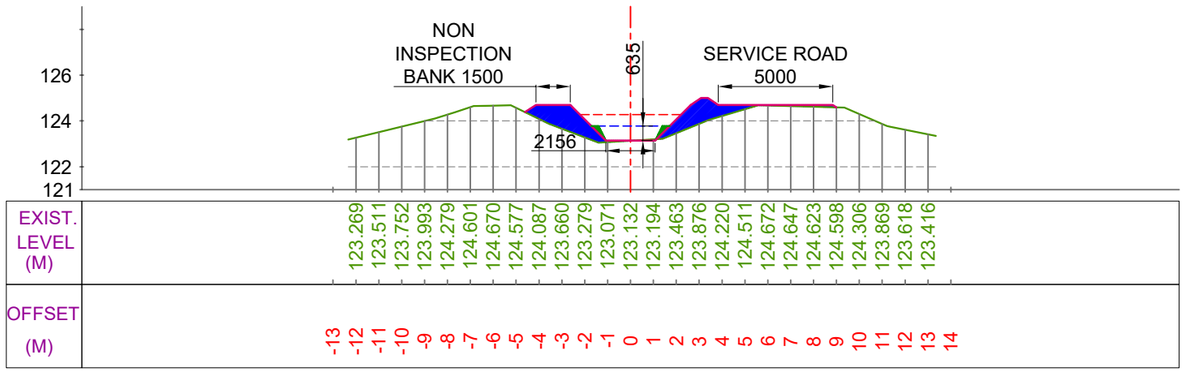
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 1+900

FILLING AREA (SQ.M) = 6.041 DESIGNED BED LEVEL = 123.171 M



CUTTING AREA (SQ.M) = 0.186 CH. (KM):- 1+800

FILLING AREA (SQ.M) = 4.802 DESIGNED BED LEVEL = 123.196 M



CUTTING AREA (SQ.M) = 0.023 CH. (KM):- 2+000

FILLING AREA (SQ.M) = 5.172 DESIGNED BED LEVEL = 123.146 M

LEGEND

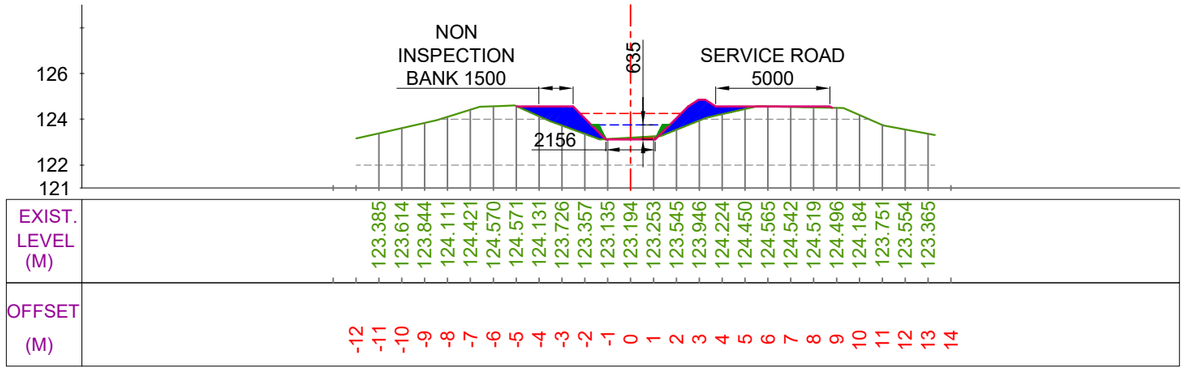
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

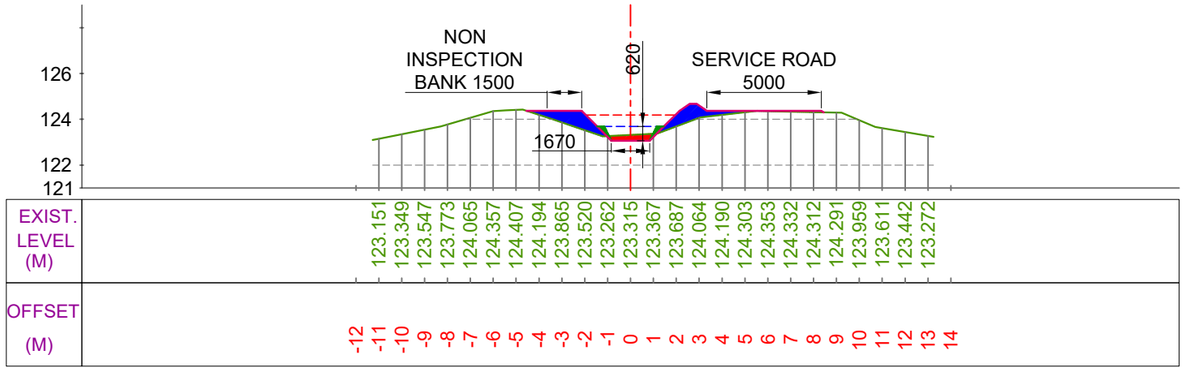
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 5 of 11

X SECTION OF YARI MINOR



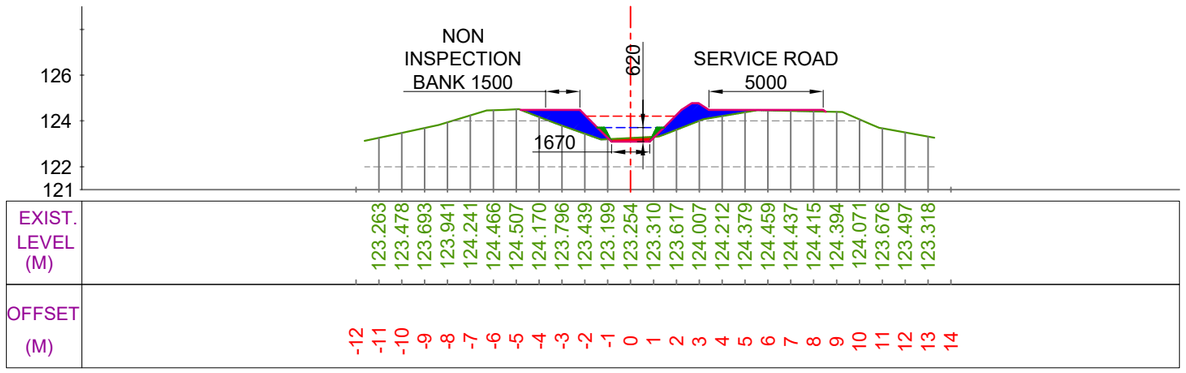
CUTTING AREA (SQ.M) = 0.171 CH. (KM):- 2+100

FILLING AREA (SQ.M) = 3.945 DESIGNED BED LEVEL = 123.121 M



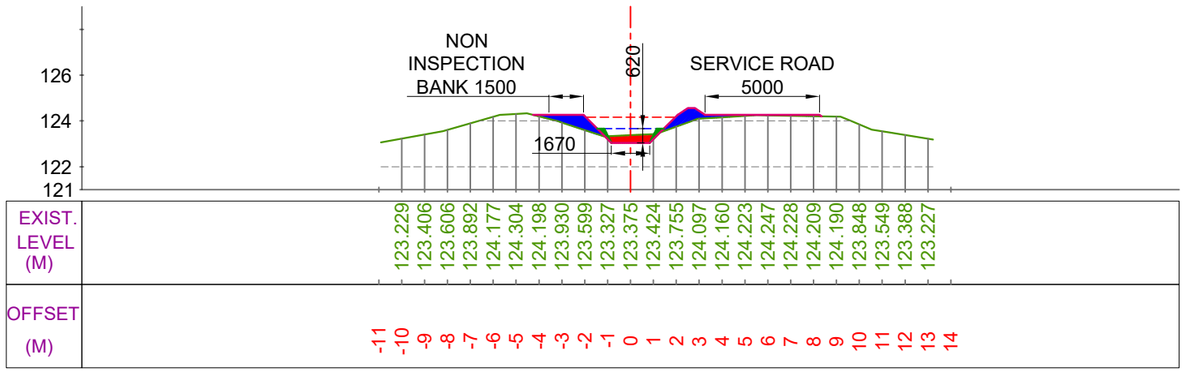
CUTTING AREA (SQ.M) = 0.446 CH. (KM):- 2+300

FILLING AREA (SQ.M) = 2.869 DESIGNED BED LEVEL = 123.067 M



CUTTING AREA (SQ.M) = 0.282 CH. (KM):- 2+200

FILLING AREA (SQ.M) = 3.833 DESIGNED BED LEVEL = 123.094 M



CUTTING AREA (SQ.M) = 0.617 CH. (KM):- 2+400

FILLING AREA (SQ.M) = 2.003 DESIGNED BED LEVEL = 123.040 M

LEGEND

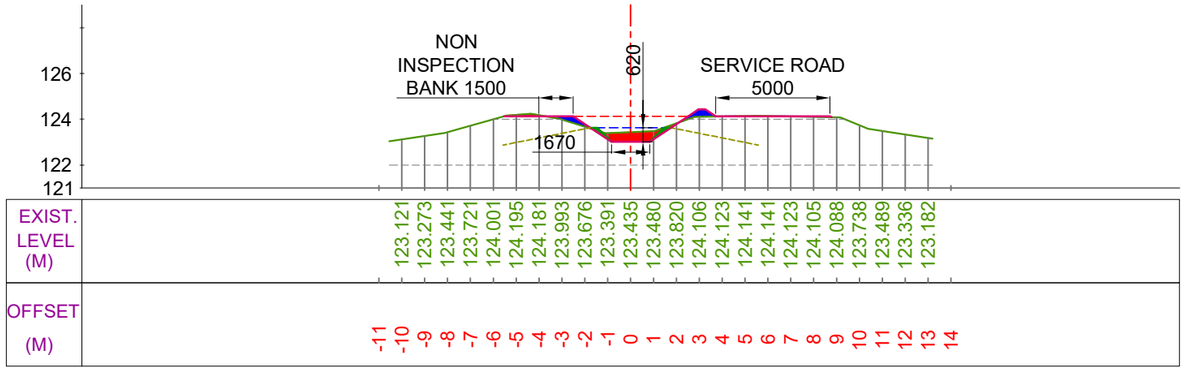
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

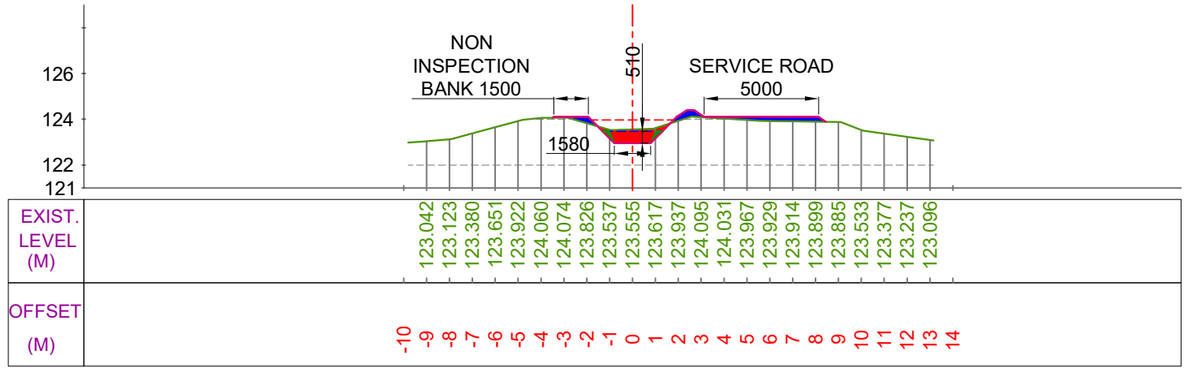
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 6 of 11

X SECTION OF YARI MINOR



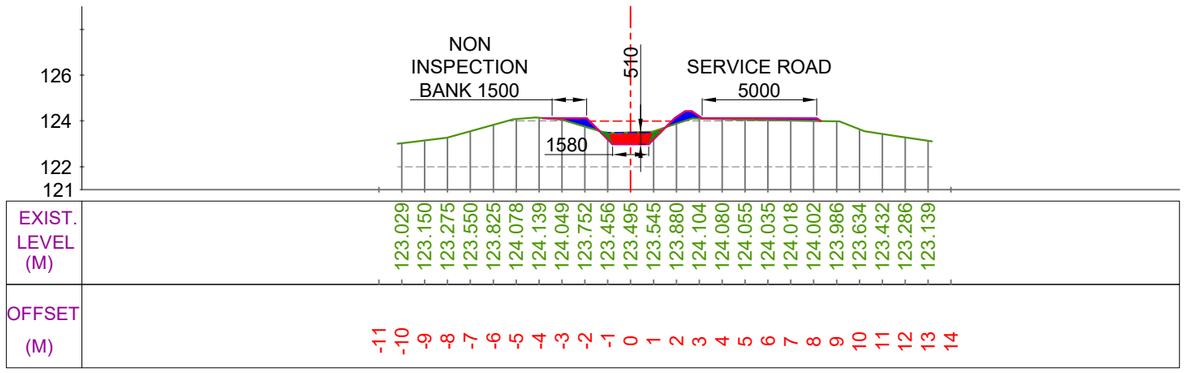
CUTTING AREA (SQ.M) = 1.068 CH. (KM):- 2+500

FILLING AREA (SQ.M) = 0.627 DESIGNED BED LEVEL = 123.013 M



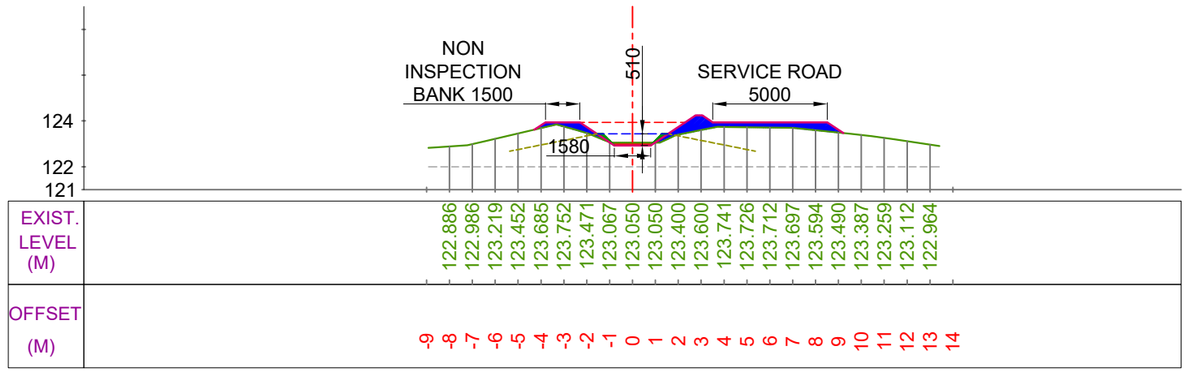
CUTTING AREA (SQ.M) = 1.270 CH. (KM):- 2+700

FILLING AREA (SQ.M) = 1.258 DESIGNED BED LEVEL = 122.957 M



CUTTING AREA (SQ.M) = 0.985 CH. (KM):- 2+600

FILLING AREA (SQ.M) = 1.180 DESIGNED BED LEVEL = 122.986 M



CUTTING AREA (SQ.M) = 0.206 CH. (KM):- 2+800

FILLING AREA (SQ.M) = 2.957 DESIGNED BED LEVEL = 122.929 M

LEGEND

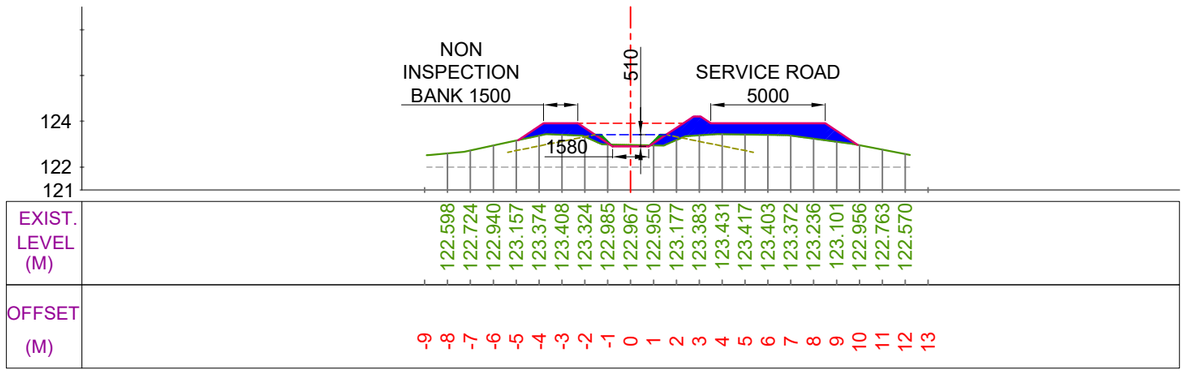
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

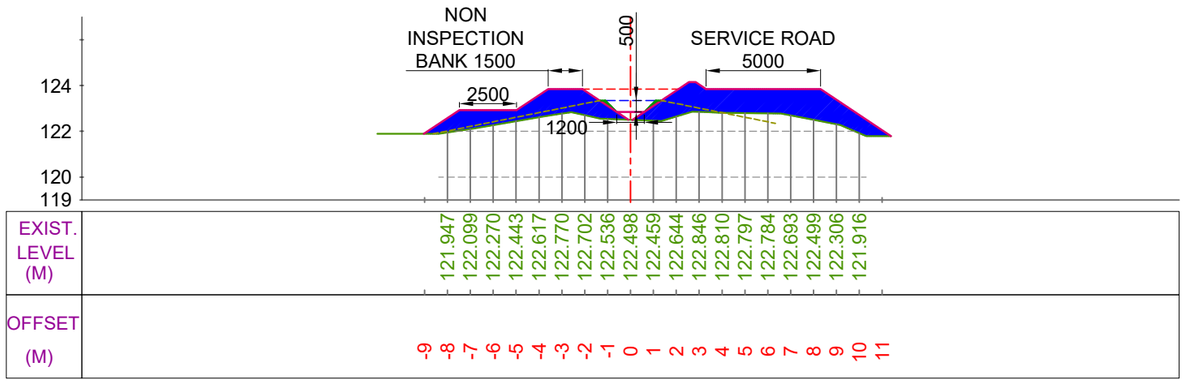
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 7 of 11

X SECTION OF YARI MINOR



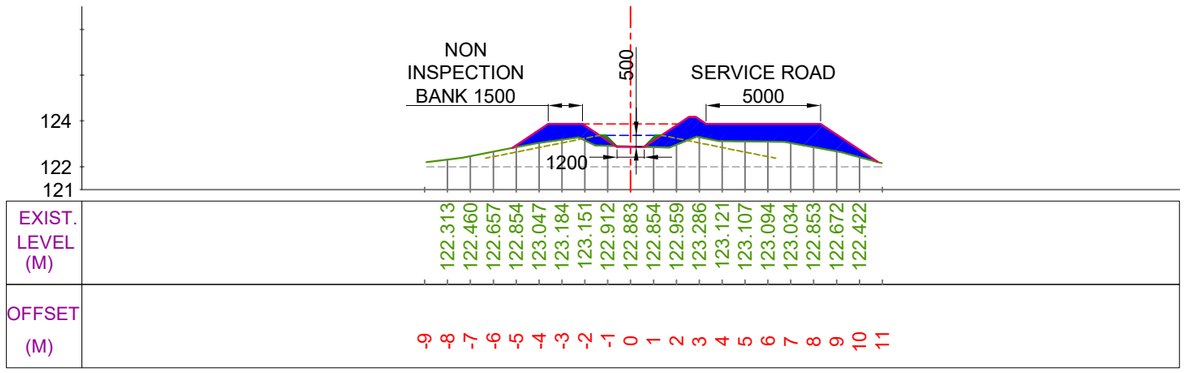
CUTTING AREA (SQ.M) = 0.111 CH. (KM):- 2+900

FILLING AREA (SQ.M) = 6.050 DESIGNED BED LEVEL = 122.900 M



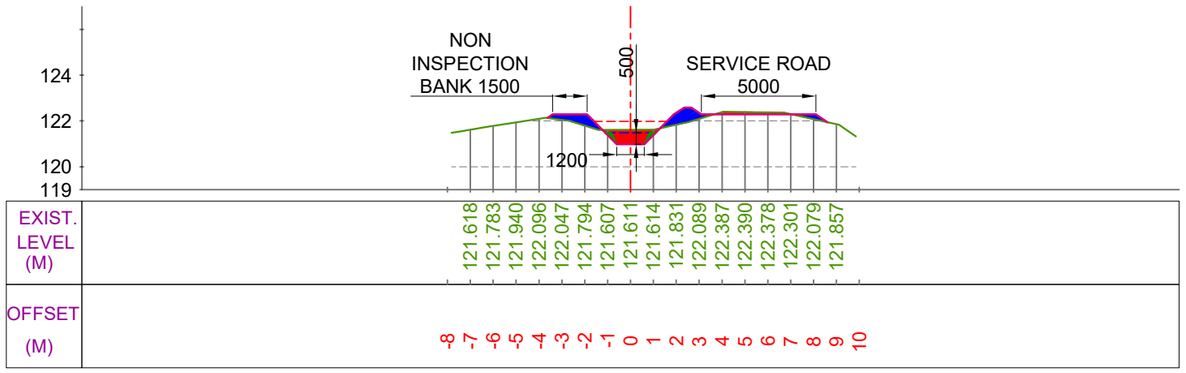
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+100

FILLING AREA (SQ.M) = 17.194 DESIGNED BED LEVEL = 122.843 M



CUTTING AREA (SQ.M) = 0.015 CH. (KM):- 3+000

FILLING AREA (SQ.M) = 9.323 DESIGNED BED LEVEL = 122.871 M



CUTTING AREA (SQ.M) = 1.328 CH. (KM):- 3+200

FILLING AREA (SQ.M) = 1.684 DESIGNED BED LEVEL = 120.985 M

LEGEND

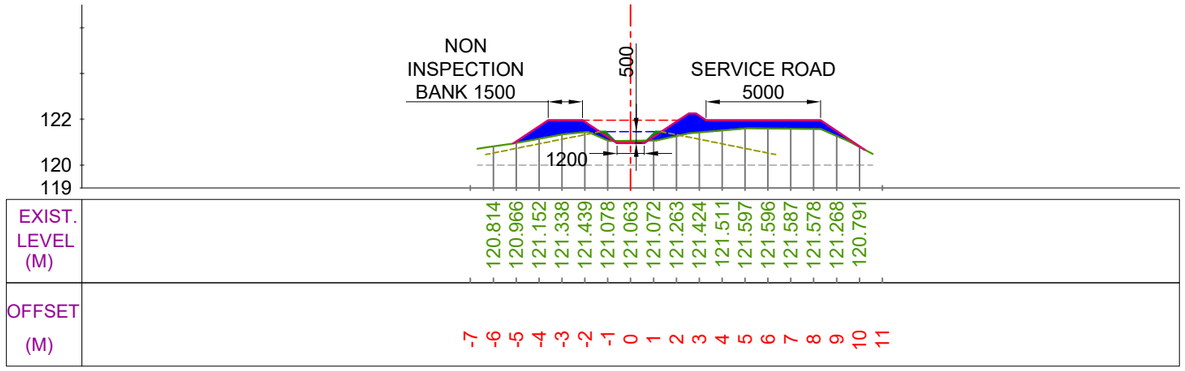
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

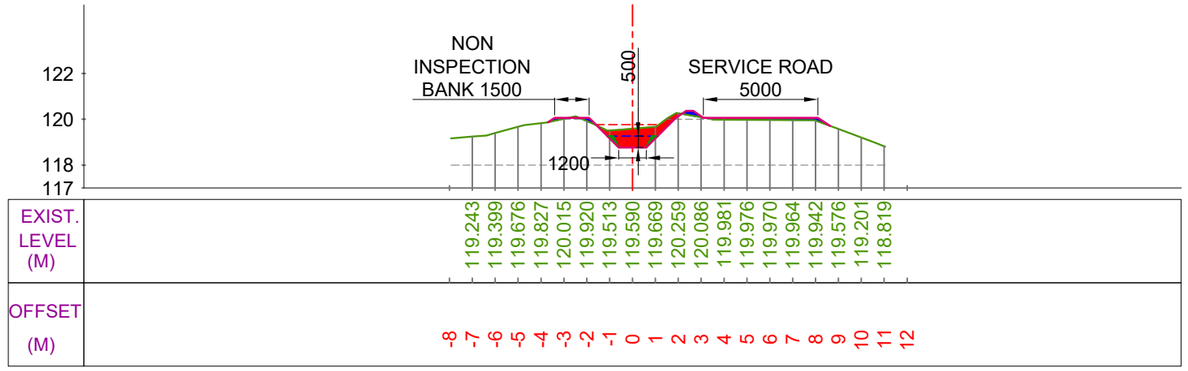
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 8 of 11

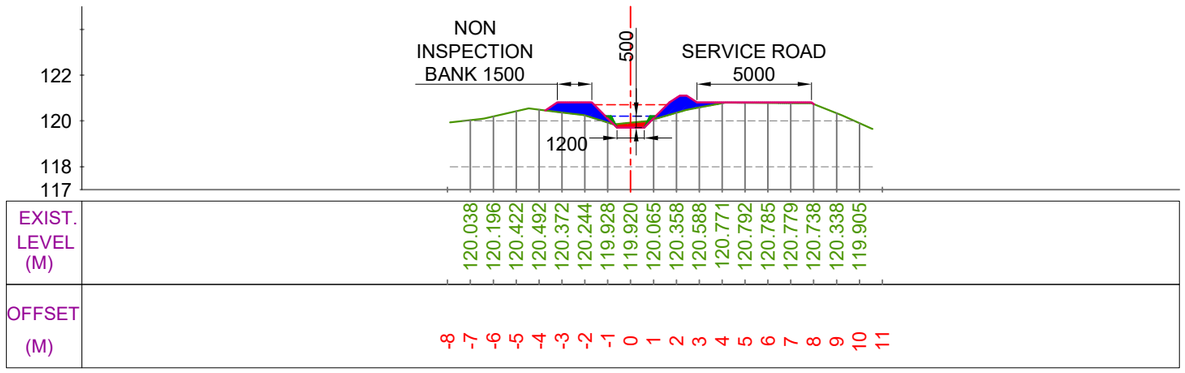
X SECTION OF YARI MINOR



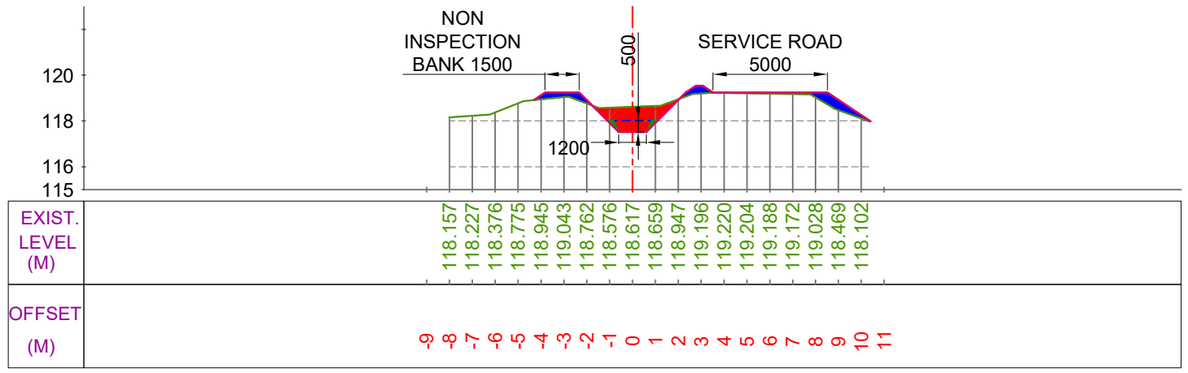
CUTTING AREA (SQ.M) = 0.138 CH. (KM):- 3+300
FILLING AREA (SQ.M) = 5.481 DESIGNED BED LEVEL = 120.957 M



CUTTING AREA (SQ.M) = 1.809 CH. (KM):- 3+500
FILLING AREA (SQ.M) = 0.757 DESIGNED BED LEVEL = 118.766 M



CUTTING AREA (SQ.M) = 0.279 CH. (KM):- 3+400
FILLING AREA (SQ.M) = 2.302 DESIGNED BED LEVEL = 119.708 M



CUTTING AREA (SQ.M) = 2.492 CH. (KM):- 3+600
FILLING AREA (SQ.M) = 1.837 DESIGNED BED LEVEL = 117.517 M

LEGEND

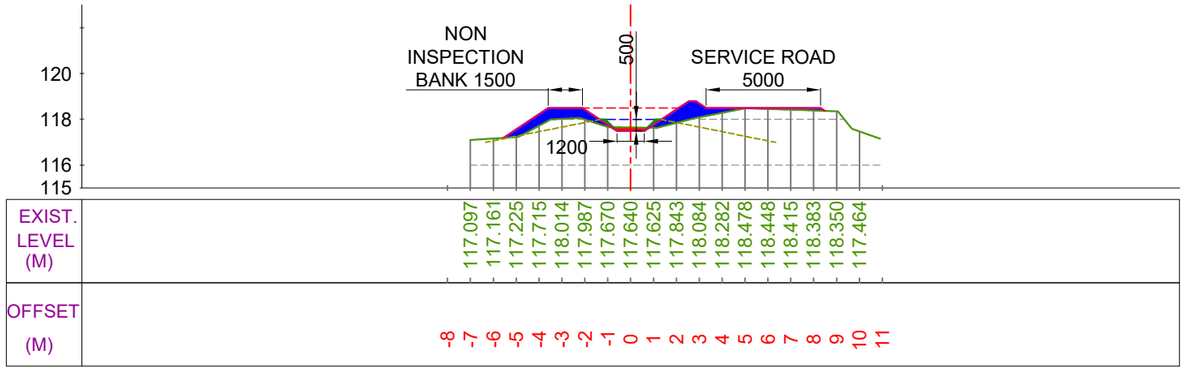
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

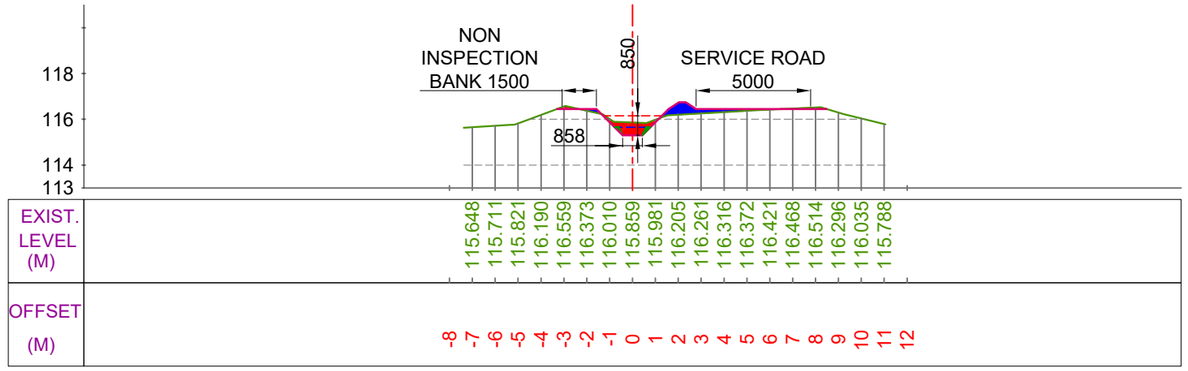
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 9 of 11

X SECTION OF YARI MINOR



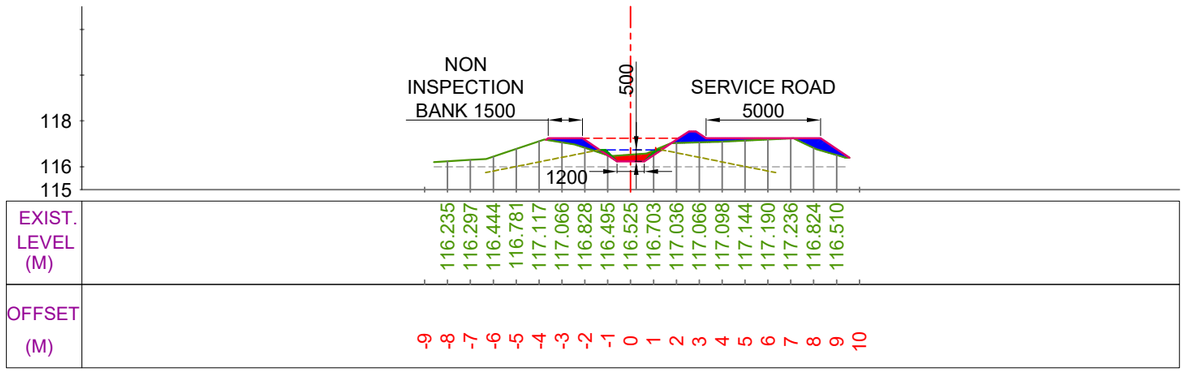
CUTTING AREA (SQ.M) = 0.206 CH. (KM):- 3+700

FILLING AREA (SQ.M) = 3.506 DESIGNED BED LEVEL = 117.488 M



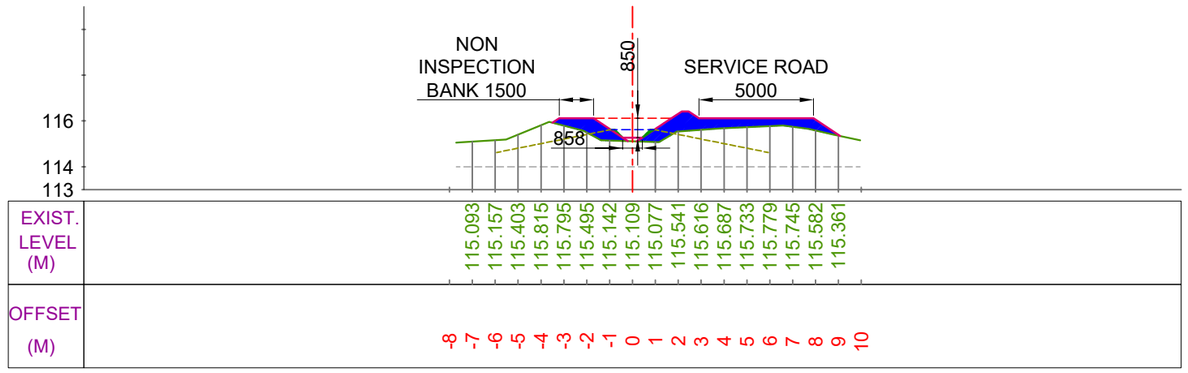
CUTTING AREA (SQ.M) = 0.956 CH. (KM):- 3+900

FILLING AREA (SQ.M) = 0.996 DESIGNED BED LEVEL = 115.297 M



CUTTING AREA (SQ.M) = 0.486 CH. (KM):- 3+800

FILLING AREA (SQ.M) = 2.012 DESIGNED BED LEVEL = 116.240 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 4+000

FILLING AREA (SQ.M) = 5.397 DESIGNED BED LEVEL = 115.269 M

LEGEND

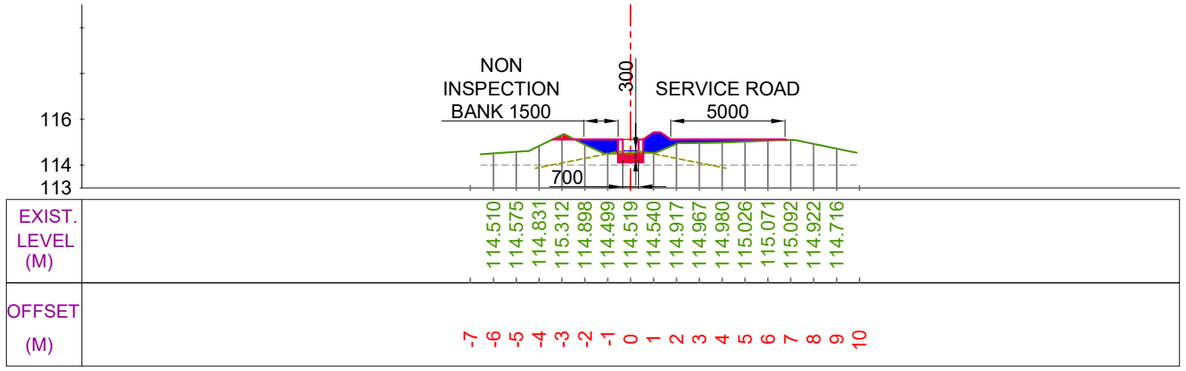
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

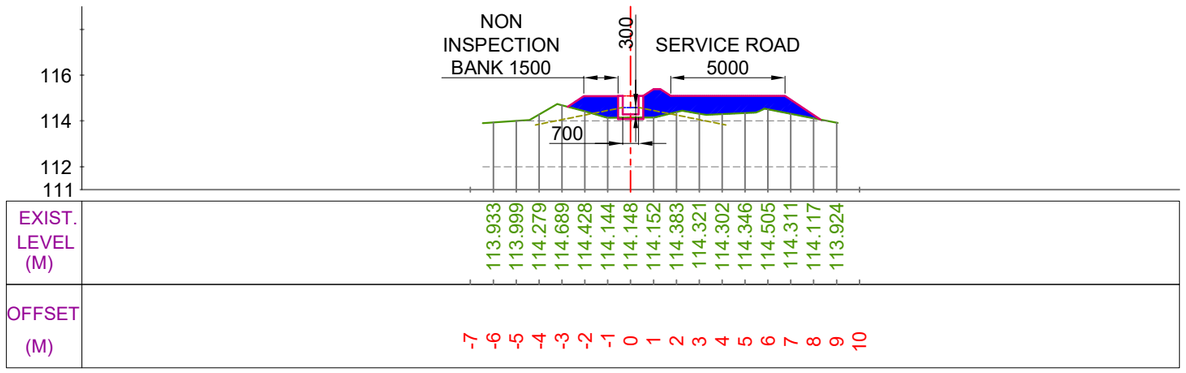
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 10 of 11

X SECTION OF YARI MINOR



CUTTING AREA (SQ.M) = 0.543 CH. (KM):- 4+100

FILLING AREA (SQ.M) = 2.223 DESIGNED BED LEVEL = 114.323 M

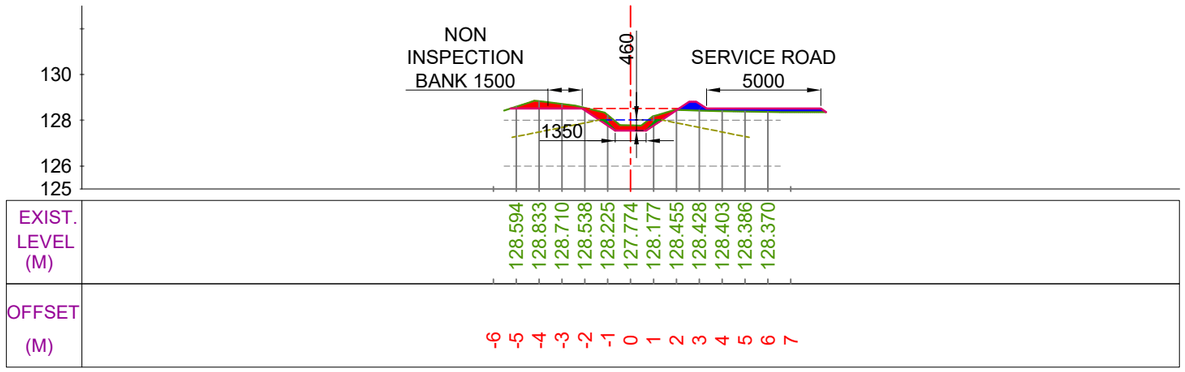


CUTTING AREA (SQ.M) = 0.065 CH. (KM):- 4+200

FILLING AREA (SQ.M) = 6.957 DESIGNED BED LEVEL = 114.289 M

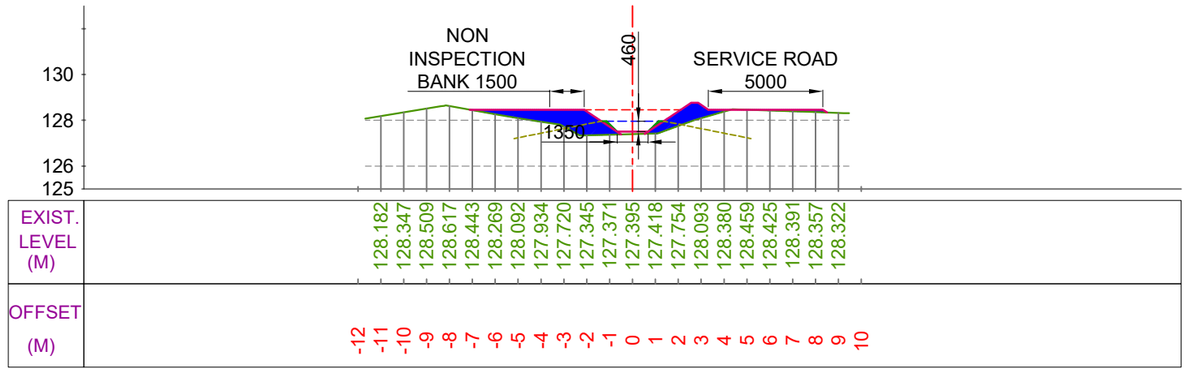
LEGEND			
CUT AREA	EXISTING BED LINE	Prepared by :- WAPCOS LTD.	Project Title :- NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	F.S.L.		Drawing Title :- X SEC OF YARI MINOR (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
FILL AREA	DESIGNED BED LINE		Drawing No. :- WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ XSEC- 11 of 11
	H.G. LINE		

X SECTION OF NEAPUR MINOR



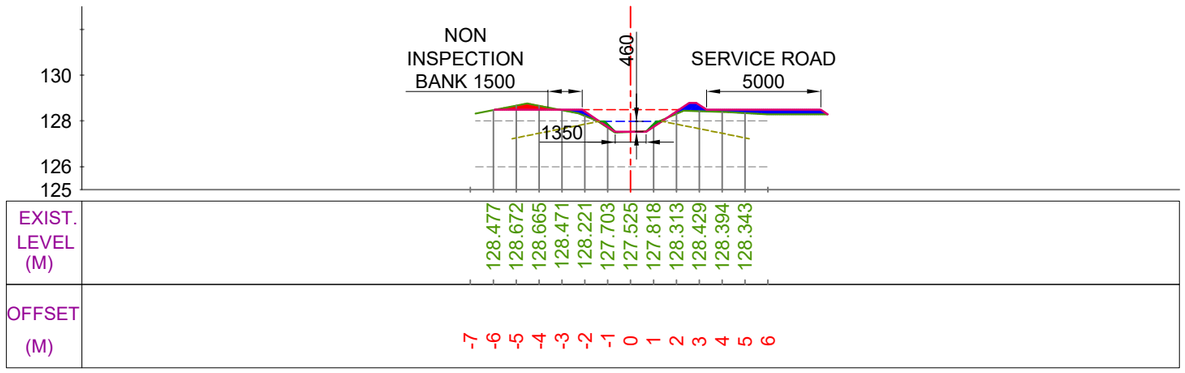
CUTTING AREA (SQ.M) = 1.656
FILLING AREA (SQ.M) = 1.018

CH. (KM):- 0+100
DESIGNED BED LEVEL = 127.554 M



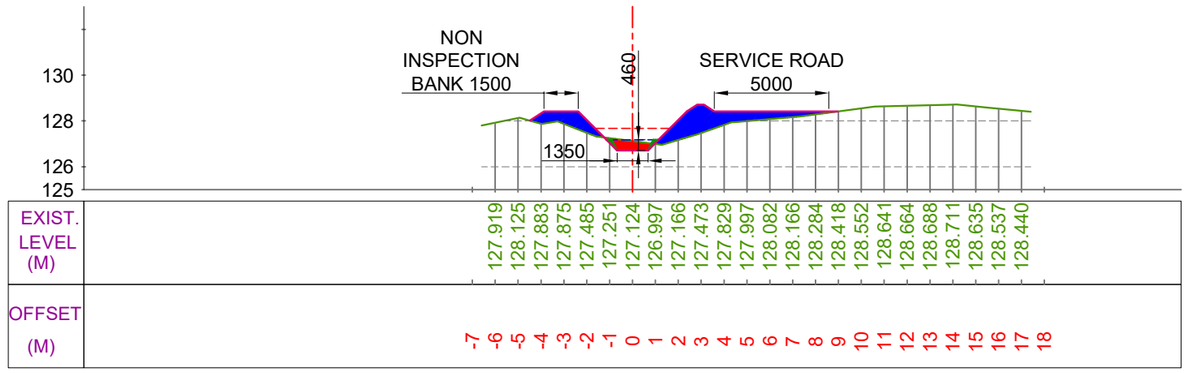
CUTTING AREA (SQ.M) = 0.005
FILLING AREA (SQ.M) = 4.965

CH. (KM):- 0+300
DESIGNED BED LEVEL = 127.502 M



CUTTING AREA (SQ.M) = 0.414
FILLING AREA (SQ.M) = 1.388

CH. (KM):- 0+200
DESIGNED BED LEVEL = 127.528 M



CUTTING AREA (SQ.M) = 0.665
FILLING AREA (SQ.M) = 5.393

CH. (KM):- 0+400
DESIGNED BED LEVEL = 126.714 M

LEGEND

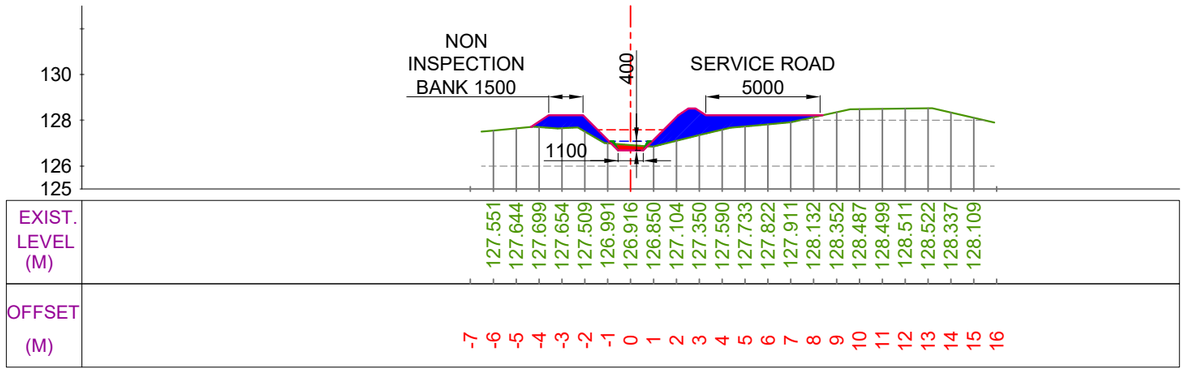
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

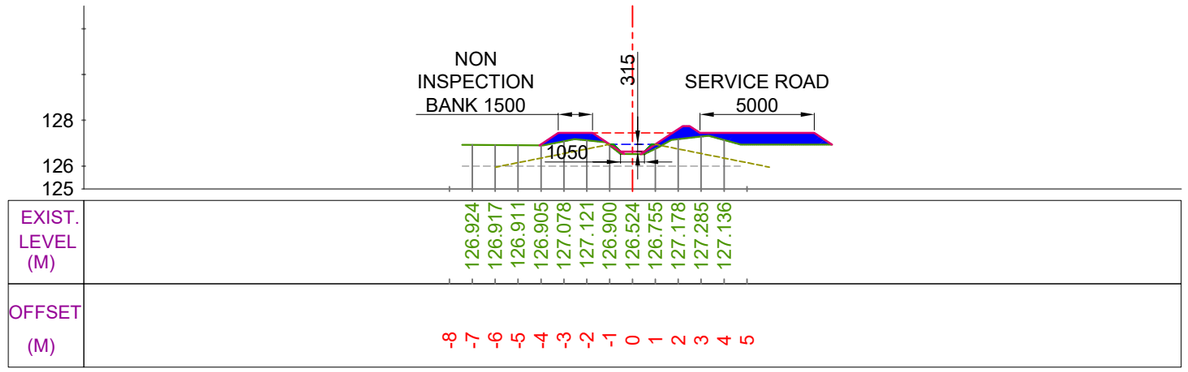
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NEAPUR MINOR (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC- 1 of 5

X SECTION OF NEAPUR MINOR



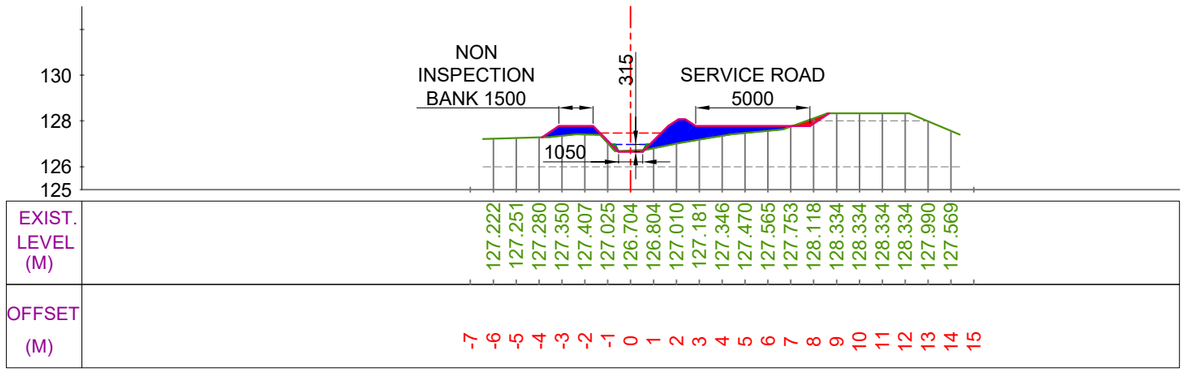
CUTTING AREA (SQ.M) = 0.280 CH. (KM):- 0+500

FILLING AREA (SQ.M) = 5.733 DESIGNED BED LEVEL = 126.687 M



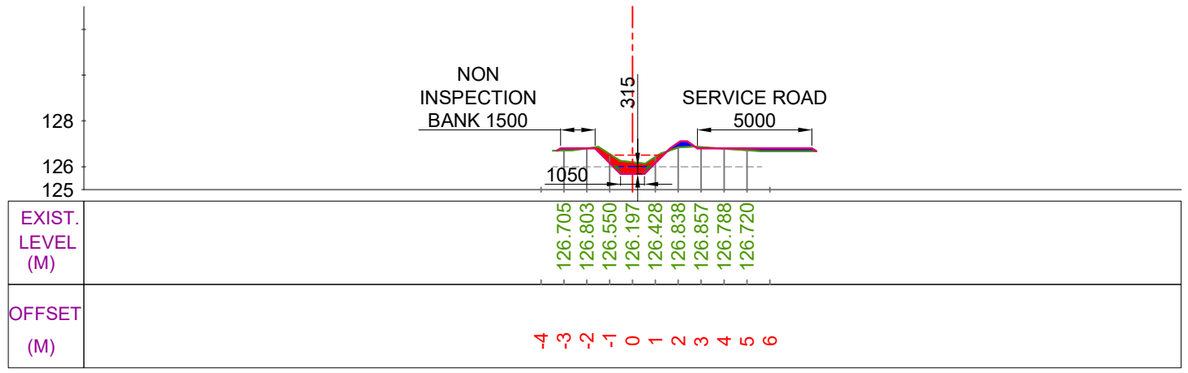
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 0+700

FILLING AREA (SQ.M) = 3.949 DESIGNED BED LEVEL = 126.633 M



CUTTING AREA (SQ.M) = 0.290 CH. (KM):- 0+600

FILLING AREA (SQ.M) = 3.801 DESIGNED BED LEVEL = 126.660 M



CUTTING AREA (SQ.M) = 1.140 CH. (KM):- 0+800

FILLING AREA (SQ.M) = 0.714 DESIGNED BED LEVEL = 125.692 M

LEGEND

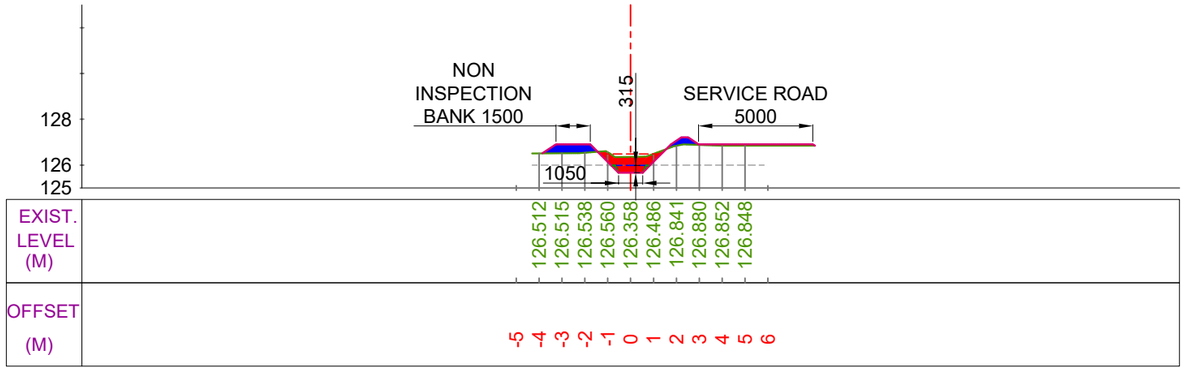
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

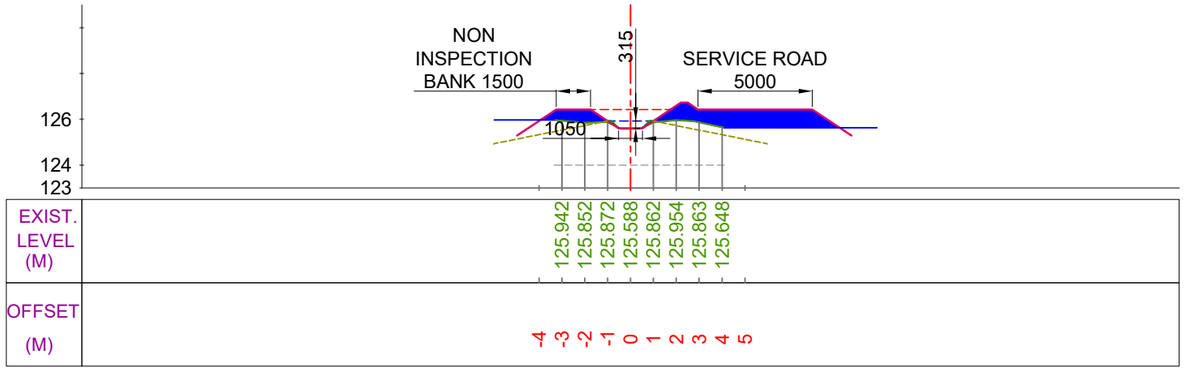
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NEAPUR MINOR (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC- 2 of 5

X SECTION OF NEAPUR MINOR



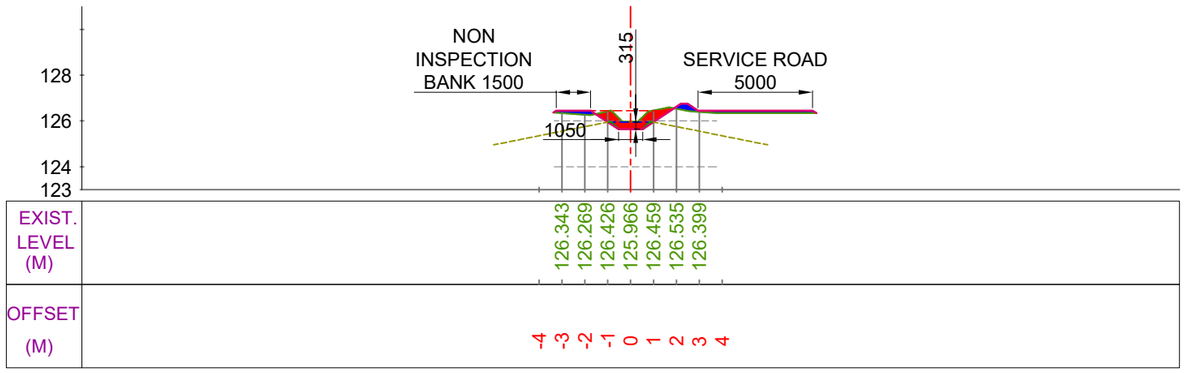
CUTTING AREA (SQ.M) = 1.363
FILLING AREA (SQ.M) = 1.301

CH. (KM):- 0+900
DESIGNED BED LEVEL = 125.665 M



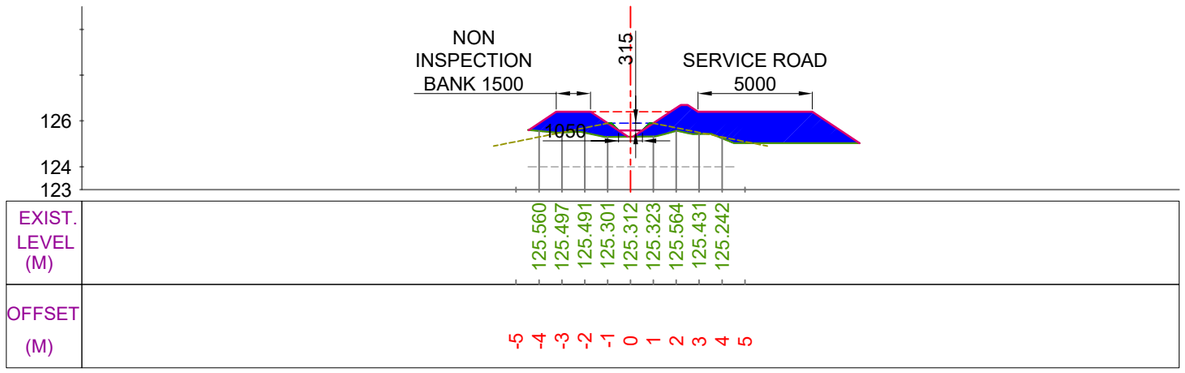
CUTTING AREA (SQ.M) = 0.005
FILLING AREA (SQ.M) = 6.543

CH. (KM):- 1+100
DESIGNED BED LEVEL = 125.611 M



CUTTING AREA (SQ.M) = 1.233
FILLING AREA (SQ.M) = 1.001

CH. (KM):- 1+000
DESIGNED BED LEVEL = 125.638 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 12.711

CH. (KM):- 1+200
DESIGNED BED LEVEL = 125.584 M

LEGEND

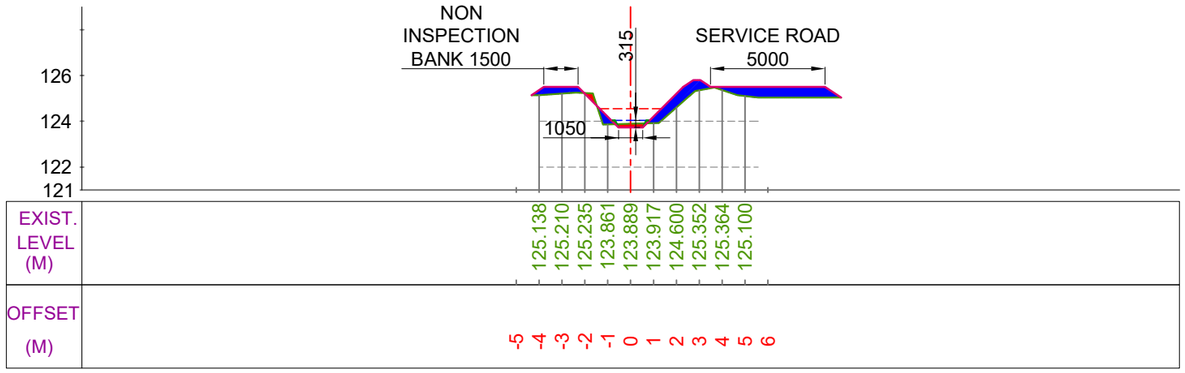
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

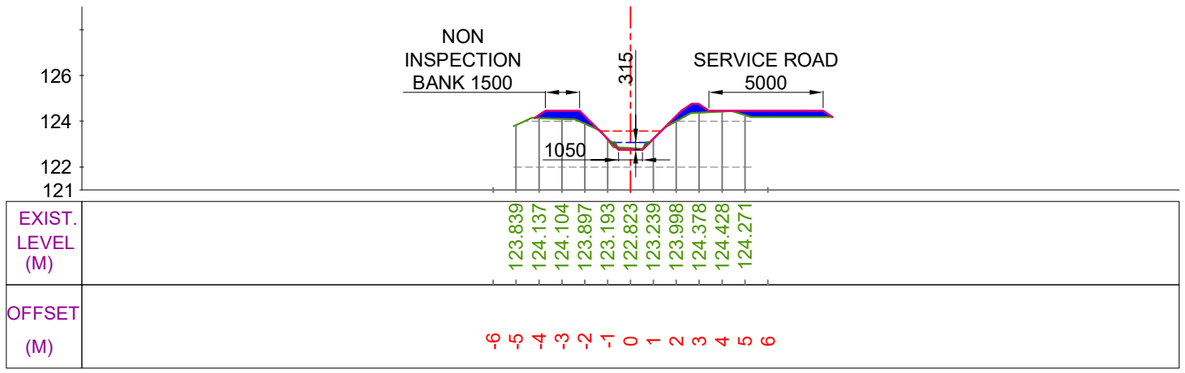
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NEAPUR MINOR (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC- 3 of 5

X SECTION OF NEAPUR MINOR



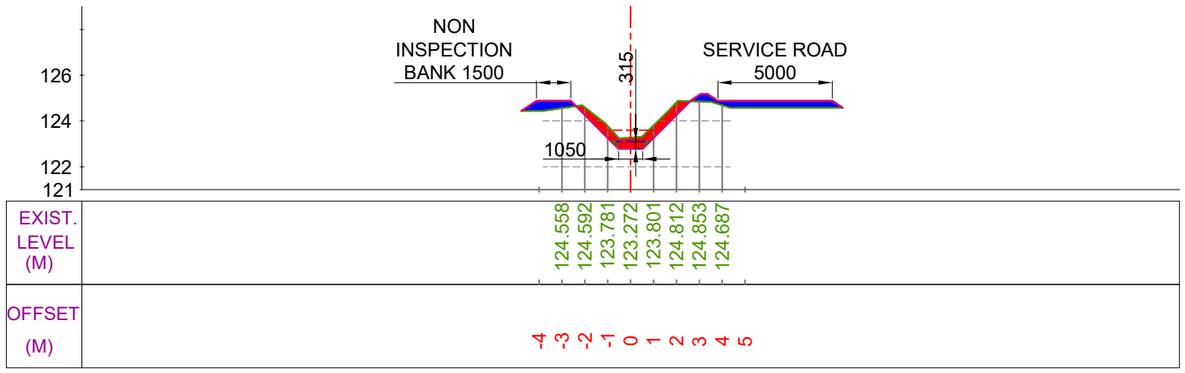
CUTTING AREA (SQ.M) = 0.283 CH. (KM):- 1+300

FILLING AREA (SQ.M) = 4.139 DESIGNED BED LEVEL = 123.728 M



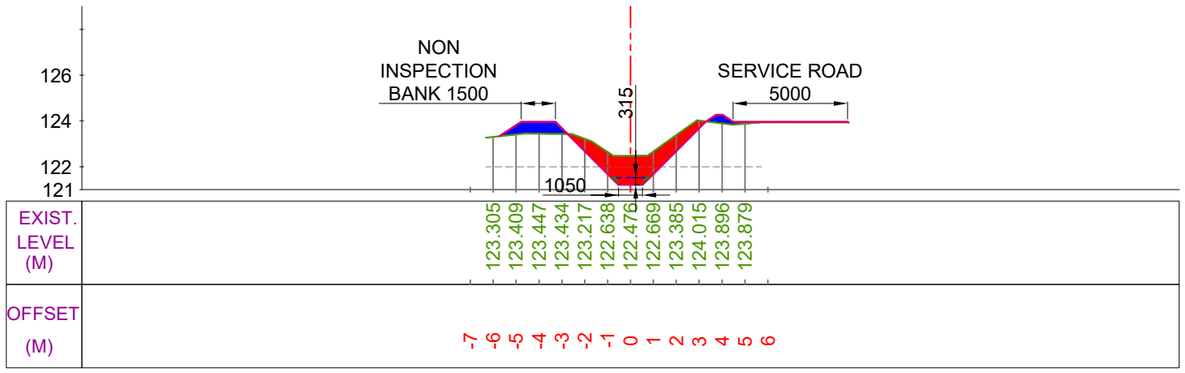
CUTTING AREA (SQ.M) = 0.076 CH. (KM):- 1+500

FILLING AREA (SQ.M) = 2.417 DESIGNED BED LEVEL = 122.760 M



CUTTING AREA (SQ.M) = 2.197 CH. (KM):- 1+400

FILLING AREA (SQ.M) = 2.503 DESIGNED BED LEVEL = 122.787 M



CUTTING AREA (SQ.M) = 4.741 CH. (KM):- 1+600

FILLING AREA (SQ.M) = 1.676 DESIGNED BED LEVEL = 121.209 M

LEGEND

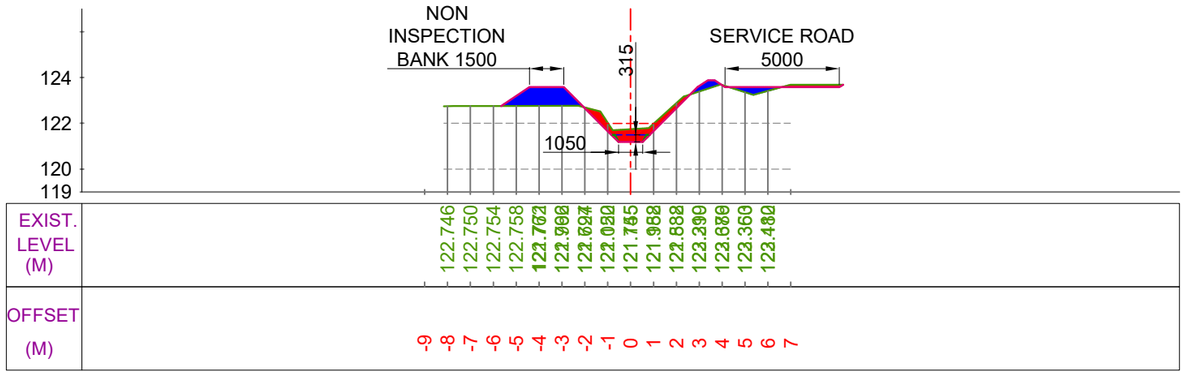
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

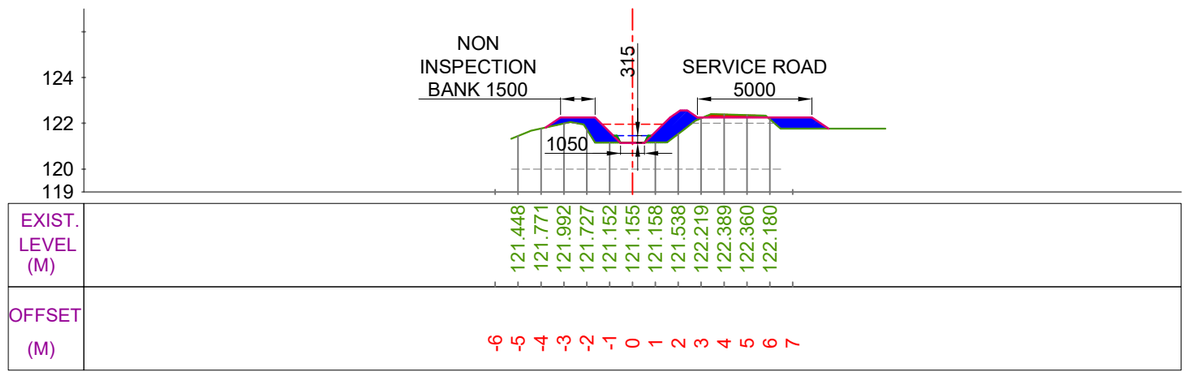
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NEAPUR MINOR (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC- 4 of 5

X SECTION OF NEAPUR MINOR



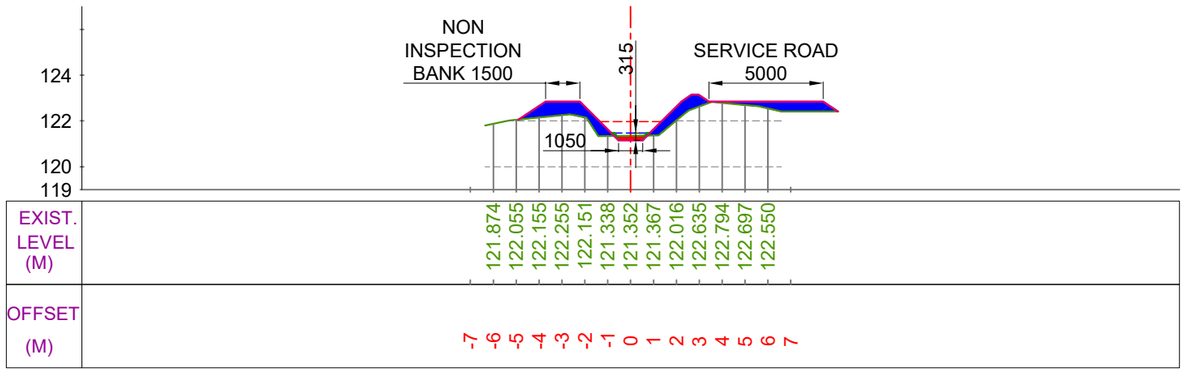
CUTTING AREA (SQ.M) = 1.883 CH. (KM):- 1+700

FILLING AREA (SQ.M) = 2.763 DESIGNED BED LEVEL = 121.182 M



CUTTING AREA (SQ.M) = 0.319 CH. (KM):- 1+850

FILLING AREA (SQ.M) = 3.768 DESIGNED BED LEVEL = 121.141 M



CUTTING AREA (SQ.M) = 0.227 CH. (KM):- 1+800

FILLING AREA (SQ.M) = 4.741 DESIGNED BED LEVEL = 121.155 M

LEGEND

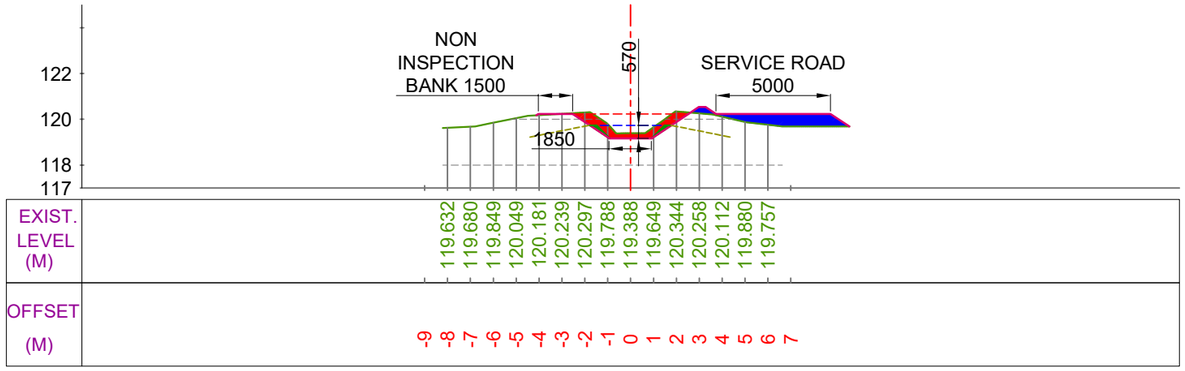
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

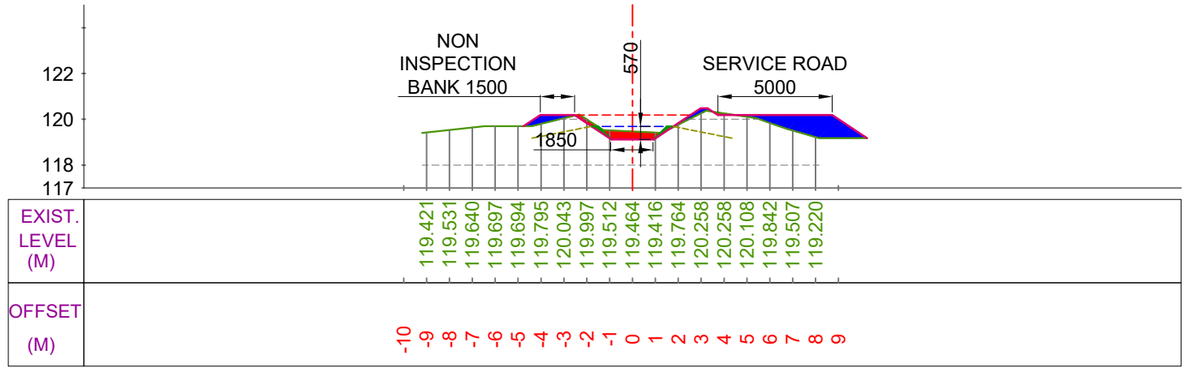
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF NEAPUR MINOR (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ XSEC- 5 of 5

X SECTION OF AMAR BIGHA MINOR



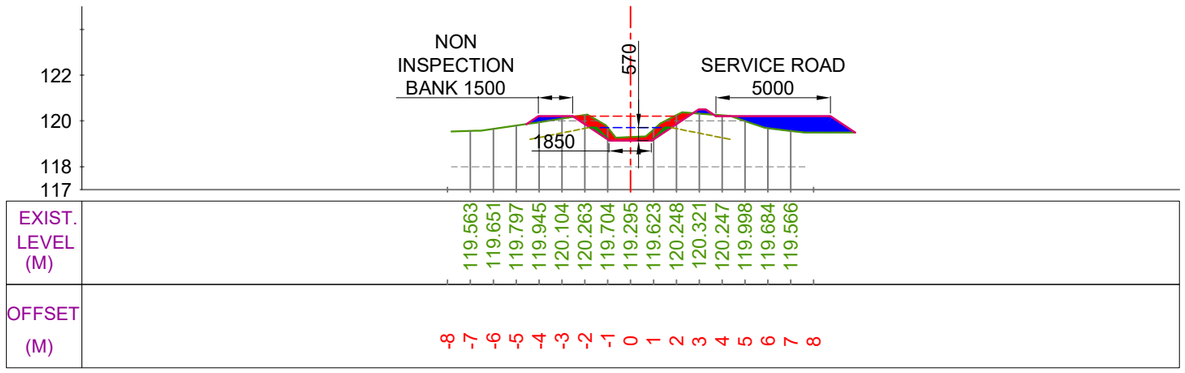
CUTTING AREA (SQ.M) = 1.696
FILLING AREA (SQ.M) = 2.639

CH. (KM):- 0+100
DESIGNED BED LEVEL = 119.165 M



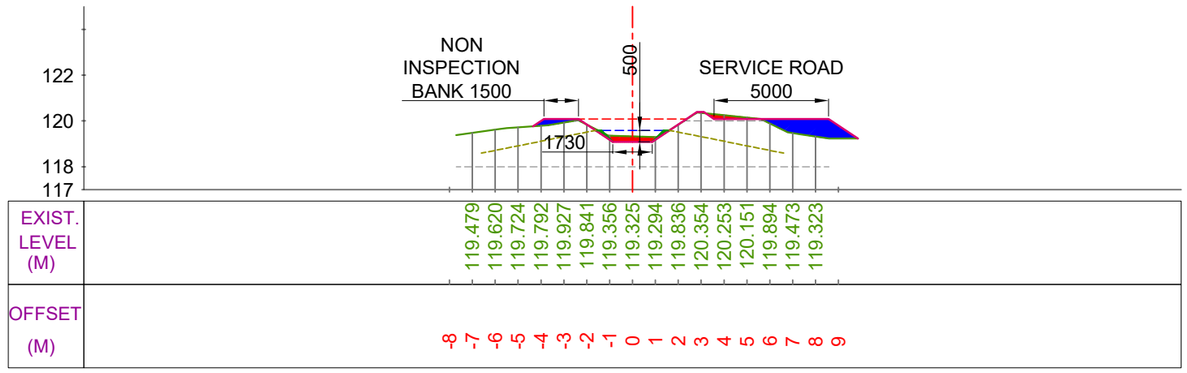
CUTTING AREA (SQ.M) = 0.956
FILLING AREA (SQ.M) = 3.747

CH. (KM):- 0+300
DESIGNED BED LEVEL = 119.115 M



CUTTING AREA (SQ.M) = 1.542
FILLING AREA (SQ.M) = 3.058

CH. (KM):- 0+200
DESIGNED BED LEVEL = 119.140 M



CUTTING AREA (SQ.M) = 0.728
FILLING AREA (SQ.M) = 2.555

CH. (KM):- 0+400
DESIGNED BED LEVEL = 119.090 M

LEGEND

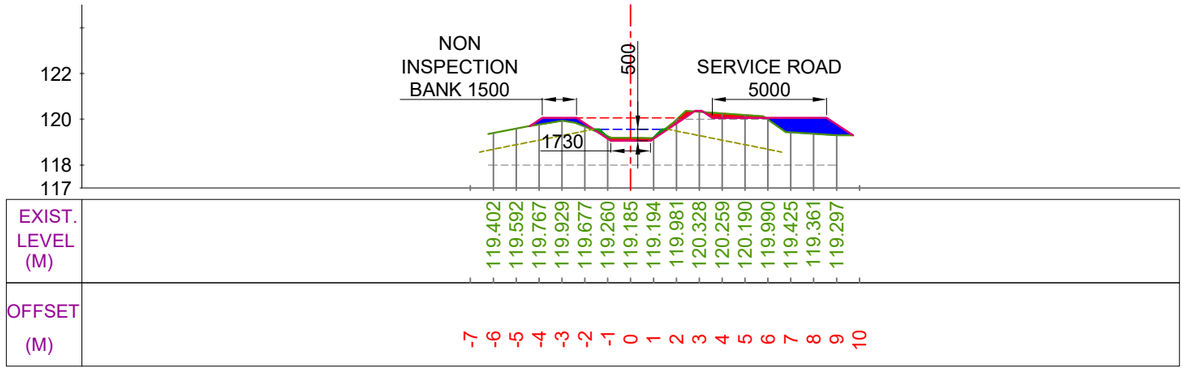
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

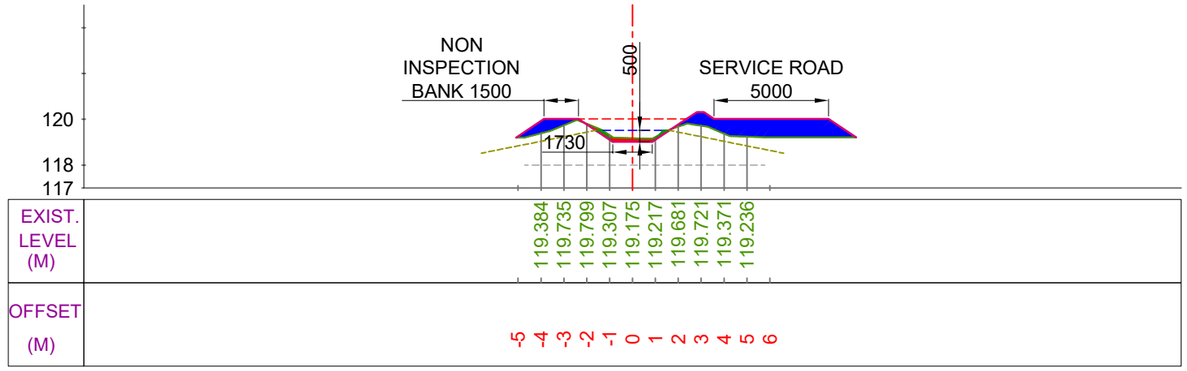
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 1 of 7

X SECTION OF AMAR BIGHA MINOR



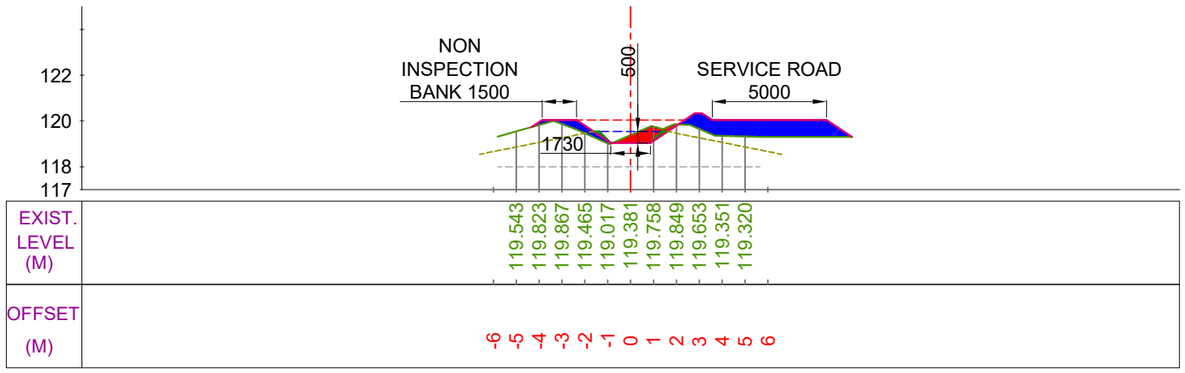
CUTTING AREA (SQ.M) = 0.795 CH. (KM):- 0+500

FILLING AREA (SQ.M) = 2.421 DESIGNED BED LEVEL = 119.065 M



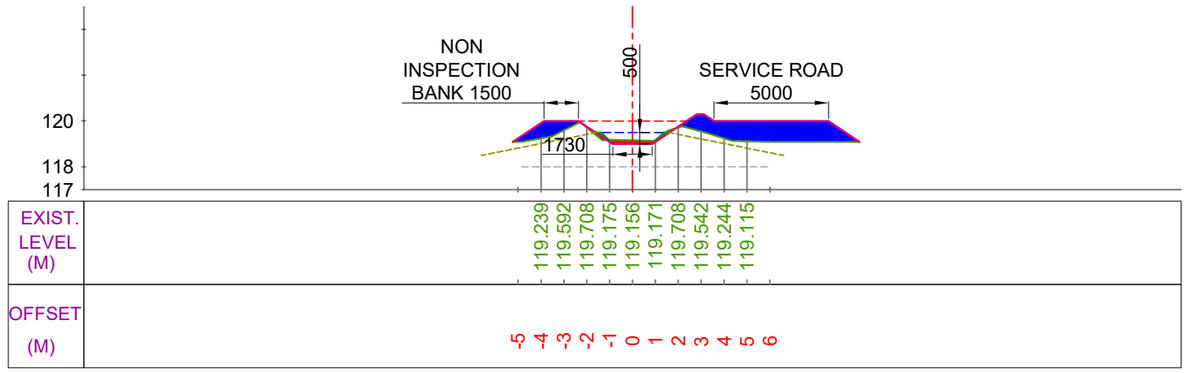
CUTTING AREA (SQ.M) = 0.405 CH. (KM):- 0+700

FILLING AREA (SQ.M) = 5.884 DESIGNED BED LEVEL = 119.015 M



CUTTING AREA (SQ.M) = 0.900 CH. (KM):- 0+600

FILLING AREA (SQ.M) = 5.447 DESIGNED BED LEVEL = 119.040 M



CUTTING AREA (SQ.M) = 0.345 CH. (KM):- 0+800

FILLING AREA (SQ.M) = 7.014 DESIGNED BED LEVEL = 118.990 M

LEGEND

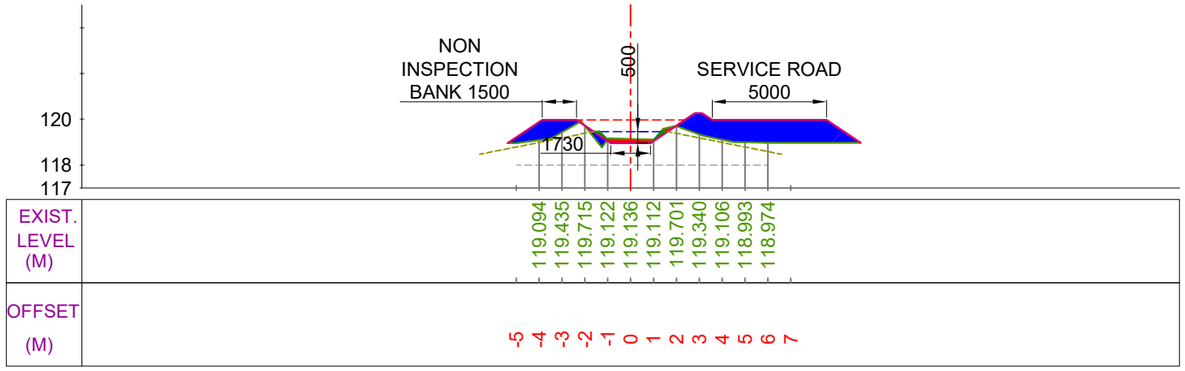
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

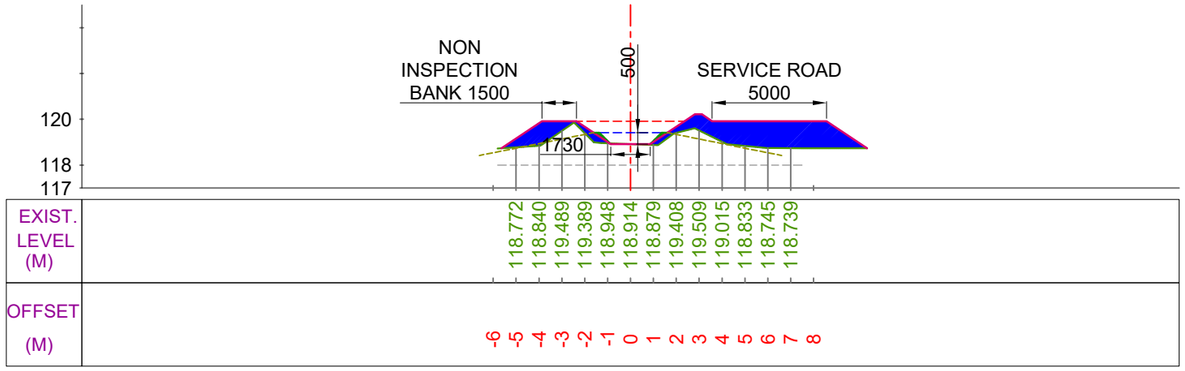
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 2 of 7

X SECTION OF AMAR BIGHA MINOR



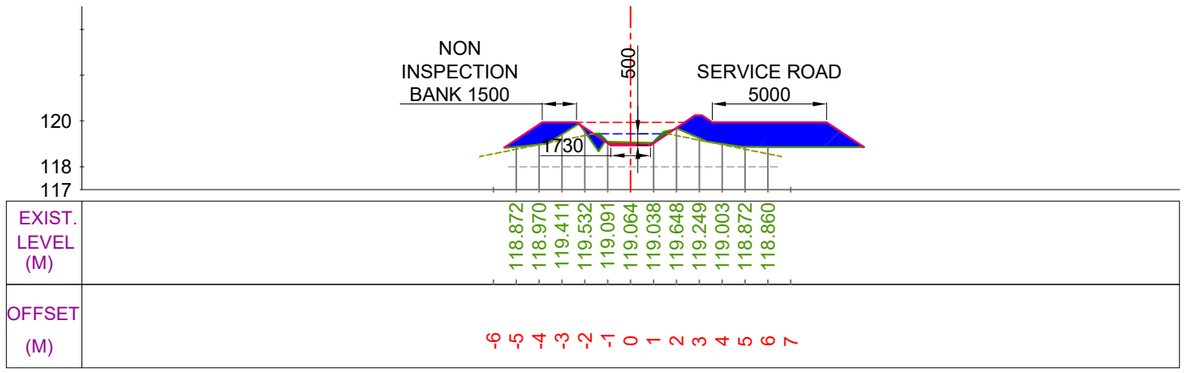
CUTTING AREA (SQ.M) = 0.401 CH. (KM):- 0+900

FILLING AREA (SQ.M) = 8.345 DESIGNED BED LEVEL = 118.965 M



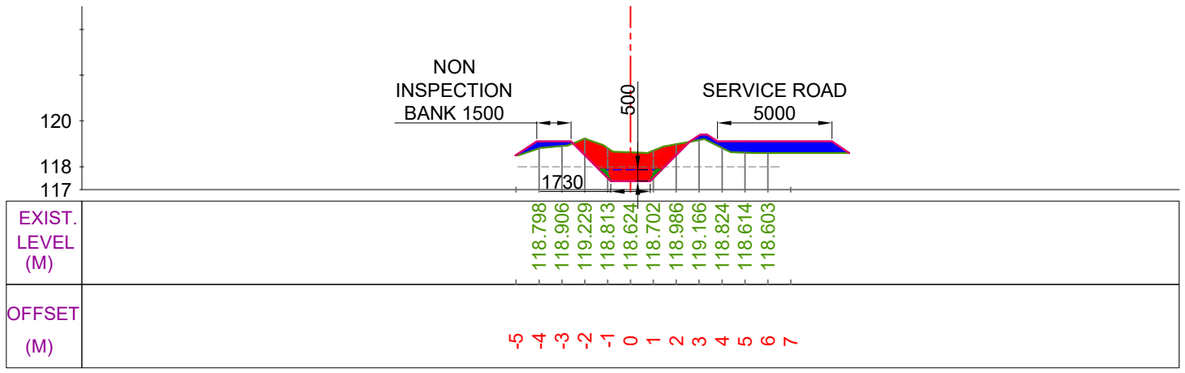
CUTTING AREA (SQ.M) = 0.012 CH. (KM):- 1+100

FILLING AREA (SQ.M) = 9.780 DESIGNED BED LEVEL = 118.915 M



CUTTING AREA (SQ.M) = 0.269 CH. (KM):- 1+000

FILLING AREA (SQ.M) = 9.295 DESIGNED BED LEVEL = 118.940 M



CUTTING AREA (SQ.M) = 4.635 CH. (KM):- 1+200

FILLING AREA (SQ.M) = 3.334 DESIGNED BED LEVEL = 117.370 M

LEGEND

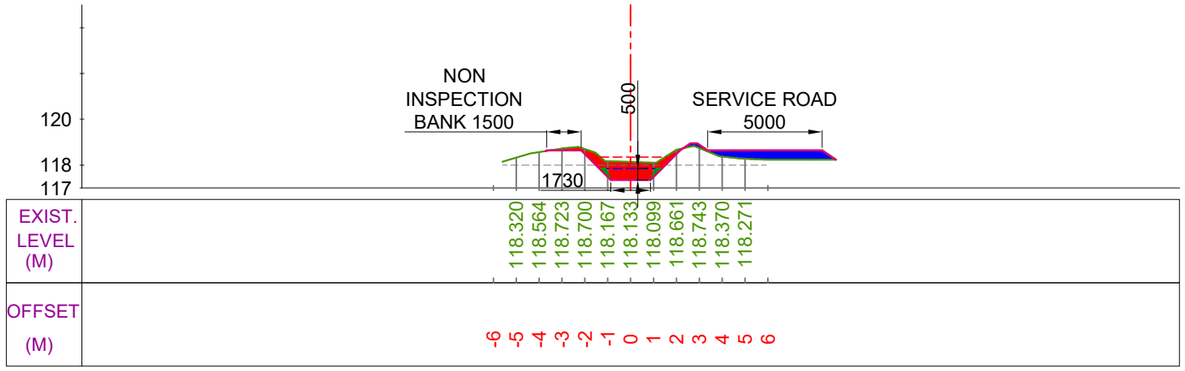
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

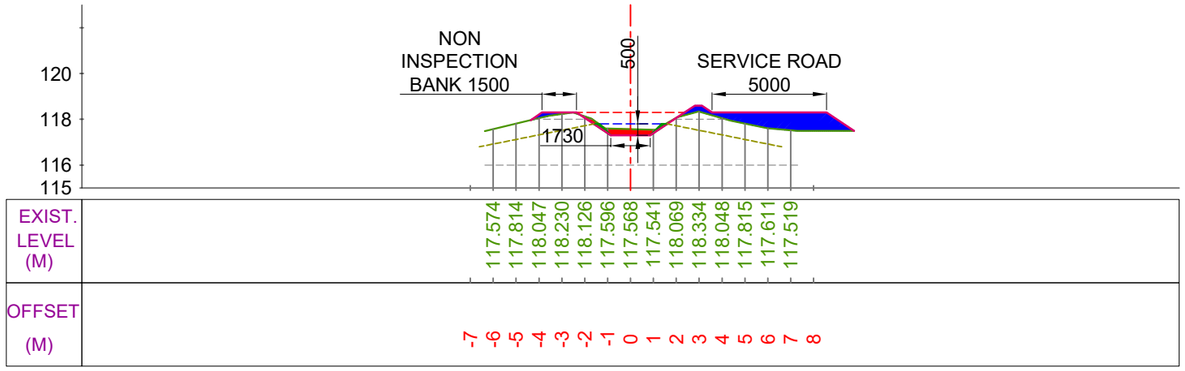
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 3 of 7

X SECTION OF AMAR BIGHA MINOR



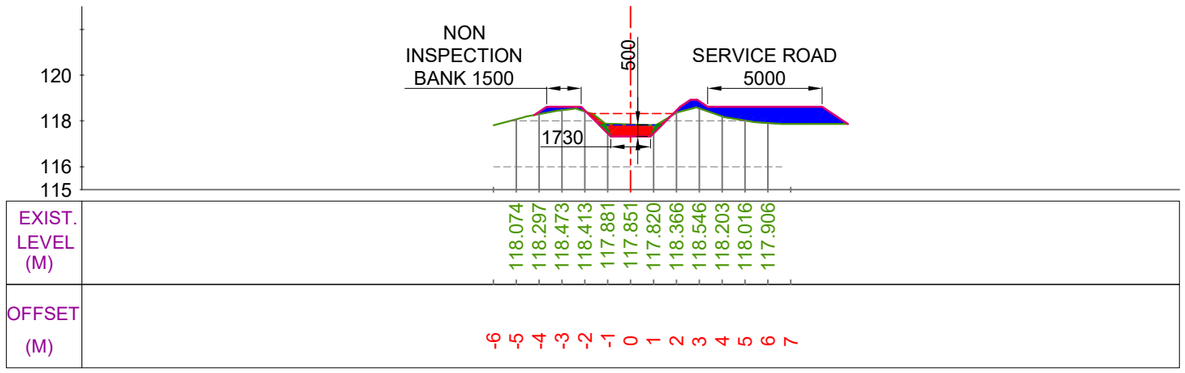
CUTTING AREA (SQ.M) = 2.443 CH. (KM):- 1+300

FILLING AREA (SQ.M) = 2.036 DESIGNED BED LEVEL = 117.345 M



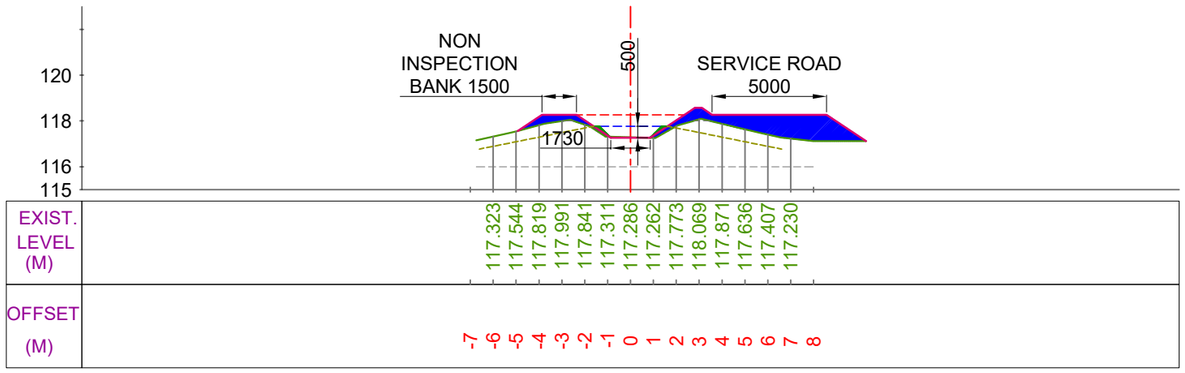
CUTTING AREA (SQ.M) = 0.651 CH. (KM):- 1+500

FILLING AREA (SQ.M) = 3.982 DESIGNED BED LEVEL = 117.295 M



CUTTING AREA (SQ.M) = 1.245 CH. (KM):- 1+400

FILLING AREA (SQ.M) = 4.300 DESIGNED BED LEVEL = 117.320 M



CUTTING AREA (SQ.M) = 0.030 CH. (KM):- 1+600

FILLING AREA (SQ.M) = 6.875 DESIGNED BED LEVEL = 117.270 M

LEGEND

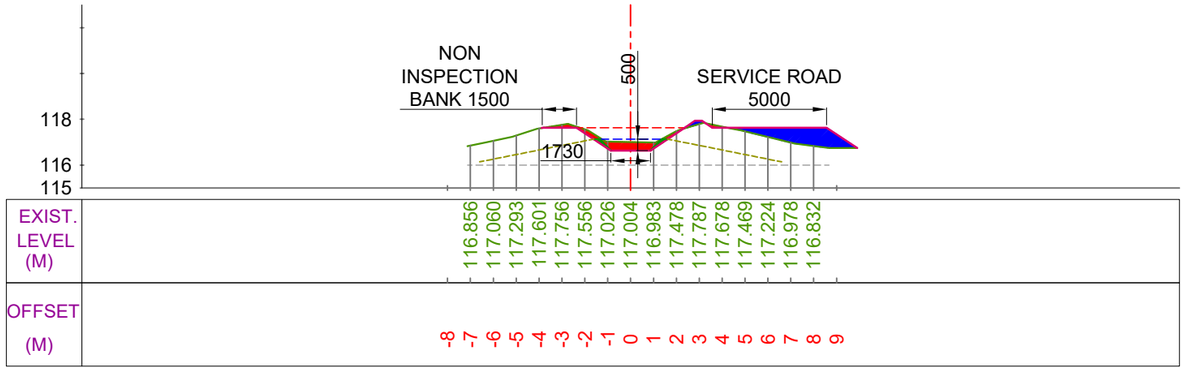
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

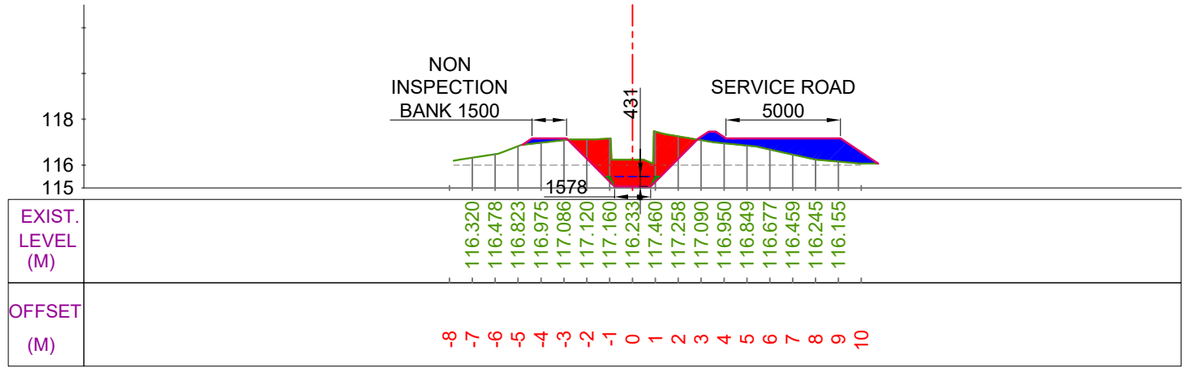
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 4 of 7

X SECTION OF AMAR BIGHA MINOR



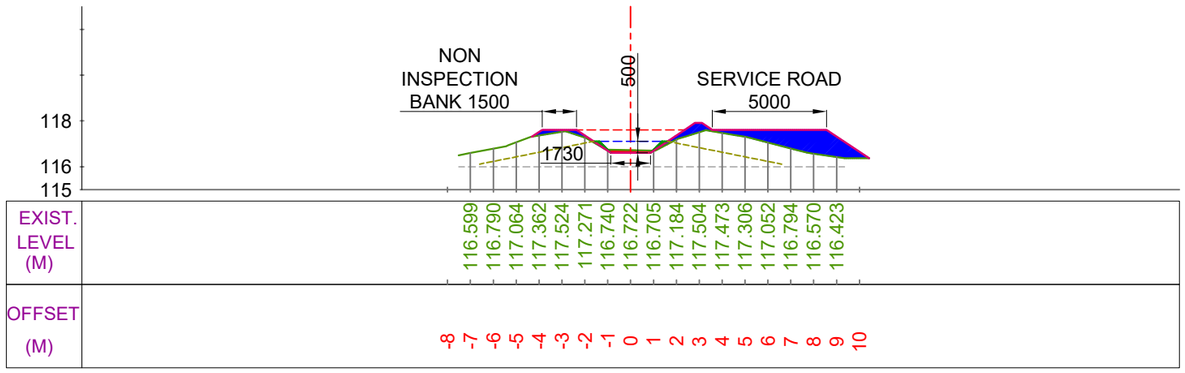
CUTTING AREA (SQ.M) = 1.213 CH. (KM):- 1+700

FILLING AREA (SQ.M) = 2.801 DESIGNED BED LEVEL = 116.635 M



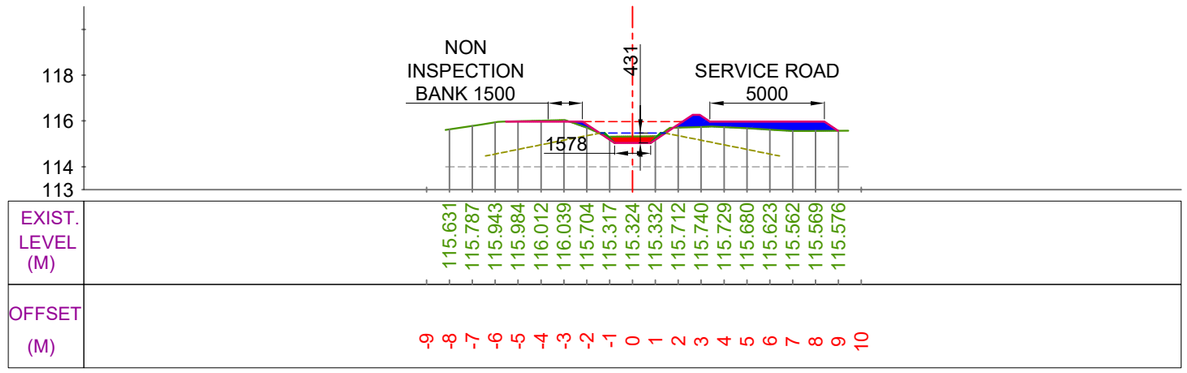
CUTTING AREA (SQ.M) = 6.027 CH. (KM):- 1+900

FILLING AREA (SQ.M) = 4.631 DESIGNED BED LEVEL = 115.065 M



CUTTING AREA (SQ.M) = 0.207 CH. (KM):- 1+800

FILLING AREA (SQ.M) = 4.978 DESIGNED BED LEVEL = 116.610 M



CUTTING AREA (SQ.M) = 0.661 CH. (KM):- 2+000

FILLING AREA (SQ.M) = 2.467 DESIGNED BED LEVEL = 115.039 M

LEGEND

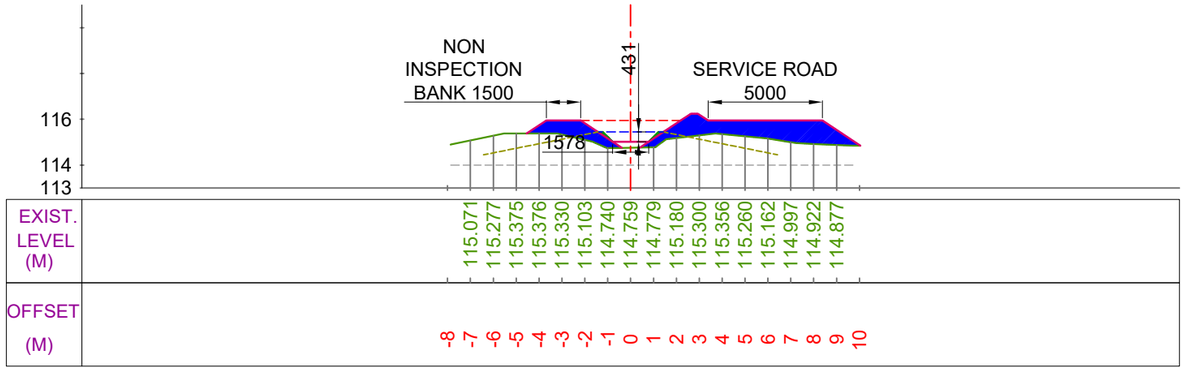
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

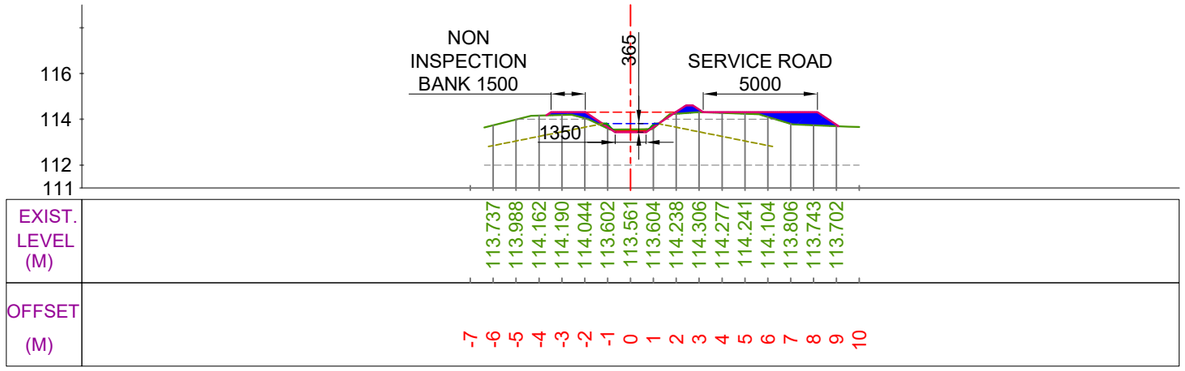
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 5 of 7

X SECTION OF AMAR BIGHA MINOR



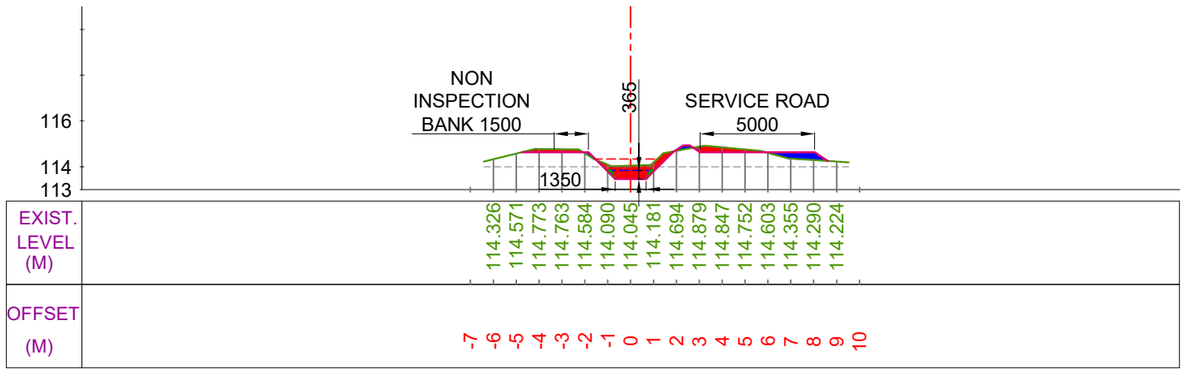
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 2+100

FILLING AREA (SQ.M) = 8.610 DESIGNED BED LEVEL = 115.014 M



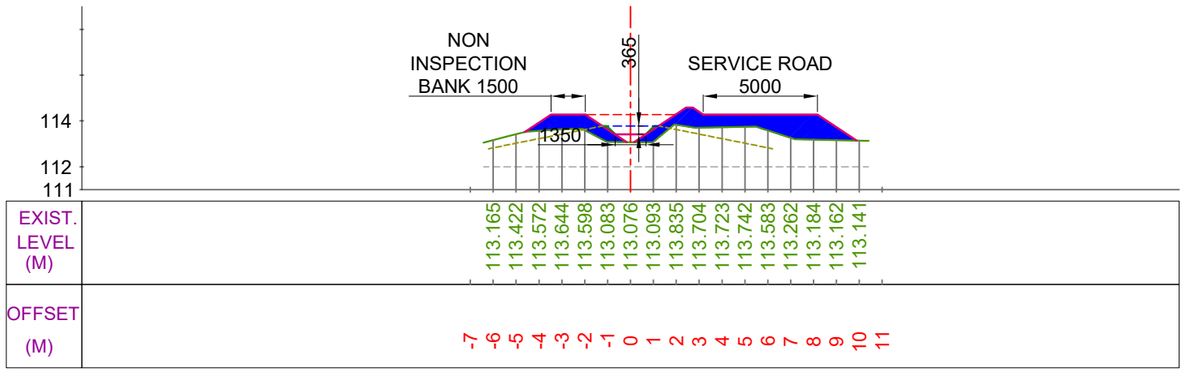
CUTTING AREA (SQ.M) = 0.200 CH. (KM):- 2+300

FILLING AREA (SQ.M) = 2.067 DESIGNED BED LEVEL = 113.442 M



CUTTING AREA (SQ.M) = 2.130 CH. (KM):- 2+200

FILLING AREA (SQ.M) = 0.726 DESIGNED BED LEVEL = 113.468 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 2+400

FILLING AREA (SQ.M) = 8.407 DESIGNED BED LEVEL = 113.417 M

LEGEND

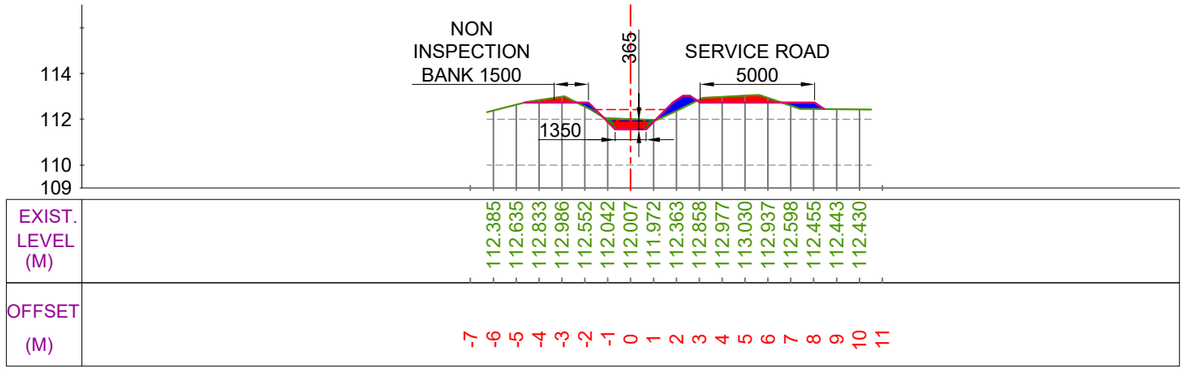
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

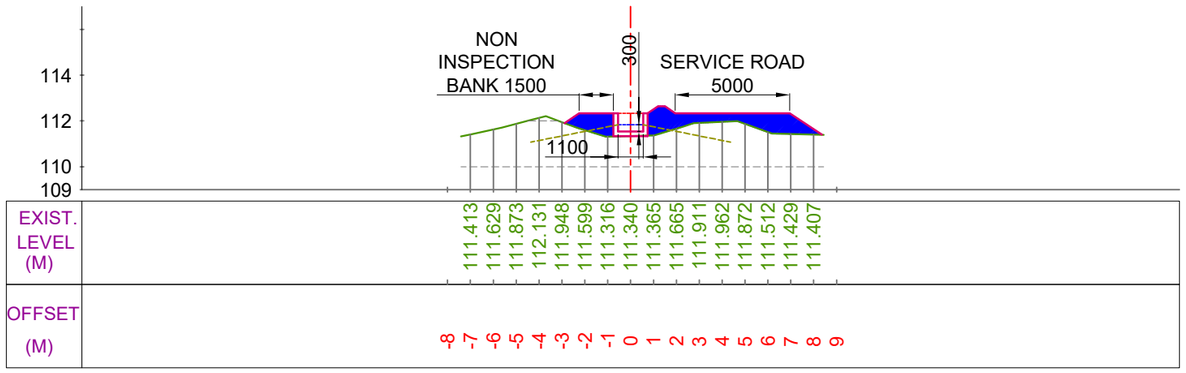
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 6 of 7

X SECTION OF AMAR BIGHA MINOR



CUTTING AREA (SQ.M) = 1.931 CH. (KM):- 2+500

FILLING AREA (SQ.M) = 1.055 DESIGNED BED LEVEL = 111.561 M



CUTTING AREA (SQ.M) = 0.011 CH. (KM):- 2+600

FILLING AREA (SQ.M) = 6.253 DESIGNED BED LEVEL = 111.536 M

LEGEND

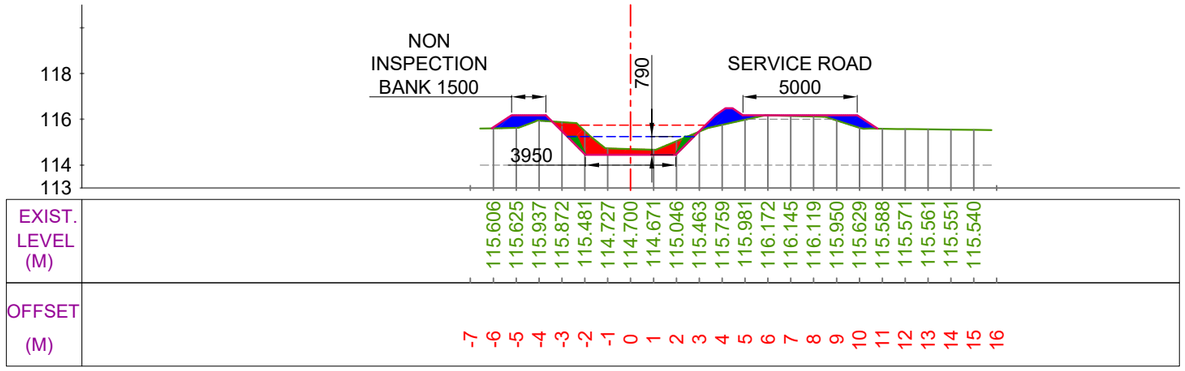
CUT AREA	EXISTING BED LINE
	F.S.L.
FILL AREA	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.

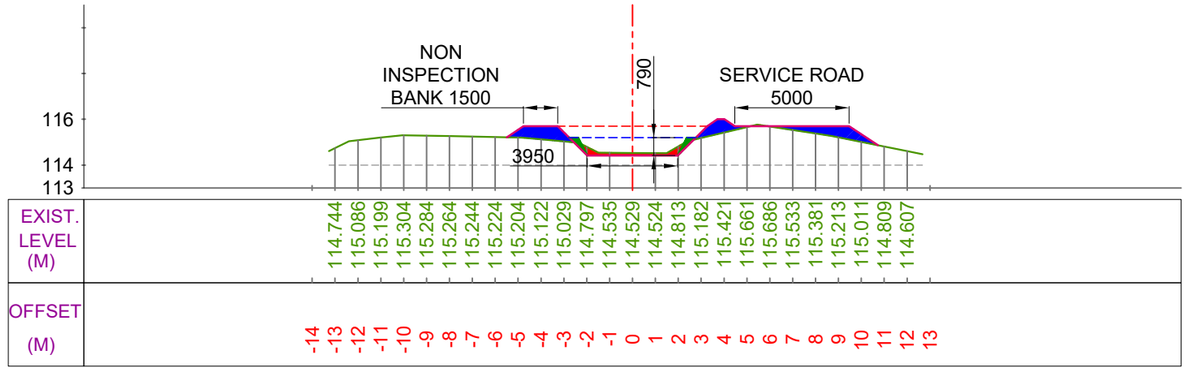
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AMAR BIGHA MR. (OFFTAKE FROM RD - 12+880 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ XSEC- 7 of 7

X SECTION OF CHATARA SUB-DY.



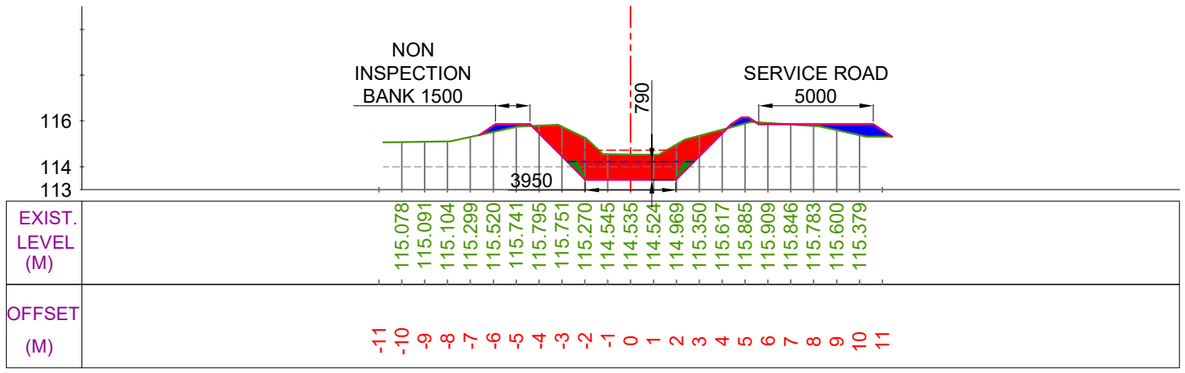
CUTTING AREA (SQ.M) = 2.347 CH. (KM):- 0+100

FILLING AREA (SQ.M) = 2.547 DESIGNED BED LEVEL = 114.451 M



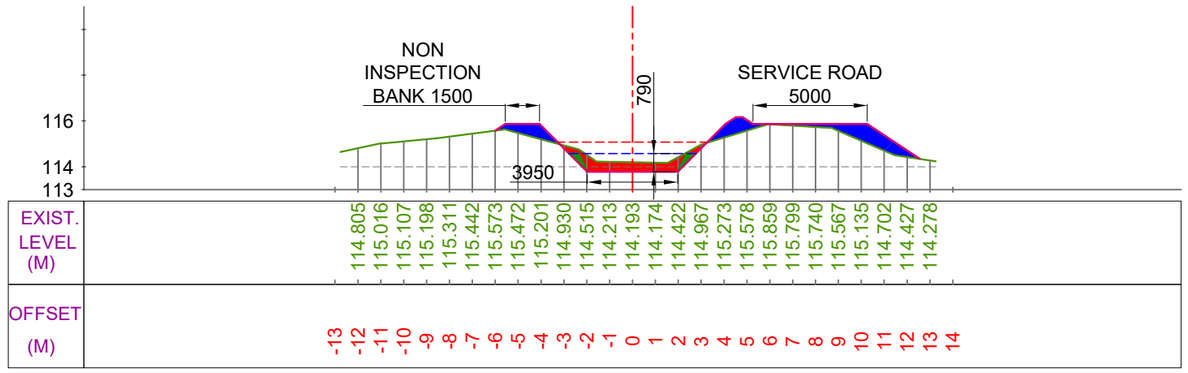
CUTTING AREA (SQ.M) = 0.720 CH. (KM):- 0+300

FILLING AREA (SQ.M) = 3.424 DESIGNED BED LEVEL = 114.411 M



CUTTING AREA (SQ.M) = 8.868 CH. (KM):- 0+200

FILLING AREA (SQ.M) = 1.697 DESIGNED BED LEVEL = 114.431 M



CUTTING AREA (SQ.M) = 2.341 CH. (KM):- 0+400

FILLING AREA (SQ.M) = 4.212 DESIGNED BED LEVEL = 113.781 M

LEGEND

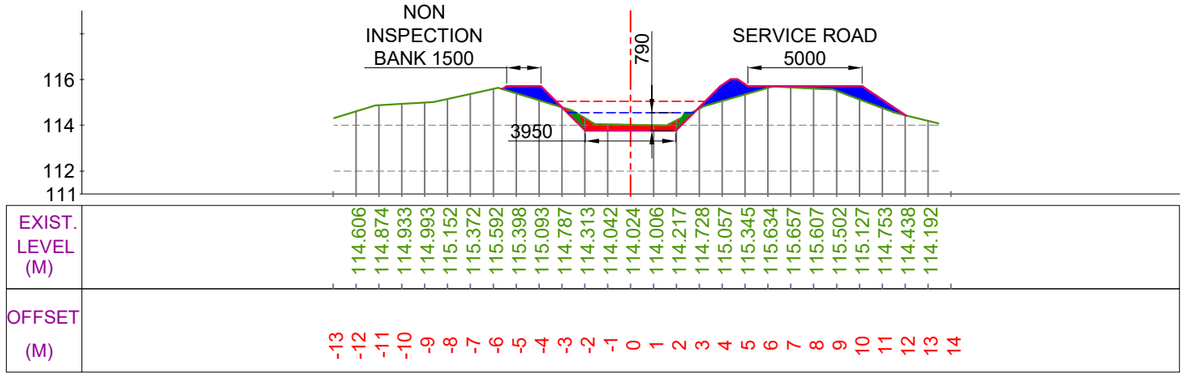
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

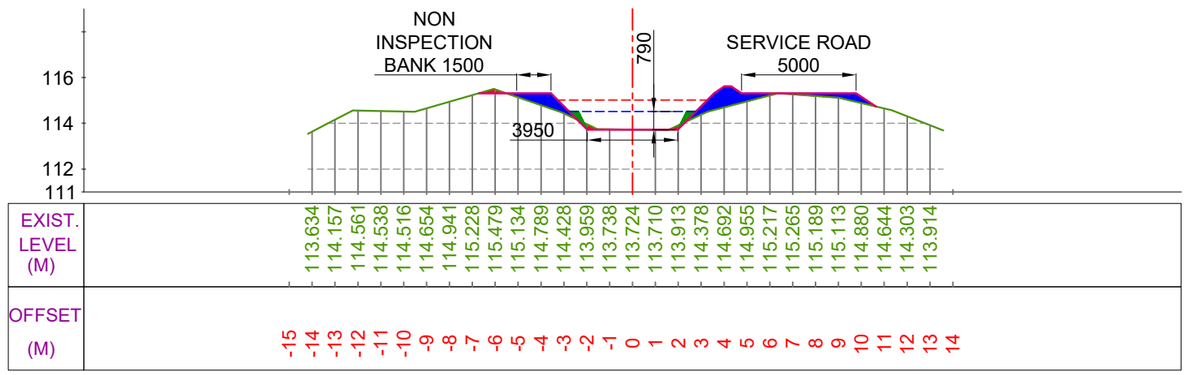
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 1 of 16

X SECTION OF CHATARA SUB-DY.



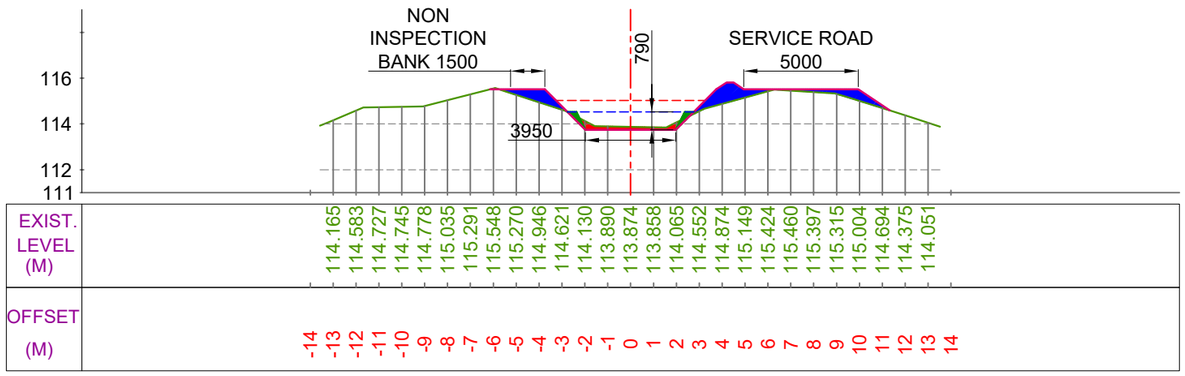
CUTTING AREA (SQ.M) = 1.360 CH. (KM):- 0+500

FILLING AREA (SQ.M) = 3.597 DESIGNED BED LEVEL = 113.761 M



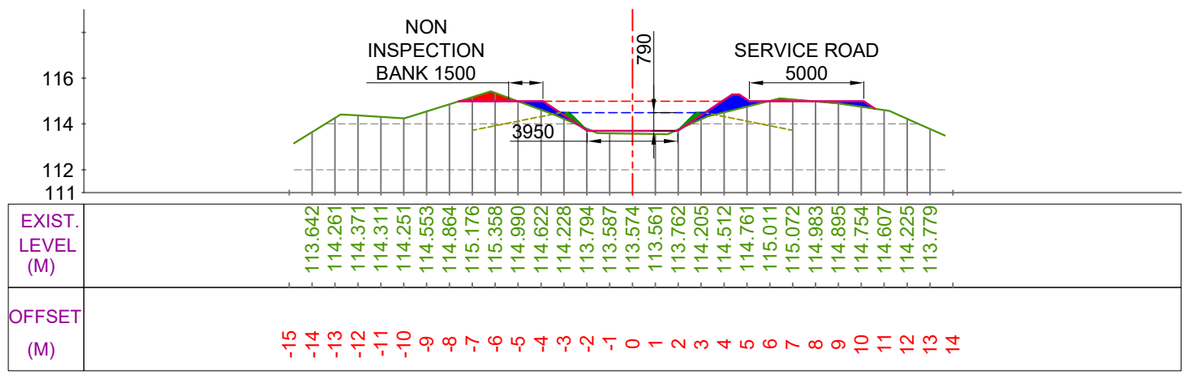
CUTTING AREA (SQ.M) = 0.250 CH. (KM):- 0+700

FILLING AREA (SQ.M) = 3.345 DESIGNED BED LEVEL = 113.721 M



CUTTING AREA (SQ.M) = 0.704 CH. (KM):- 0+600

FILLING AREA (SQ.M) = 3.377 DESIGNED BED LEVEL = 113.741 M



CUTTING AREA (SQ.M) = 0.715 CH. (KM):- 0+800

FILLING AREA (SQ.M) = 1.918 DESIGNED BED LEVEL = 113.701 M

LEGEND

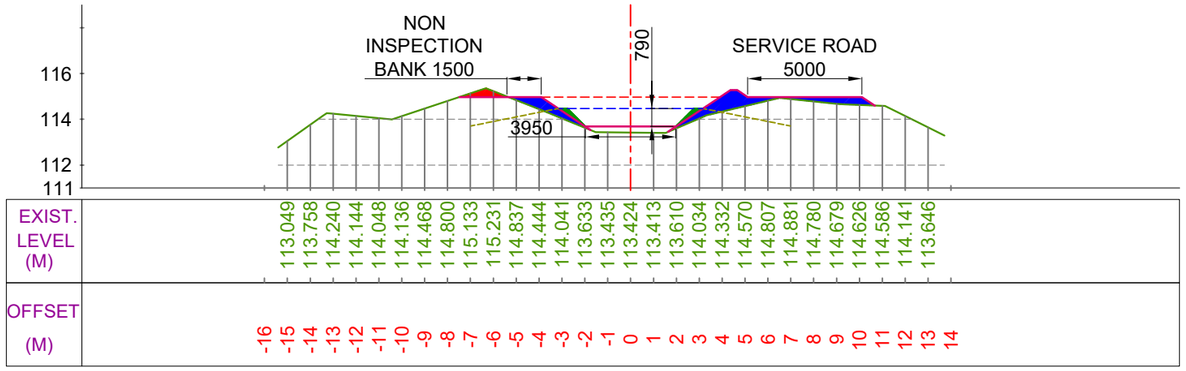
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

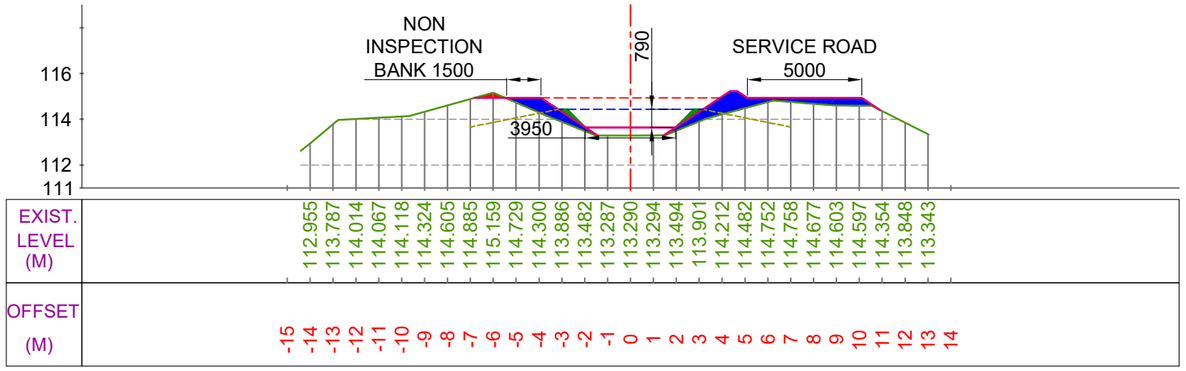
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 2 of 16

X SECTION OF CHATARA SUB-DY.



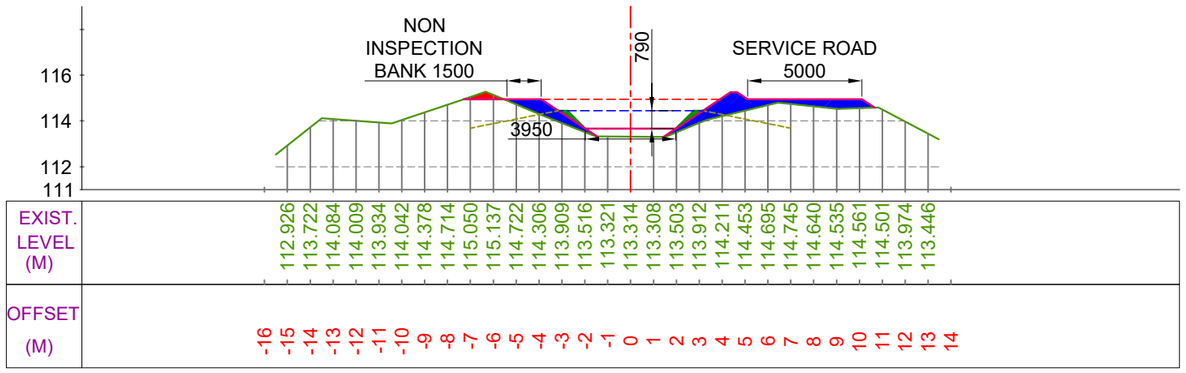
CUTTING AREA (SQ.M) = 0.415 CH. (KM):- 0+900

FILLING AREA (SQ.M) = 3.677 DESIGNED BED LEVEL = 113.681 M



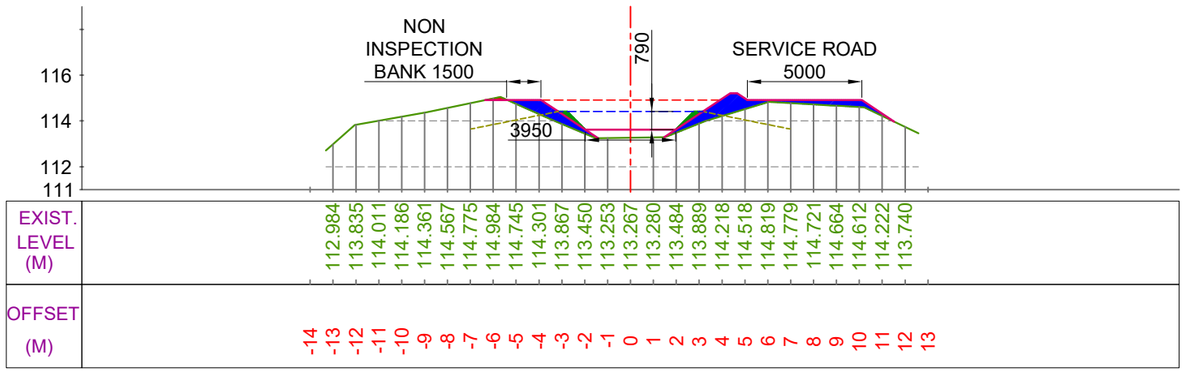
CUTTING AREA (SQ.M) = 0.158 CH. (KM):- 1+100

FILLING AREA (SQ.M) = 4.556 DESIGNED BED LEVEL = 113.641 M



CUTTING AREA (SQ.M) = 0.282 CH. (KM):- 1+000

FILLING AREA (SQ.M) = 4.957 DESIGNED BED LEVEL = 113.661 M



CUTTING AREA (SQ.M) = 0.068 CH. (KM):- 1+200

FILLING AREA (SQ.M) = 4.237 DESIGNED BED LEVEL = 113.621 M

LEGEND

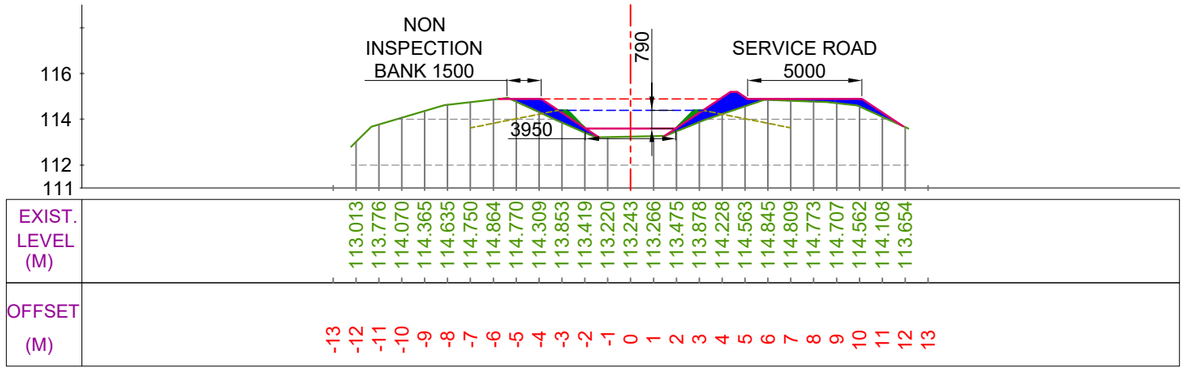
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

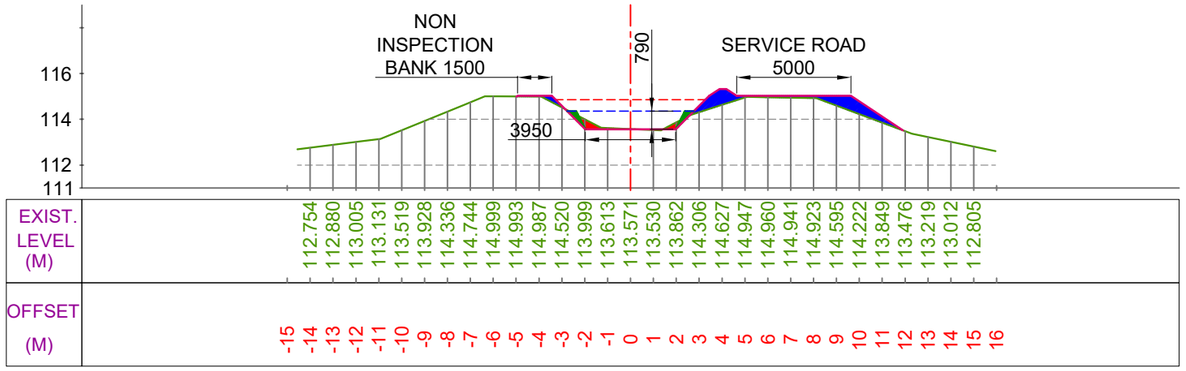
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 3 of 16

X SECTION OF CHATARA SUB-DY.



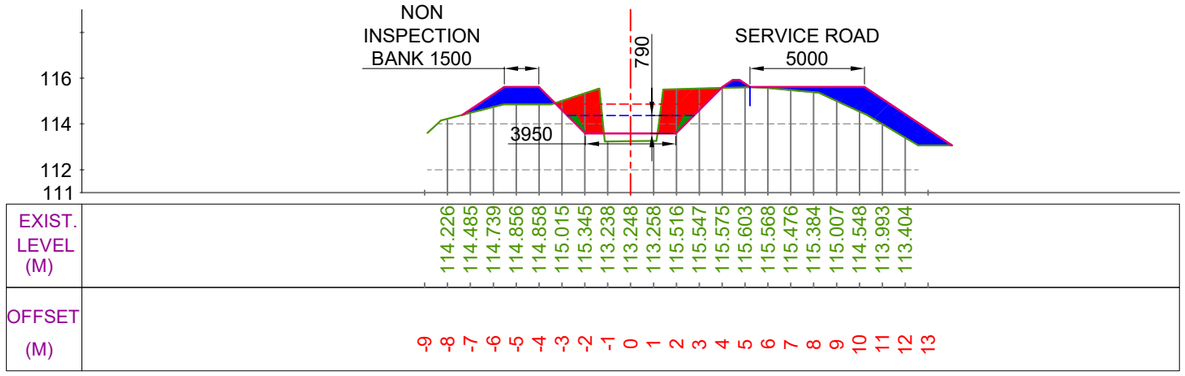
CUTTING AREA (SQ.M) = 0.012 CH. (KM):- 1+300

FILLING AREA (SQ.M) = 3.971 DESIGNED BED LEVEL = 113.601 M



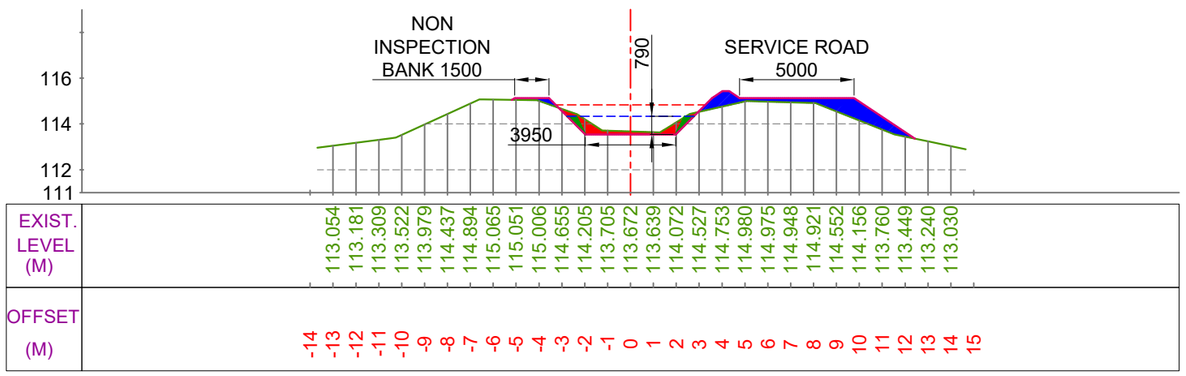
CUTTING AREA (SQ.M) = 0.389 CH. (KM):- 1+500

FILLING AREA (SQ.M) = 2.728 DESIGNED BED LEVEL = 113.561 M



CUTTING AREA (SQ.M) = 5.428 CH. (KM):- 1+400

FILLING AREA (SQ.M) = 7.446 DESIGNED BED LEVEL = 113.581 M



CUTTING AREA (SQ.M) = 1.243 CH. (KM):- 1+600

FILLING AREA (SQ.M) = 3.835 DESIGNED BED LEVEL = 113.541 M

LEGEND

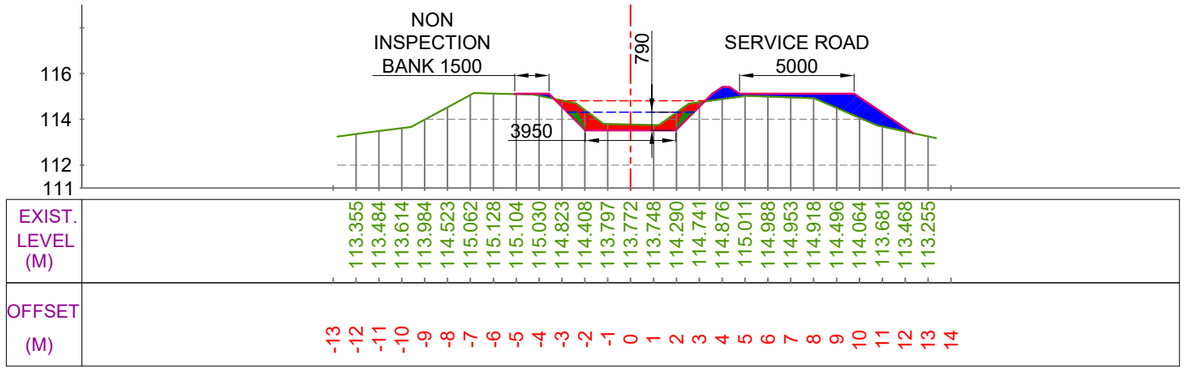
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

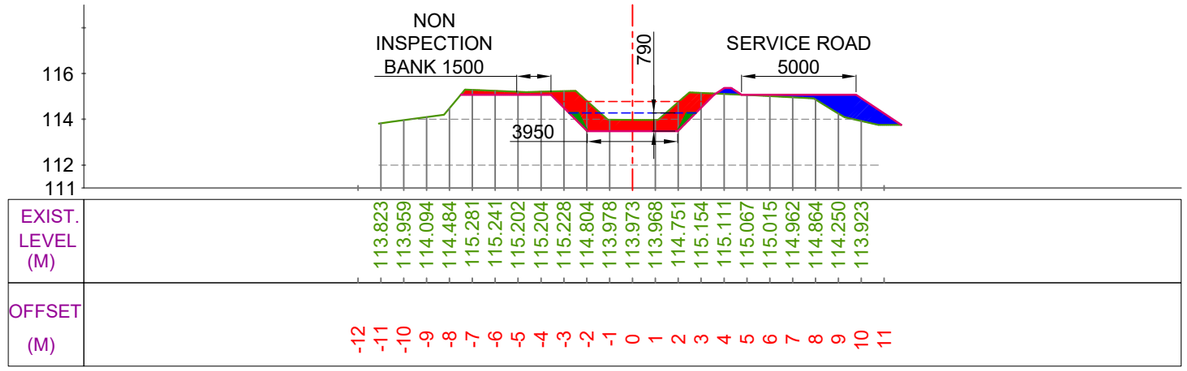
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 4 of 16

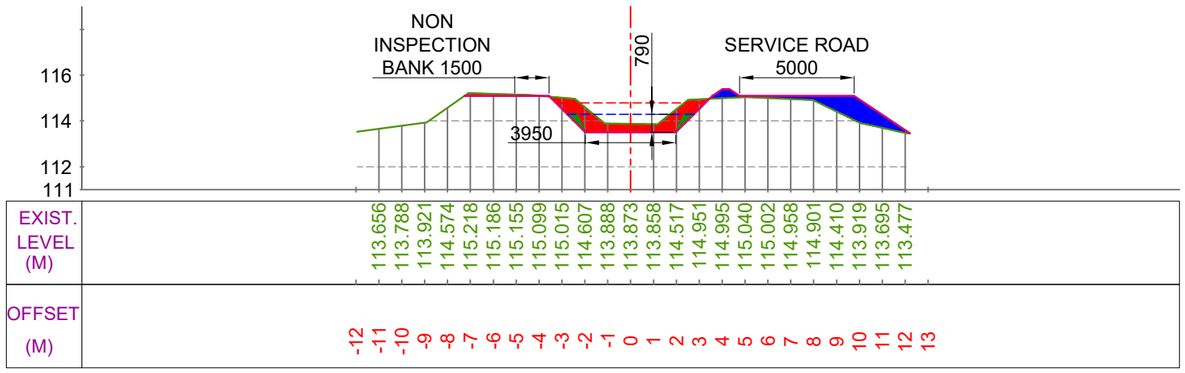
X SECTION OF CHATARA SUB-DY.



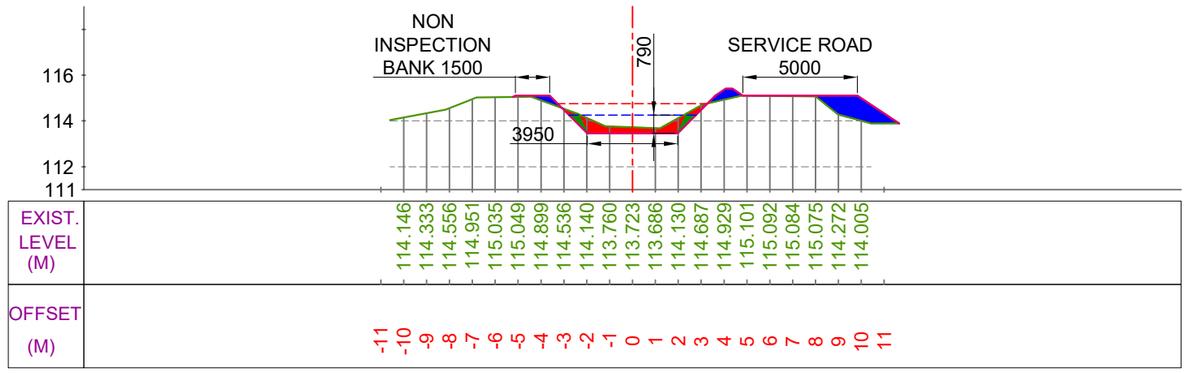
CUTTING AREA (SQ.M) = 2.395 CH. (KM):- 1+700
FILLING AREA (SQ.M) = 3.464 DESIGNED BED LEVEL = 113.521 M



CUTTING AREA (SQ.M) = 5.632 CH. (KM):- 1+900
FILLING AREA (SQ.M) = 2.906 DESIGNED BED LEVEL = 113.481 M



CUTTING AREA (SQ.M) = 3.918 CH. (KM):- 1+800
FILLING AREA (SQ.M) = 3.193 DESIGNED BED LEVEL = 113.501 M



CUTTING AREA (SQ.M) = 1.886 CH. (KM):- 2+000
FILLING AREA (SQ.M) = 3.066 DESIGNED BED LEVEL = 113.461 M

LEGEND

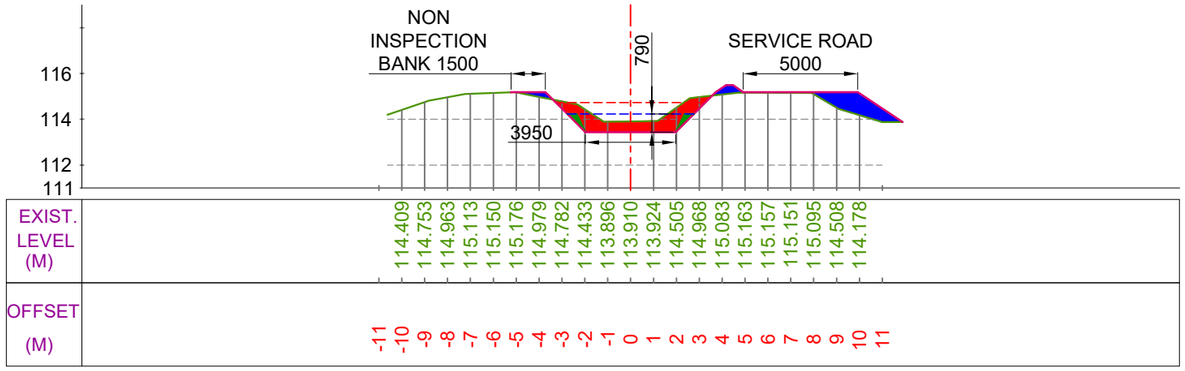
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

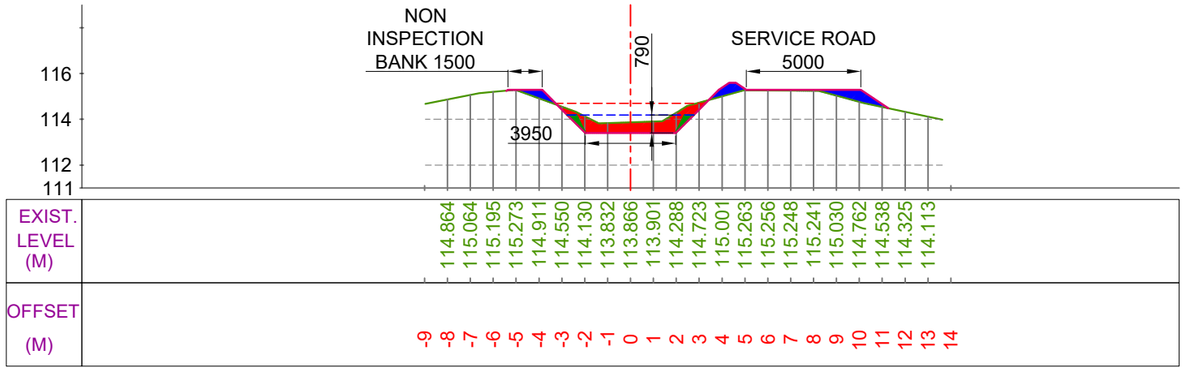
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 5 of 16

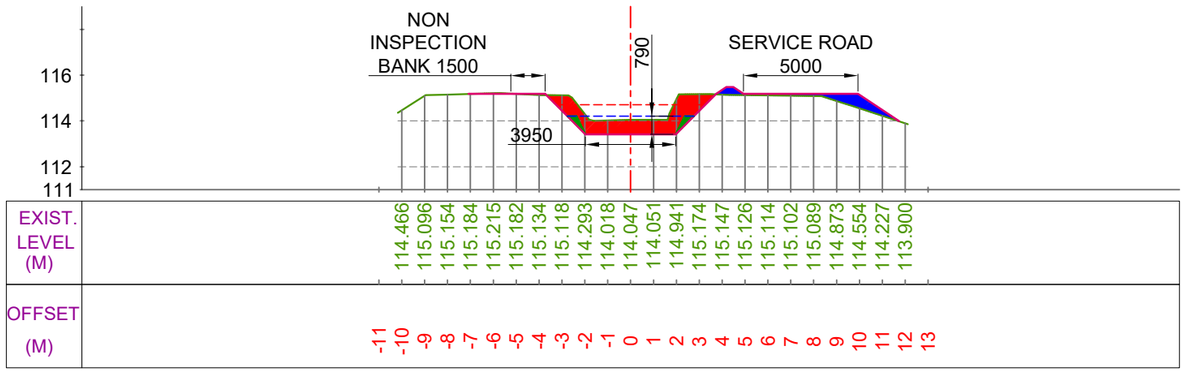
X SECTION OF CHATARA SUB-DY.



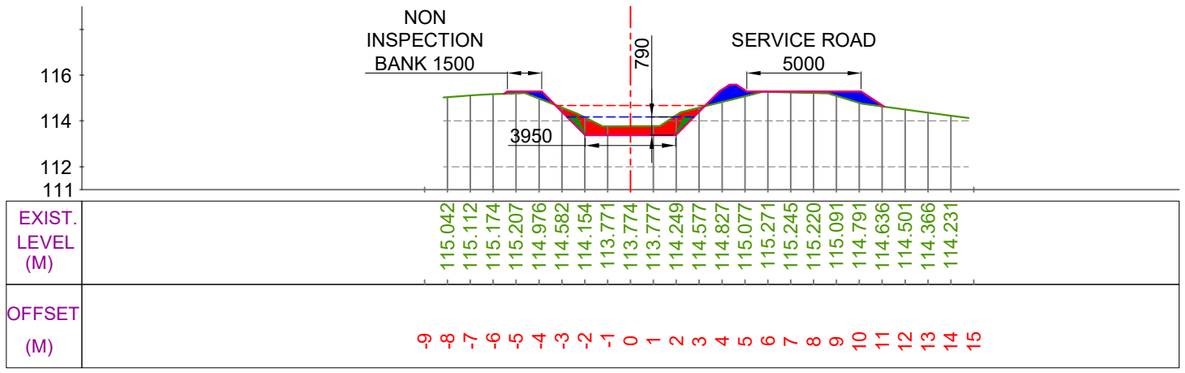
CUTTING AREA (SQ.M) = 3.762 CH. (KM):- 2+100
FILLING AREA (SQ.M) = 2.933 DESIGNED BED LEVEL = 113.441 M



CUTTING AREA (SQ.M) = 2.885 CH. (KM):- 2+300
FILLING AREA (SQ.M) = 1.881 DESIGNED BED LEVEL = 113.401 M



CUTTING AREA (SQ.M) = 5.017 CH. (KM):- 2+200
FILLING AREA (SQ.M) = 1.678 DESIGNED BED LEVEL = 113.421 M



CUTTING AREA (SQ.M) = 2.635 CH. (KM):- 2+400
FILLING AREA (SQ.M) = 2.020 DESIGNED BED LEVEL = 113.381 M

LEGEND

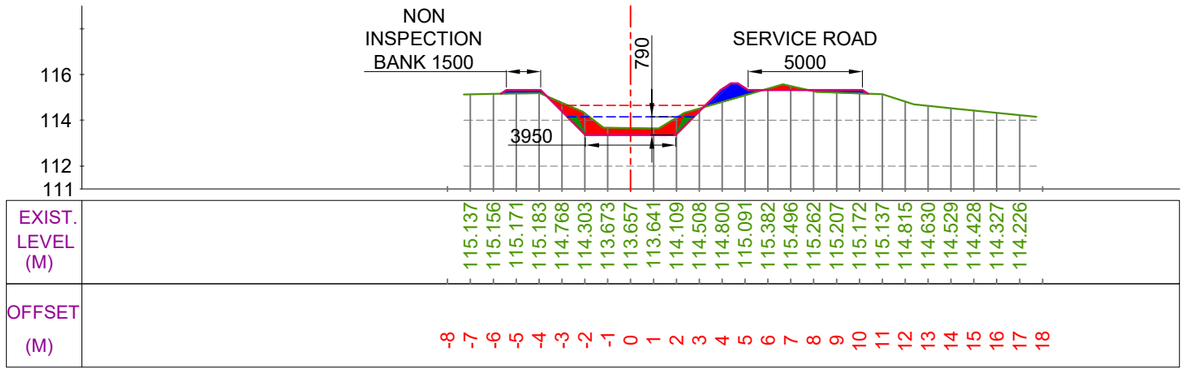
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

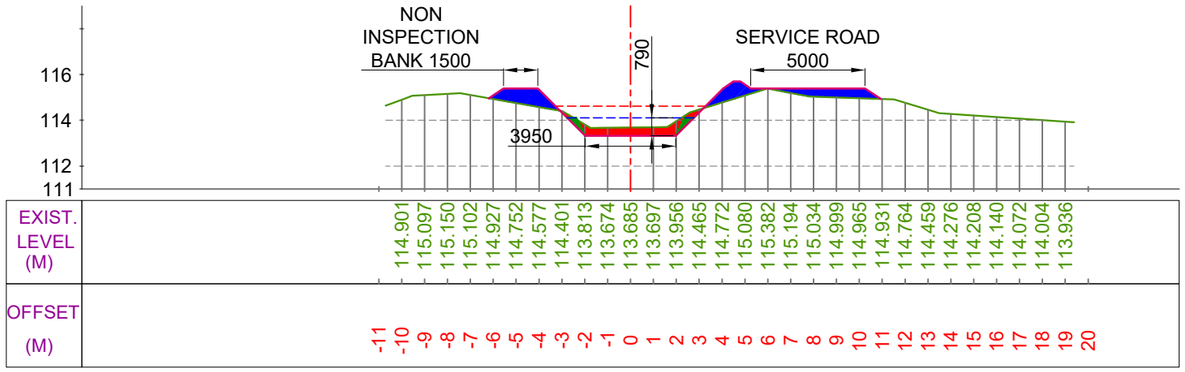
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 6 of 16

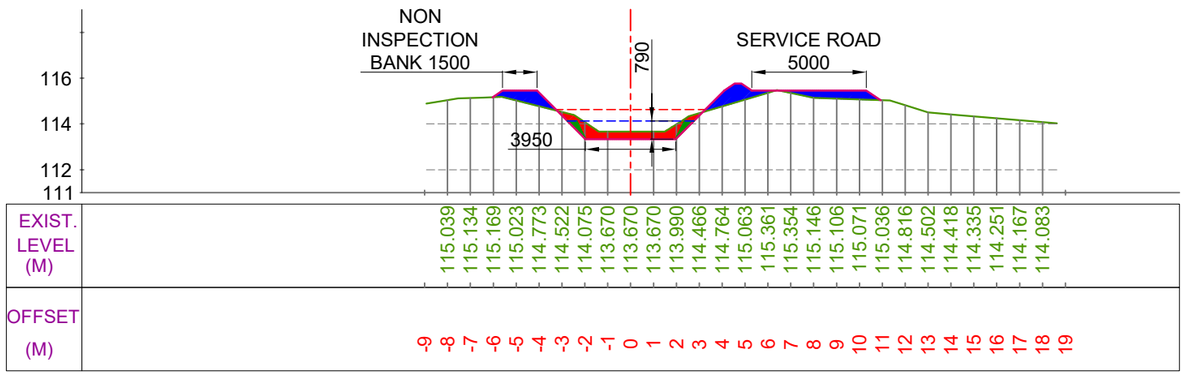
X SECTION OF CHATARA SUB-DY.



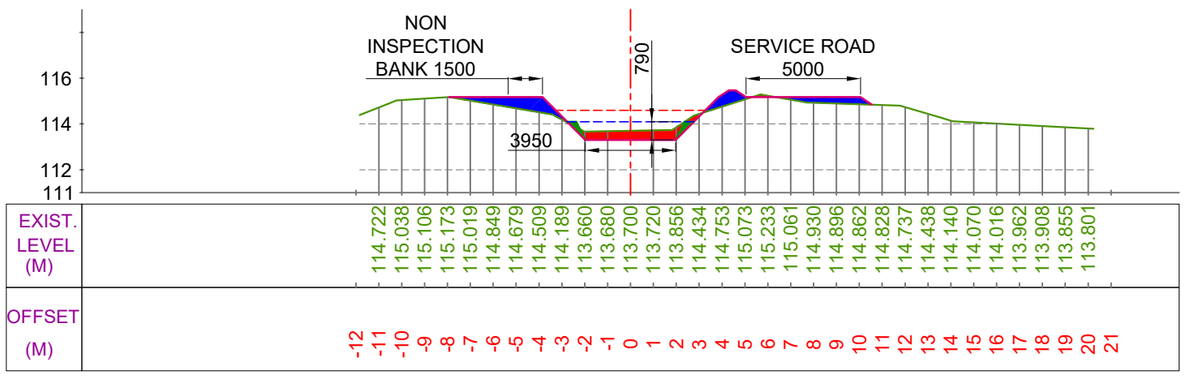
CUTTING AREA (SQ.M) = 2.822 CH. (KM):- 2+500
FILLING AREA (SQ.M) = 1.453 DESIGNED BED LEVEL = 113.361 M



CUTTING AREA (SQ.M) = 1.900 CH. (KM):- 2+700
FILLING AREA (SQ.M) = 4.123 DESIGNED BED LEVEL = 113.321 M



CUTTING AREA (SQ.M) = 2.121 CH. (KM):- 2+600
FILLING AREA (SQ.M) = 3.538 DESIGNED BED LEVEL = 113.341 M



CUTTING AREA (SQ.M) = 1.901 CH. (KM):- 2+800
FILLING AREA (SQ.M) = 3.353 DESIGNED BED LEVEL = 113.301 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

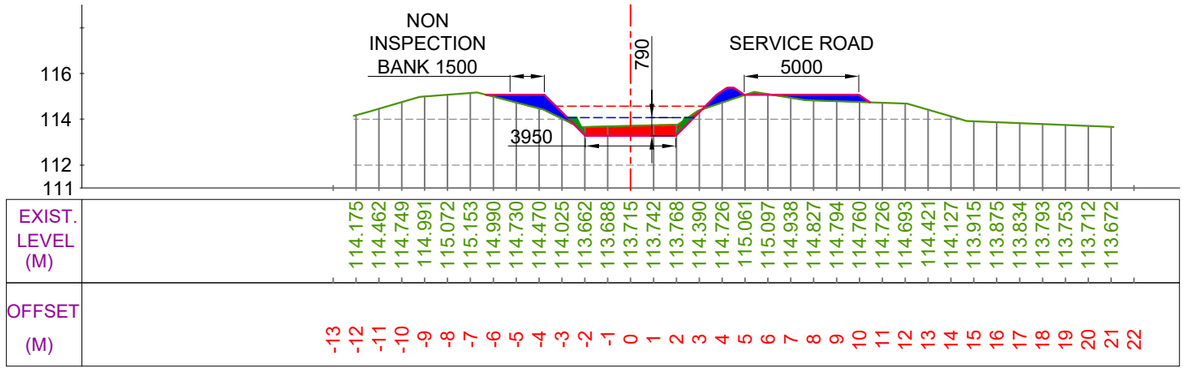
H.G. LINE

Prepared by :-

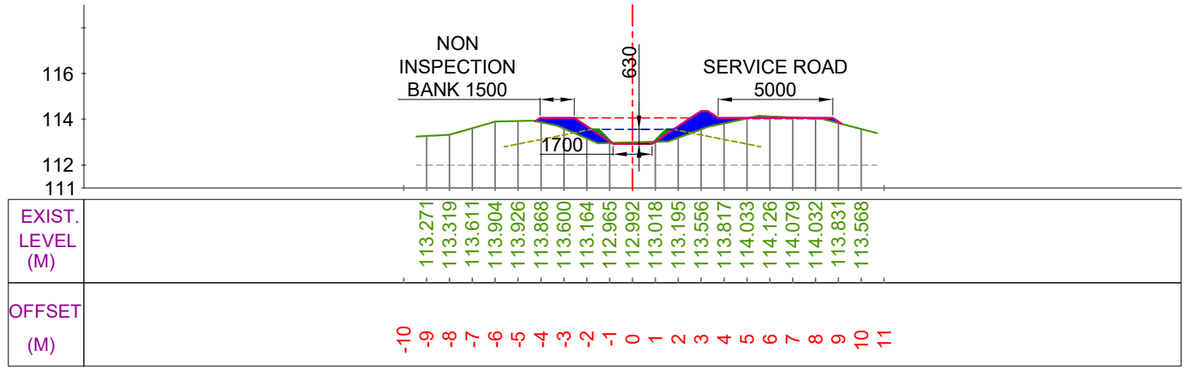
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 7 of 16

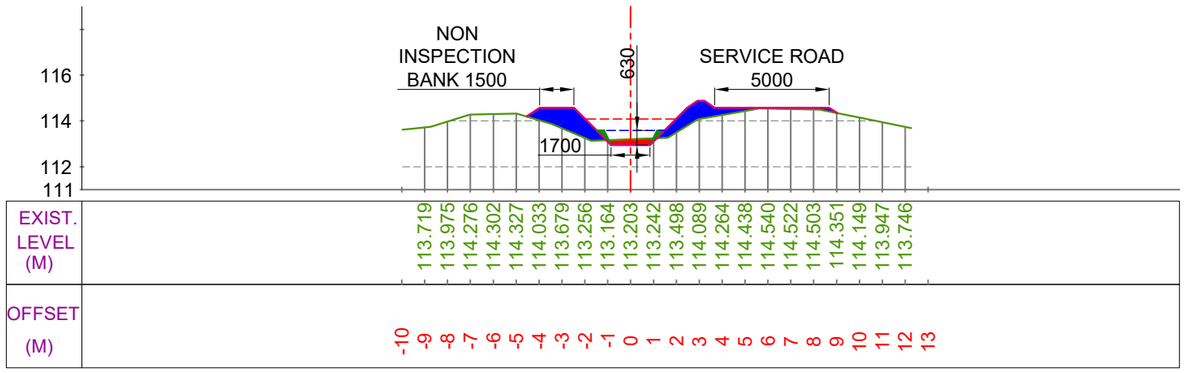
X SECTION OF CHATARA SUB-DY.



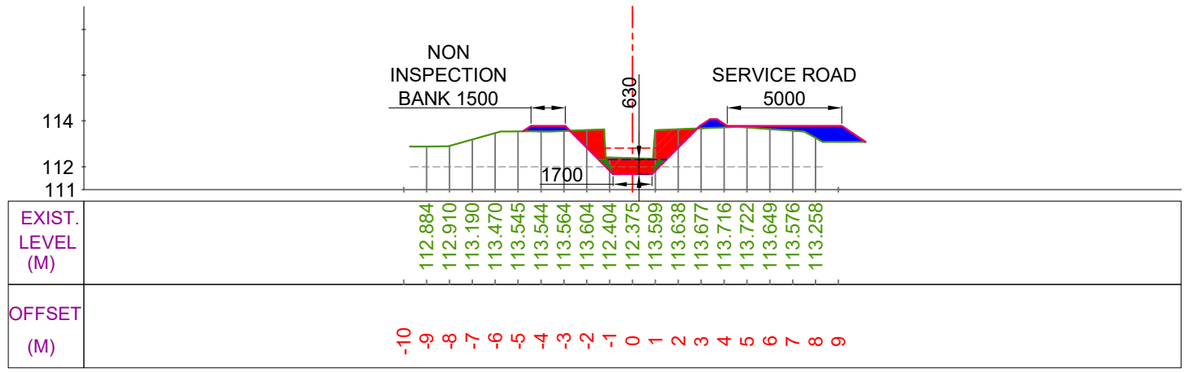
CUTTING AREA (SQ.M) = 1.952 CH. (KM):- 2+900
FILLING AREA (SQ.M) = 2.806 DESIGNED BED LEVEL = 113.281 M



CUTTING AREA (SQ.M) = 0.217 CH. (KM):- 3+100
FILLING AREA (SQ.M) = 2.950 DESIGNED BED LEVEL = 112.928 M



CUTTING AREA (SQ.M) = 0.456 CH. (KM):- 3+000
FILLING AREA (SQ.M) = 4.390 DESIGNED BED LEVEL = 112.953 M



CUTTING AREA (SQ.M) = 4.180 CH. (KM):- 3+200
FILLING AREA (SQ.M) = 2.408 DESIGNED BED LEVEL = 111.683 M

LEGEND

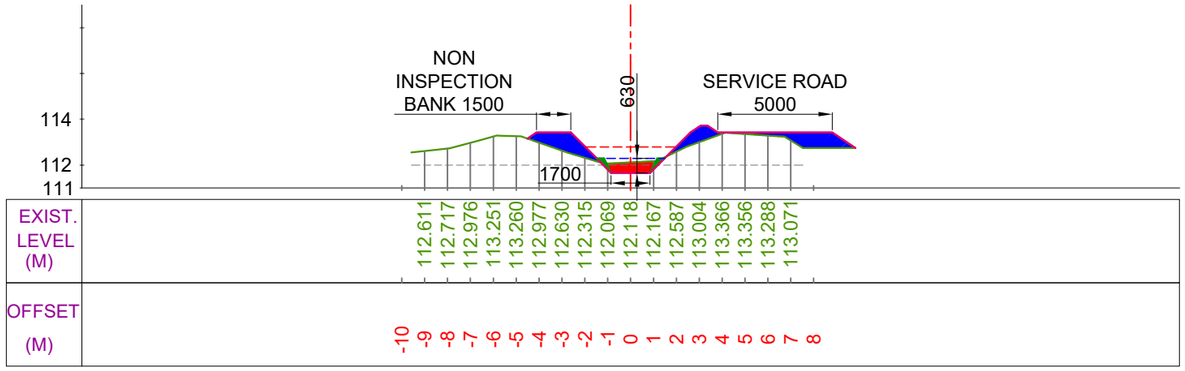
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

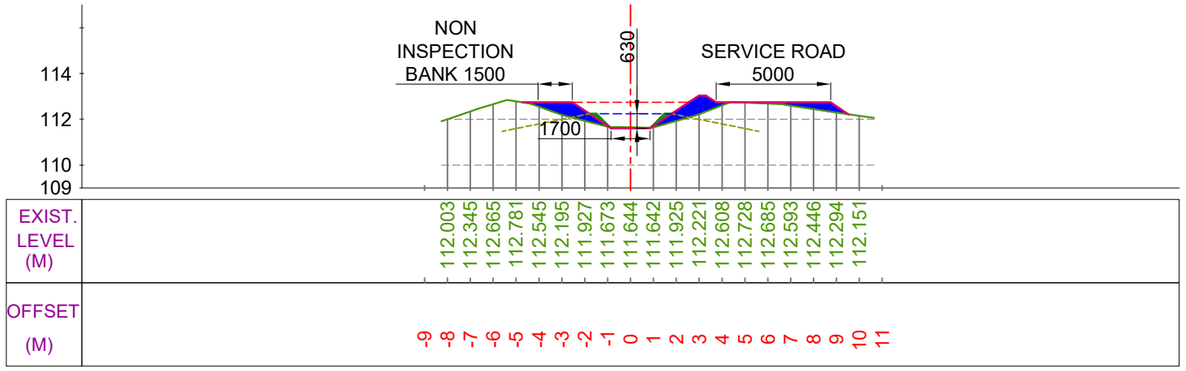
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 8 of 16

X SECTION OF CHATARA SUB-DY.



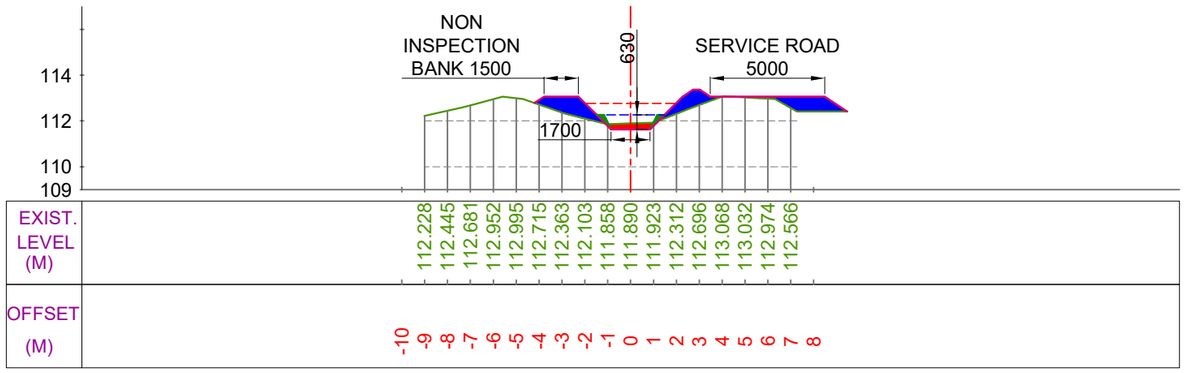
CUTTING AREA (SQ.M) = 0.889 CH. (KM):- 3+300

FILLING AREA (SQ.M) = 4.406 DESIGNED BED LEVEL = 111.658 M



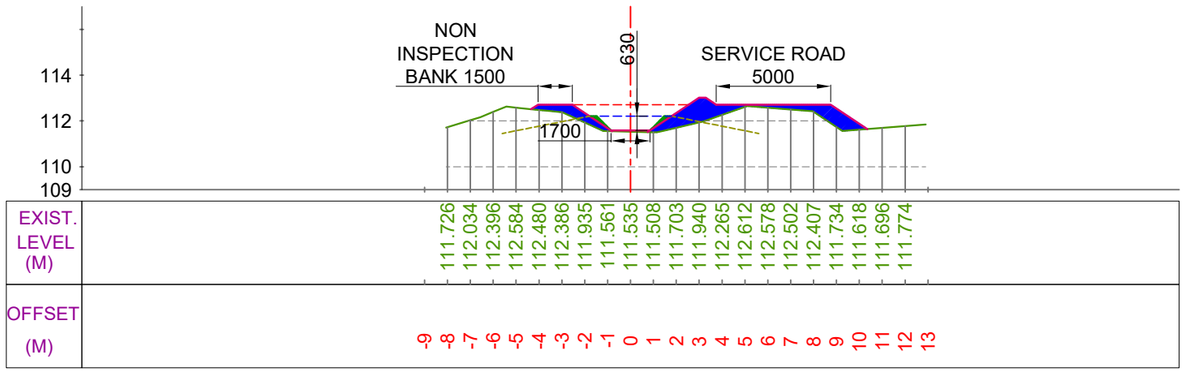
CUTTING AREA (SQ.M) = 0.067 CH. (KM):- 3+500

FILLING AREA (SQ.M) = 3.410 DESIGNED BED LEVEL = 111.608 M



CUTTING AREA (SQ.M) = 0.477 CH. (KM):- 3+400

FILLING AREA (SQ.M) = 4.301 DESIGNED BED LEVEL = 111.633 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+600

FILLING AREA (SQ.M) = 5.243 DESIGNED BED LEVEL = 111.583 M

LEGEND

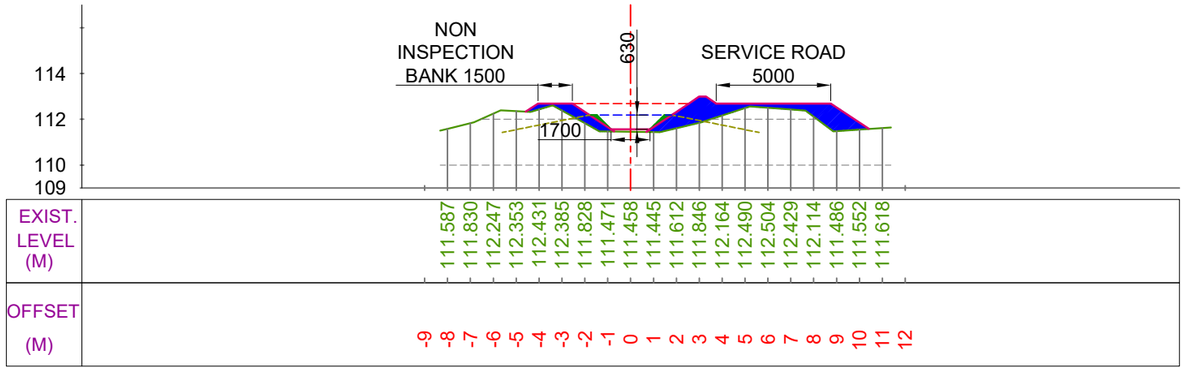
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

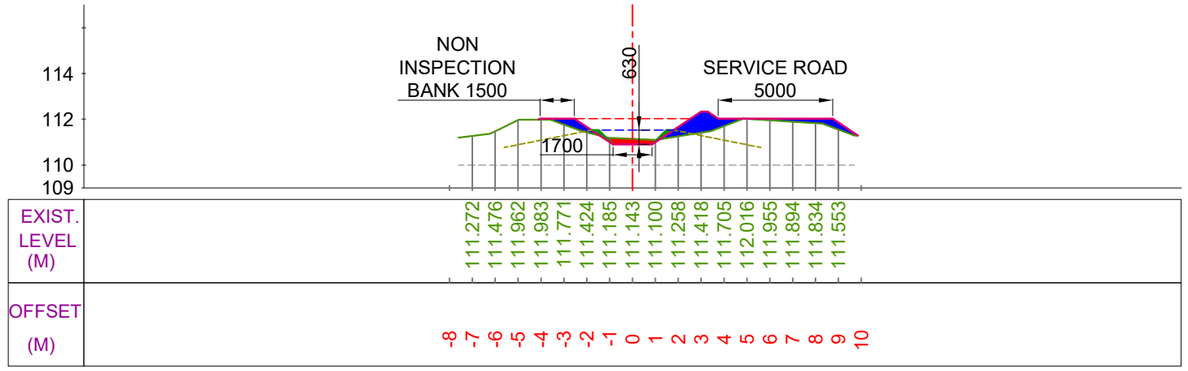
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 9 of 16

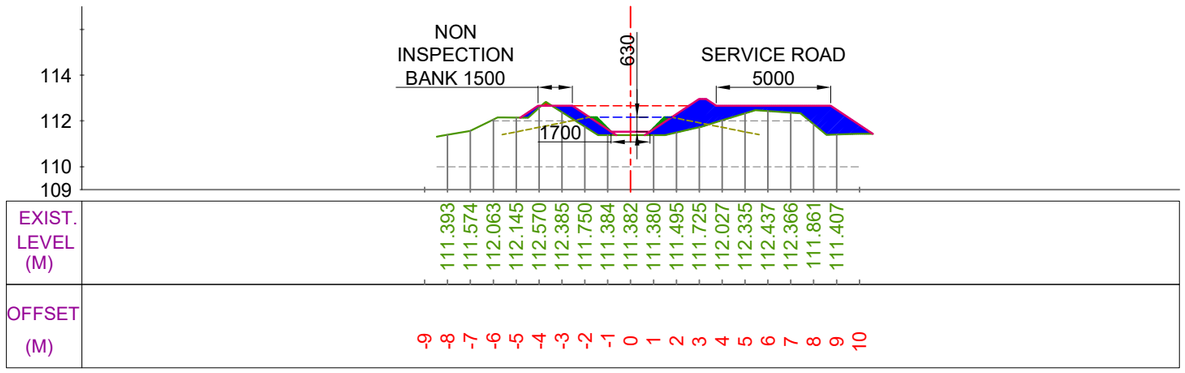
X SECTION OF CHATARA SUB-DY.



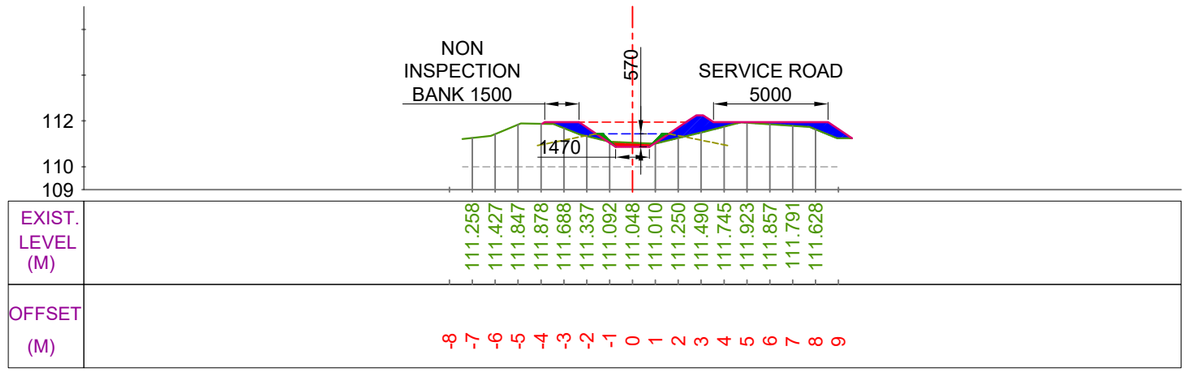
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+700
FILLING AREA (SQ.M) = 6.203 DESIGNED BED LEVEL = 111.558 M



CUTTING AREA (SQ.M) = 0.479 CH. (KM):- 3+900
FILLING AREA (SQ.M) = 2.869 DESIGNED BED LEVEL = 110.898 M



CUTTING AREA (SQ.M) = 0.040 CH. (KM):- 3+800
FILLING AREA (SQ.M) = 7.178 DESIGNED BED LEVEL = 111.533 M



CUTTING AREA (SQ.M) = 0.289 CH. (KM):- 4+000
FILLING AREA (SQ.M) = 3.038 DESIGNED BED LEVEL = 110.873 M

LEGEND

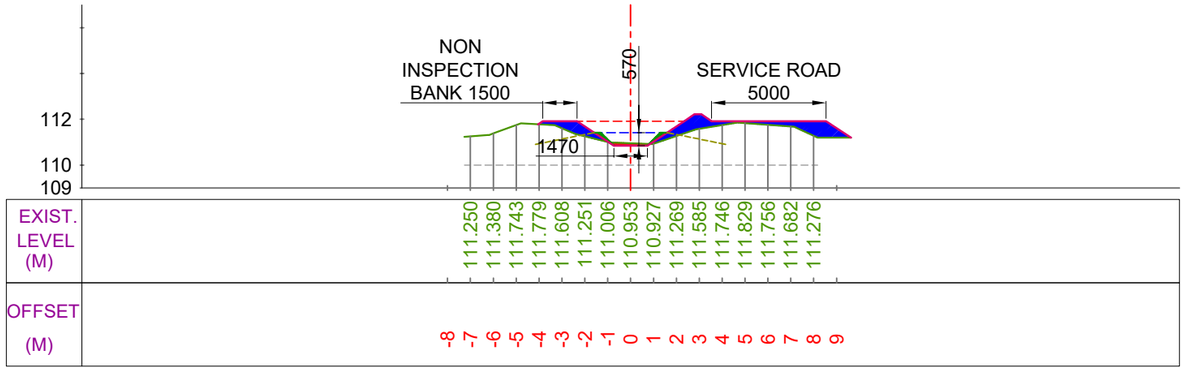
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

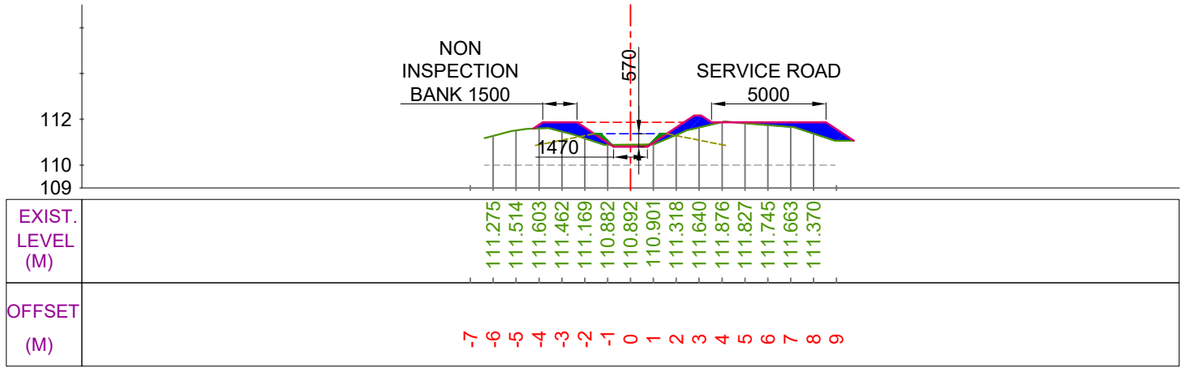
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 10 of 16

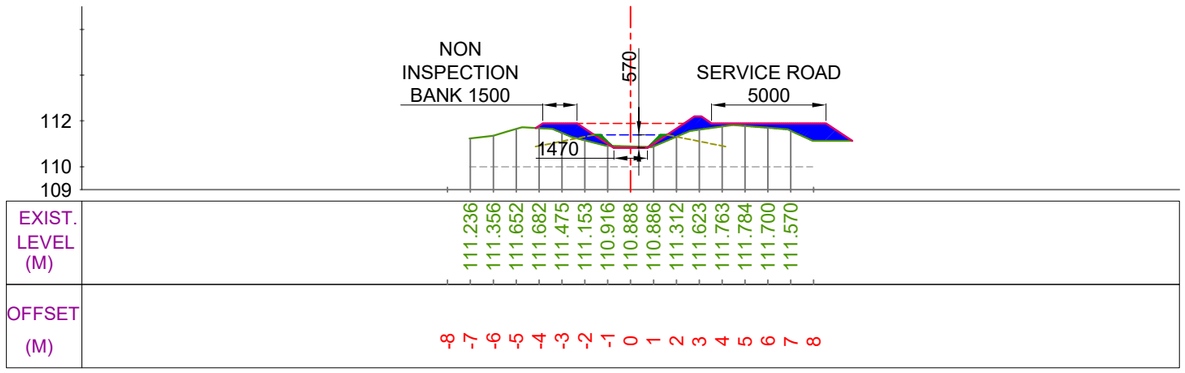
X SECTION OF CHATARA SUB-DY.



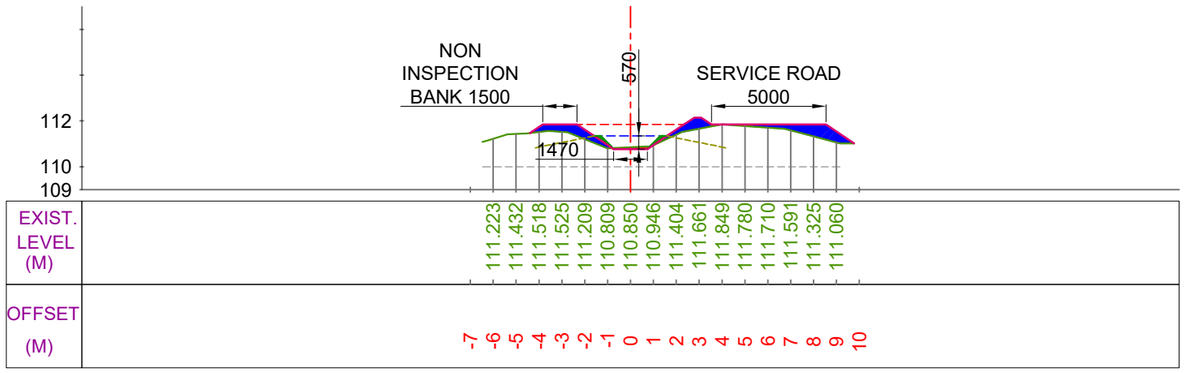
CUTTING AREA (SQ.M) = 0.166 CH. (KM):- 4+100
FILLING AREA (SQ.M) = 3.688 DESIGNED BED LEVEL = 110.848 M



CUTTING AREA (SQ.M) = 0.155 CH. (KM):- 4+300
FILLING AREA (SQ.M) = 3.369 DESIGNED BED LEVEL = 110.798 M



CUTTING AREA (SQ.M) = 0.100 CH. (KM):- 4+200
FILLING AREA (SQ.M) = 4.041 DESIGNED BED LEVEL = 110.823 M



CUTTING AREA (SQ.M) = 0.121 CH. (KM):- 4+400
FILLING AREA (SQ.M) = 3.160 DESIGNED BED LEVEL = 110.773 M

LEGEND

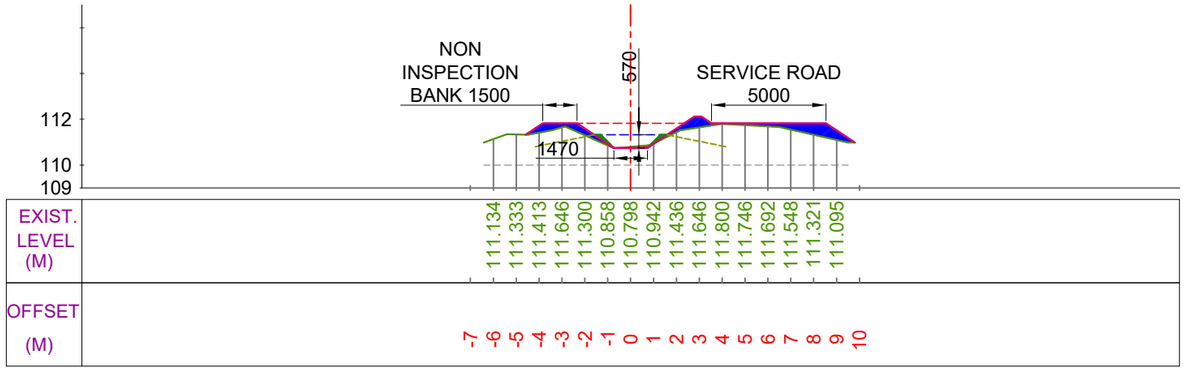
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

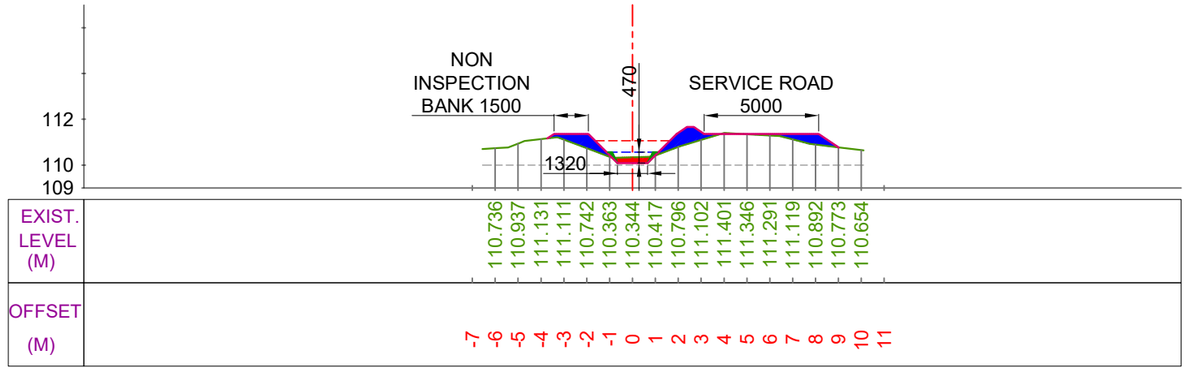
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 11 of 16

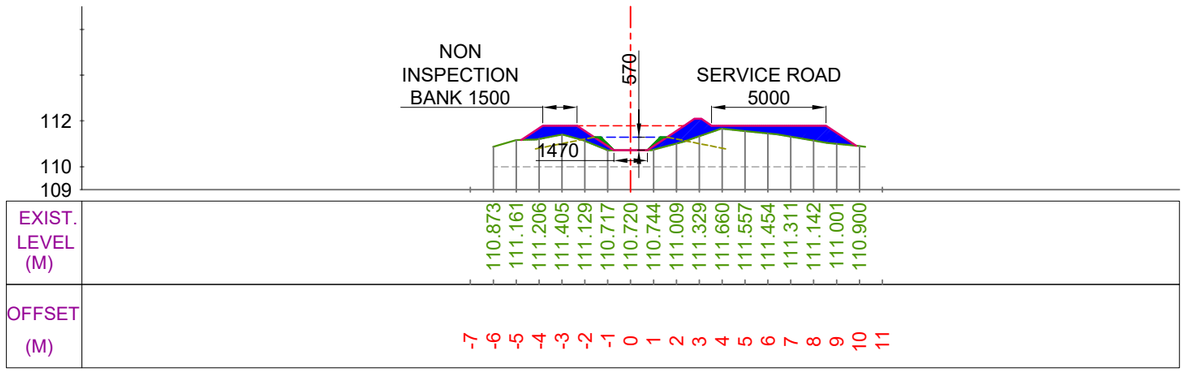
X SECTION OF CHATARA SUB-DY.



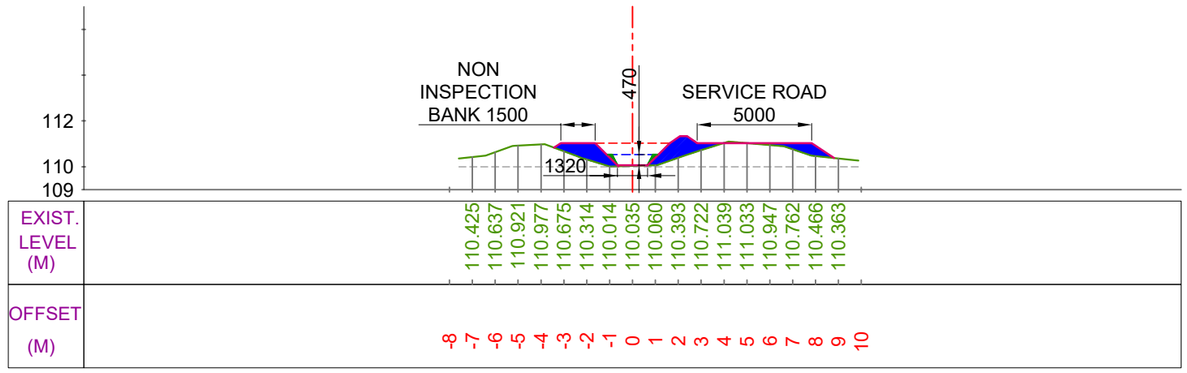
CUTTING AREA (SQ.M) = 0.082 CH. (KM):- 4+500
FILLING AREA (SQ.M) = 2.868 DESIGNED BED LEVEL = 110.748 M



CUTTING AREA (SQ.M) = 0.391 CH. (KM):- 4+700
FILLING AREA (SQ.M) = 2.779 DESIGNED BED LEVEL = 110.088 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 4+600
FILLING AREA (SQ.M) = 5.283 DESIGNED BED LEVEL = 110.723 M



CUTTING AREA (SQ.M) = 0.035 CH. (KM):- 4+800
FILLING AREA (SQ.M) = 3.708 DESIGNED BED LEVEL = 110.063 M

LEGEND

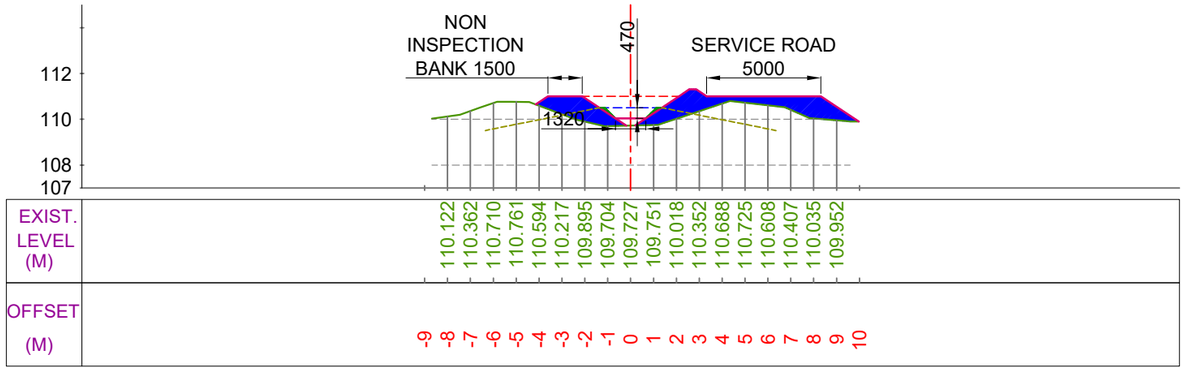
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

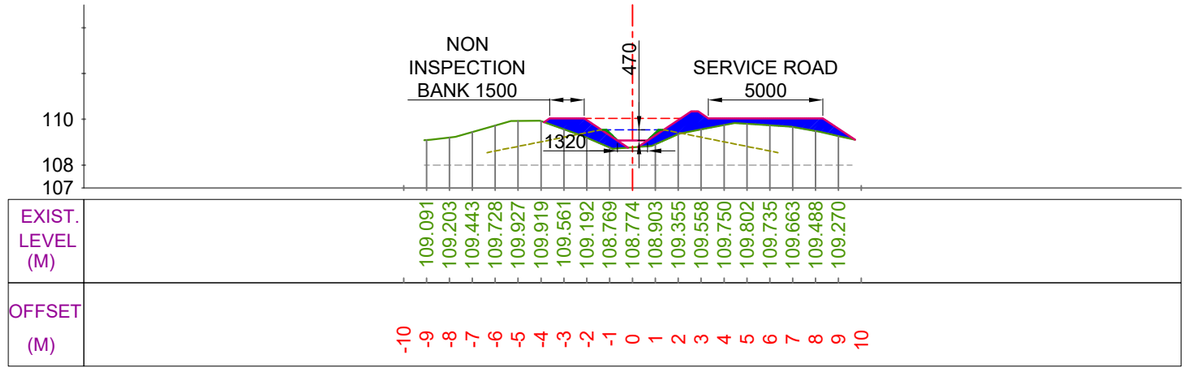
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 12 of 16

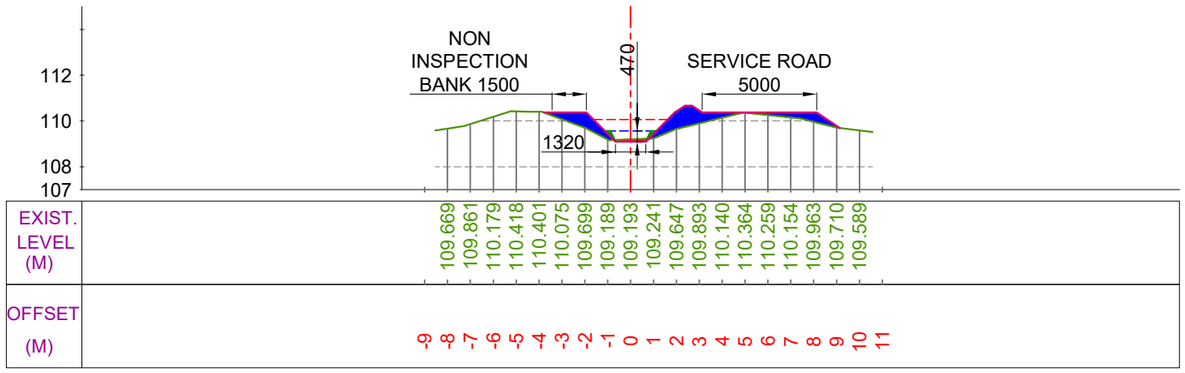
X SECTION OF CHATARA SUB-DY.



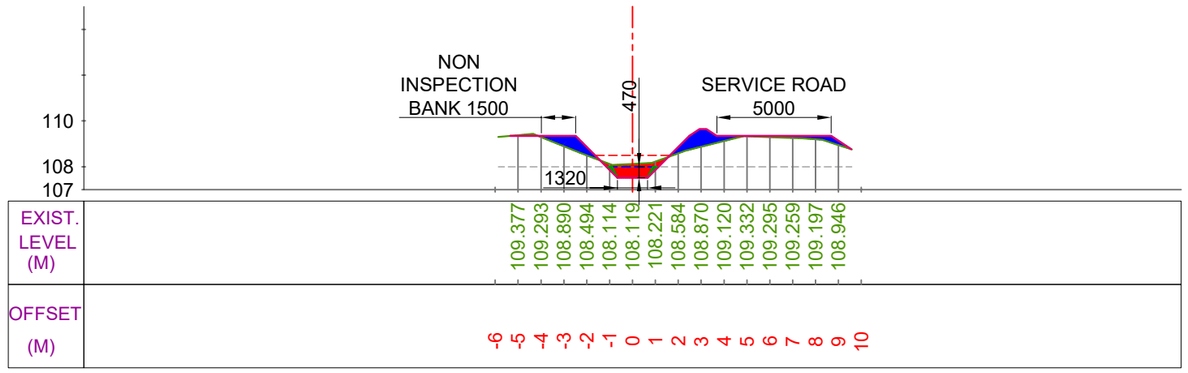
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 4+900
FILLING AREA (SQ.M) = 8.067 DESIGNED BED LEVEL = 110.037 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 5+100
FILLING AREA (SQ.M) = 5.596 DESIGNED BED LEVEL = 109.072 M



CUTTING AREA (SQ.M) = 0.132 CH. (KM):- 5+000
FILLING AREA (SQ.M) = 3.699 DESIGNED BED LEVEL = 109.097 M



CUTTING AREA (SQ.M) = 1.166 CH. (KM):- 5+200
FILLING AREA (SQ.M) = 2.638 DESIGNED BED LEVEL = 107.526 M

LEGEND

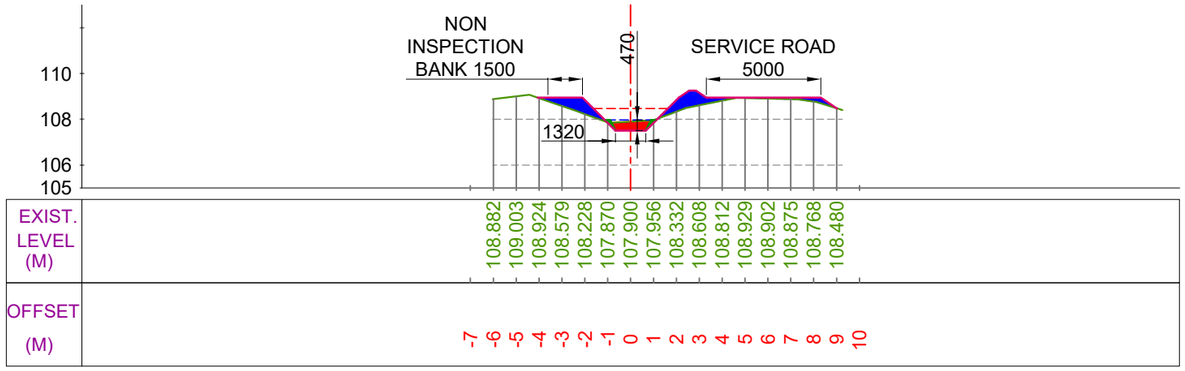
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

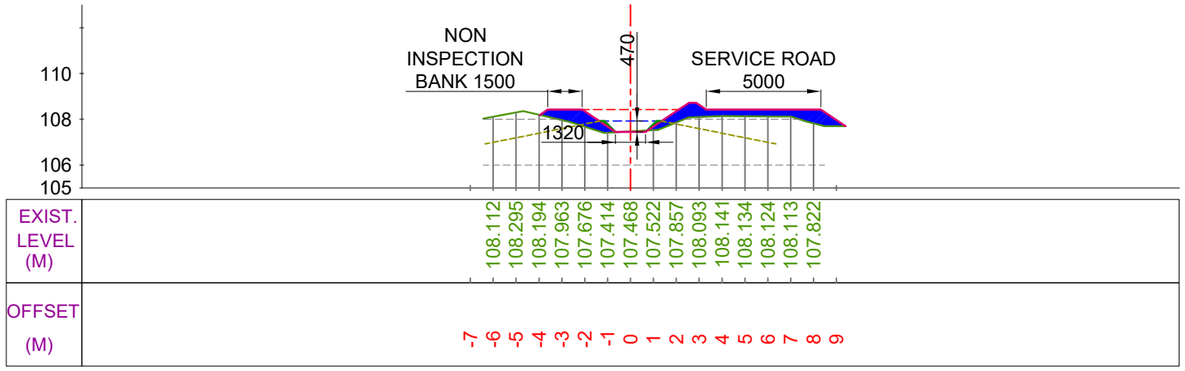
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 13 of 16

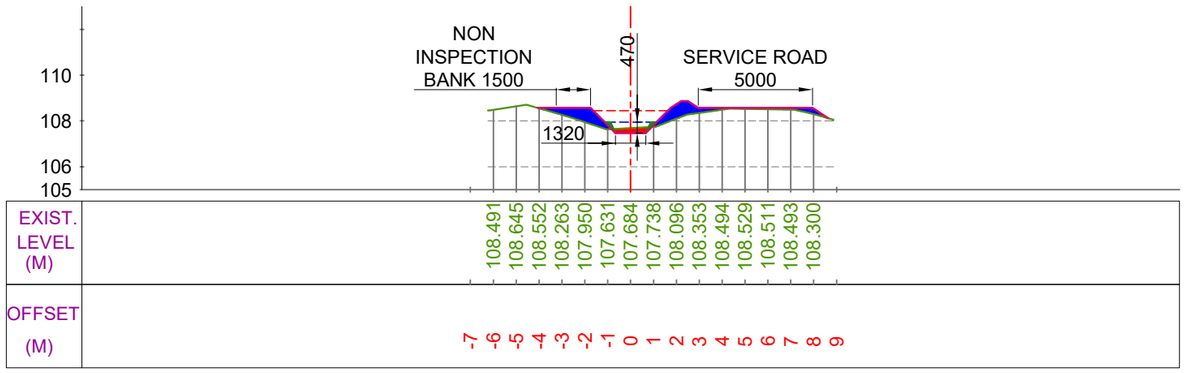
X SECTION OF CHATARA SUB-DY.



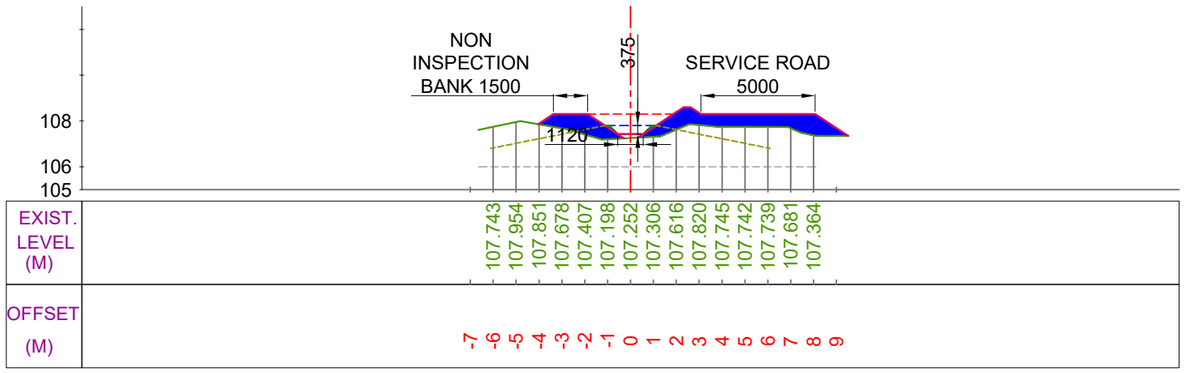
CUTTING AREA (SQ.M) = 0.612 CH. (KM):- 5+300
FILLING AREA (SQ.M) = 2.560 DESIGNED BED LEVEL = 107.500 M



CUTTING AREA (SQ.M) = 0.029 CH. (KM):- 5+500
FILLING AREA (SQ.M) = 4.617 DESIGNED BED LEVEL = 107.449 M



CUTTING AREA (SQ.M) = 0.299 CH. (KM):- 5+400
FILLING AREA (SQ.M) = 2.581 DESIGNED BED LEVEL = 107.475 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 5+600
FILLING AREA (SQ.M) = 7.363 DESIGNED BED LEVEL = 107.423 M

LEGEND

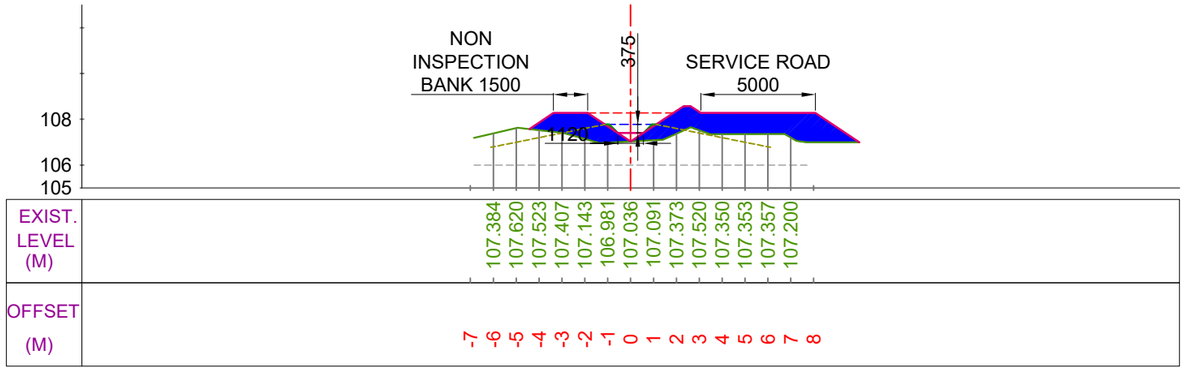
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

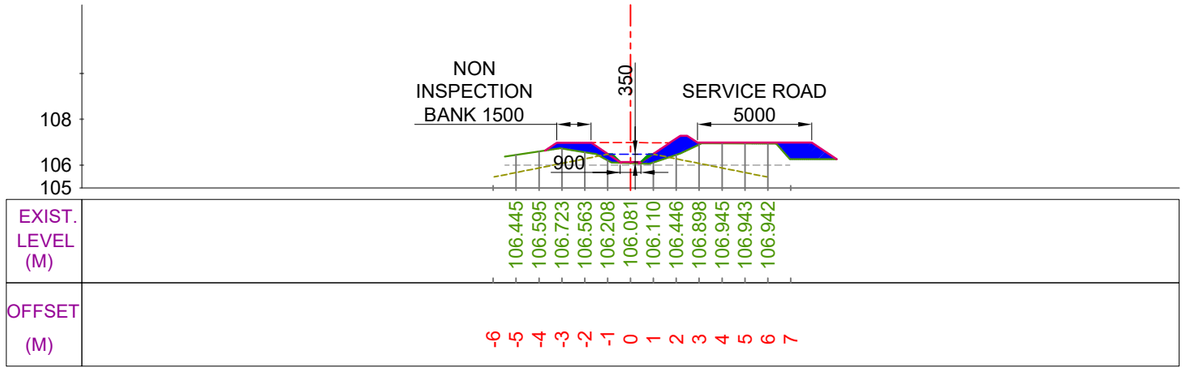
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 14 of 16

X SECTION OF CHATARA SUB-DY.



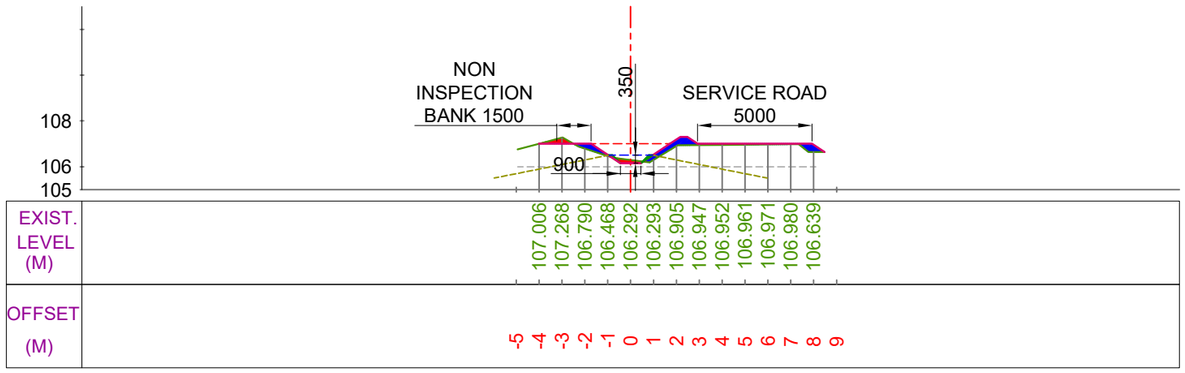
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 5+700

FILLING AREA (SQ.M) = 11.389 DESIGNED BED LEVEL = 107.398 M



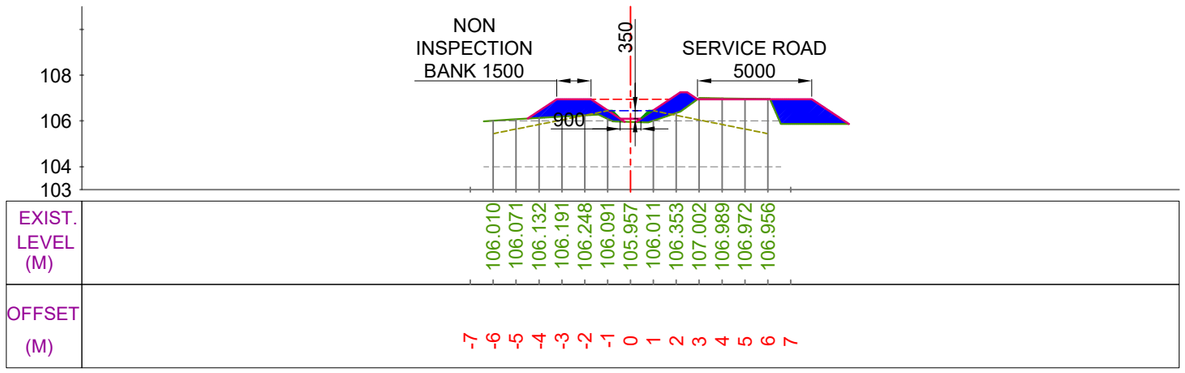
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 5+900

FILLING AREA (SQ.M) = 3.560 DESIGNED BED LEVEL = 106.127 M



CUTTING AREA (SQ.M) = 0.359 CH. (KM):- 5+800

FILLING AREA (SQ.M) = 1.245 DESIGNED BED LEVEL = 106.152 M



CUTTING AREA (SQ.M) = 0.090 CH. (KM):- 6+000

FILLING AREA (SQ.M) = 6.032 DESIGNED BED LEVEL = 106.101 M

LEGEND

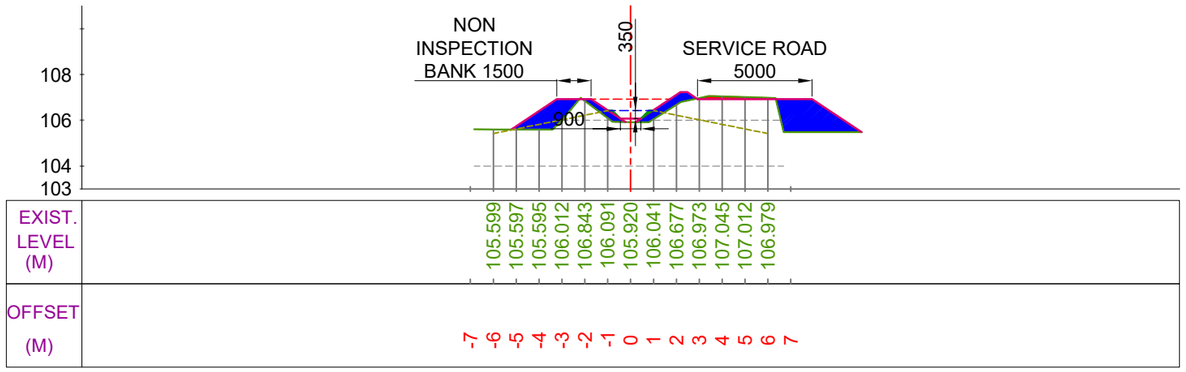
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 15 of 16

X SECTION OF CHATARA SUB-DY.



CUTTING AREA (SQ.M) = 0.310 CH. (KM):- 6+100

FILLING AREA (SQ.M) = 6.843 DESIGNED BED LEVEL = 106.075 M

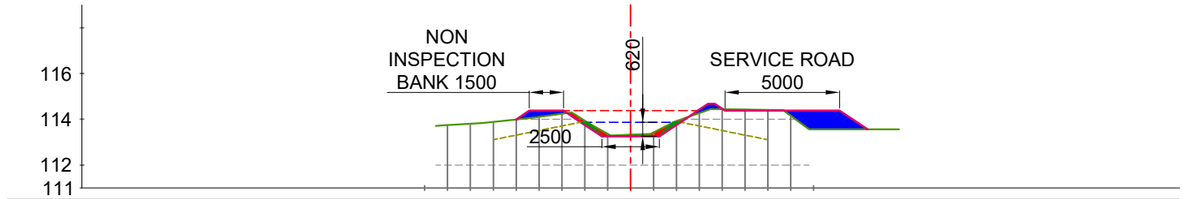
LEGEND			
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

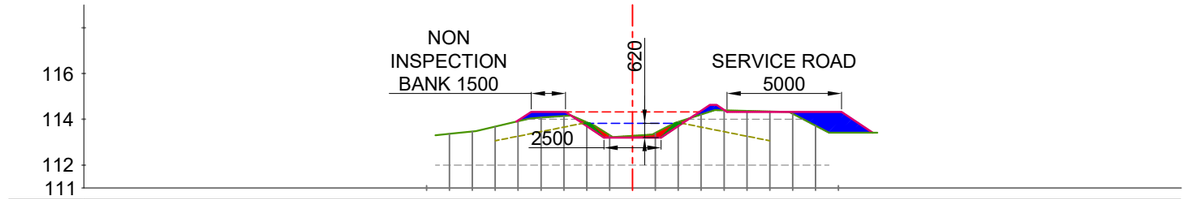
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+310 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ XSEC- 16 of 16

X SECTION OF DABURA-I MINOR



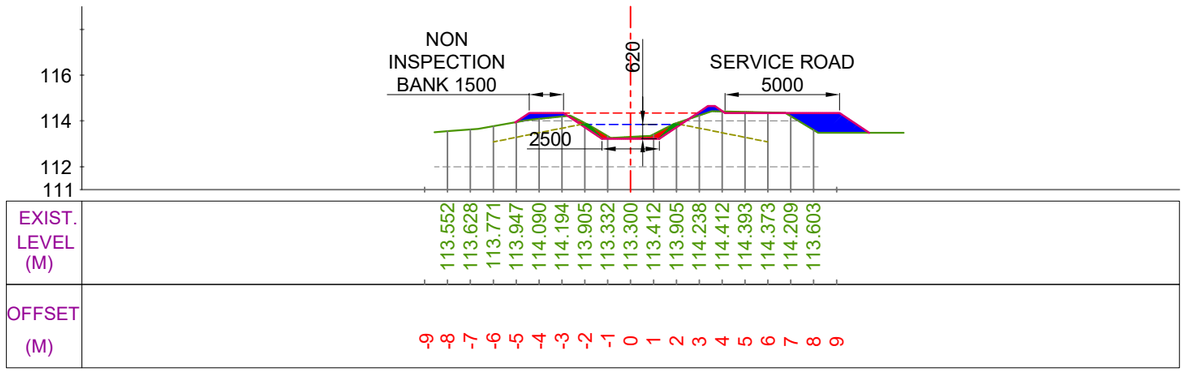
CUTTING AREA (SQ.M) = 0.665 CH. (KM):- 0+100

FILLING AREA (SQ.M) = 2.696 DESIGNED BED LEVEL = 113.253 M



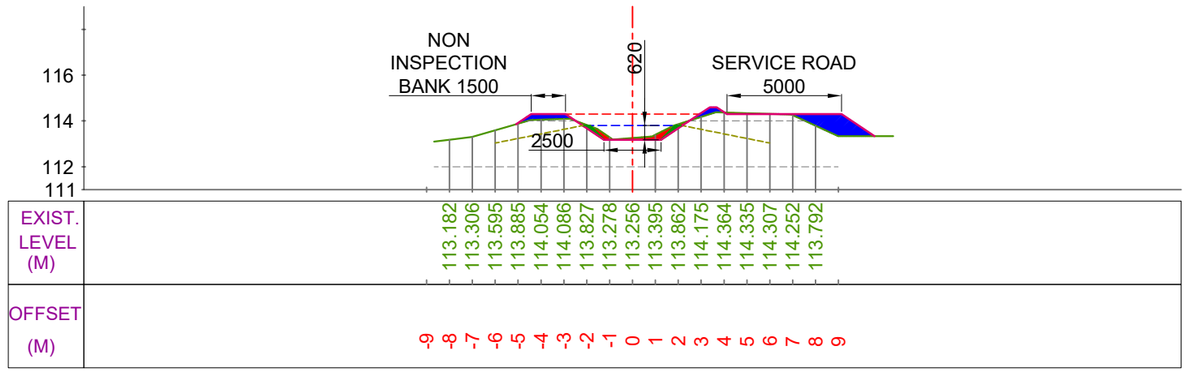
CUTTING AREA (SQ.M) = 0.642 CH. (KM):- 0+300

FILLING AREA (SQ.M) = 2.605 DESIGNED BED LEVEL = 113.203 M



CUTTING AREA (SQ.M) = 0.654 CH. (KM):- 0+200

FILLING AREA (SQ.M) = 2.657 DESIGNED BED LEVEL = 113.228 M



CUTTING AREA (SQ.M) = 0.639 CH. (KM):- 0+400

FILLING AREA (SQ.M) = 2.551 DESIGNED BED LEVEL = 113.178 M

LEGEND

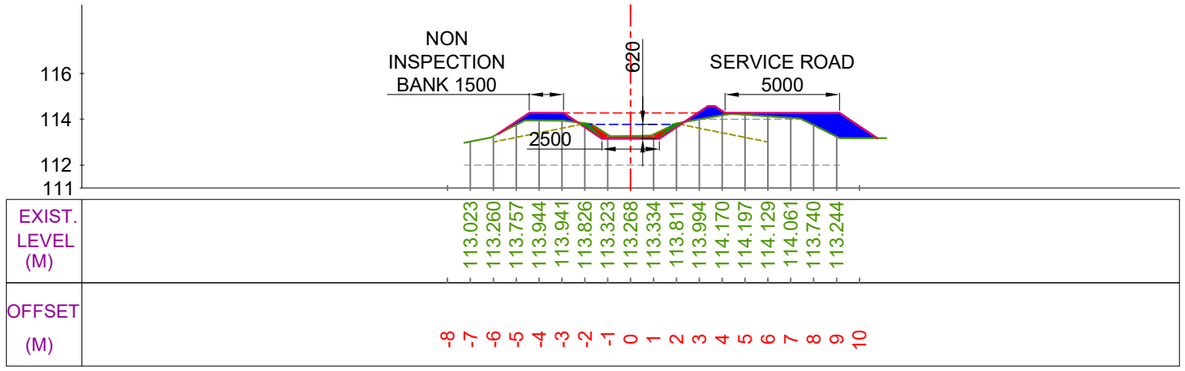
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

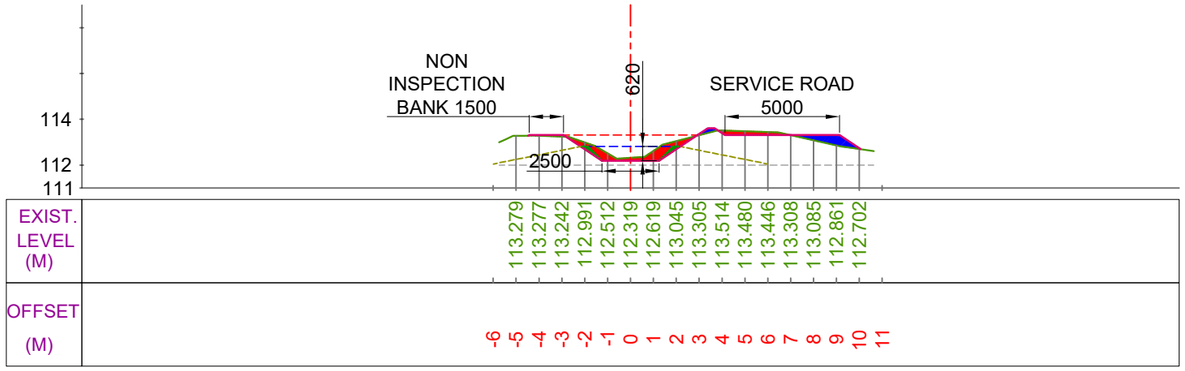
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 1 of 14

X SECTION OF DABURA-I MINOR



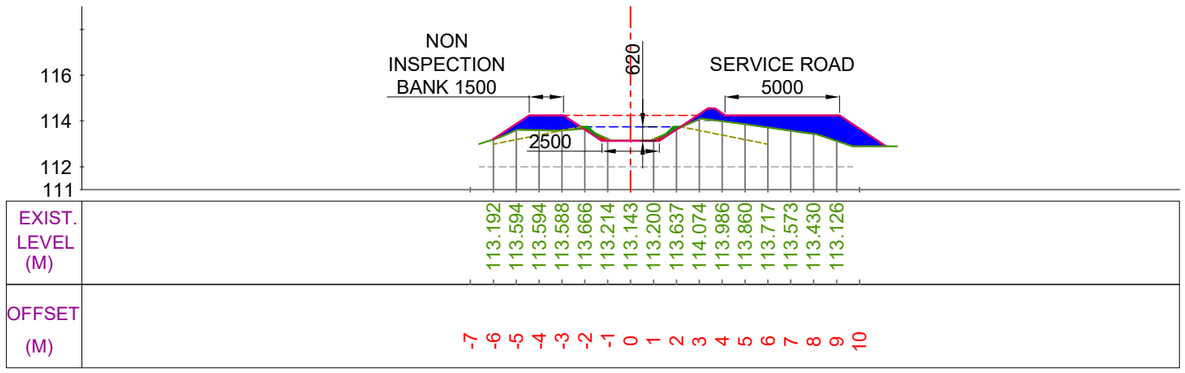
CUTTING AREA (SQ.M) = 0.621
FILLING AREA (SQ.M) = 3.772

CH. (KM):- 0+500
DESIGNED BED LEVEL = 113.153 M



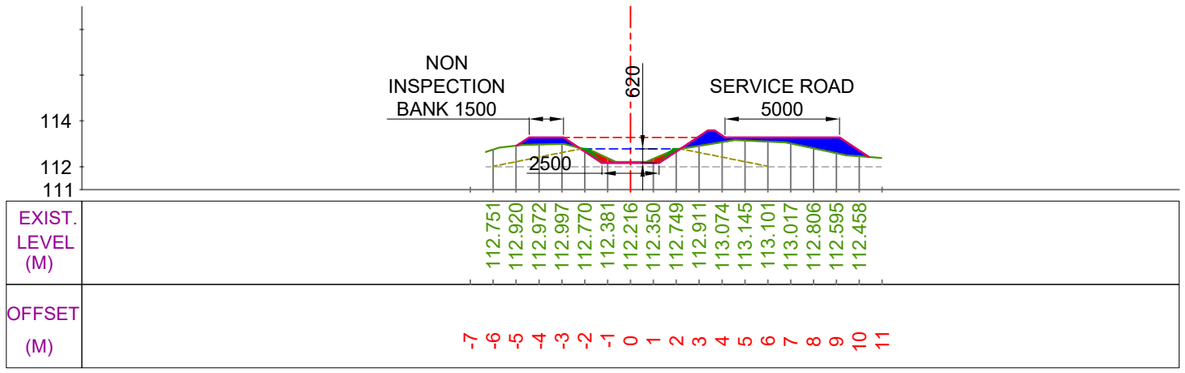
CUTTING AREA (SQ.M) = 1.808
FILLING AREA (SQ.M) = 0.910

CH. (KM):- 0+700
DESIGNED BED LEVEL = 112.189 M



CUTTING AREA (SQ.M) = 0.173
FILLING AREA (SQ.M) = 6.780

CH. (KM):- 0+600
DESIGNED BED LEVEL = 113.128 M



CUTTING AREA (SQ.M) = 0.460
FILLING AREA (SQ.M) = 3.372

CH. (KM):- 0+800
DESIGNED BED LEVEL = 112.164 M

LEGEND

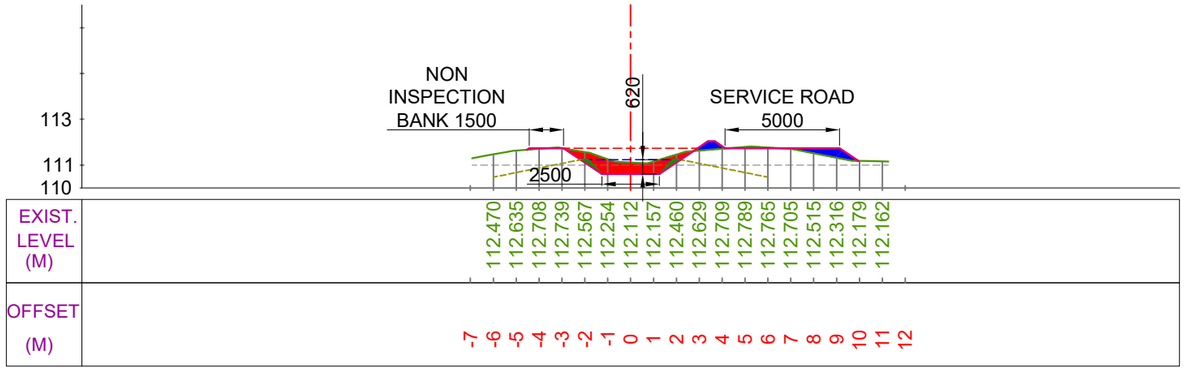
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

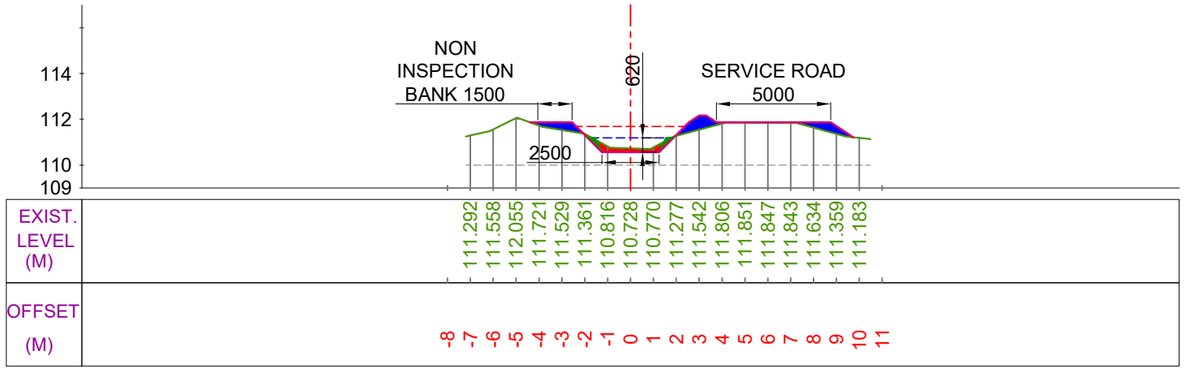
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 2 of 14

X SECTION OF DABURA-I MINOR



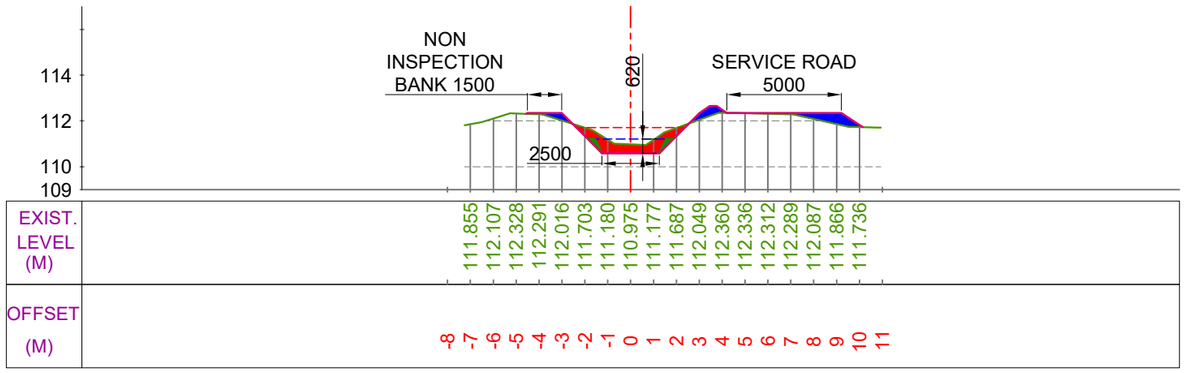
CUTTING AREA (SQ.M) = 2.402
FILLING AREA (SQ.M) = 1.044

CH. (KM):- 0+900
DESIGNED BED LEVEL = 110.615 M



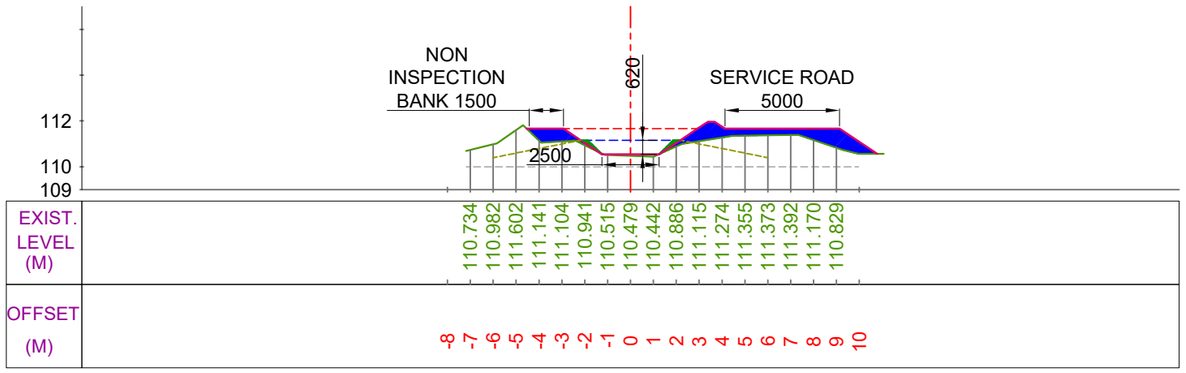
CUTTING AREA (SQ.M) = 0.599
FILLING AREA (SQ.M) = 1.917

CH. (KM):- 1+100
DESIGNED BED LEVEL = 110.565 M



CUTTING AREA (SQ.M) = 2.039
FILLING AREA (SQ.M) = 1.667

CH. (KM):- 1+000
DESIGNED BED LEVEL = 110.590 M



CUTTING AREA (SQ.M) = 0.003
FILLING AREA (SQ.M) = 4.952

CH. (KM):- 1+200
DESIGNED BED LEVEL = 110.540 M

LEGEND

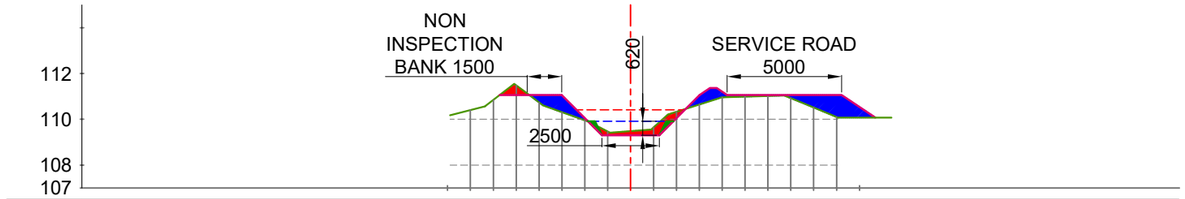
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

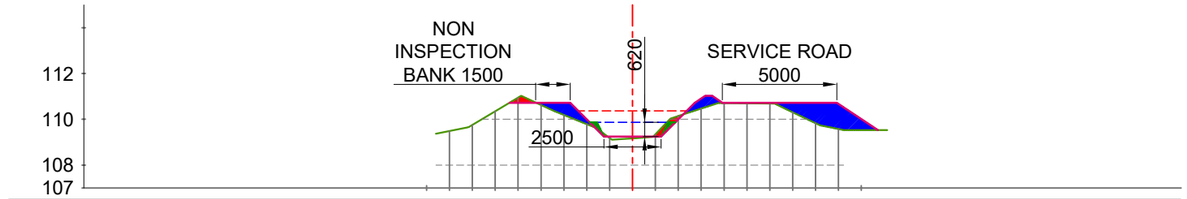
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 3 of 14

X SECTION OF DABURA-I MINOR



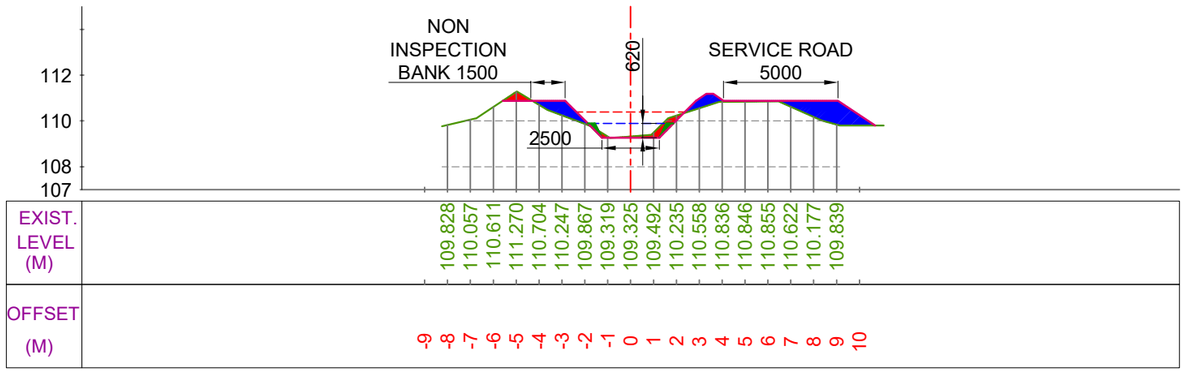
CUTTING AREA (SQ.M) = 1.225
FILLING AREA (SQ.M) = 3.893

CH. (KM):- 1+300
DESIGNED BED LEVEL = 109.295 M



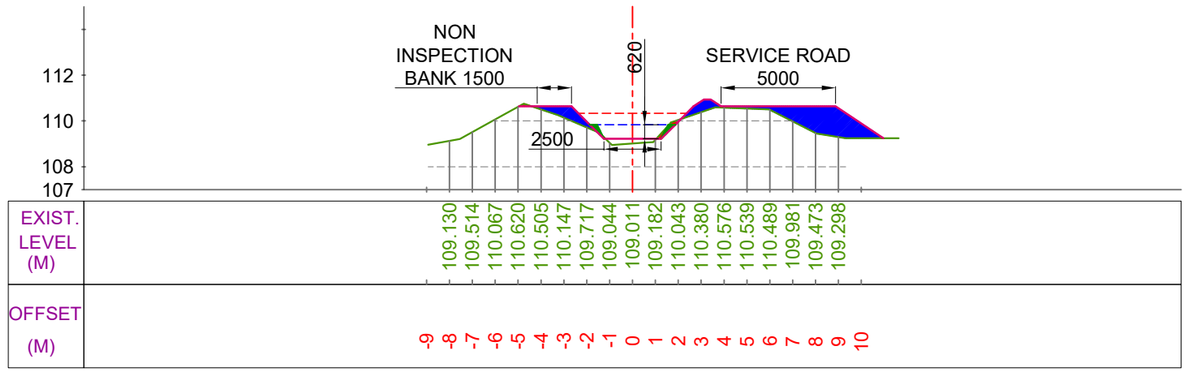
CUTTING AREA (SQ.M) = 0.403
FILLING AREA (SQ.M) = 4.255

CH. (KM):- 1+500
DESIGNED BED LEVEL = 109.245 M



CUTTING AREA (SQ.M) = 0.753
FILLING AREA (SQ.M) = 3.929

CH. (KM):- 1+400
DESIGNED BED LEVEL = 109.270 M



CUTTING AREA (SQ.M) = 0.143
FILLING AREA (SQ.M) = 5.467

CH. (KM):- 1+600
DESIGNED BED LEVEL = 109.220 M

LEGEND

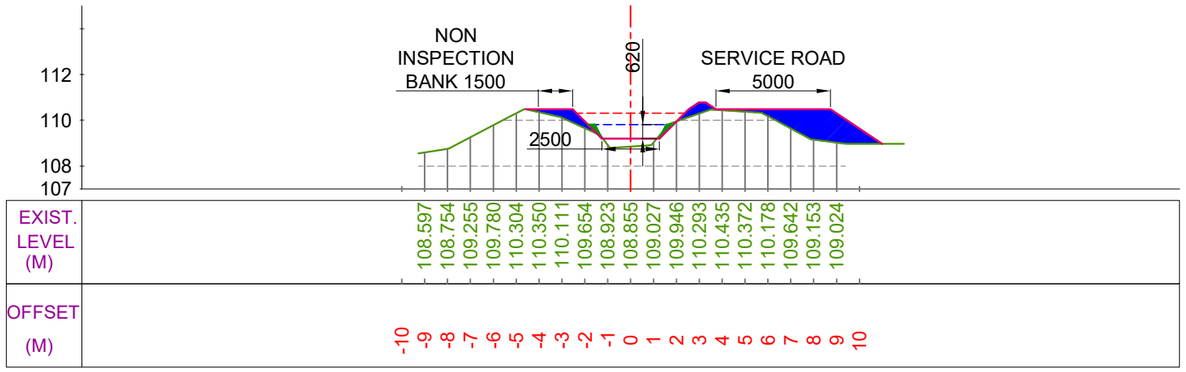
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

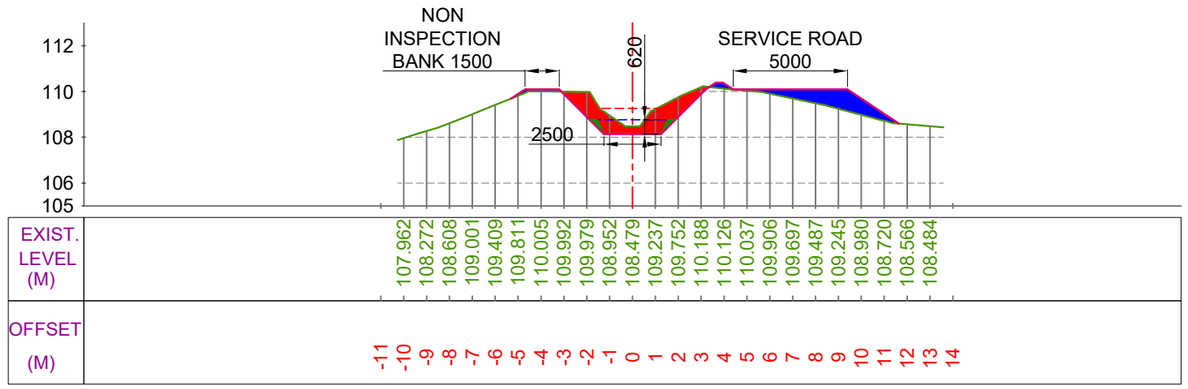
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 4 of 14

X SECTION OF DABURA-I MINOR



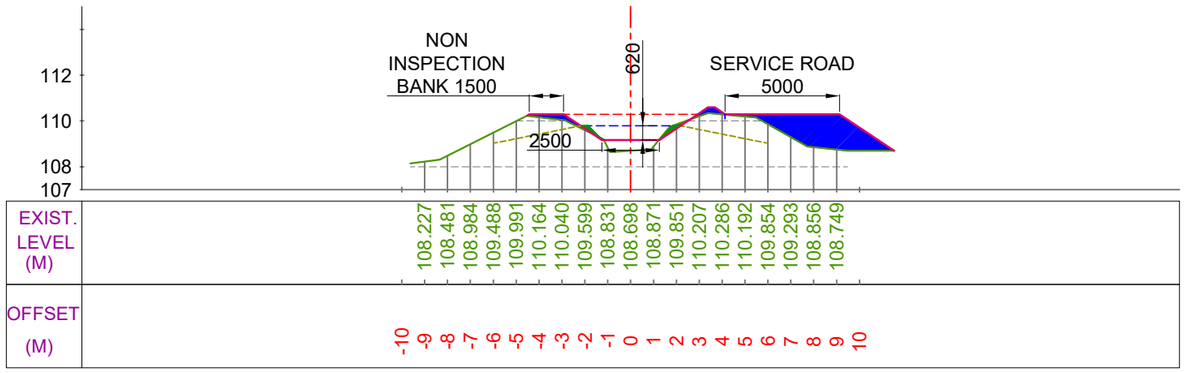
CUTTING AREA (SQ.M) = 0.036 CH. (KM):- 1+700

FILLING AREA (SQ.M) = 5.898 DESIGNED BED LEVEL = 109.195 M



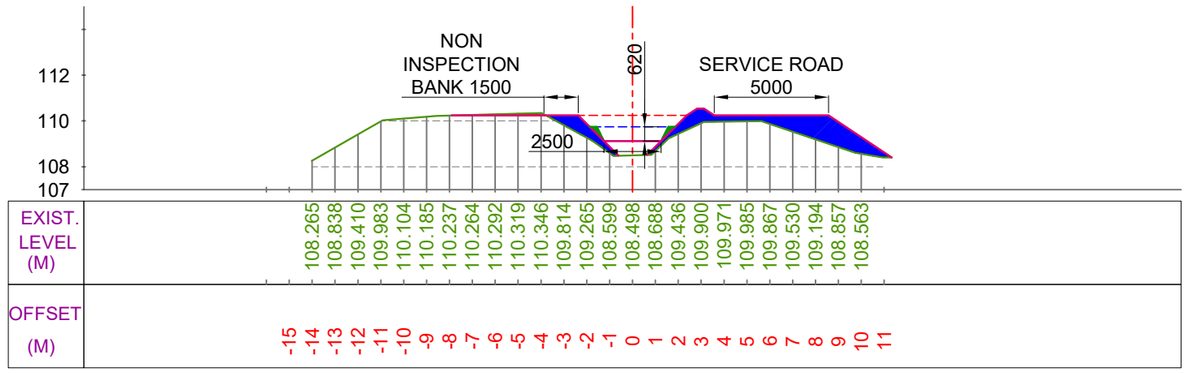
CUTTING AREA (SQ.M) = 4.250 CH. (KM):- 1+900

FILLING AREA (SQ.M) = 3.458 DESIGNED BED LEVEL = 109.145 M



CUTTING AREA (SQ.M) = 0.094 CH. (KM):- 1+800

FILLING AREA (SQ.M) = 6.470 DESIGNED BED LEVEL = 109.170 M



CUTTING AREA (SQ.M) = 0.220 CH. (KM):- 2+000

FILLING AREA (SQ.M) = 7.134 DESIGNED BED LEVEL = 109.120 M

LEGEND

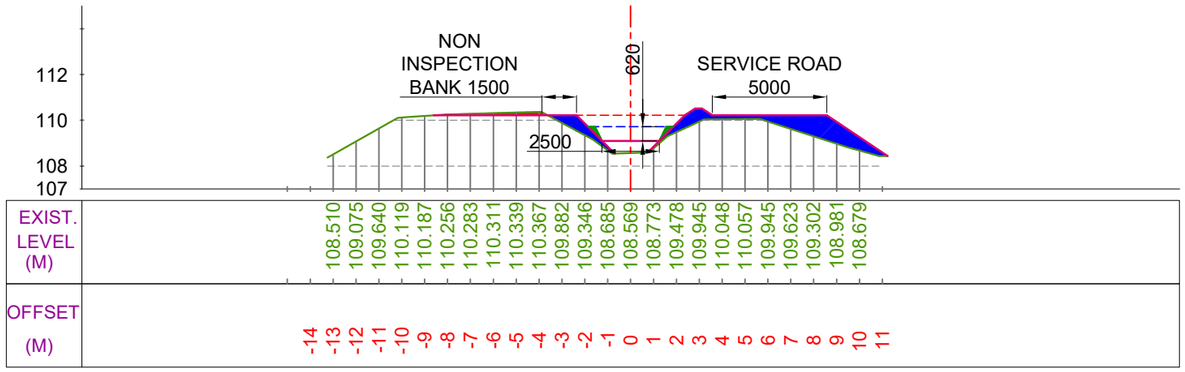
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

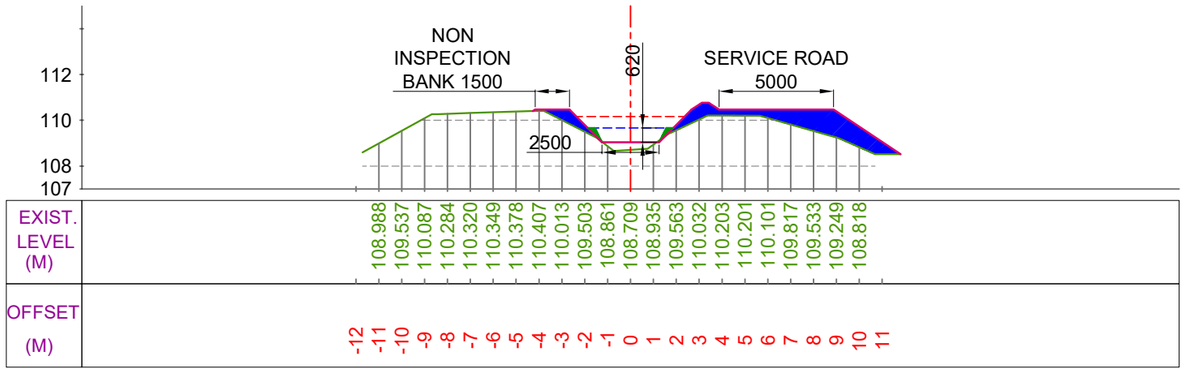
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 5 of 14

X SECTION OF DABURA-I MINOR



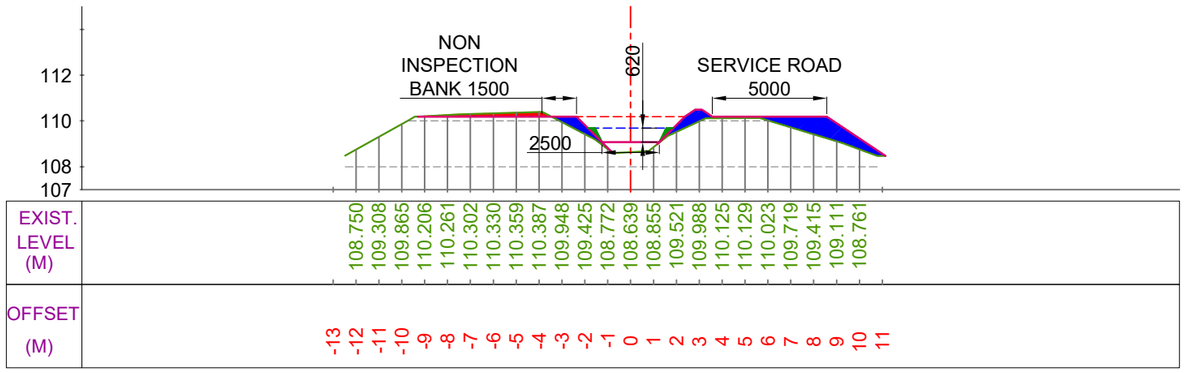
CUTTING AREA (SQ.M) = 0.433 CH. (KM):- 2+100

FILLING AREA (SQ.M) = 5.711 DESIGNED BED LEVEL = 109.095 M



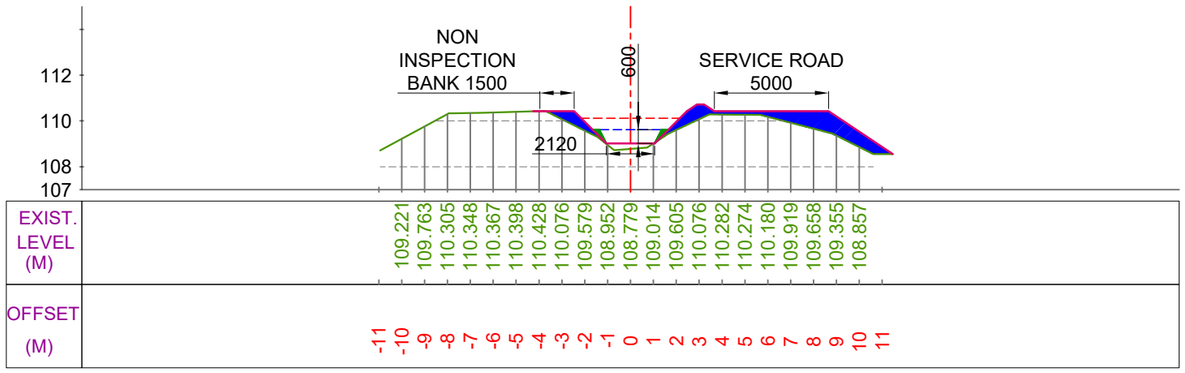
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 2+300

FILLING AREA (SQ.M) = 6.693 DESIGNED BED LEVEL = 109.045 M



CUTTING AREA (SQ.M) = 0.673 CH. (KM):- 2+200

FILLING AREA (SQ.M) = 4.364 DESIGNED BED LEVEL = 109.070 M



CUTTING AREA (SQ.M) = 0.006 CH. (KM):- 2+400

FILLING AREA (SQ.M) = 5.316 DESIGNED BED LEVEL = 109.020 M

LEGEND

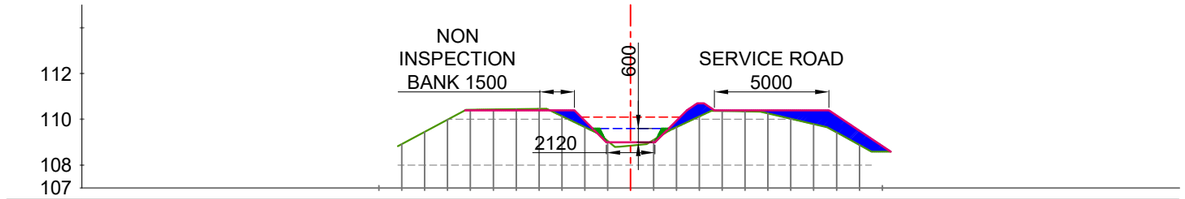
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

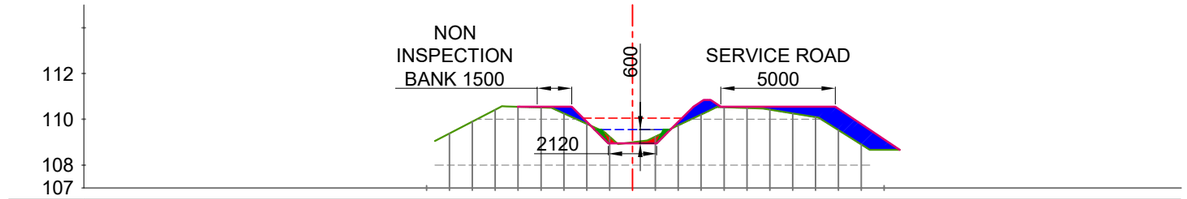
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 6 of 14

X SECTION OF DABURA-I MINOR



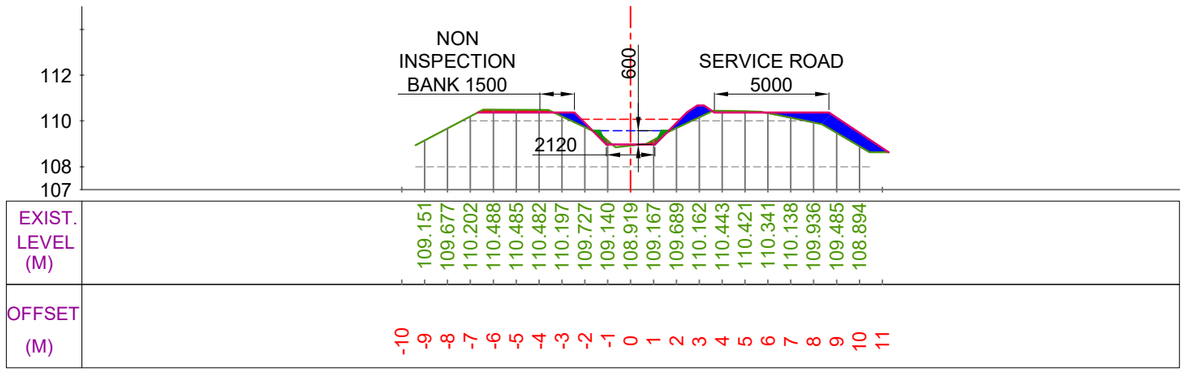
CUTTING AREA (SQ.M) = 0.183 CH. (KM):- 2+500

FILLING AREA (SQ.M) = 4.126 DESIGNED BED LEVEL = 108.995 M



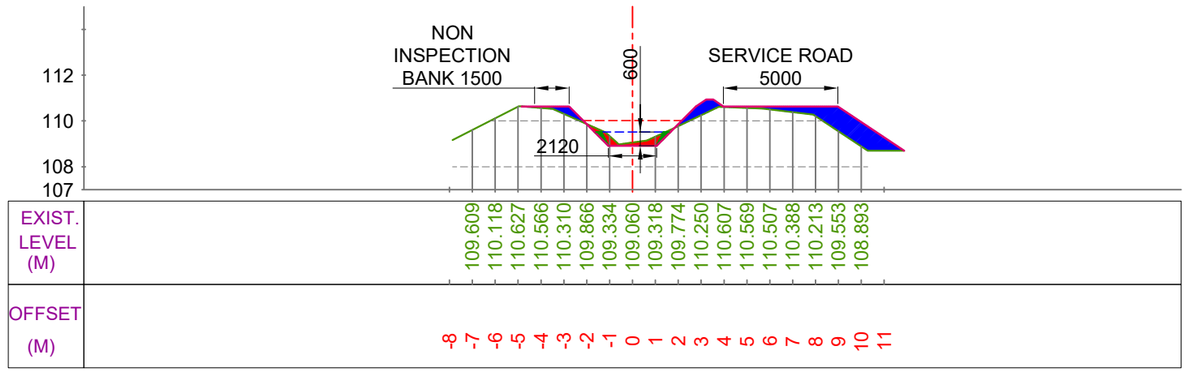
CUTTING AREA (SQ.M) = 0.328 CH. (KM):- 2+700

FILLING AREA (SQ.M) = 4.354 DESIGNED BED LEVEL = 108.945 M



CUTTING AREA (SQ.M) = 0.596 CH. (KM):- 2+600

FILLING AREA (SQ.M) = 3.157 DESIGNED BED LEVEL = 108.970 M



CUTTING AREA (SQ.M) = 0.669 CH. (KM):- 2+800

FILLING AREA (SQ.M) = 4.702 DESIGNED BED LEVEL = 108.920 M

LEGEND

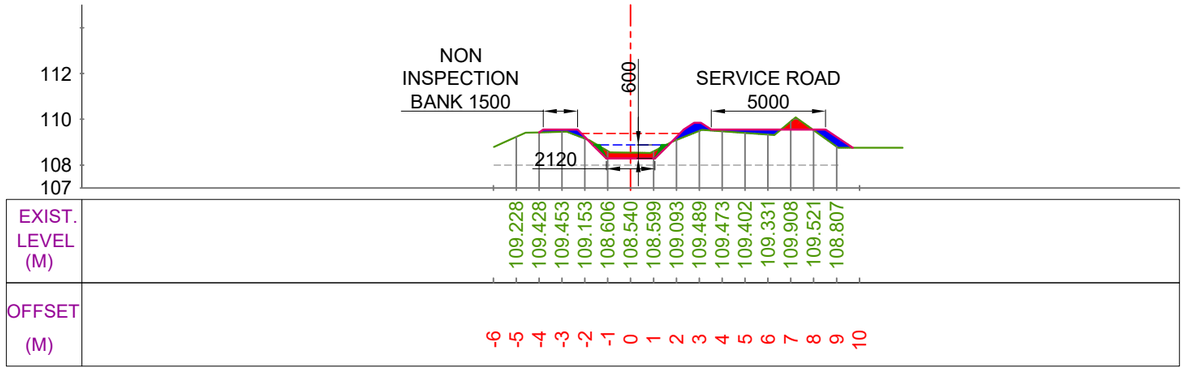
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

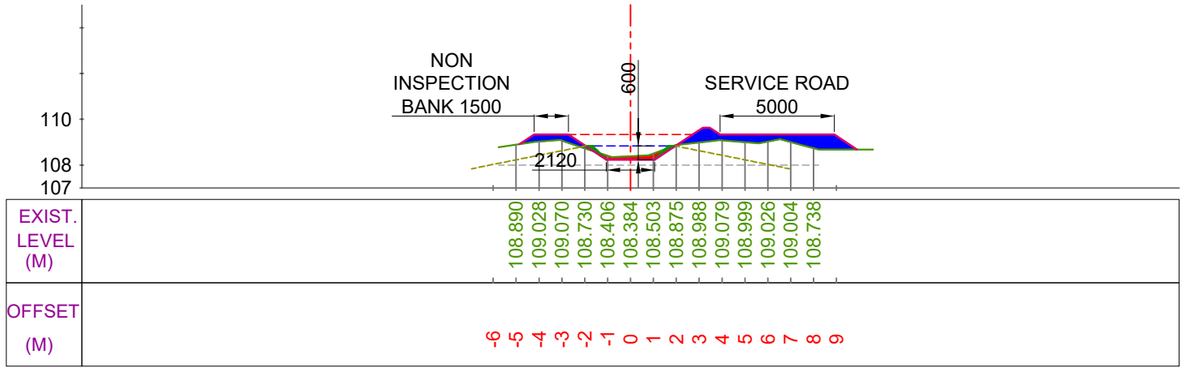
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 7 of 14

X SECTION OF DABURA-I MINOR



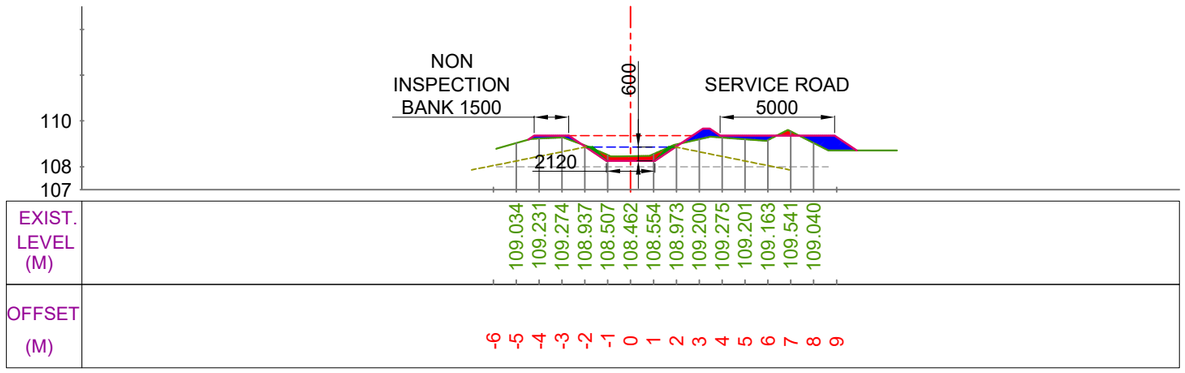
CUTTING AREA (SQ.M) = 1.048
FILLING AREA (SQ.M) = 1.607

CH. (KM):- 2+900
DESIGNED BED LEVEL = 108.285 M



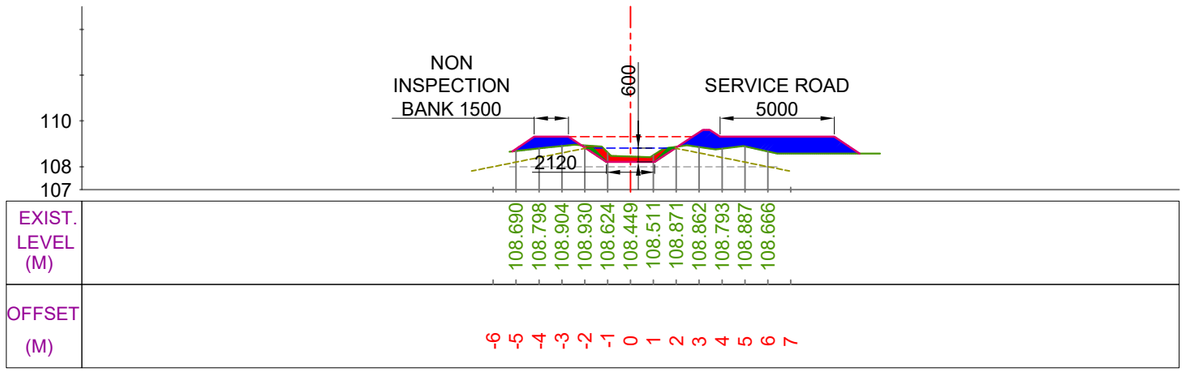
CUTTING AREA (SQ.M) = 0.439
FILLING AREA (SQ.M) = 3.779

CH. (KM):- 3+100
DESIGNED BED LEVEL = 108.235 M



CUTTING AREA (SQ.M) = 0.766
FILLING AREA (SQ.M) = 1.905

CH. (KM):- 3+000
DESIGNED BED LEVEL = 108.260 M



CUTTING AREA (SQ.M) = 0.931
FILLING AREA (SQ.M) = 5.529

CH. (KM):- 3+200
DESIGNED BED LEVEL = 108.210 M

LEGEND

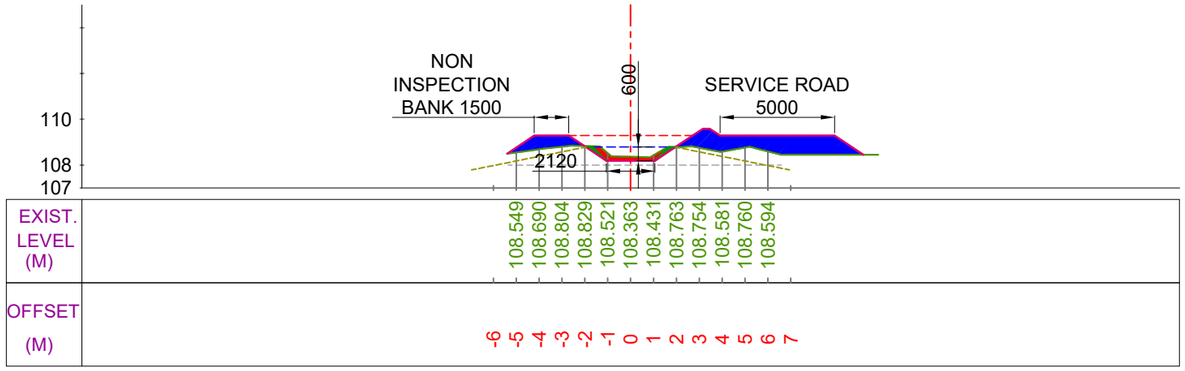
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

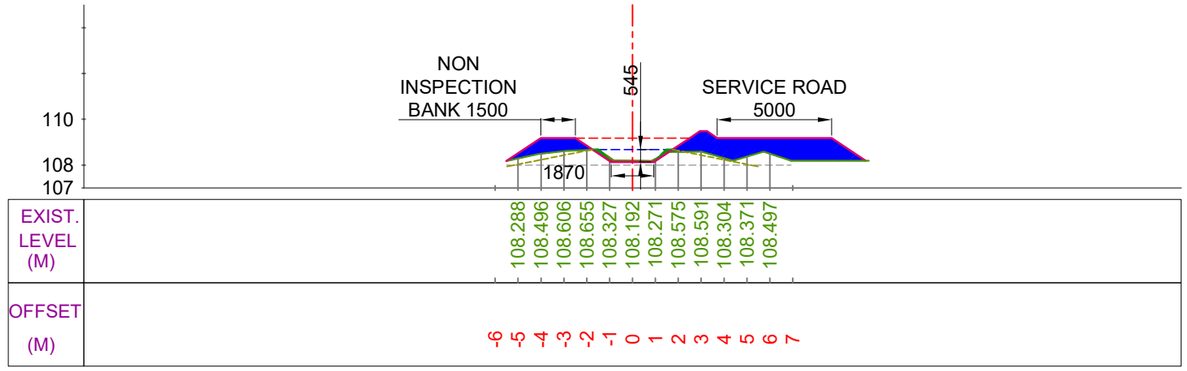
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 8 of 14

X SECTION OF DABURA-I MINOR



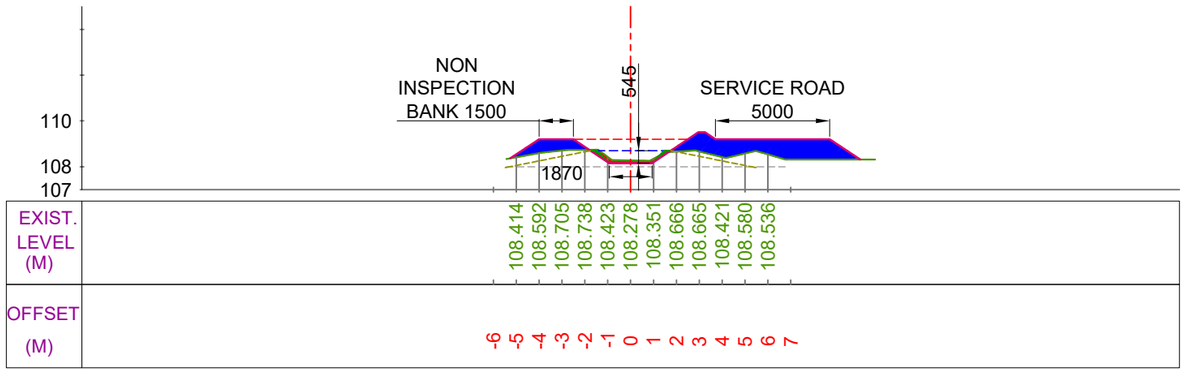
CUTTING AREA (SQ.M) = 0.675
FILLING AREA (SQ.M) = 6.618

CH. (KM):- 3+300
DESIGNED BED LEVEL = 108.185 M



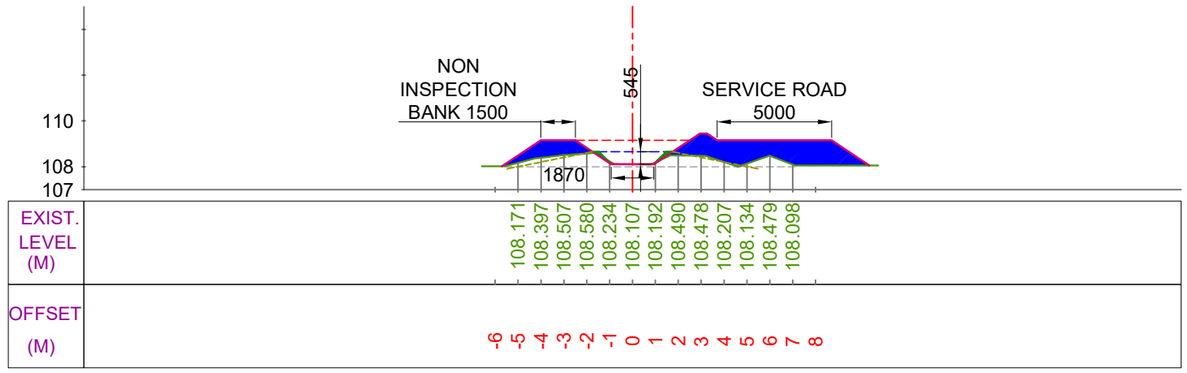
CUTTING AREA (SQ.M) = 0.159
FILLING AREA (SQ.M) = 8.032

CH. (KM):- 3+500
DESIGNED BED LEVEL = 108.135 M



CUTTING AREA (SQ.M) = 0.342
FILLING AREA (SQ.M) = 6.933

CH. (KM):- 3+400
DESIGNED BED LEVEL = 108.160 M



CUTTING AREA (SQ.M) = 0.020
FILLING AREA (SQ.M) = 9.168

CH. (KM):- 3+600
DESIGNED BED LEVEL = 108.110 M

LEGEND

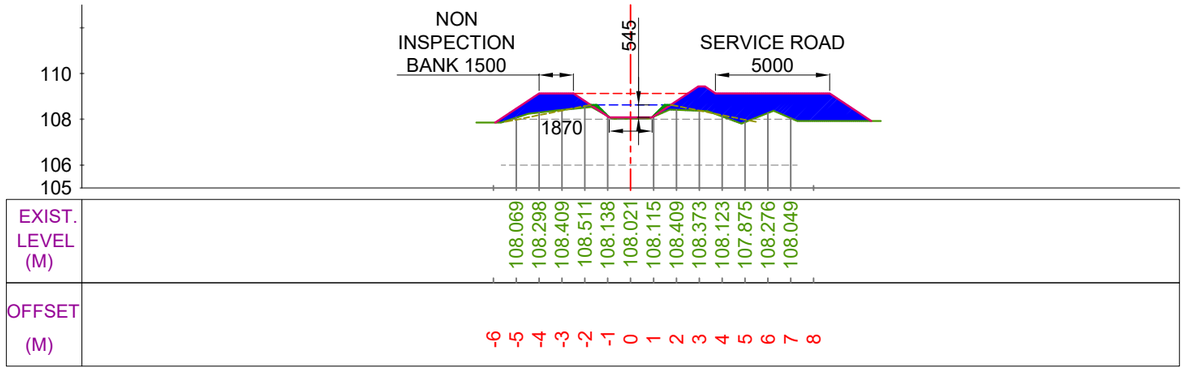
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

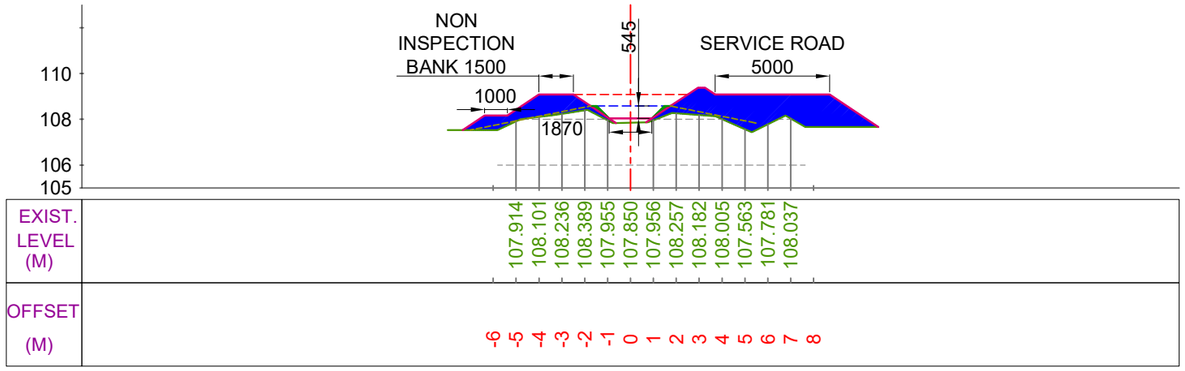
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 9 of 14

X SECTION OF DABURA-I MINOR



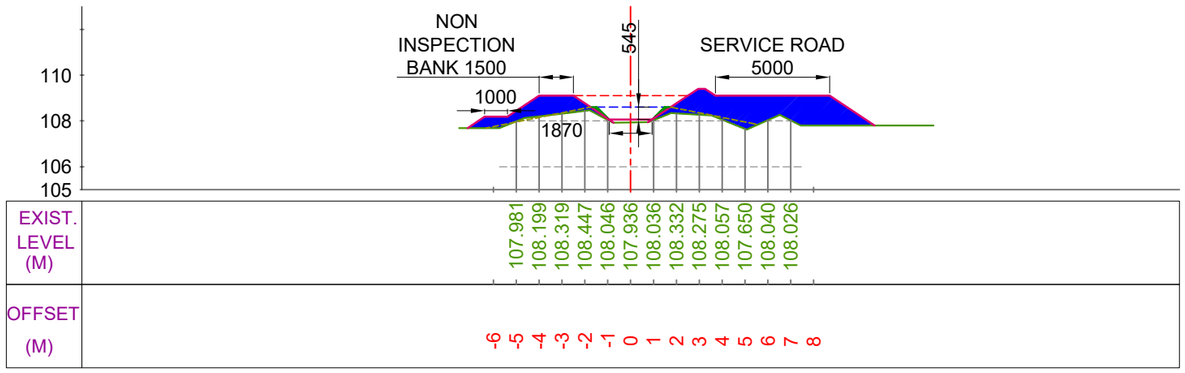
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+700

FILLING AREA (SQ.M) = 10.348 DESIGNED BED LEVEL = 108.085 M



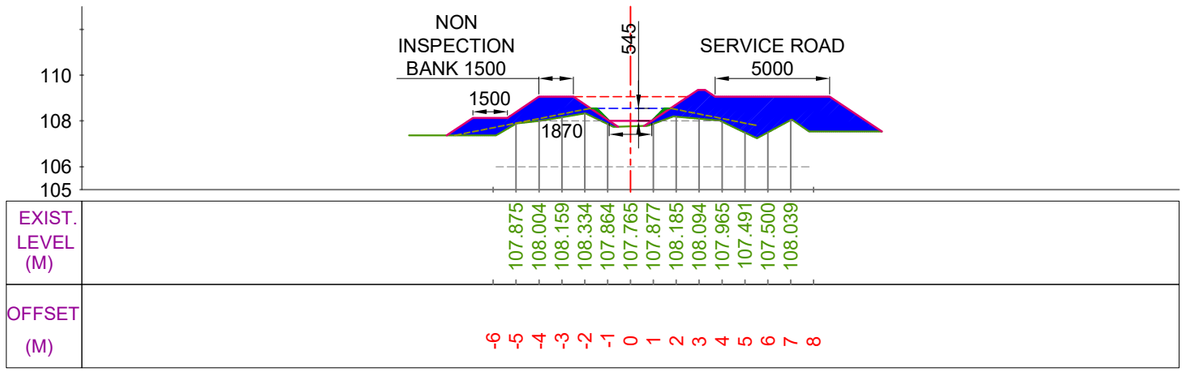
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+900

FILLING AREA (SQ.M) = 13.522 DESIGNED BED LEVEL = 108.035 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 3+800

FILLING AREA (SQ.M) = 12.076 DESIGNED BED LEVEL = 108.060 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 4+000

FILLING AREA (SQ.M) = 15.353 DESIGNED BED LEVEL = 108.010 M

LEGEND

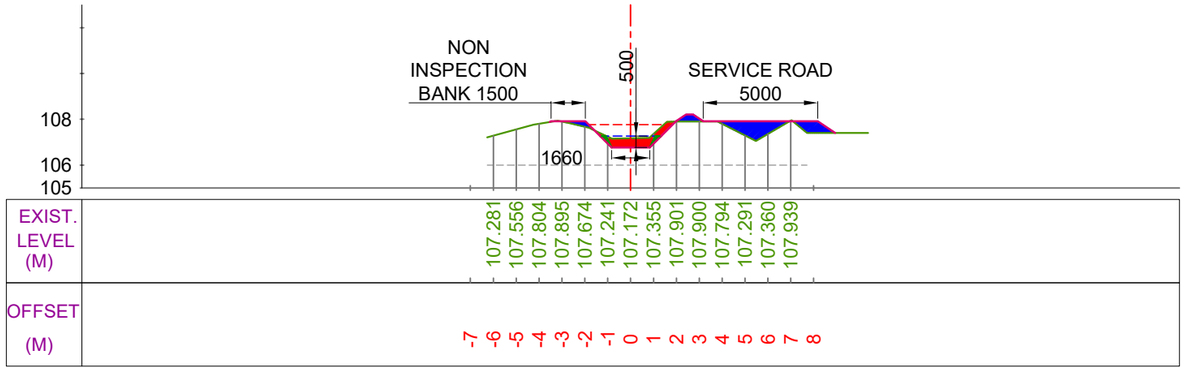
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

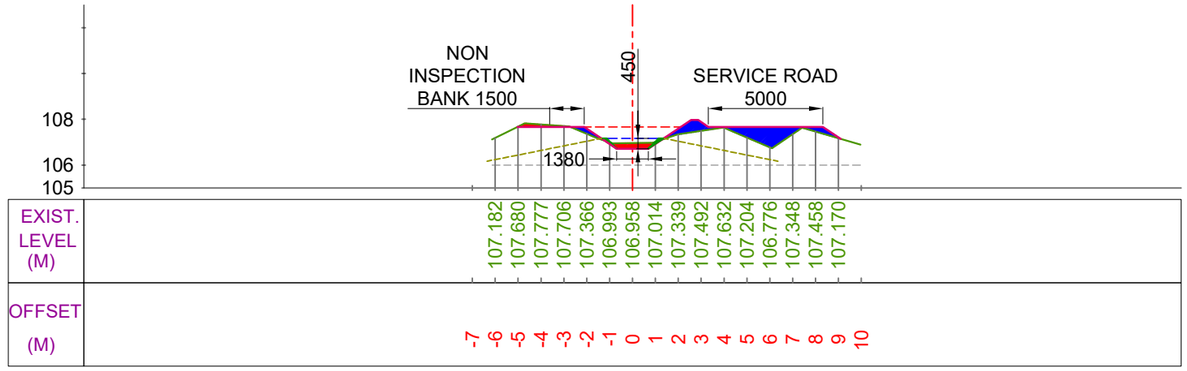
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 10 of 14

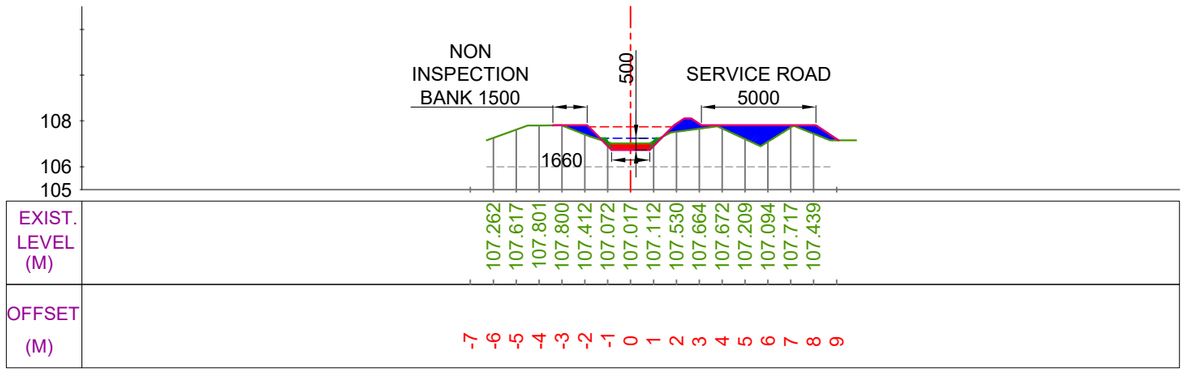
X SECTION OF DABURA-I MINOR



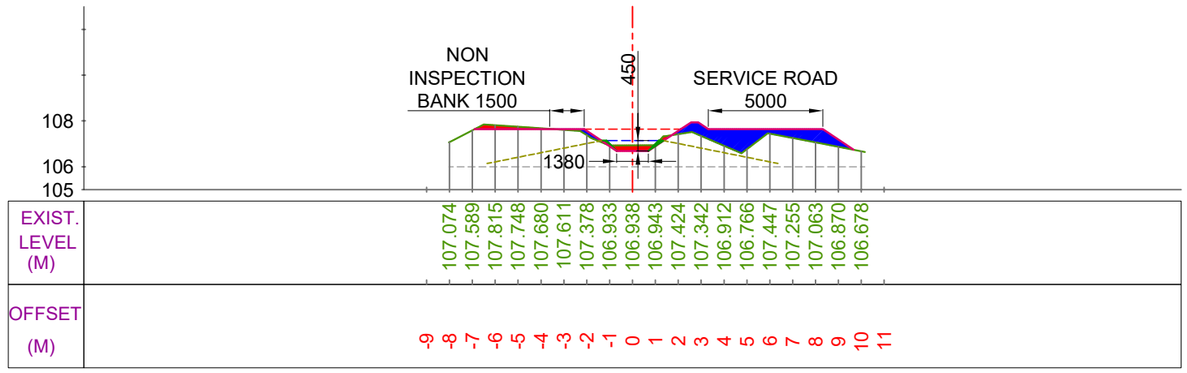
CUTTING AREA (SQ.M) = 1.073 CH. (KM):- 4+100
FILLING AREA (SQ.M) = 2.387 DESIGNED BED LEVEL = 106.765 M



CUTTING AREA (SQ.M) = 0.605 CH. (KM):- 4+300
FILLING AREA (SQ.M) = 2.761 DESIGNED BED LEVEL = 106.715 M



CUTTING AREA (SQ.M) = 0.513 CH. (KM):- 4+200
FILLING AREA (SQ.M) = 3.010 DESIGNED BED LEVEL = 106.740 M



CUTTING AREA (SQ.M) = 0.824 CH. (KM):- 4+400
FILLING AREA (SQ.M) = 3.920 DESIGNED BED LEVEL = 106.690 M

LEGEND

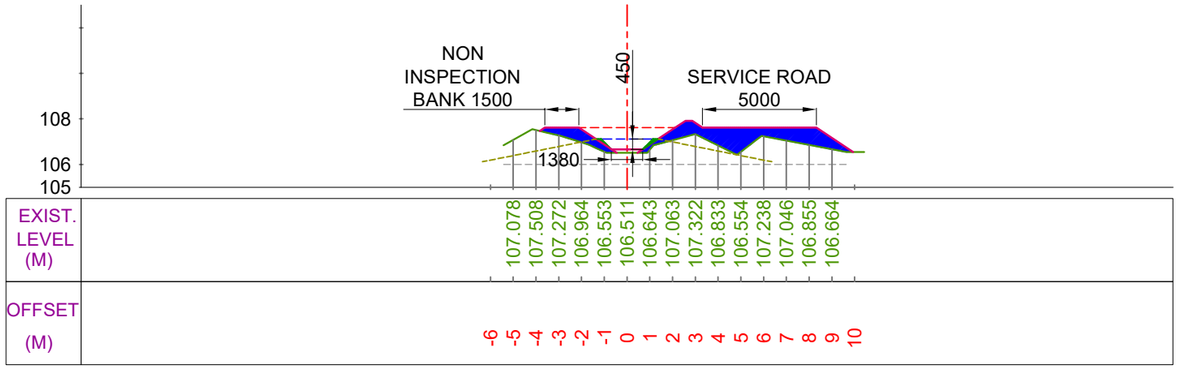
CUT AREA	EXISTING BED LINE	
	F.S.L.	
FILL AREA	DESIGNED BED LINE	
	H.G. LINE	

Prepared by :-

WAPCOS LTD.

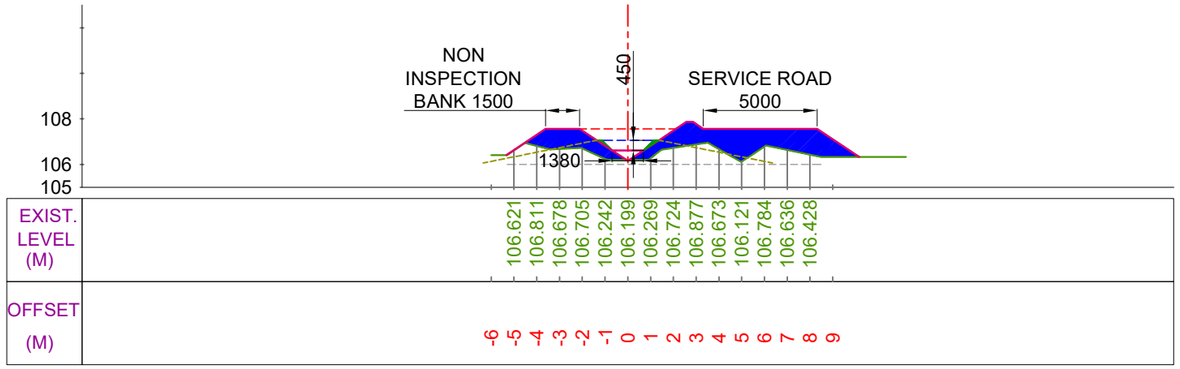
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 11 of 14

X SECTION OF DABURA-I MINOR



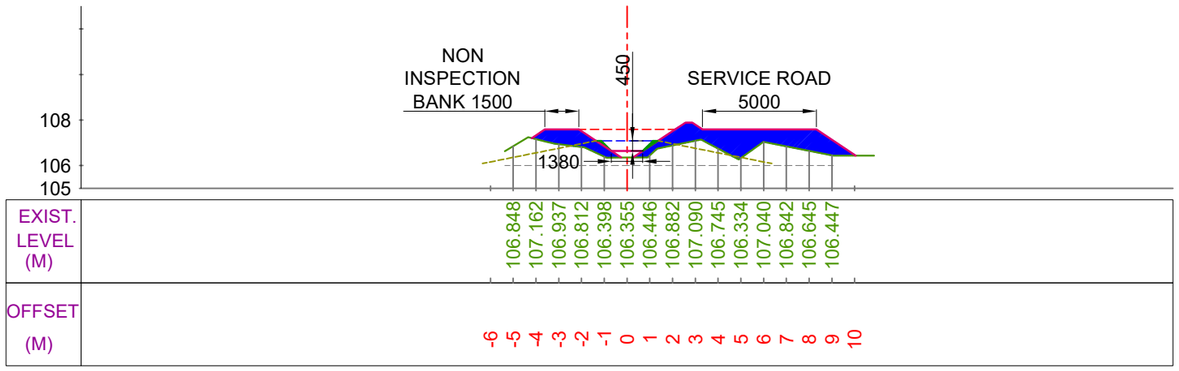
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.533

CH. (KM):- 4+500
DESIGNED BED LEVEL = 106.665 M



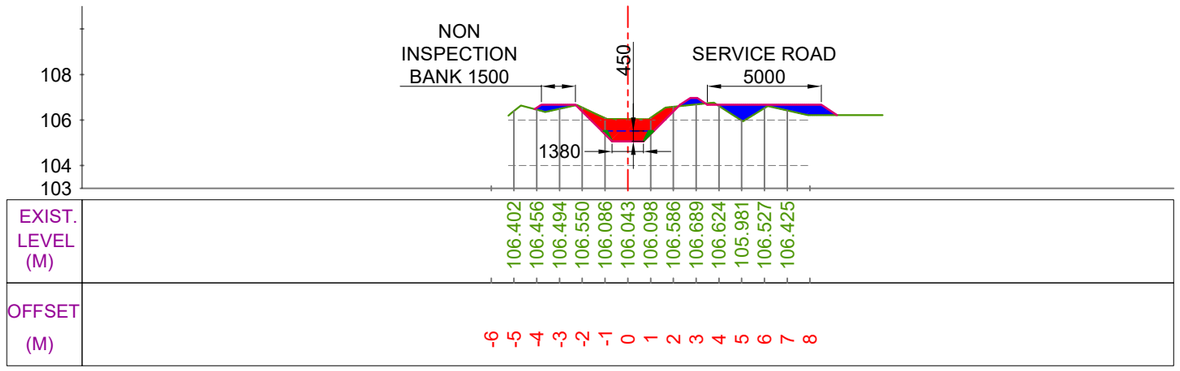
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 10.975

CH. (KM):- 4+700
DESIGNED BED LEVEL = 106.613 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.744

CH. (KM):- 4+600
DESIGNED BED LEVEL = 106.639 M



CUTTING AREA (SQ.M) = 2.810
FILLING AREA (SQ.M) = 2.267

CH. (KM):- 4+800
DESIGNED BED LEVEL = 105.068 M

LEGEND

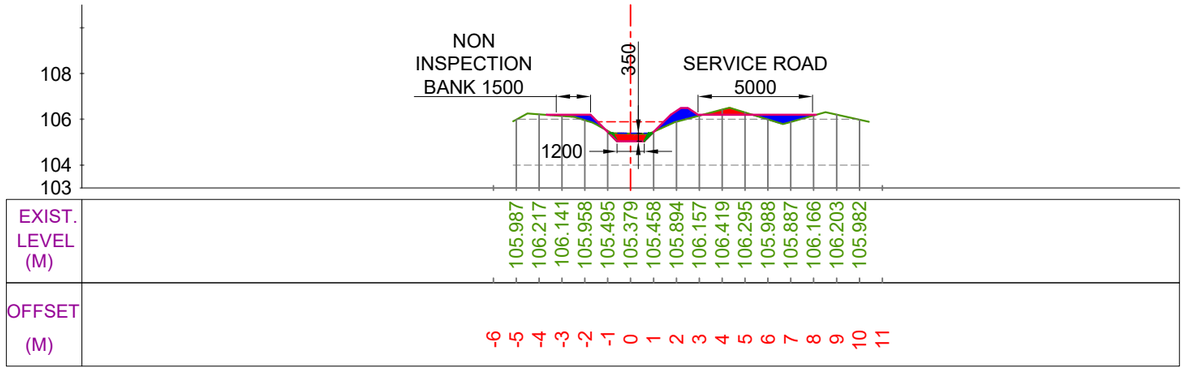
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

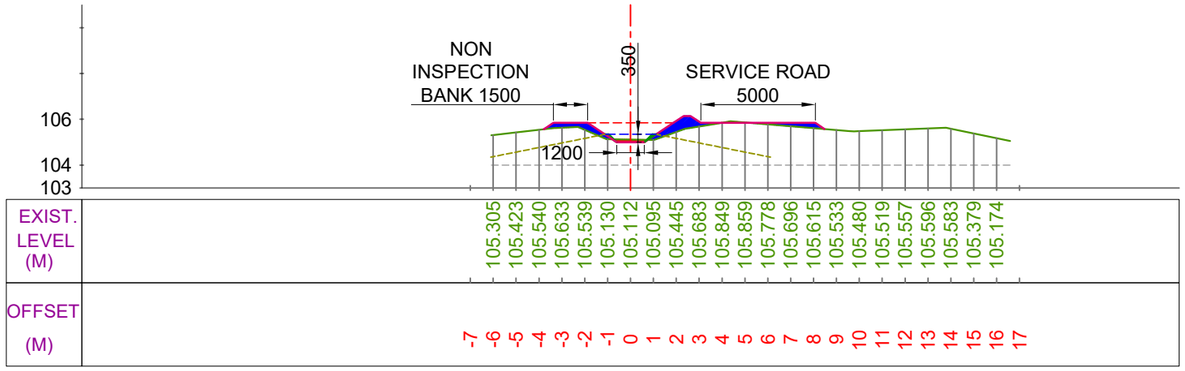
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 12 of 14

X SECTION OF DABURA-I MINOR



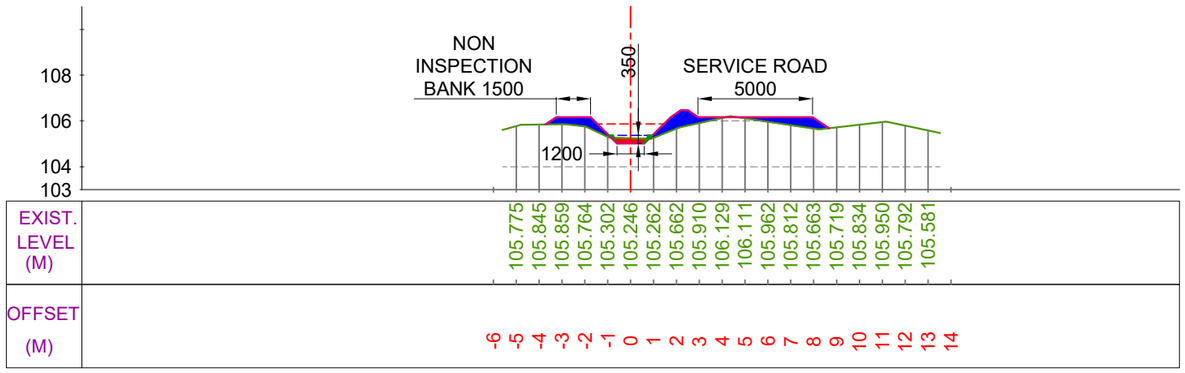
CUTTING AREA (SQ.M) = 0.815 CH. (KM):- 4+900

FILLING AREA (SQ.M) = 1.468 DESIGNED BED LEVEL = 105.042 M



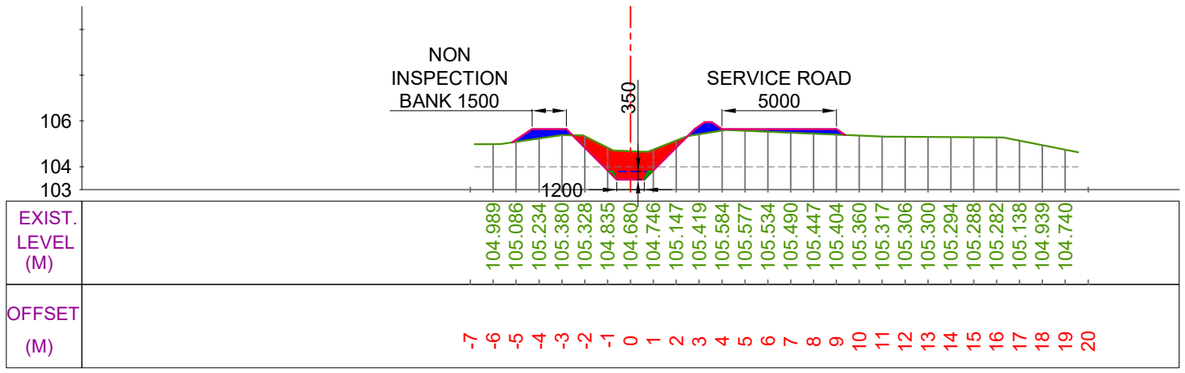
CUTTING AREA (SQ.M) = 0.204 CH. (KM):- 5+100

FILLING AREA (SQ.M) = 1.878 DESIGNED BED LEVEL = 104.991 M



CUTTING AREA (SQ.M) = 0.312 CH. (KM):- 5+000

FILLING AREA (SQ.M) = 3.055 DESIGNED BED LEVEL = 105.016 M



CUTTING AREA (SQ.M) = 3.858 CH. (KM):- 5+200

FILLING AREA (SQ.M) = 1.919 DESIGNED BED LEVEL = 103.445 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

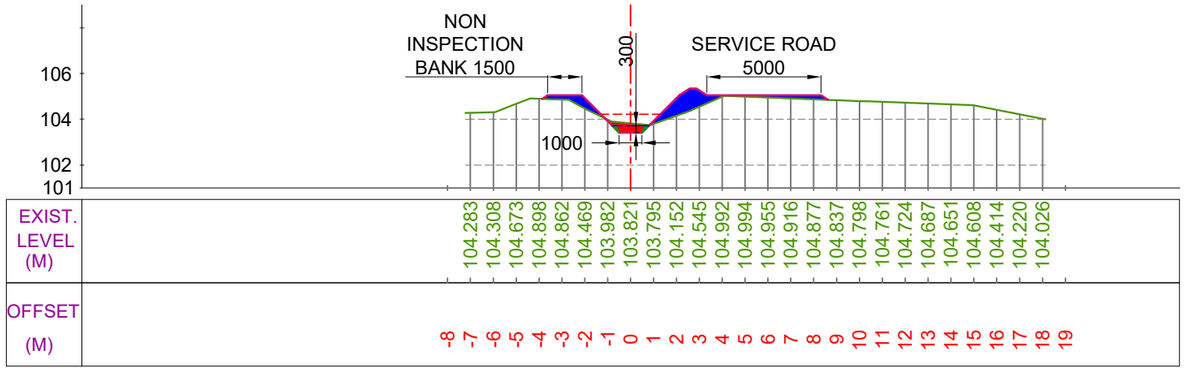
H.G. LINE

Prepared by :-

WAPCOS LTD.

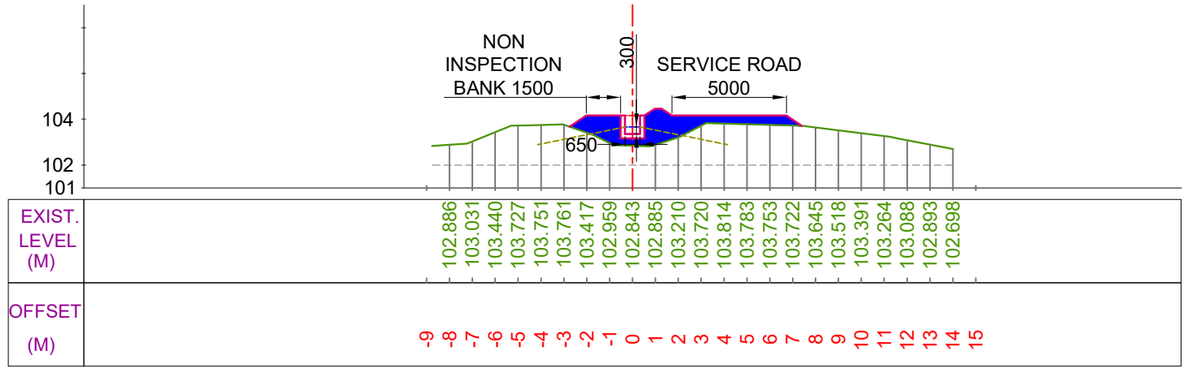
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 13 of 14

X SECTION OF DABURA-I MINOR



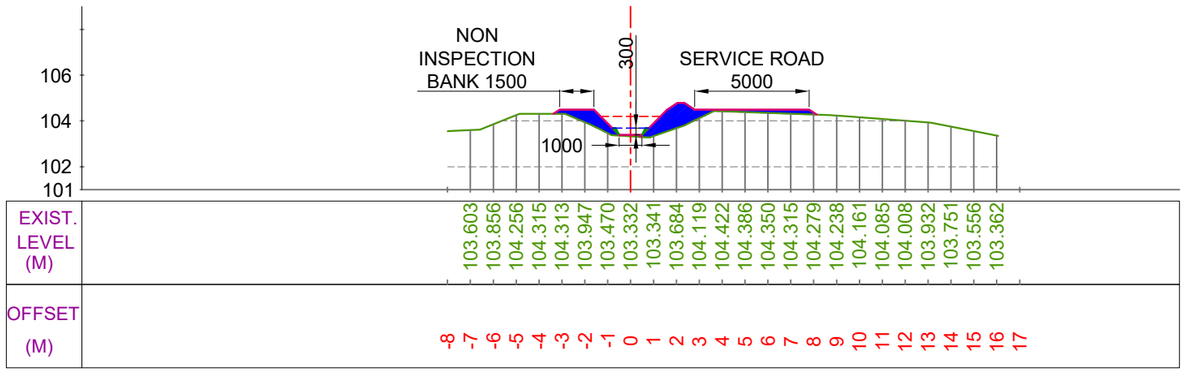
CUTTING AREA (SQ.M) = 0.536
FILLING AREA (SQ.M) = 2.760

CH. (KM):- 5+300
DESIGNED BED LEVEL = 103.419 M



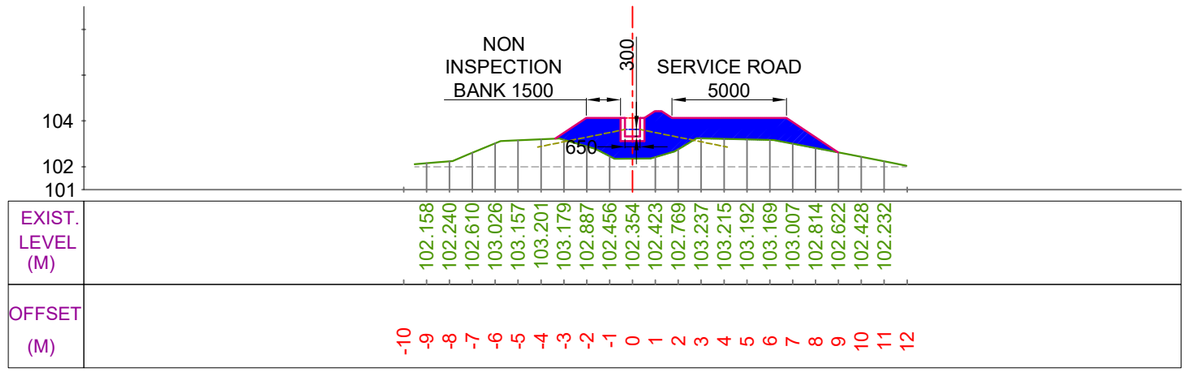
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.386

CH. (KM):- 5+500
DESIGNED BED LEVEL = 103.359 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.643

CH. (KM):- 5+400
DESIGNED BED LEVEL = 103.393 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 12.273

CH. (KM):- 5+600
DESIGNED BED LEVEL = 103.326 M

LEGEND

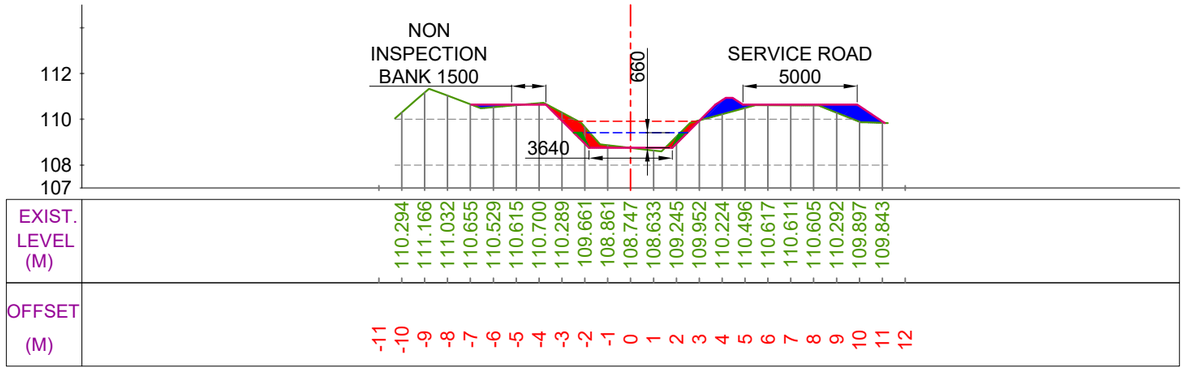
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

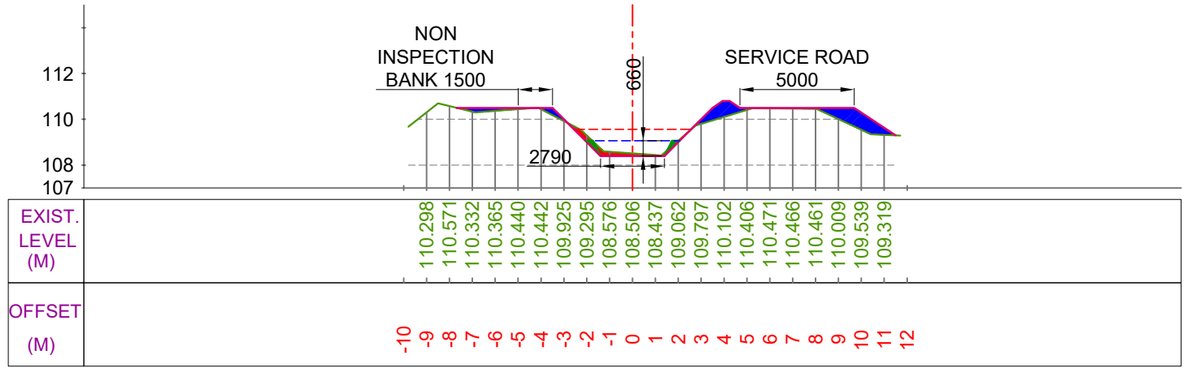
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF DABURA-I MINOR (OFFTAKE FROM RD - 2+945 KM. (R), CHATARA SUB-DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ XSEC- 14 of 14

X SECTION OF AKAUNA MINOR



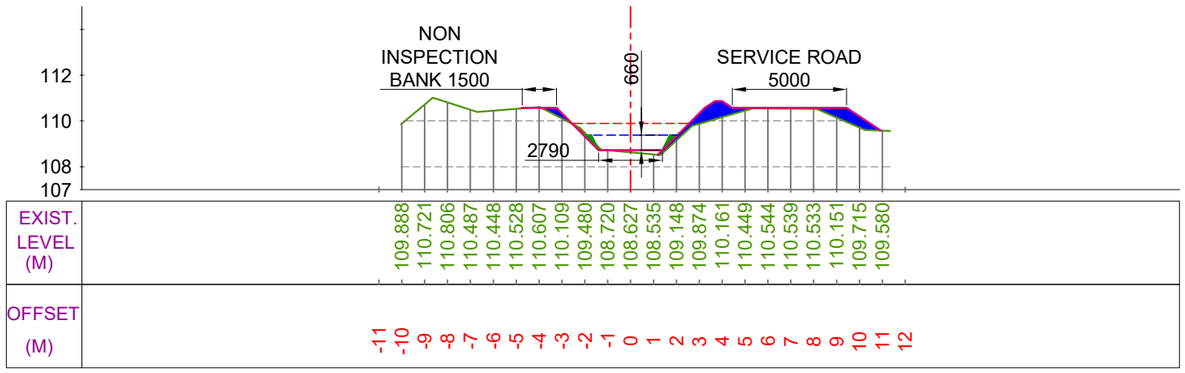
CUTTING AREA (SQ.M) = 1.332 CH. (KM):- 0+100

FILLING AREA (SQ.M) = 2.167 DESIGNED BED LEVEL = 108.752 M



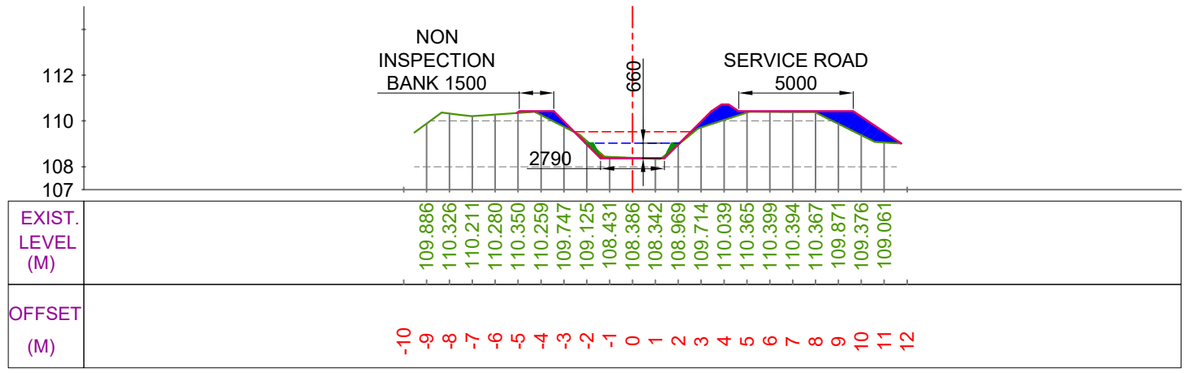
CUTTING AREA (SQ.M) = 0.577 CH. (KM):- 0+300

FILLING AREA (SQ.M) = 3.132 DESIGNED BED LEVEL = 108.397 M



CUTTING AREA (SQ.M) = 0.087 CH. (KM):- 0+200

FILLING AREA (SQ.M) = 2.734 DESIGNED BED LEVEL = 108.727 M



CUTTING AREA (SQ.M) = 0.167 CH. (KM):- 0+400

FILLING AREA (SQ.M) = 3.419 DESIGNED BED LEVEL = 108.372 M

LEGEND

CUT AREA

FILL AREA

EXISTING BED LINE

F.S.L.

DESIGNED BED LINE

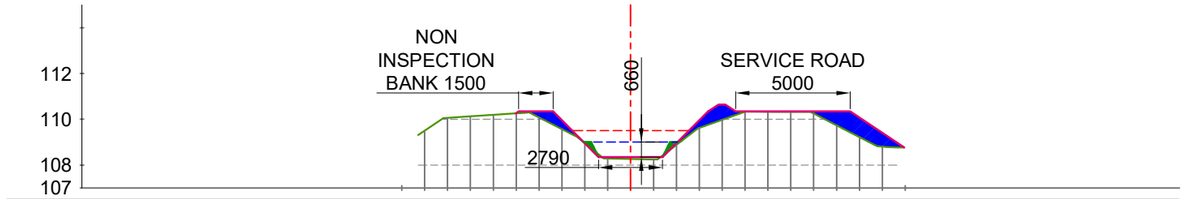
H.G. LINE

Prepared by :-

WAPCOS LTD.

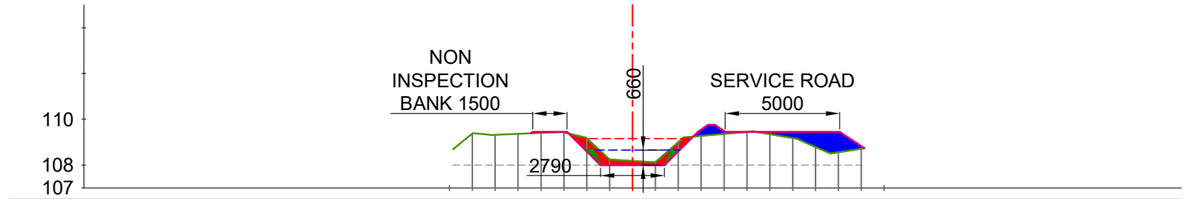
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 1 of 15

X SECTION OF AKAUNA MINOR



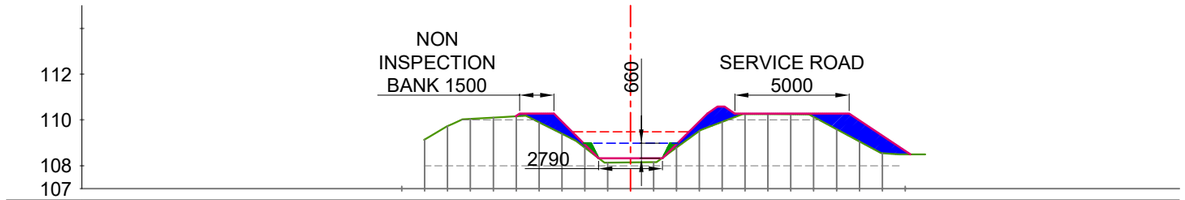
EXIST. LEVEL (M)	109.498	110.059	110.130	110.194	110.258	110.077	109.570	108.956	108.285	108.267	108.248	108.879	109.628	109.978	110.328	110.326	110.322	110.253	109.736	109.218	108.805				
OFFSET (M)	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12		

CUTTING AREA (SQ.M) = 0.018 CH. (KM):- 0+500
FILLING AREA (SQ.M) = 4.055 DESIGNED BED LEVEL = 108.347 M



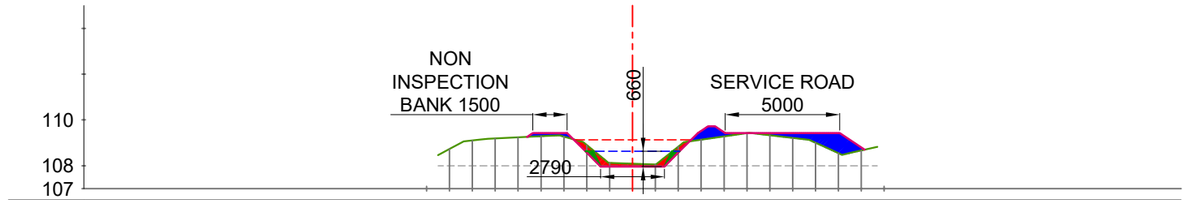
EXIST. LEVEL (M)	109.374	109.323	109.365	109.407	109.424	109.169	108.242	108.178	108.132	108.998	109.272	109.360	109.449	109.348	109.173	108.786	108.559	108.717							
OFFSET (M)	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11					

CUTTING AREA (SQ.M) = 1.474 CH. (KM):- 0+700
FILLING AREA (SQ.M) = 2.556 DESIGNED BED LEVEL = 107.992 M



EXIST. LEVEL (M)	109.143	109.735	110.047	110.106	110.164	109.896	109.393	108.791	108.137	108.147	108.156	108.790	109.522	109.917	110.258	110.254	110.250	110.135	109.600	109.065	108.553				
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) = 0.000 CH. (KM):- 0+600
FILLING AREA (SQ.M) = 4.991 DESIGNED BED LEVEL = 108.322 M



EXIST. LEVEL (M)	108.730	109.101	109.188	109.237	109.286	109.275	108.907	108.121	108.086	108.051	108.836	109.139	109.281	109.423	109.330	109.213	109.002	108.549	108.666						
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) = 0.858 CH. (KM):- 0+800
FILLING AREA (SQ.M) = 2.571 DESIGNED BED LEVEL = 107.967 M

LEGEND

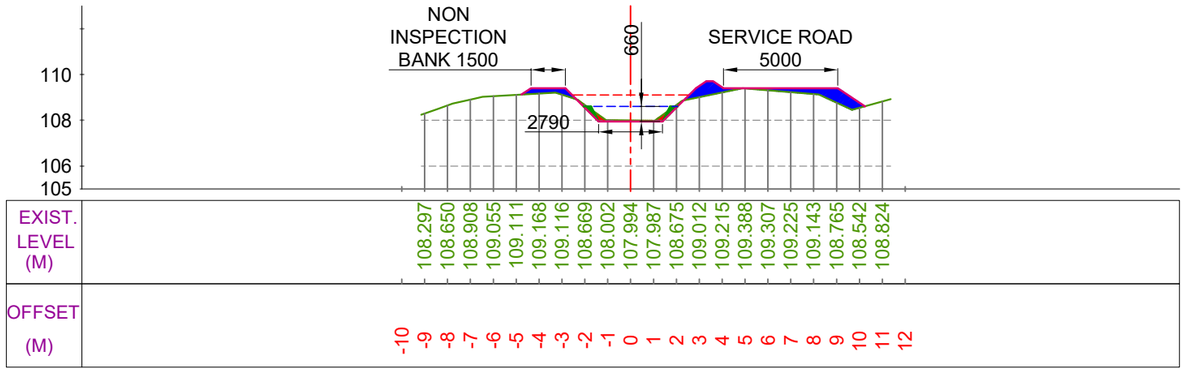
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

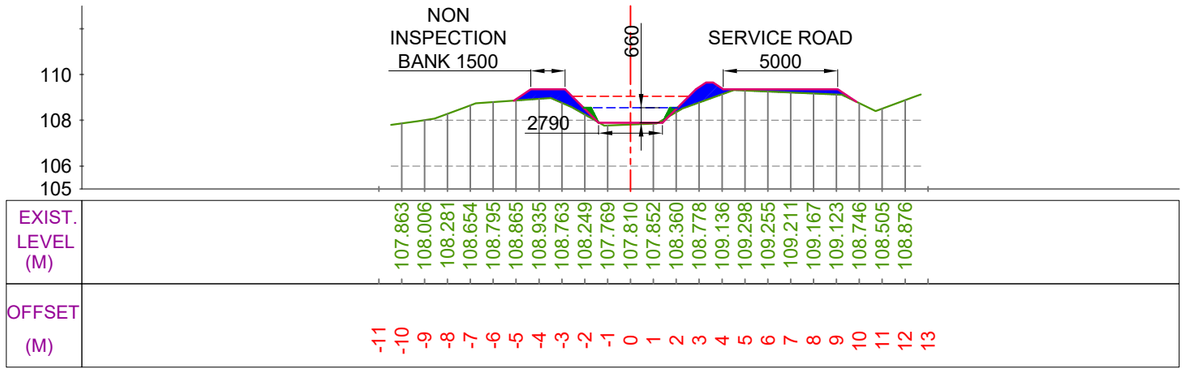
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 2 of 15

X SECTION OF AKAUNA MINOR



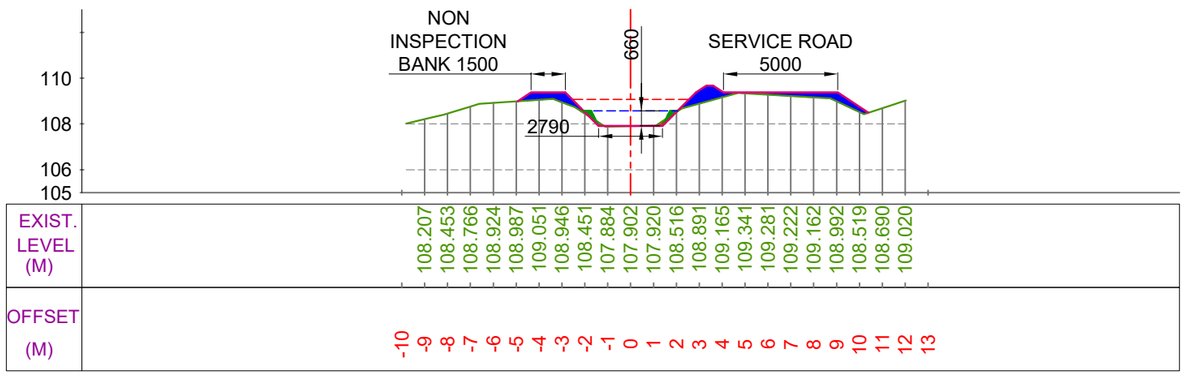
CUTTING AREA (SQ.M) = 0.346 CH. (KM):- 0+900

FILLING AREA (SQ.M) = 2.643 DESIGNED BED LEVEL = 107.942 M



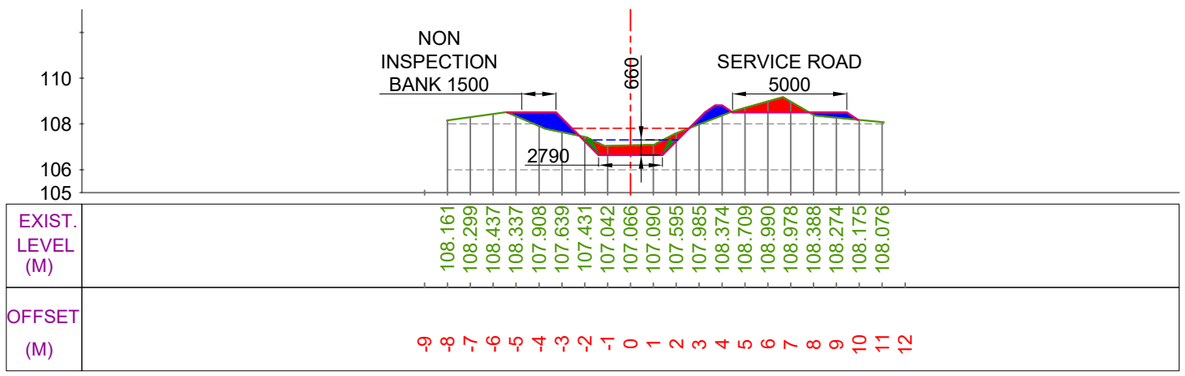
CUTTING AREA (SQ.M) = 0.017 CH. (KM):- 1+100

FILLING AREA (SQ.M) = 3.061 DESIGNED BED LEVEL = 107.892 M



CUTTING AREA (SQ.M) = 0.072 CH. (KM):- 1+000

FILLING AREA (SQ.M) = 2.790 DESIGNED BED LEVEL = 107.917 M



CUTTING AREA (SQ.M) = 2.813 CH. (KM):- 1+200

FILLING AREA (SQ.M) = 2.351 DESIGNED BED LEVEL = 106.647 M

LEGEND

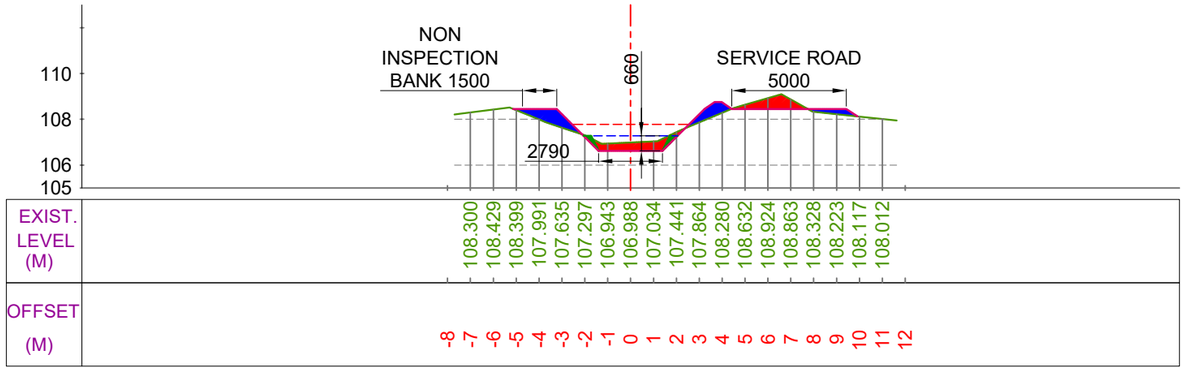
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

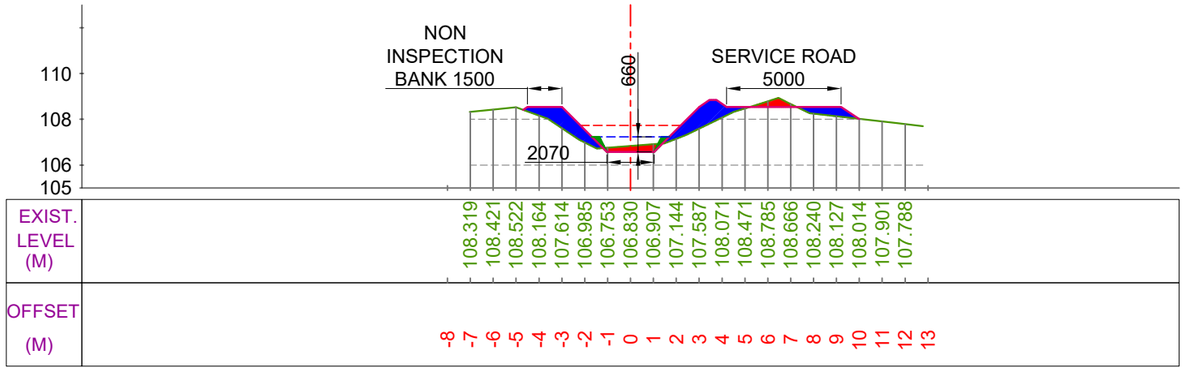
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 3 of 15

X SECTION OF AKAUNA MINOR



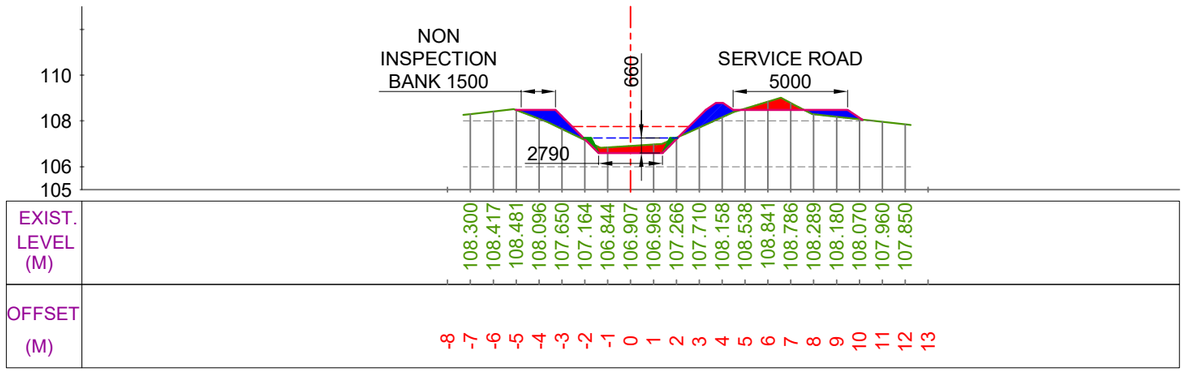
CUTTING AREA (SQ.M) = 2.321
FILLING AREA (SQ.M) = 2.239

CH. (KM):- 1+300
DESIGNED BED LEVEL = 106.622 M



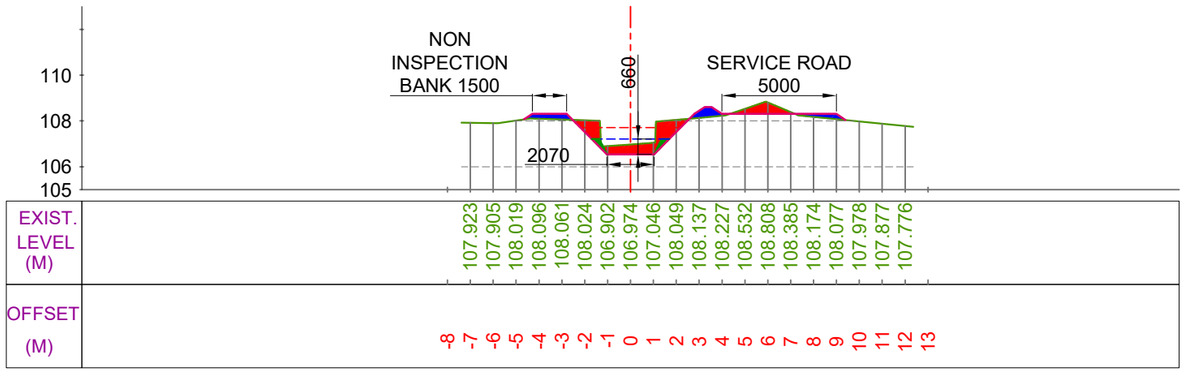
CUTTING AREA (SQ.M) = 0.971
FILLING AREA (SQ.M) = 4.523

CH. (KM):- 1+500
DESIGNED BED LEVEL = 106.572 M



CUTTING AREA (SQ.M) = 1.670
FILLING AREA (SQ.M) = 2.696

CH. (KM):- 1+400
DESIGNED BED LEVEL = 106.597 M



CUTTING AREA (SQ.M) = 3.259
FILLING AREA (SQ.M) = 1.131

CH. (KM):- 1+600
DESIGNED BED LEVEL = 106.547 M

LEGEND

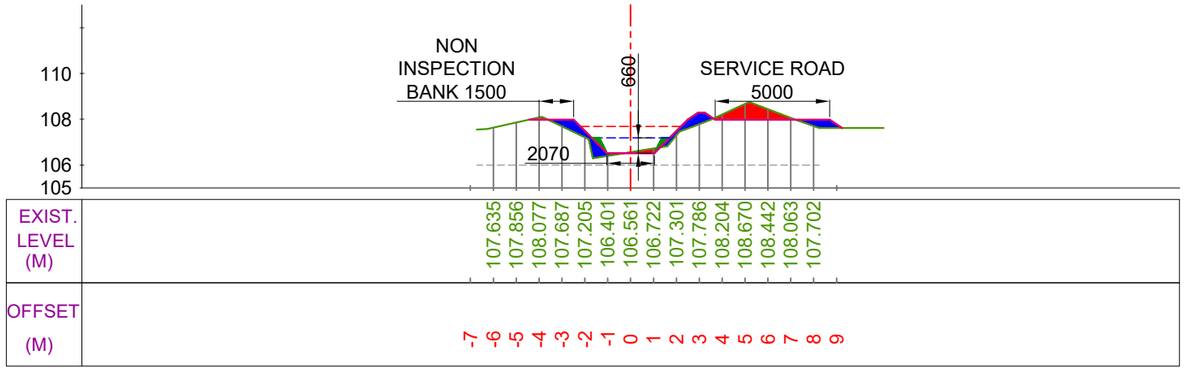
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

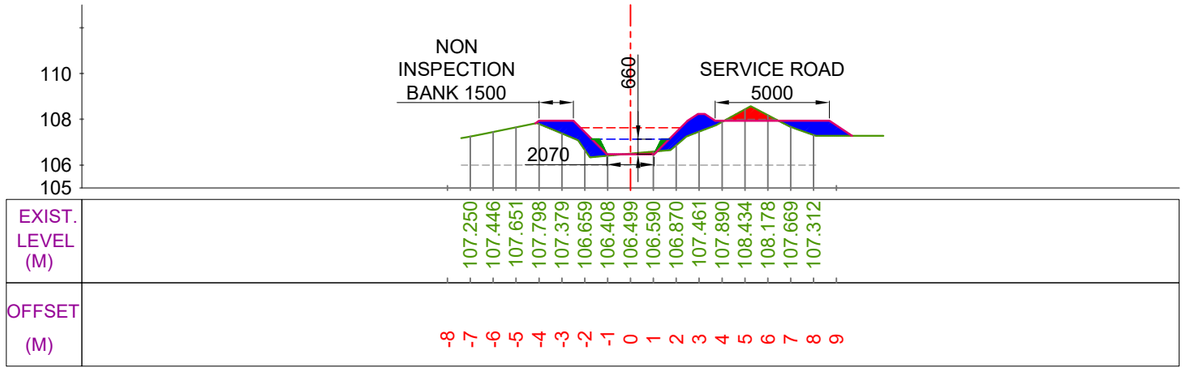
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 4 of 15

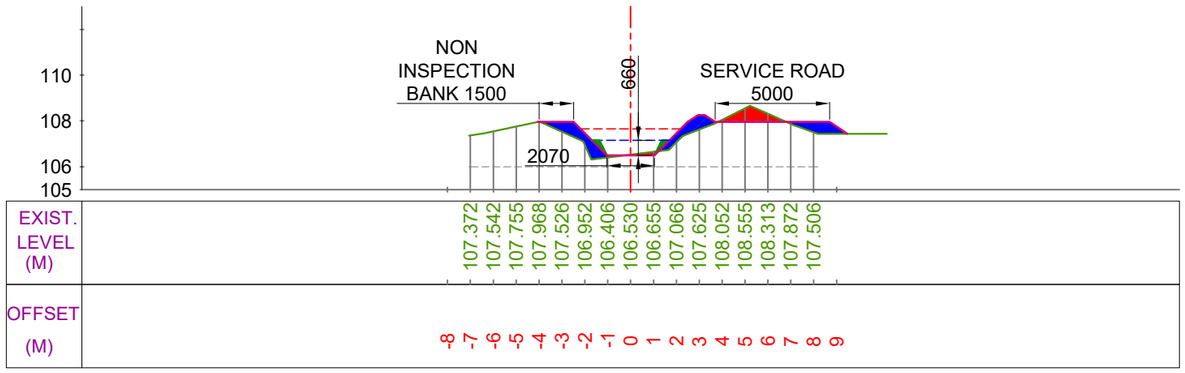
X SECTION OF AKAUNA MINOR



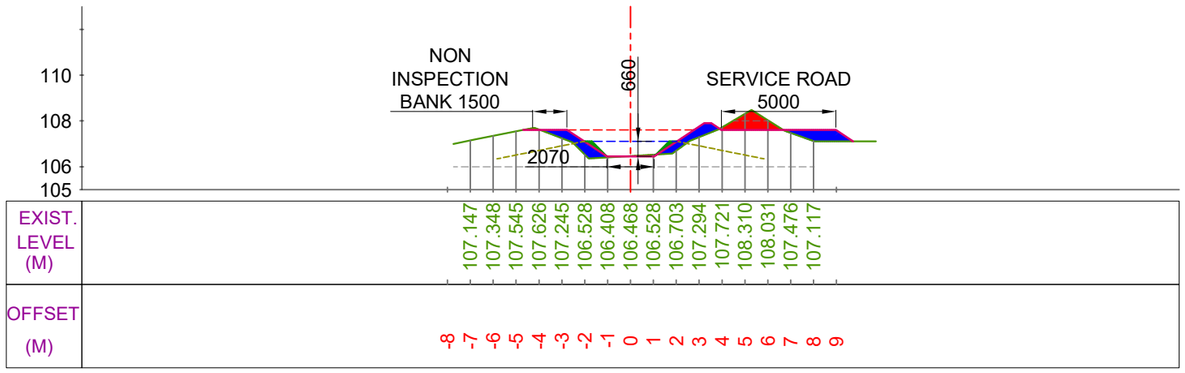
CUTTING AREA (SQ.M) = 1.613 CH. (KM):- 1+700
FILLING AREA (SQ.M) = 2.123 DESIGNED BED LEVEL = 106.522 M



CUTTING AREA (SQ.M) = 0.848 CH. (KM):- 1+900
FILLING AREA (SQ.M) = 4.266 DESIGNED BED LEVEL = 106.472 M



CUTTING AREA (SQ.M) = 1.169 CH. (KM):- 1+800
FILLING AREA (SQ.M) = 3.143 DESIGNED BED LEVEL = 106.497 M



CUTTING AREA (SQ.M) = 1.342 CH. (KM):- 2+000
FILLING AREA (SQ.M) = 2.913 DESIGNED BED LEVEL = 106.447 M

LEGEND

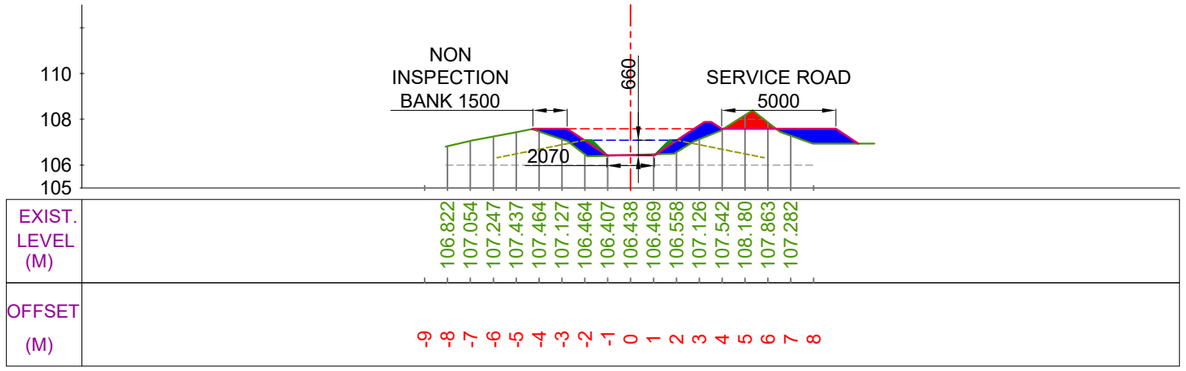
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

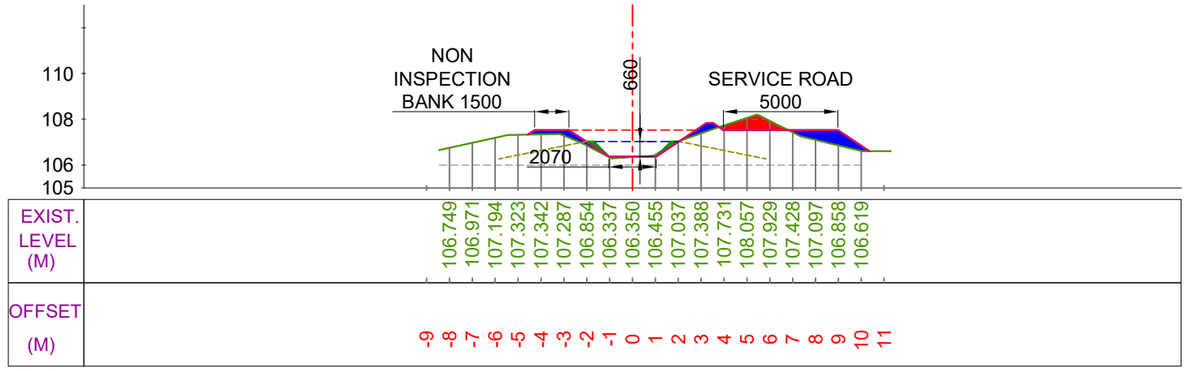
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 5 of 15

X SECTION OF AKAUNA MINOR



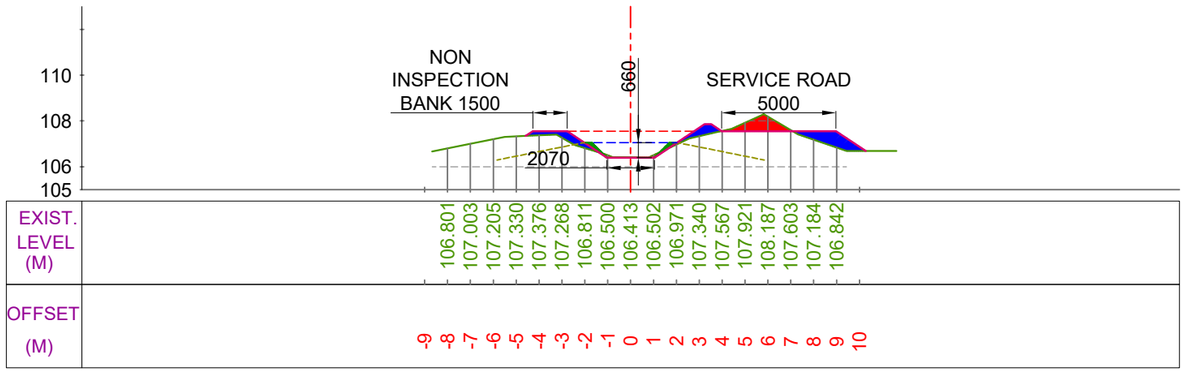
CUTTING AREA (SQ.M) = 0.964
FILLING AREA (SQ.M) = 3.978

CH. (KM):- 2+100
DESIGNED BED LEVEL = 106.422 M



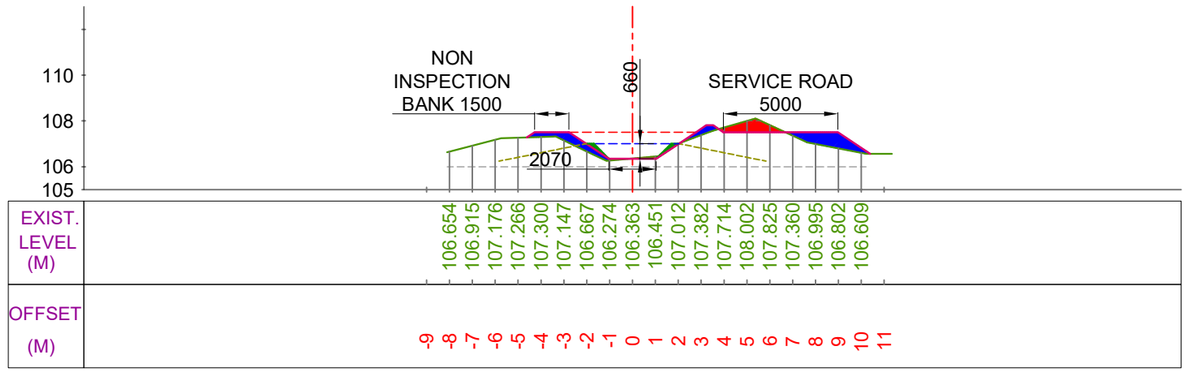
CUTTING AREA (SQ.M) = 1.138
FILLING AREA (SQ.M) = 2.355

CH. (KM):- 2+300
DESIGNED BED LEVEL = 106.372 M



CUTTING AREA (SQ.M) = 1.153
FILLING AREA (SQ.M) = 2.437

CH. (KM):- 2+200
DESIGNED BED LEVEL = 106.397 M



CUTTING AREA (SQ.M) = 1.052
FILLING AREA (SQ.M) = 2.770

CH. (KM):- 2+400
DESIGNED BED LEVEL = 106.347 M

LEGEND

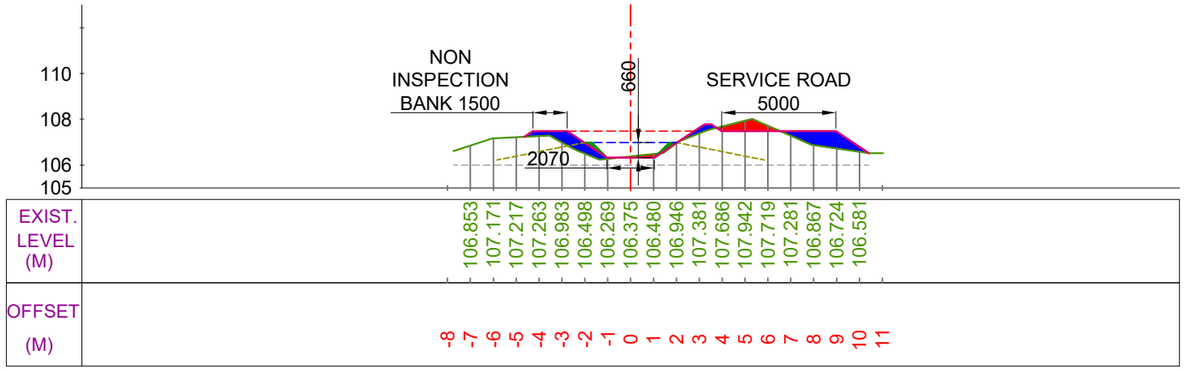
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

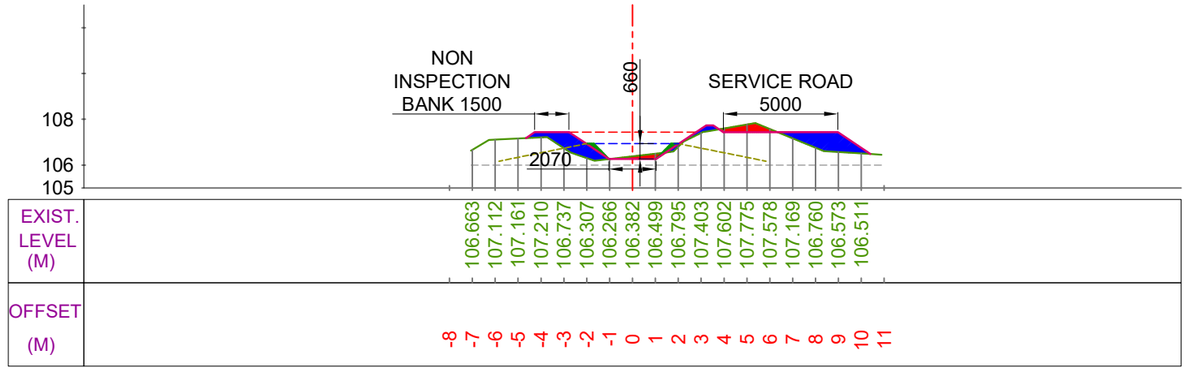
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 6 of 15

X SECTION OF AKAUNA MINOR



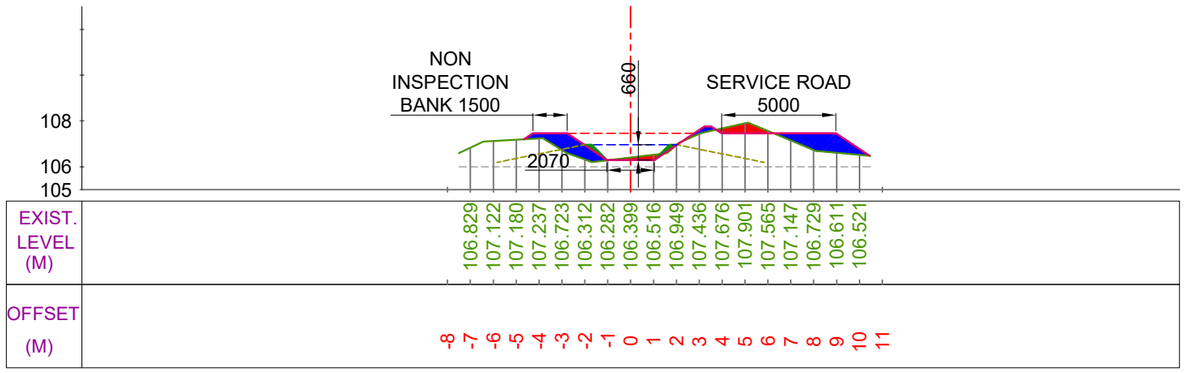
CUTTING AREA (SQ.M) = 0.983
FILLING AREA (SQ.M) = 3.231

CH. (KM):- 2+500
DESIGNED BED LEVEL = 106.322 M



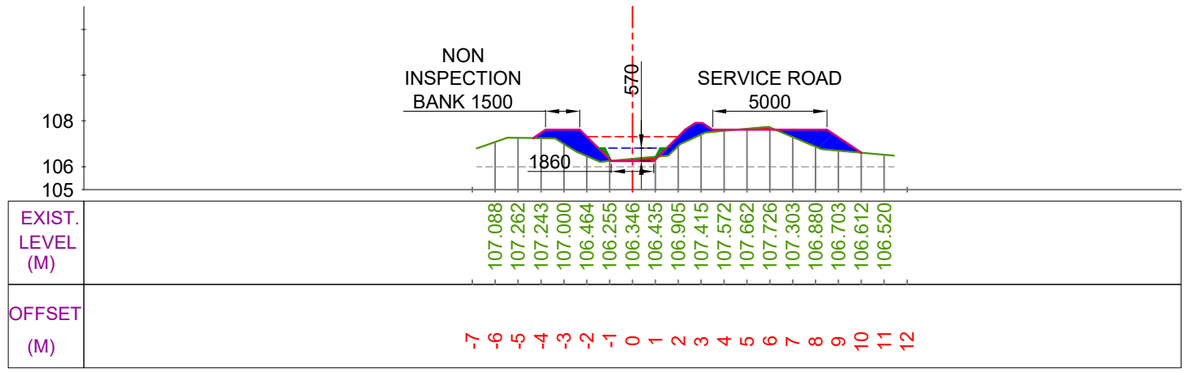
CUTTING AREA (SQ.M) = 0.874
FILLING AREA (SQ.M) = 3.847

CH. (KM):- 2+700
DESIGNED BED LEVEL = 106.272 M



CUTTING AREA (SQ.M) = 0.933
FILLING AREA (SQ.M) = 3.891

CH. (KM):- 2+600
DESIGNED BED LEVEL = 106.297 M



CUTTING AREA (SQ.M) = 0.306
FILLING AREA (SQ.M) = 4.537

CH. (KM):- 2+800
DESIGNED BED LEVEL = 106.247 M

LEGEND

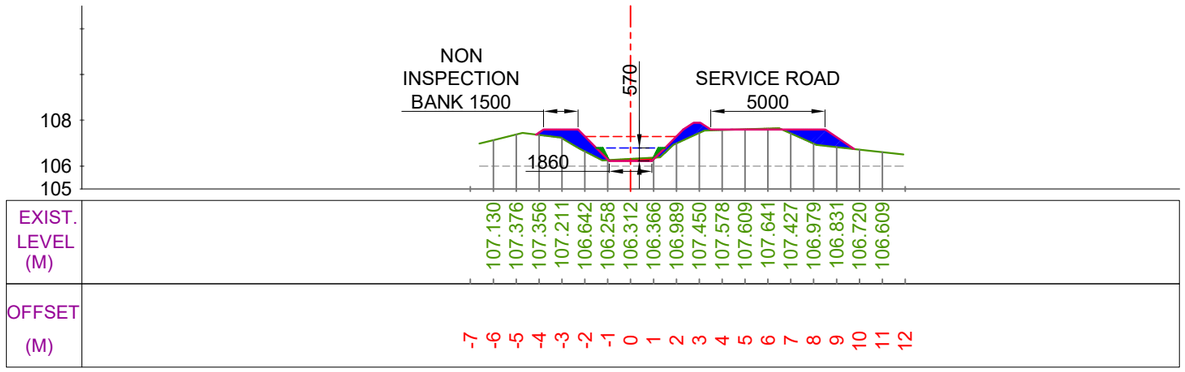
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

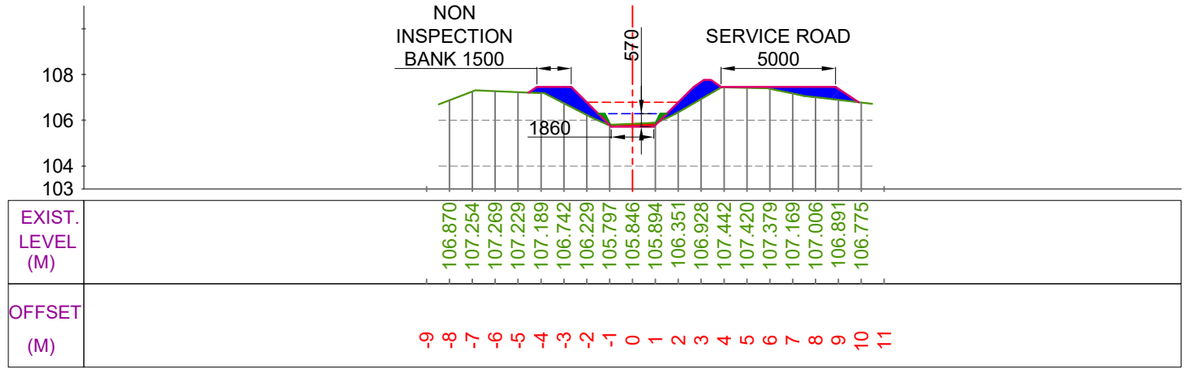
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 7 of 15

X SECTION OF AKAUNA MINOR



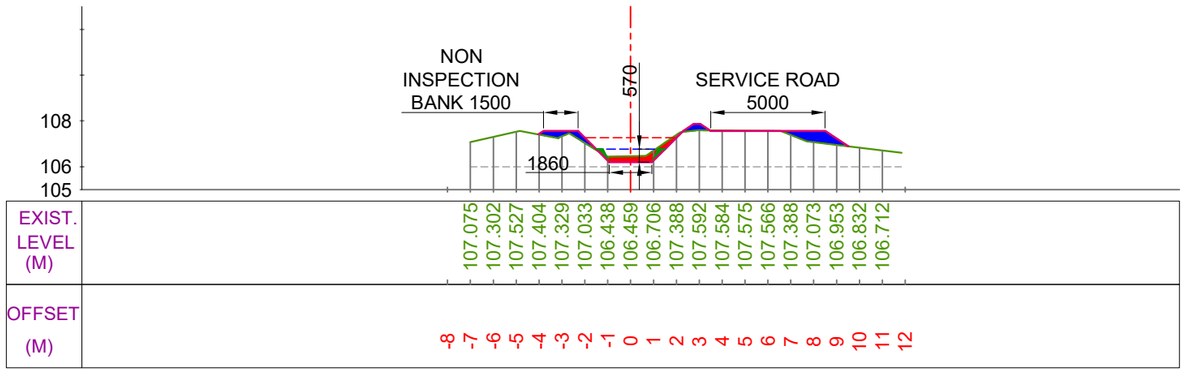
CUTTING AREA (SQ.M) = 0.243 CH. (KM):- 2+900

FILLING AREA (SQ.M) = 3.295 DESIGNED BED LEVEL = 106.222 M



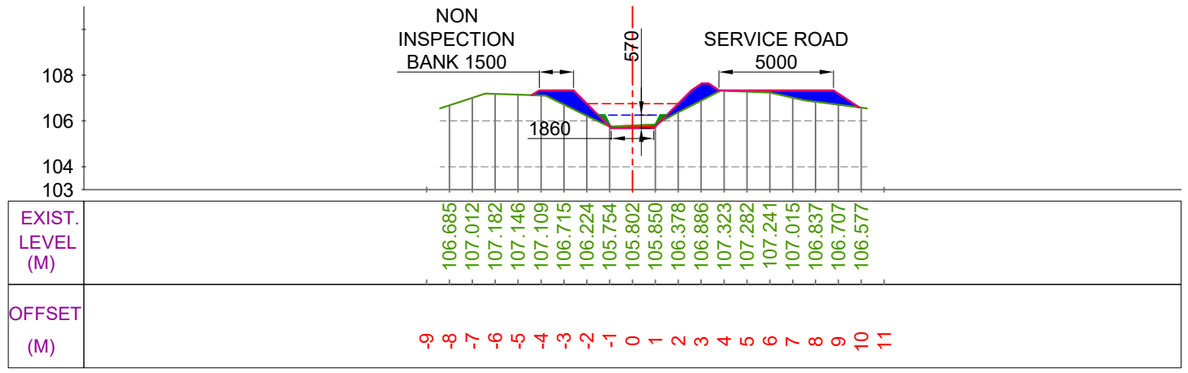
CUTTING AREA (SQ.M) = 0.253 CH. (KM):- 3+100

FILLING AREA (SQ.M) = 4.219 DESIGNED BED LEVEL = 105.715 M



CUTTING AREA (SQ.M) = 0.804 CH. (KM):- 3+000

FILLING AREA (SQ.M) = 1.706 DESIGNED BED LEVEL = 106.197 M



CUTTING AREA (SQ.M) = 0.220 CH. (KM):- 3+200

FILLING AREA (SQ.M) = 4.042 DESIGNED BED LEVEL = 105.688 M

LEGEND

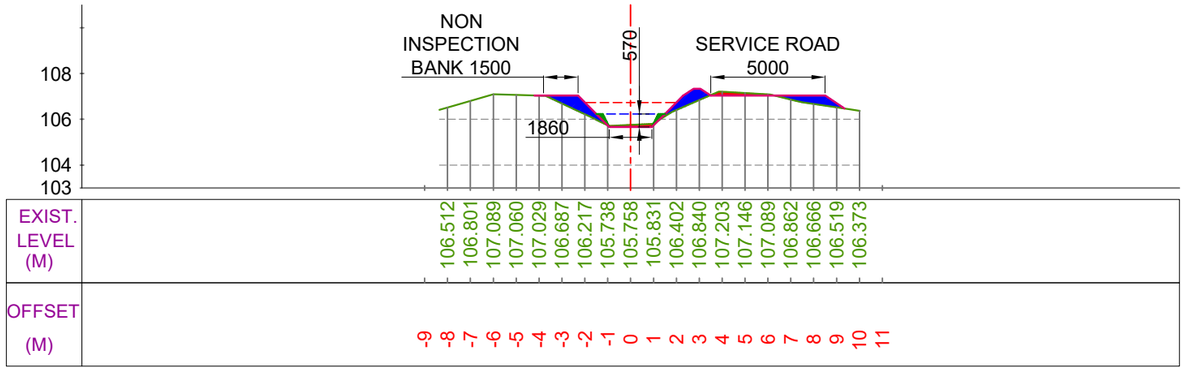
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

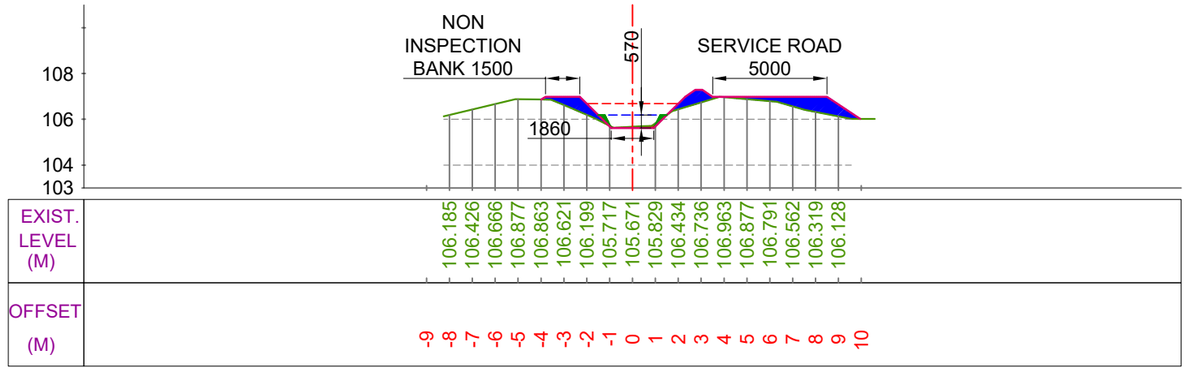
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 8 of 15

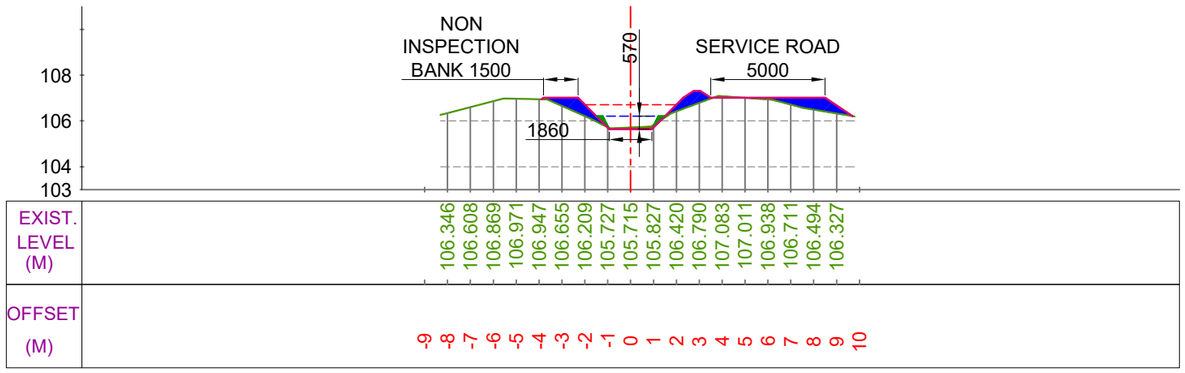
X SECTION OF AKAUNA MINOR



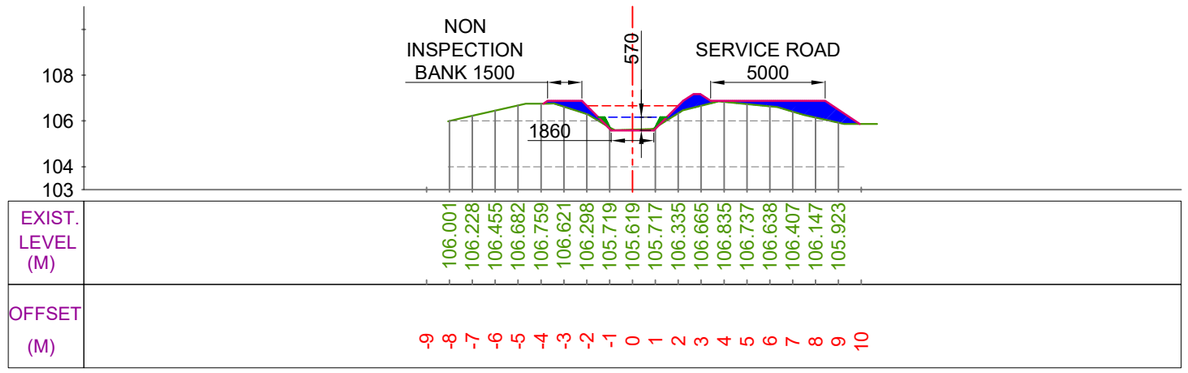
CUTTING AREA (SQ.M) = 0.473 CH. (KM):- 3+300
FILLING AREA (SQ.M) = 2.418 DESIGNED BED LEVEL = 105.665 M



CUTTING AREA (SQ.M) = 0.122 CH. (KM):- 3+500
FILLING AREA (SQ.M) = 3.671 DESIGNED BED LEVEL = 105.615 M



CUTTING AREA (SQ.M) = 0.209 CH. (KM):- 3+400
FILLING AREA (SQ.M) = 2.917 DESIGNED BED LEVEL = 105.640 M



CUTTING AREA (SQ.M) = 0.067 CH. (KM):- 3+600
FILLING AREA (SQ.M) = 3.673 DESIGNED BED LEVEL = 105.590 M

LEGEND

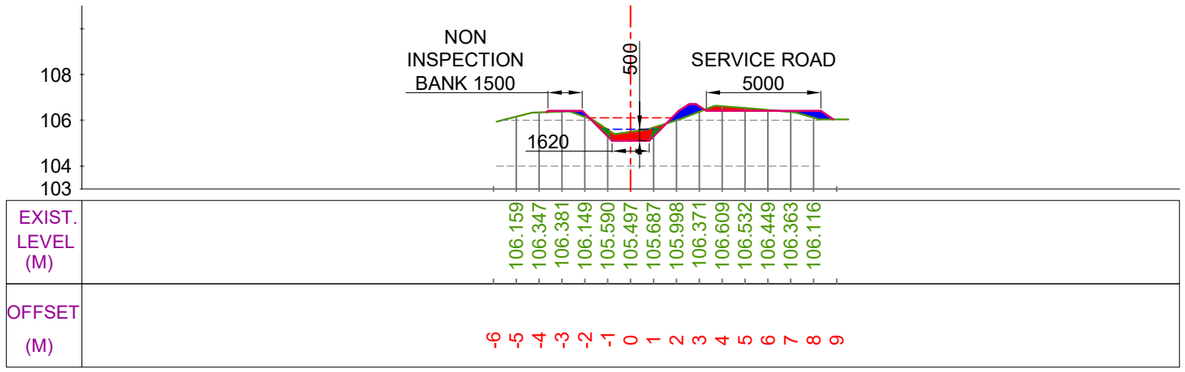
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

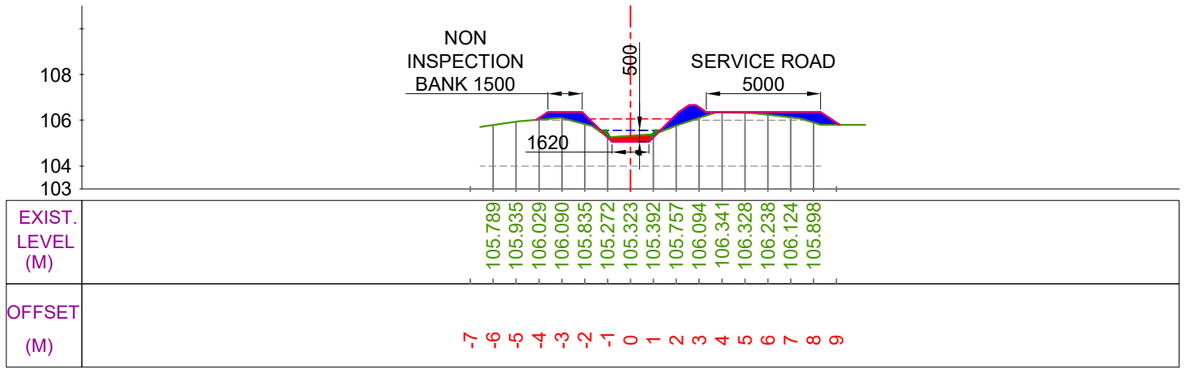
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 9 of 15

X SECTION OF AKAUNA MINOR



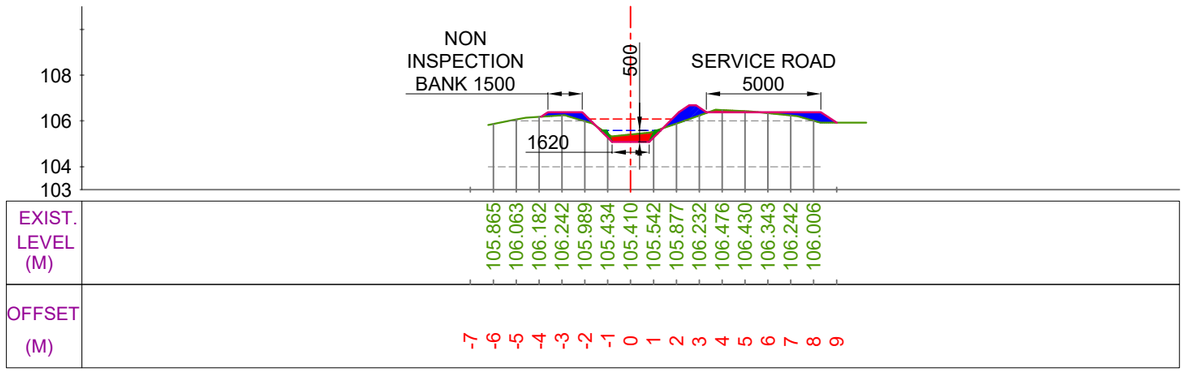
CUTTING AREA (SQ.M) = 1.274 CH. (KM):- 3+700

FILLING AREA (SQ.M) = 1.015 DESIGNED BED LEVEL = 105.108 M



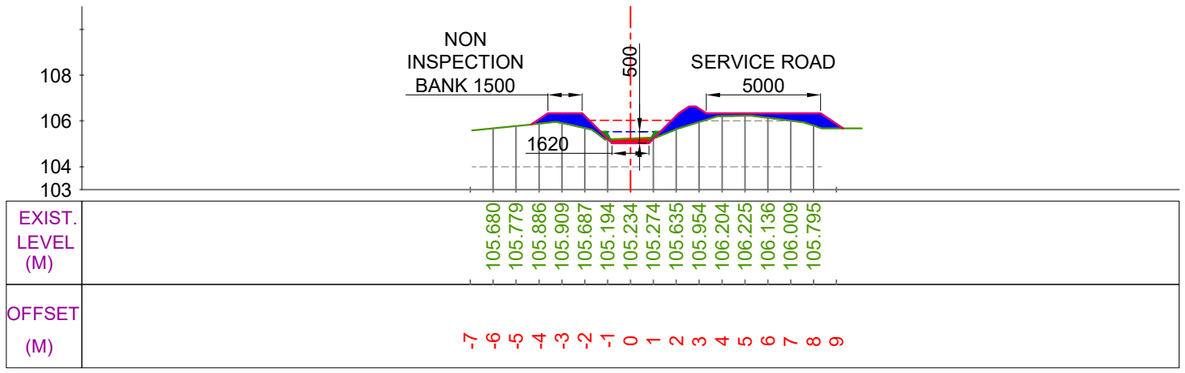
CUTTING AREA (SQ.M) = 0.466 CH. (KM):- 3+900

FILLING AREA (SQ.M) = 2.705 DESIGNED BED LEVEL = 105.058 M



CUTTING AREA (SQ.M) = 0.744 CH. (KM):- 3+800

FILLING AREA (SQ.M) = 1.751 DESIGNED BED LEVEL = 105.083 M



CUTTING AREA (SQ.M) = 0.346 CH. (KM):- 4+000

FILLING AREA (SQ.M) = 3.879 DESIGNED BED LEVEL = 105.033 M

LEGEND

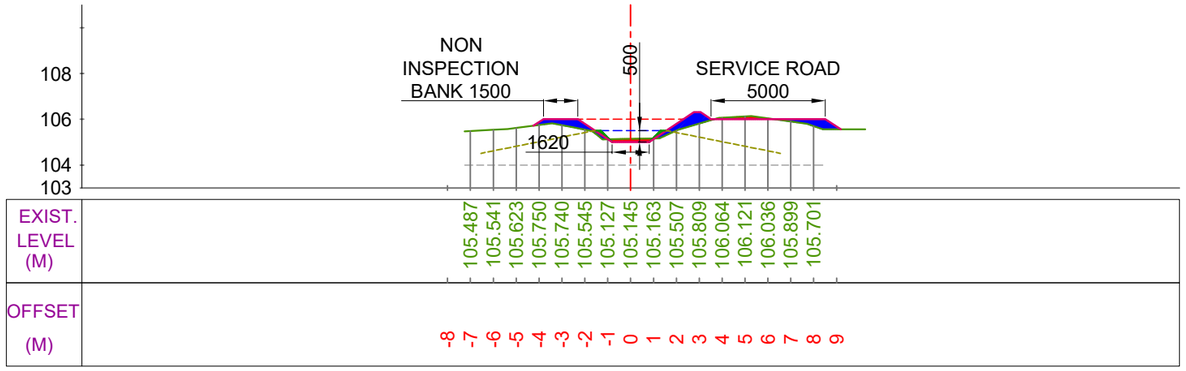
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

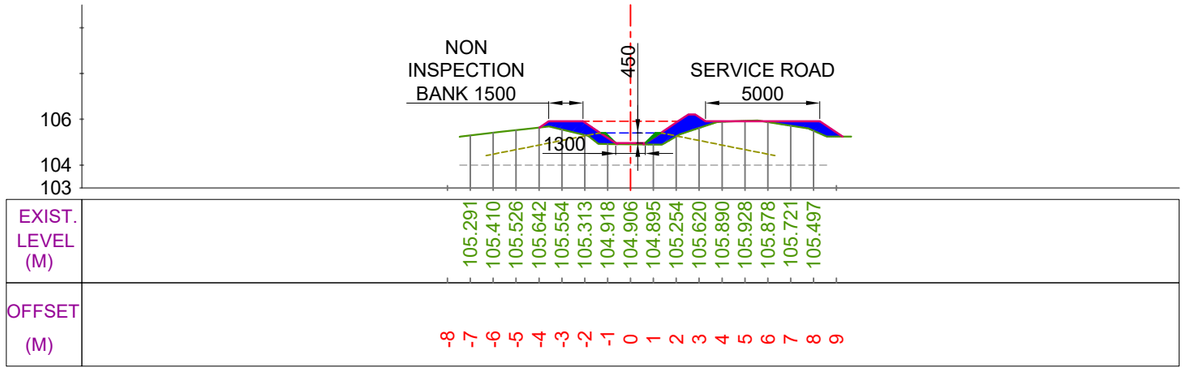
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 10 of 15

X SECTION OF AKAUNA MINOR



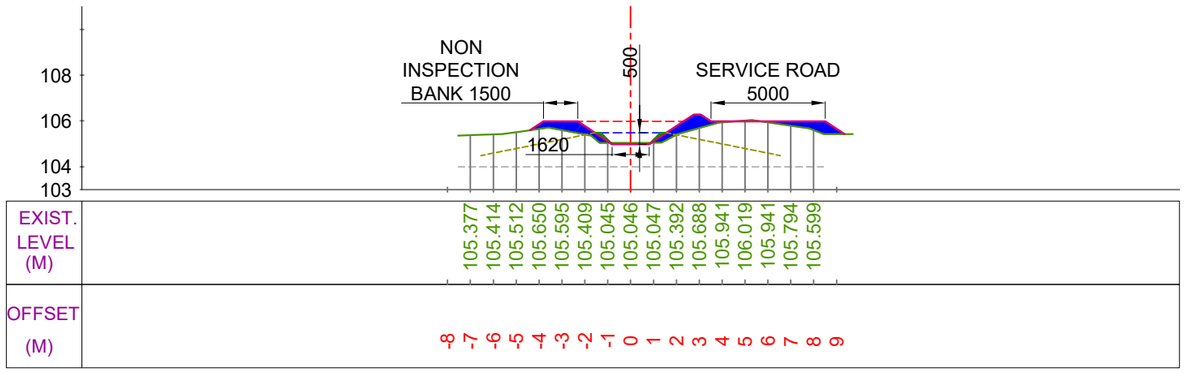
CUTTING AREA (SQ.M) = 0.430 CH. (KM):- 4+100

FILLING AREA (SQ.M) = 2.062 DESIGNED BED LEVEL = 105.008 M



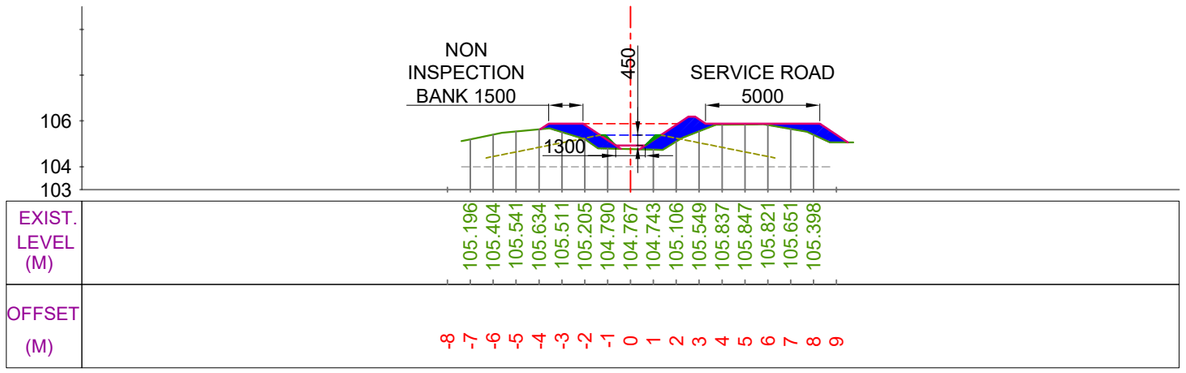
CUTTING AREA (SQ.M) = 0.027 CH. (KM):- 4+300

FILLING AREA (SQ.M) = 3.422 DESIGNED BED LEVEL = 104.958 M



CUTTING AREA (SQ.M) = 0.141 CH. (KM):- 4+200

FILLING AREA (SQ.M) = 3.000 DESIGNED BED LEVEL = 104.983 M



CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 4+400

FILLING AREA (SQ.M) = 4.255 DESIGNED BED LEVEL = 104.932 M

LEGEND

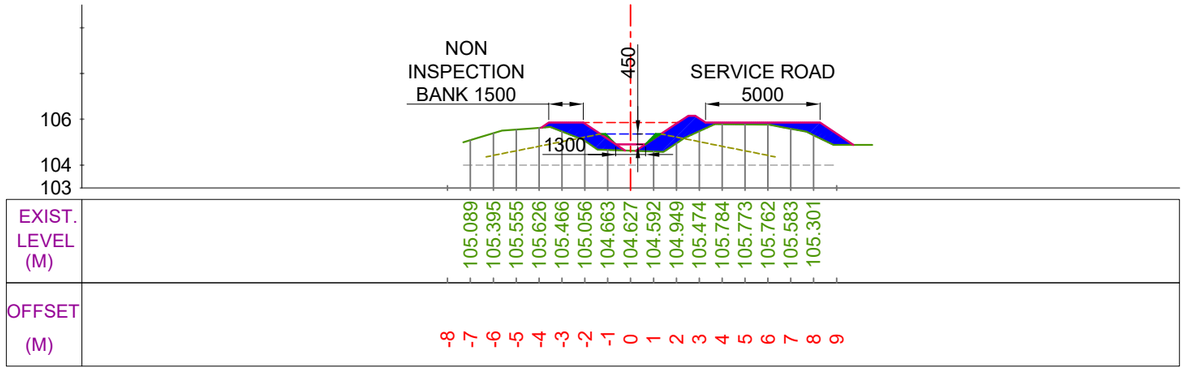
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

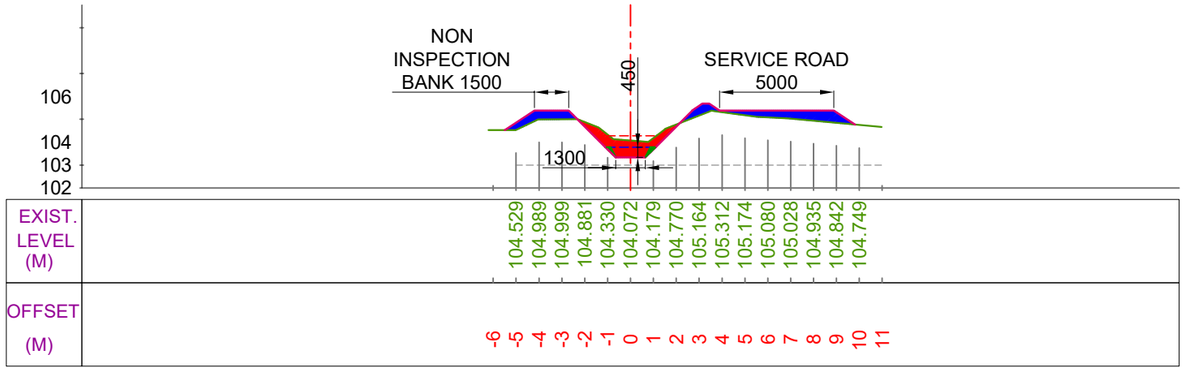
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 11 of 15

X SECTION OF AKAUNA MINOR



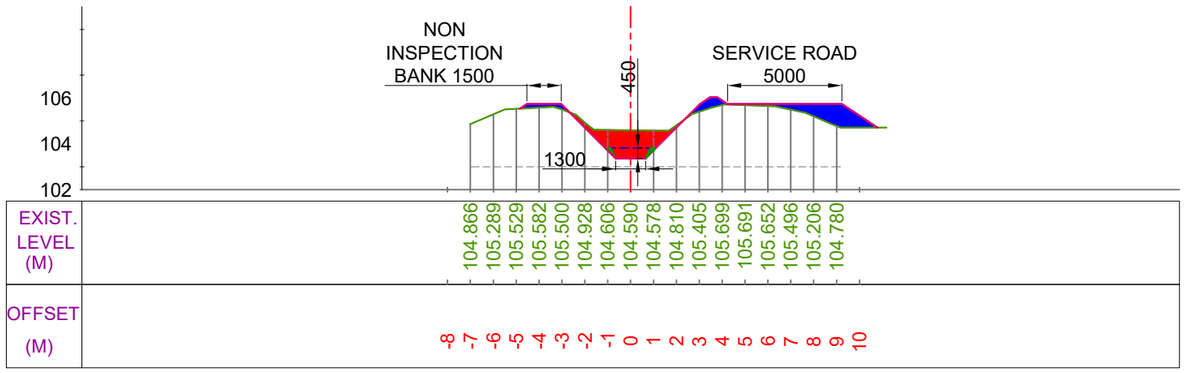
CUTTING AREA (SQ.M) = 0.000 CH. (KM):- 4+500

FILLING AREA (SQ.M) = 5.194 DESIGNED BED LEVEL = 104.906 M



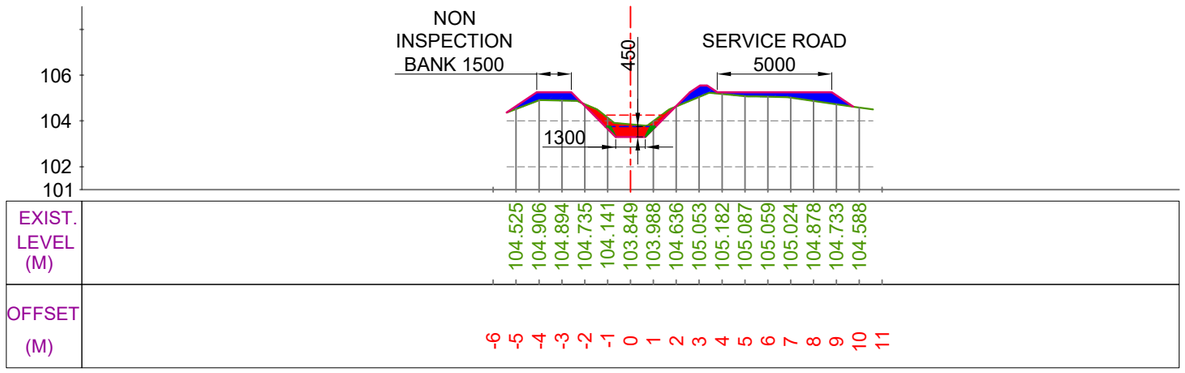
CUTTING AREA (SQ.M) = 2.143 CH. (KM):- 4+700

FILLING AREA (SQ.M) = 3.347 DESIGNED BED LEVEL = 103.333 M



CUTTING AREA (SQ.M) = 3.226 CH. (KM):- 4+600

FILLING AREA (SQ.M) = 3.209 DESIGNED BED LEVEL = 103.359 M



CUTTING AREA (SQ.M) = 1.443 CH. (KM):- 4+800

FILLING AREA (SQ.M) = 2.732 DESIGNED BED LEVEL = 103.307 M

LEGEND

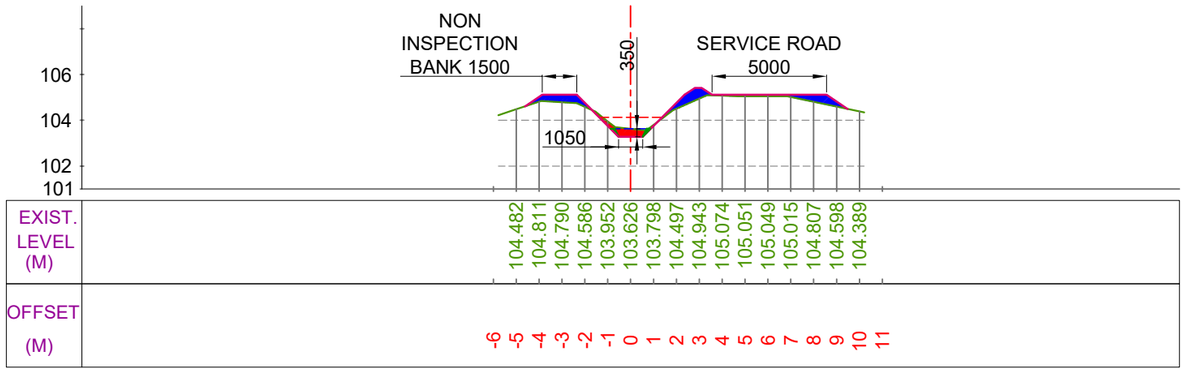
CUT AREA		EXISTING BED LINE	
		F.S.L.	
FILL AREA		DESIGNED BED LINE	
		H.G. LINE	

Prepared by :-

WAPCOS LTD.

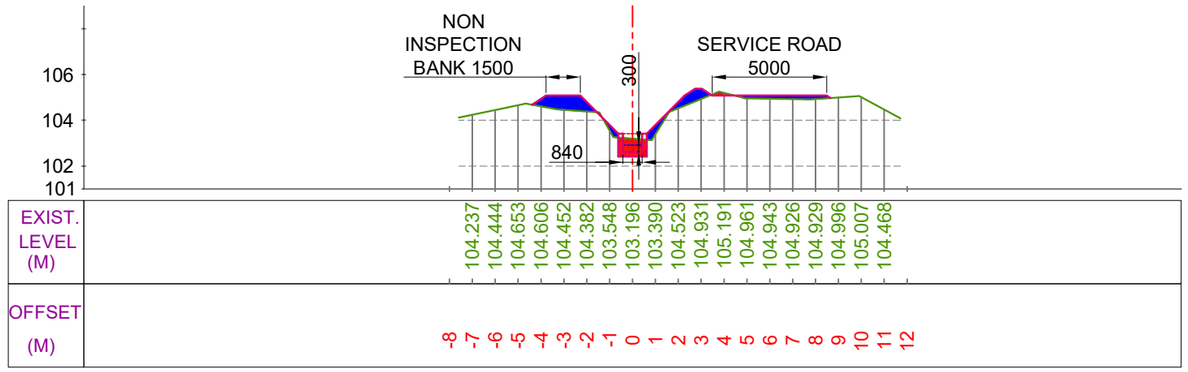
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 12 of 15

X SECTION OF AKAUNA MINOR



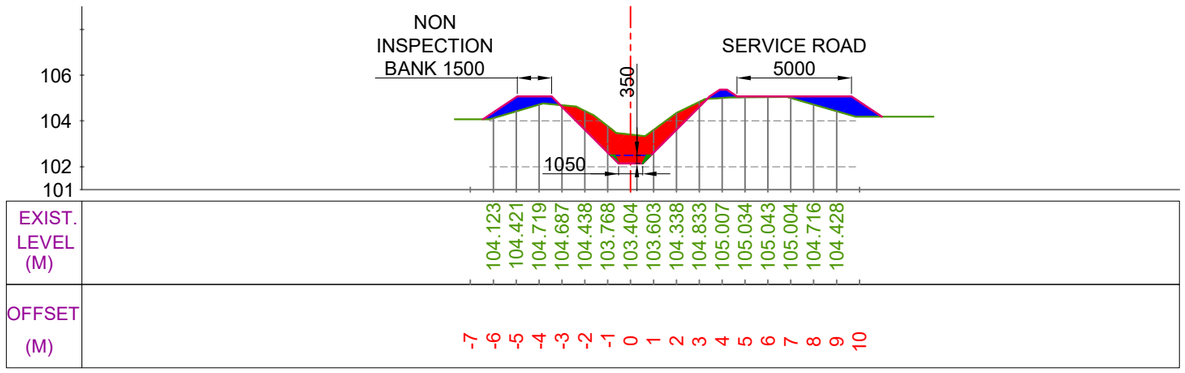
CUTTING AREA (SQ.M) = 0.571 CH. (KM):- 4+900

FILLING AREA (SQ.M) = 2.179 DESIGNED BED LEVEL = 103.281 M



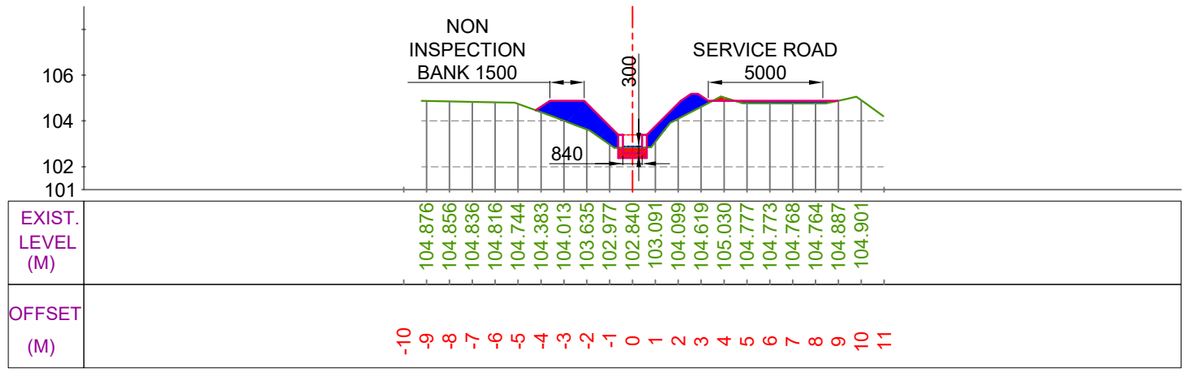
CUTTING AREA (SQ.M) = 1.062 CH. (KM):- 5+100

FILLING AREA (SQ.M) = 2.956 DESIGNED BED LEVEL = 102.618 M



CUTTING AREA (SQ.M) = 5.242 CH. (KM):- 5+000

FILLING AREA (SQ.M) = 3.401 DESIGNED BED LEVEL = 102.644 M



CUTTING AREA (SQ.M) = 0.654 CH. (KM):- 5+200

FILLING AREA (SQ.M) = 5.013 DESIGNED BED LEVEL = 102.588 M

LEGEND

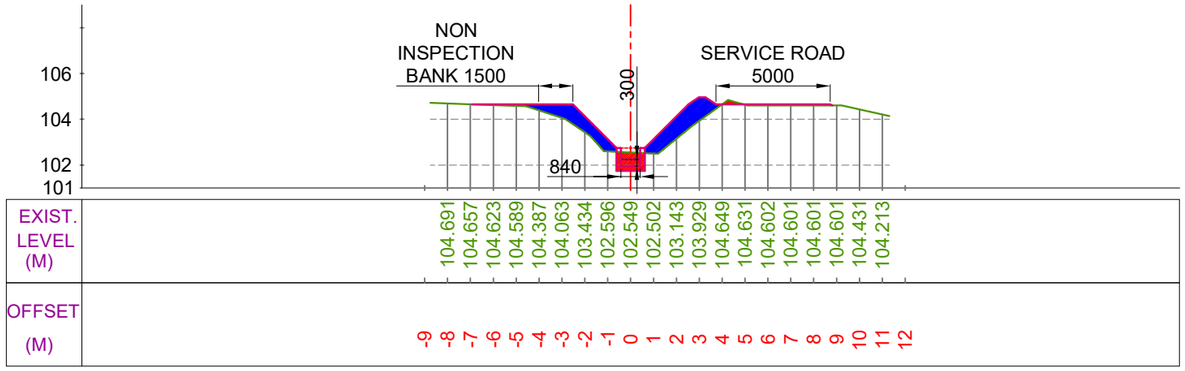
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

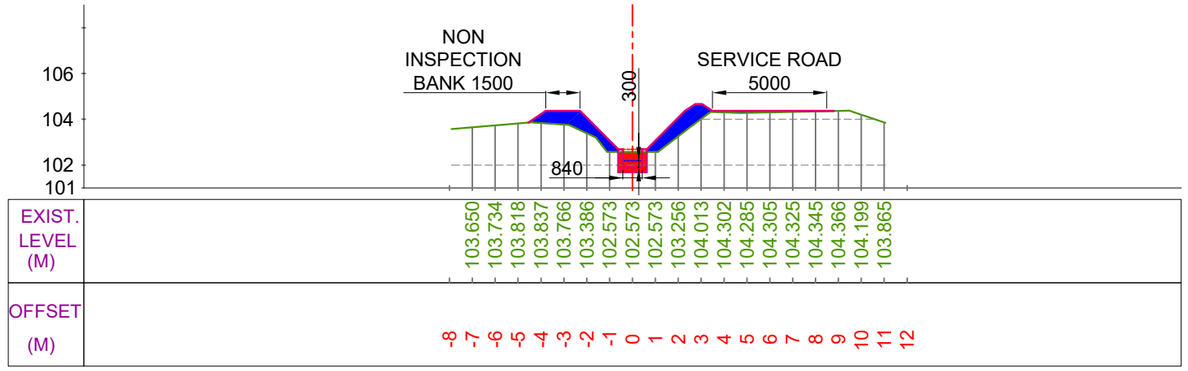
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 13 of 15

X SECTION OF AKAUNA MINOR



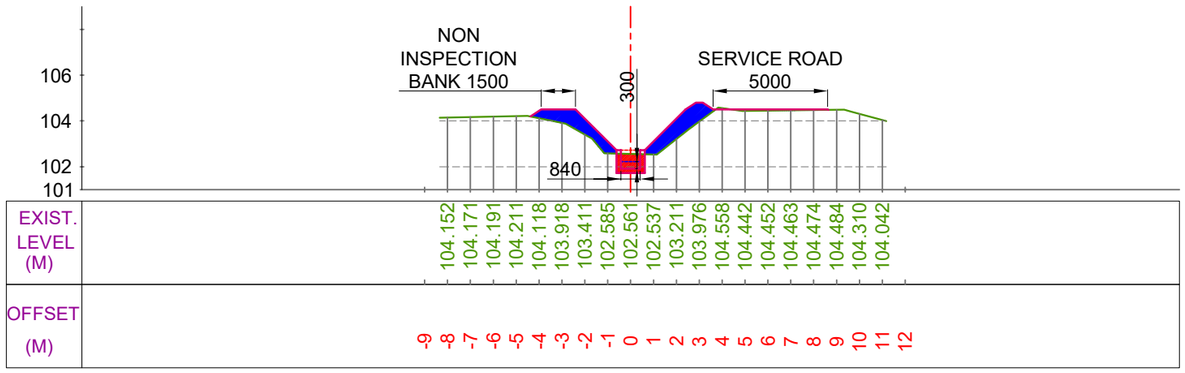
CUTTING AREA (SQ.M) = 1.076 CH. (KM):- 5+300

FILLING AREA (SQ.M) = 4.956 DESIGNED BED LEVEL = 101.949 M



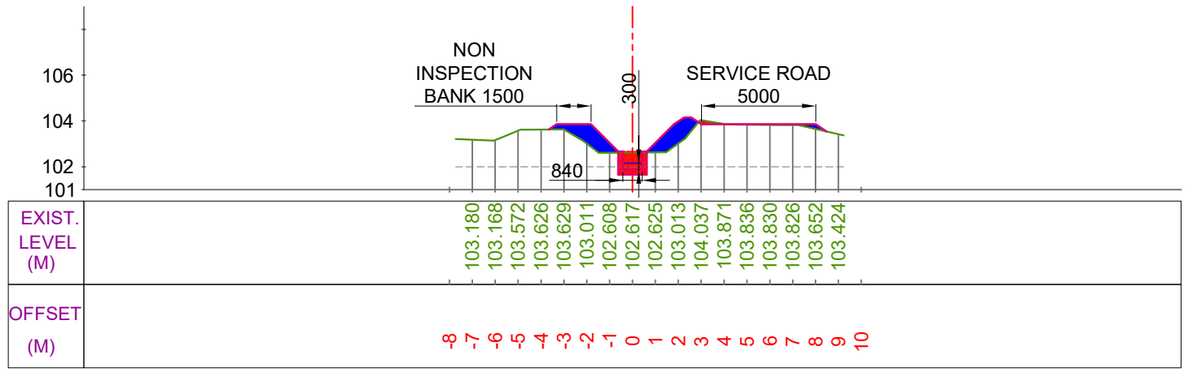
CUTTING AREA (SQ.M) = 1.095 CH. (KM):- 5+500

FILLING AREA (SQ.M) = 4.076 DESIGNED BED LEVEL = 101.890 M



CUTTING AREA (SQ.M) = 1.068 CH. (KM):- 5+400

FILLING AREA (SQ.M) = 4.348 DESIGNED BED LEVEL = 101.920 M



CUTTING AREA (SQ.M) = 1.299 CH. (KM):- 5+600

FILLING AREA (SQ.M) = 3.205 DESIGNED BED LEVEL = 101.861 M

LEGEND

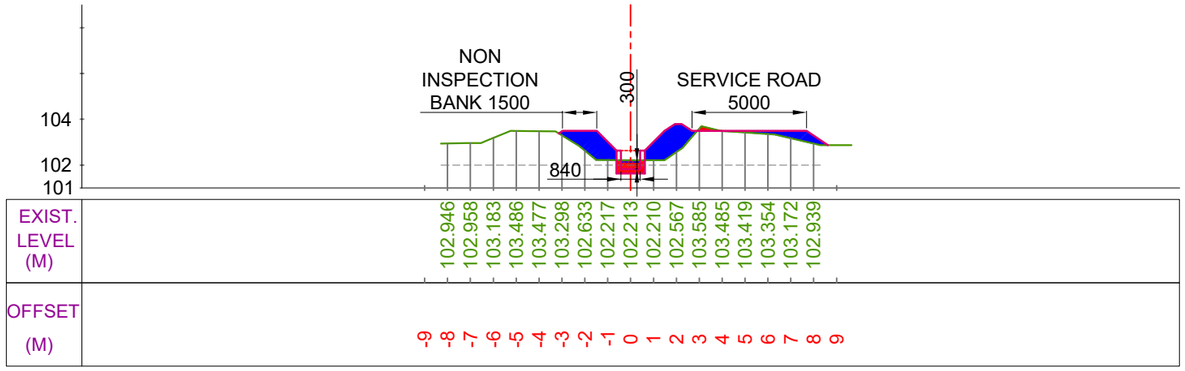
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

WAPCOS LTD.

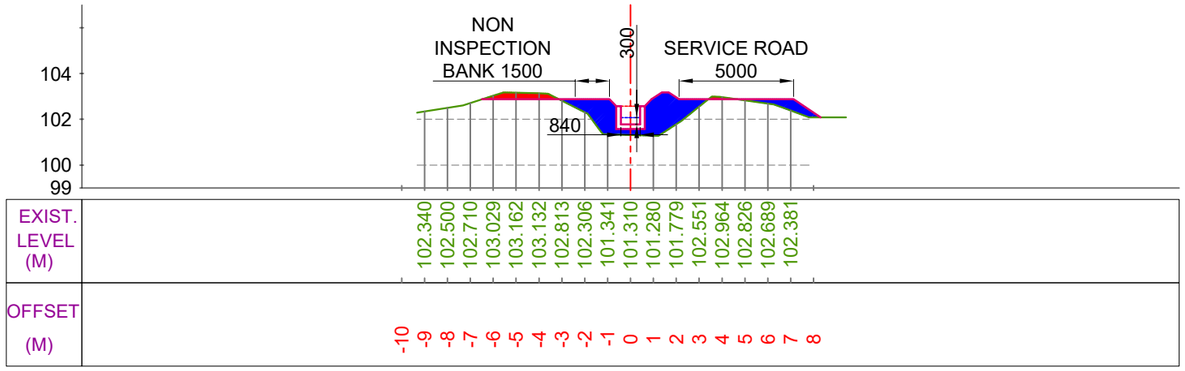
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 14 of 15

X SECTION OF AKAUNA MINOR



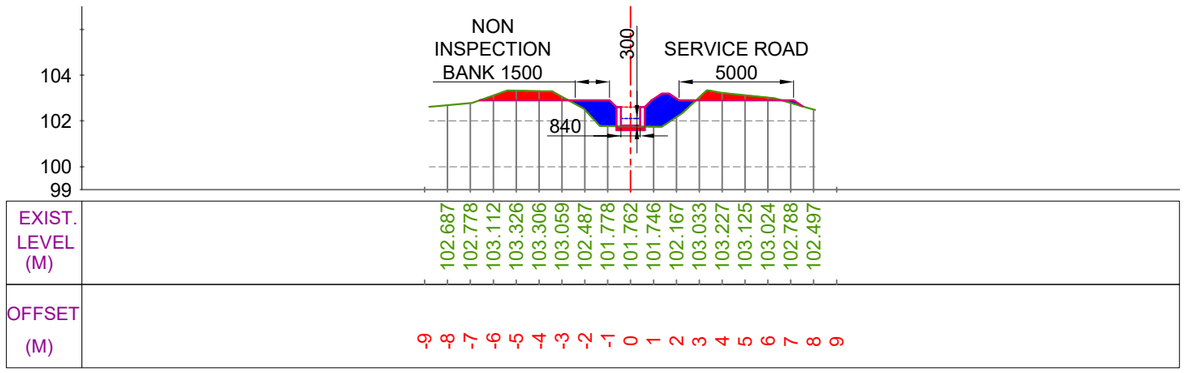
CUTTING AREA (SQ.M) = 0.826 CH. (KM):- 5+700

FILLING AREA (SQ.M) = 4.685 DESIGNED BED LEVEL = 101.831 M



CUTTING AREA (SQ.M) = 0.826 CH. (KM):- 5+900

FILLING AREA (SQ.M) = 6.142 DESIGNED BED LEVEL = 101.773 M



CUTTING AREA (SQ.M) = 2.255 CH. (KM):- 5+800

FILLING AREA (SQ.M) = 3.459 DESIGNED BED LEVEL = 101.802 M

LEGEND

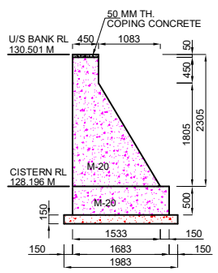
	CUT AREA		EXISTING BED LINE
			F.S.L.
	FILL AREA		DESIGNED BED LINE
			H.G. LINE

Prepared by :-

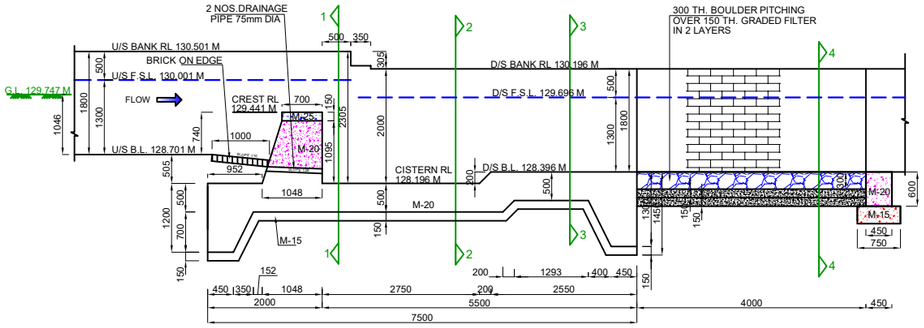
WAPCOS LTD.

Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	X SEC OF AKAUNA MINOR (OFFTAKE FROM RD - 18+755 KM. (C), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ XSEC- 15 of 15

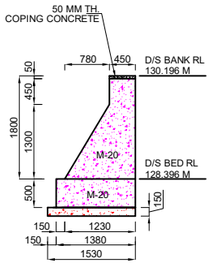
DRAWING OF STRUCTURES



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

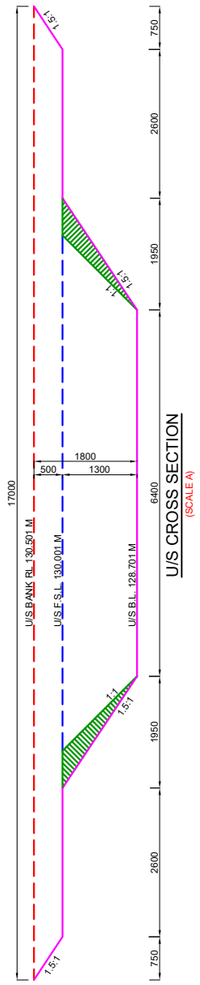
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

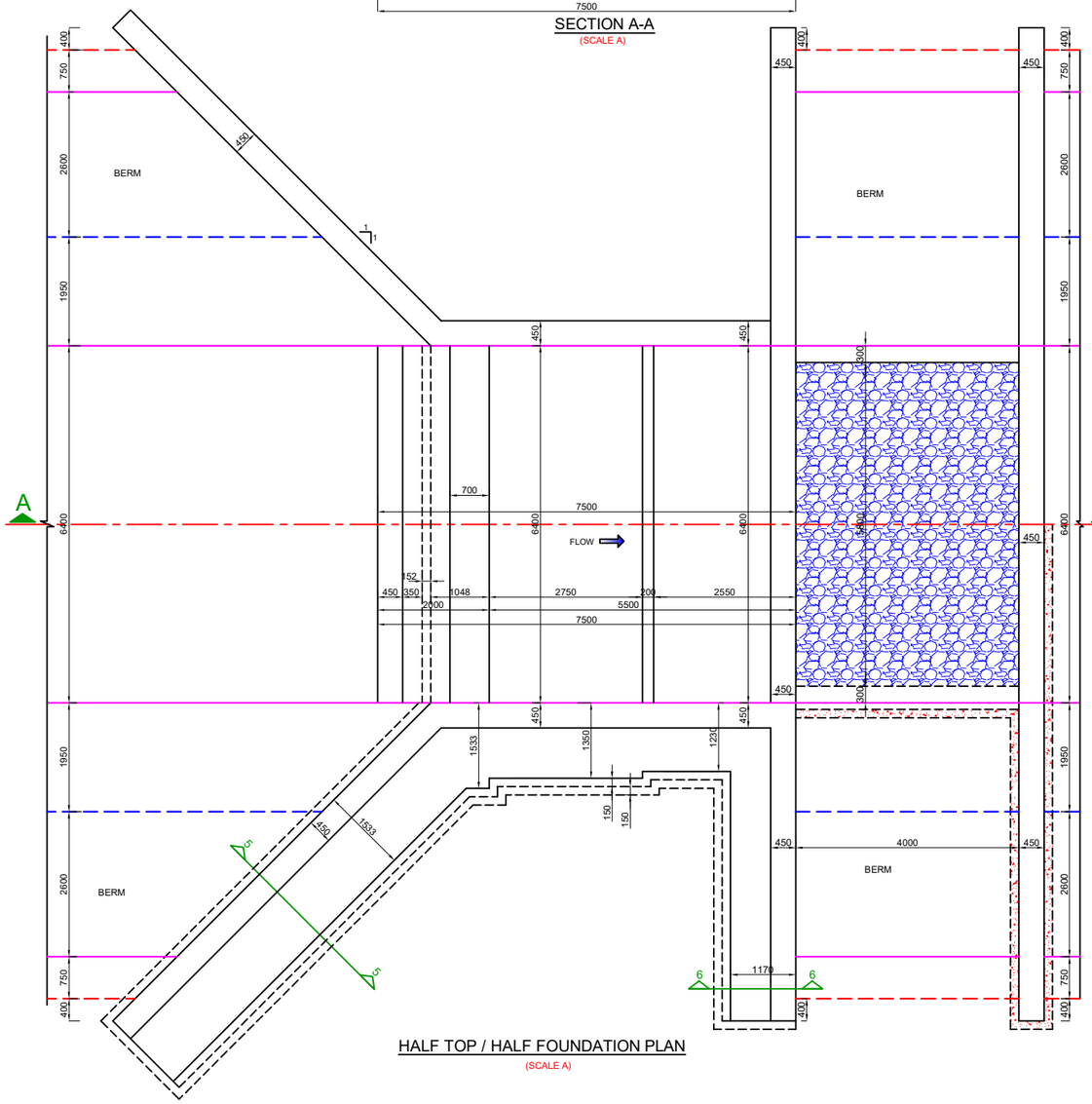
FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

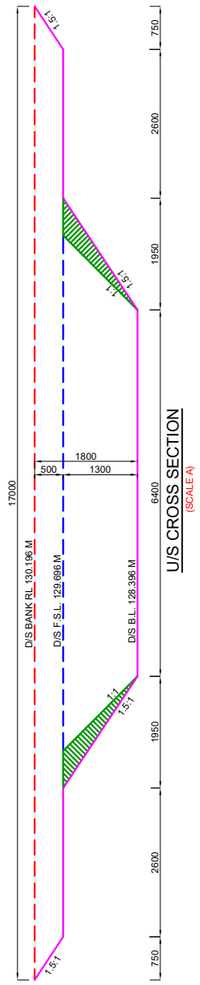
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

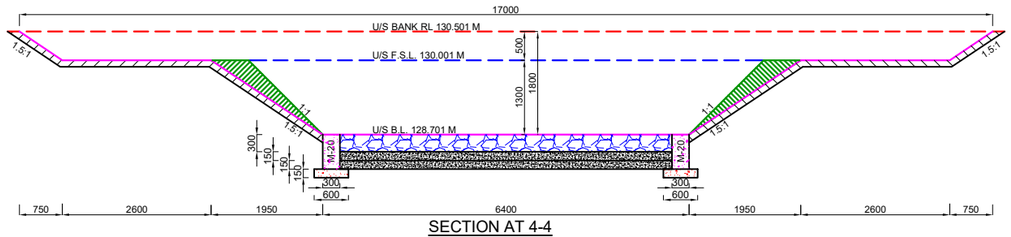
HYDRAULIC:- DATA

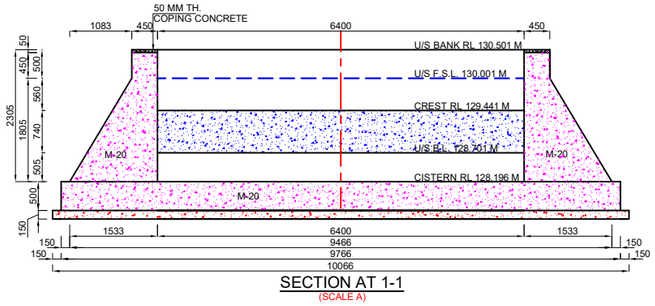
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	5.230	5.230	CUMEC
VERTICAL DROP	0.305	0.305	METRE
FULL SUPPLY DEPTH	1.300	1.300	METRE
BED WIDTH	6.400	6.400	METRE
BED SLOPE	1 : 5200	1 : 5200	

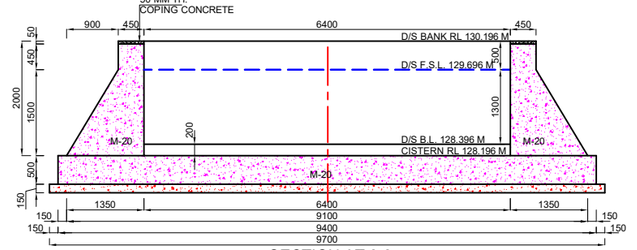


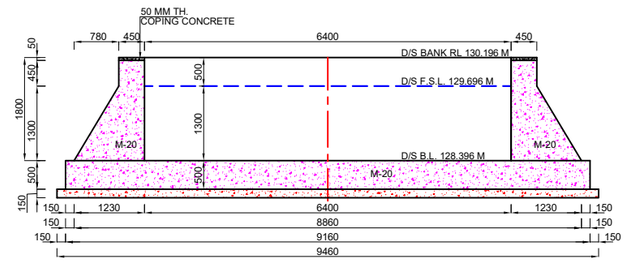




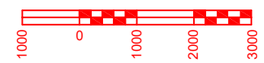




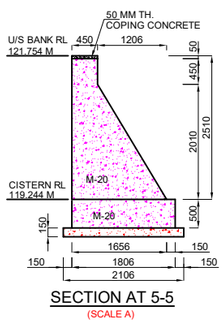




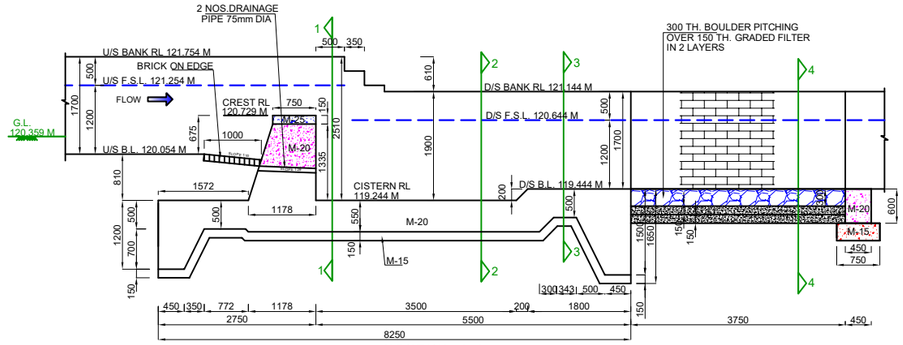
SCALE A:-



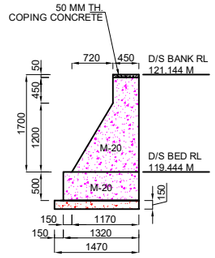
Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.305 M HT. FALL AT KM. 5.680 OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RMC)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ FALL 1 of 1



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

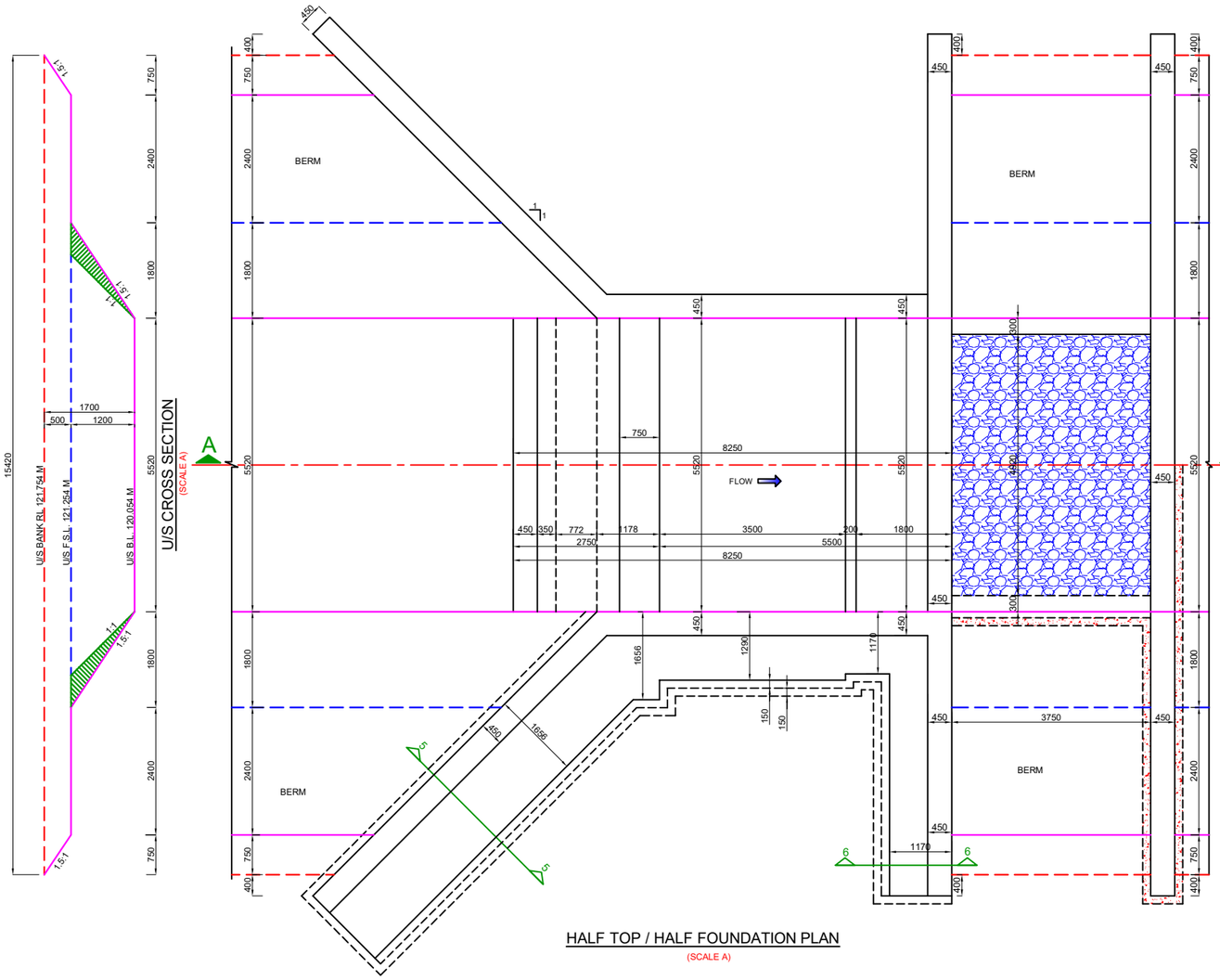
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

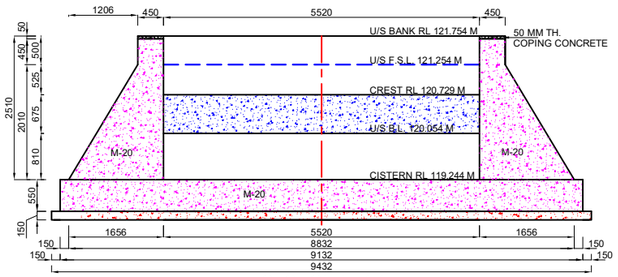
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

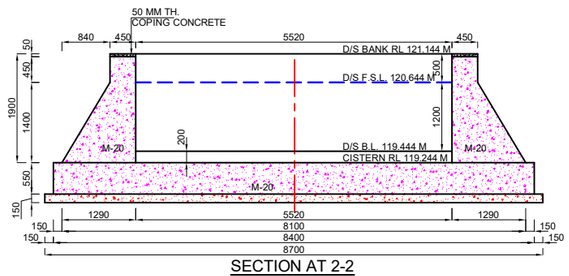
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	3.970	3.970	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	1.200	1.200	METRE
BED WIDTH	5.520	5.520	METRE
BED SLOPE	1 : 5100	1 : 5100	



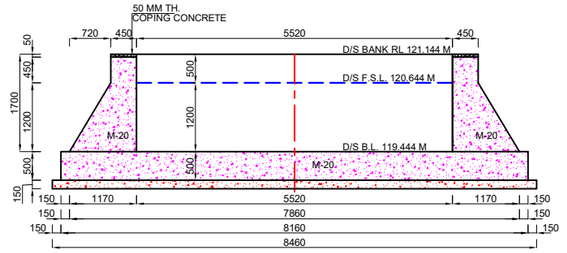
HALF TOP / HALF FOUNDATION PLAN
(SCALE A)



SECTION AT 1-1
(SCALE A)



SECTION AT 2-2
(SCALE A)



SECTION AT 3-3
(SCALE A)

SCALE A:-

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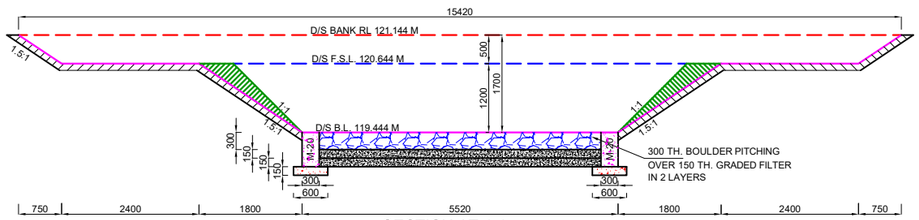
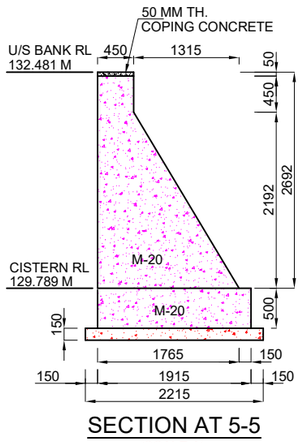


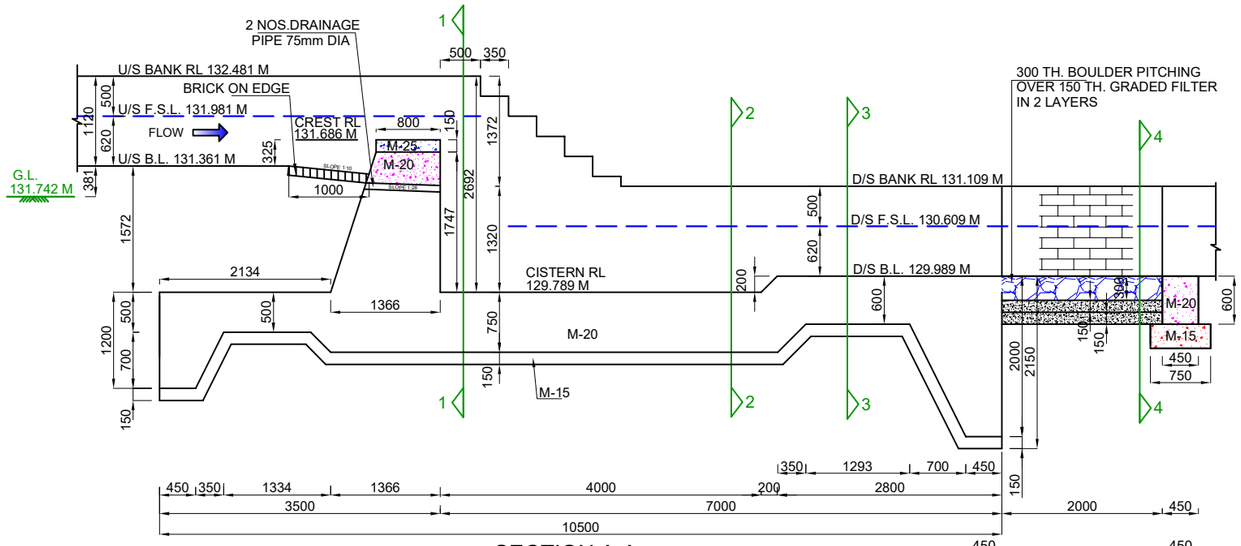
SECTION AT 4-4
(SCALE A)

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 9.380 OF KAPASIYA DY. (OFFTAKE FROM RD - 68+310 KM. (L), NORTH KOEL RMC)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21/ FALL 1 of 1



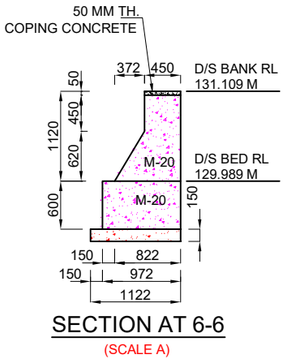
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

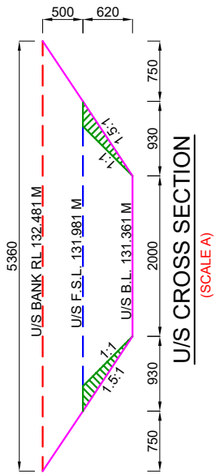
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

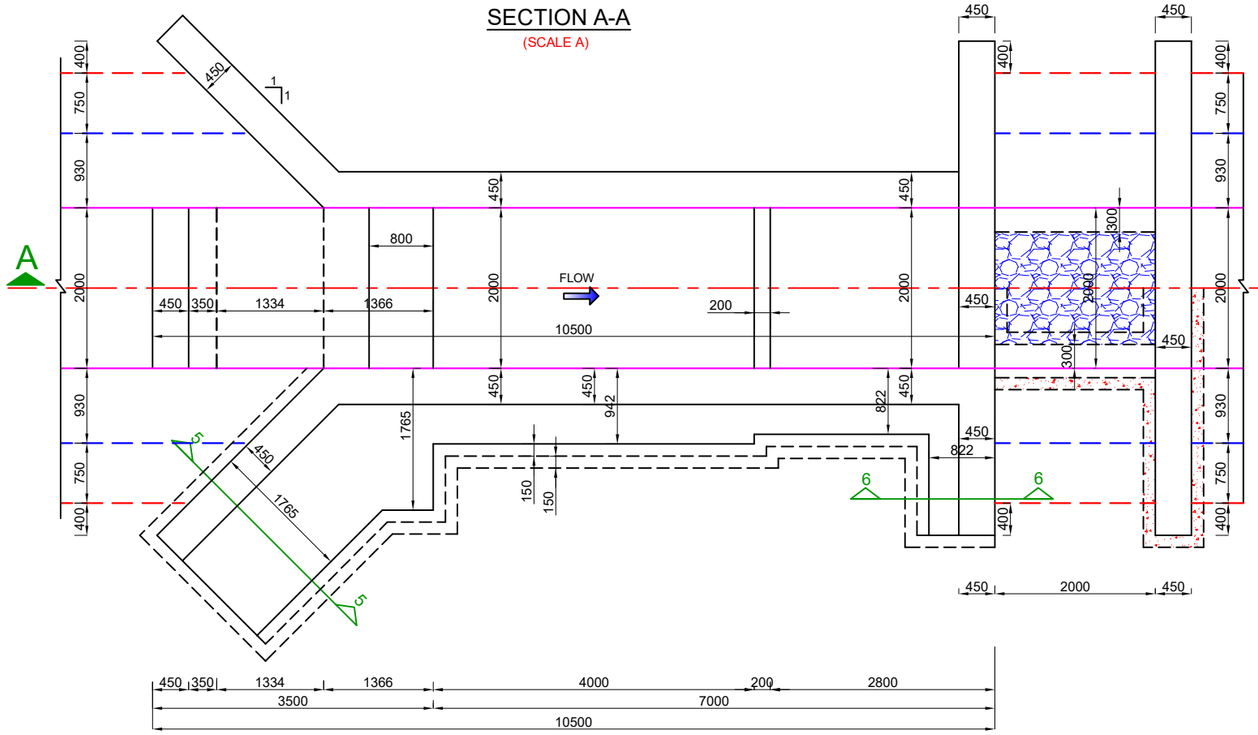
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.540	0.540	CUMEC
VERTICAL DROP	1.372	1.372	METRE
FULL SUPPLY DEPTH	0.620	0.620	METRE
BED WIDTH	2.000	2.000	METRE
BED SLOPE	1 : 3500	1 : 3500	



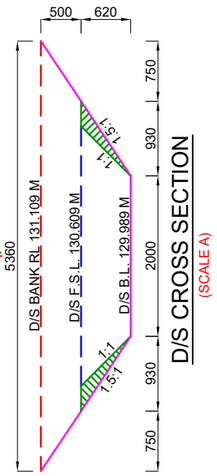
U/S CROSS SECTION

(SCALE A)



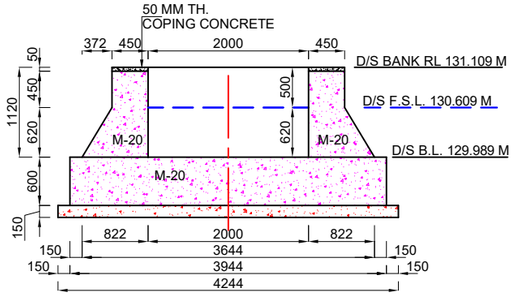
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



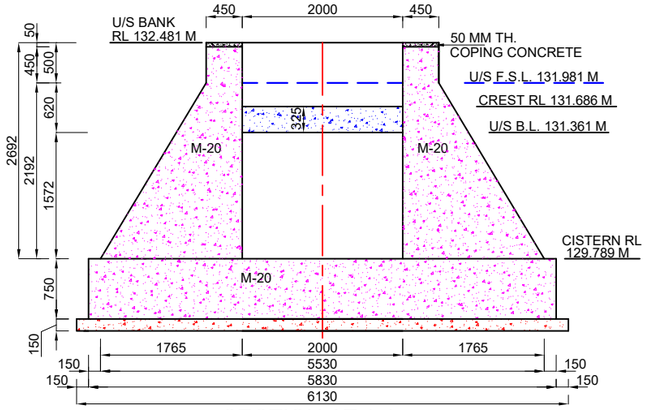
D/S CROSS SECTION

(SCALE A)



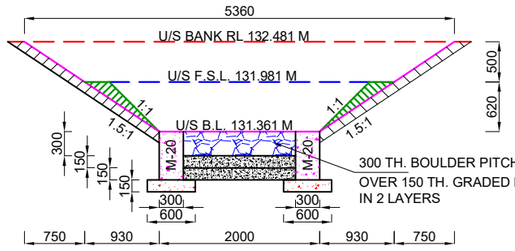
SECTION AT 3-3

(SCALE A)



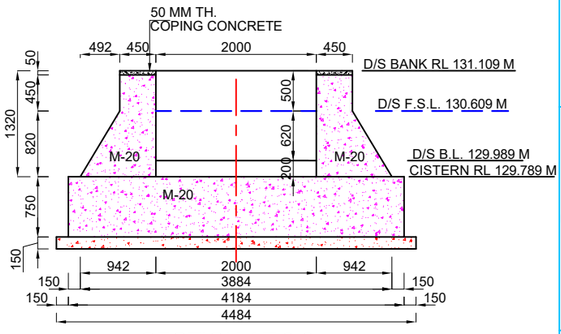
SECTION AT 1-1

(SCALE A)



SECTION AT 4-4

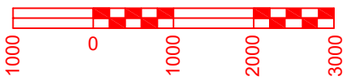
(SCALE A)



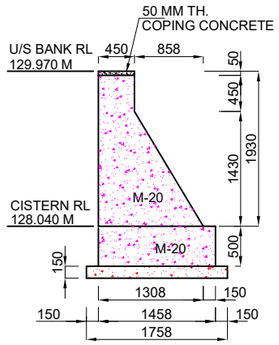
SECTION AT 2-2

(SCALE A)

SCALE A:-

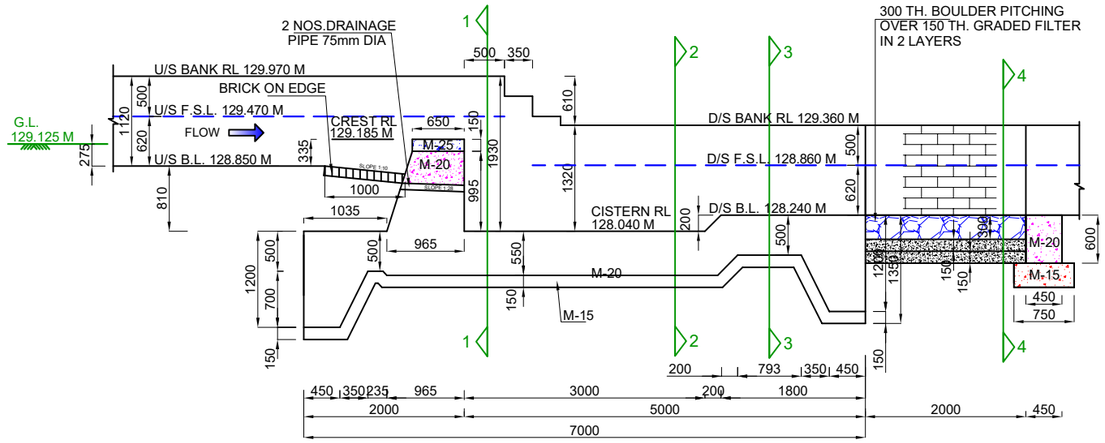


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.372 M HT. FALL AT KM. 0.050 OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ FALL 1 of 1



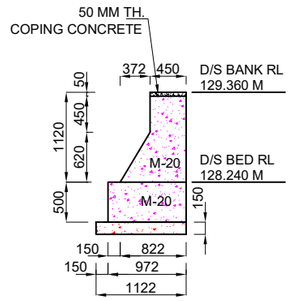
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

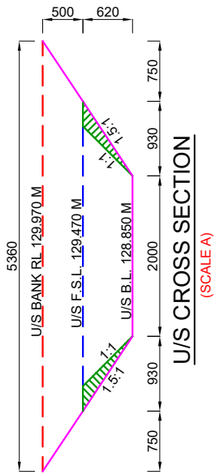
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

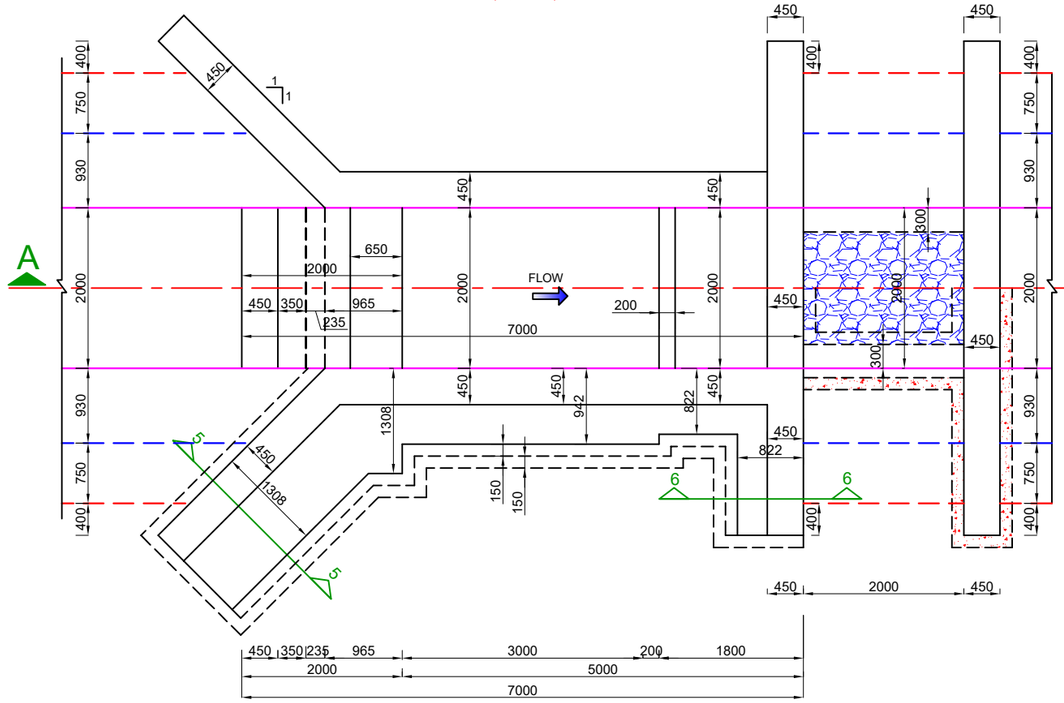
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.540	0.540	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.620	0.620	METRE
BED WIDTH	2.000	2.000	METRE
BED SLOPE	1 : 3500	1 : 3500	



U/S CROSS SECTION

(SCALE A)


A
A
FLOW
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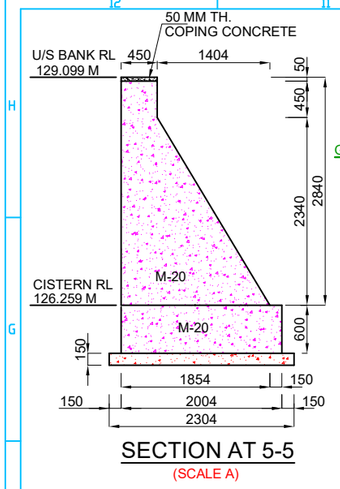
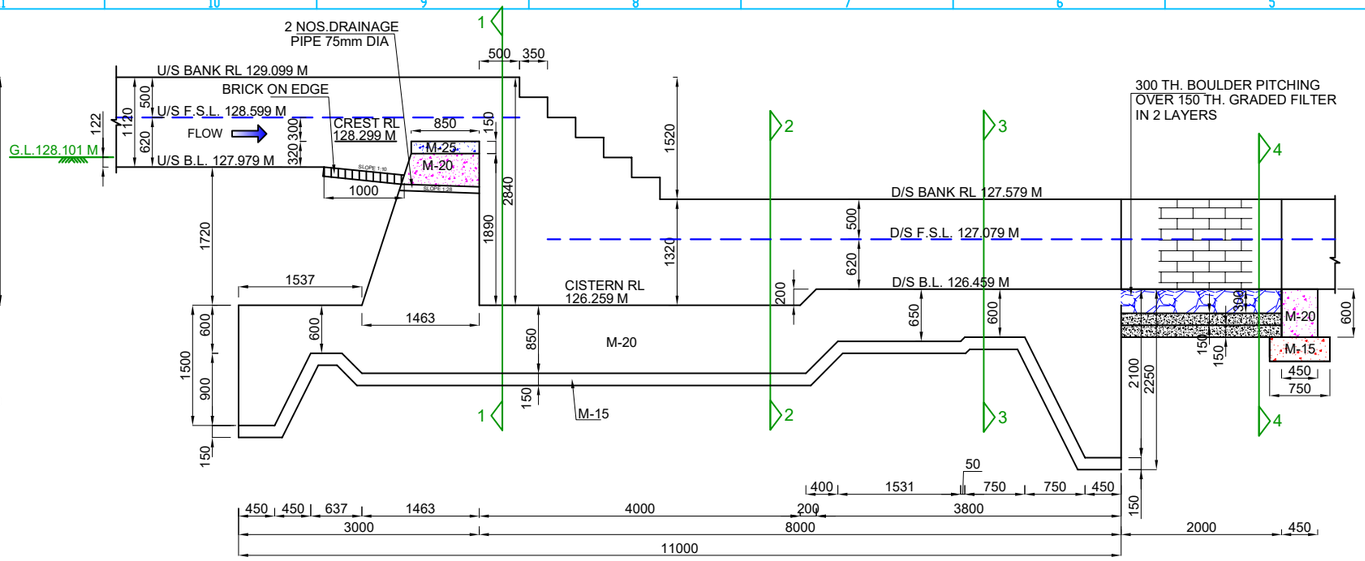


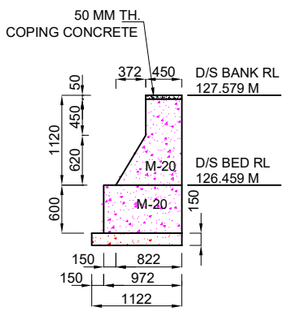
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

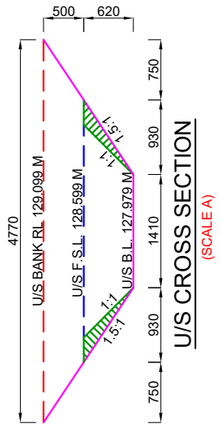
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

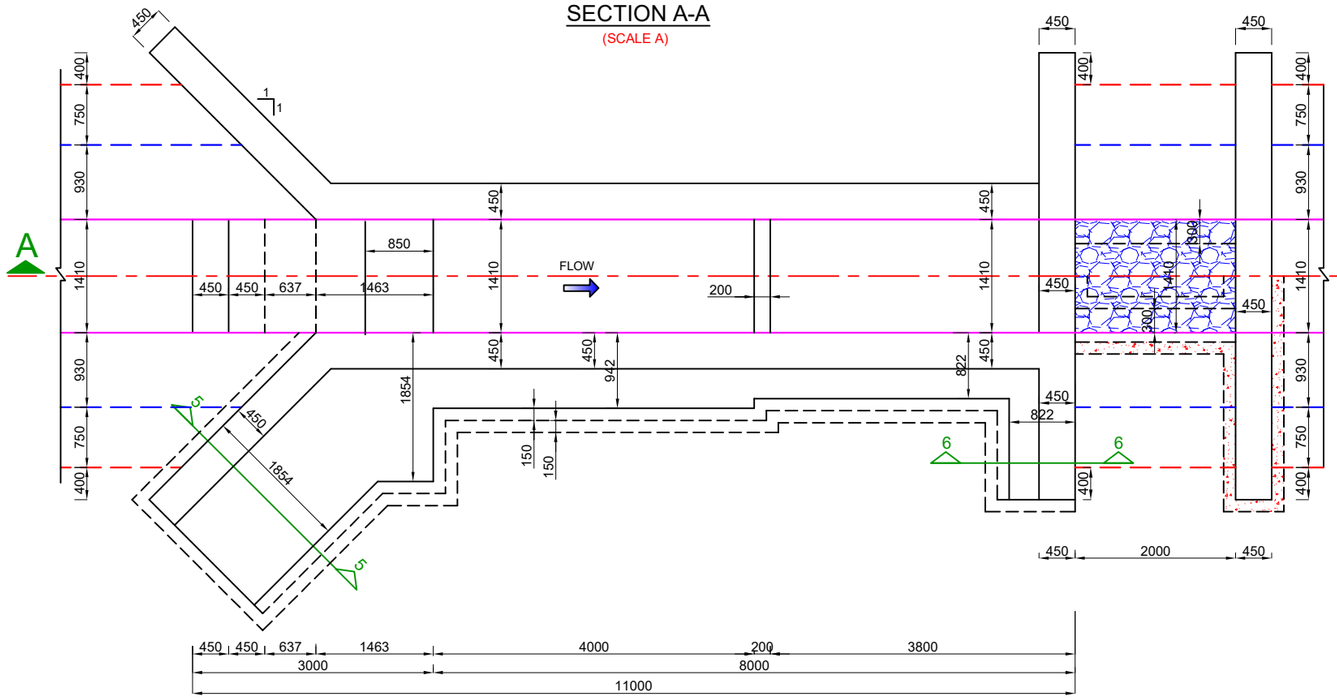
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.380	0.380	CUMEC
VERTICAL DROP	1.520	1.520	METRE
FULL SUPPLY DEPTH	0.620	0.620	METRE
BED WIDTH	1.410	1.410	METRE
BED SLOPE	1 : 3500	1 : 3500	



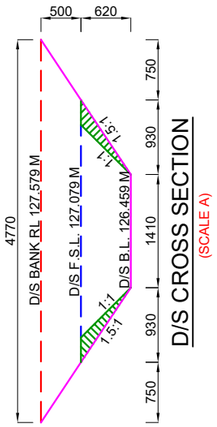
U/S CROSS SECTION

(SCALE A)



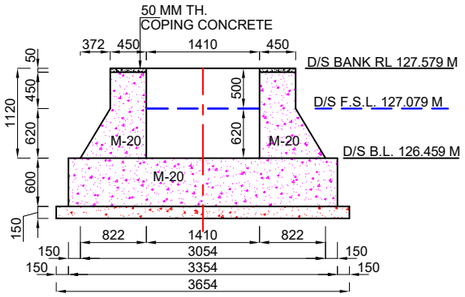
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



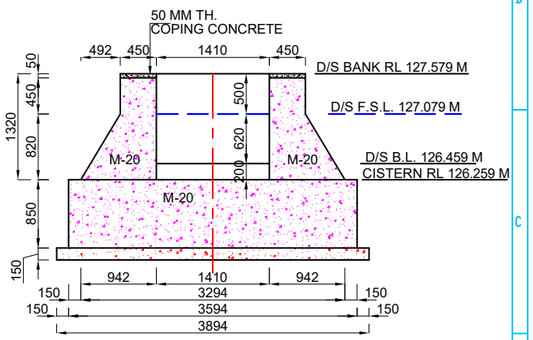
D/S CROSS SECTION

(SCALE A)



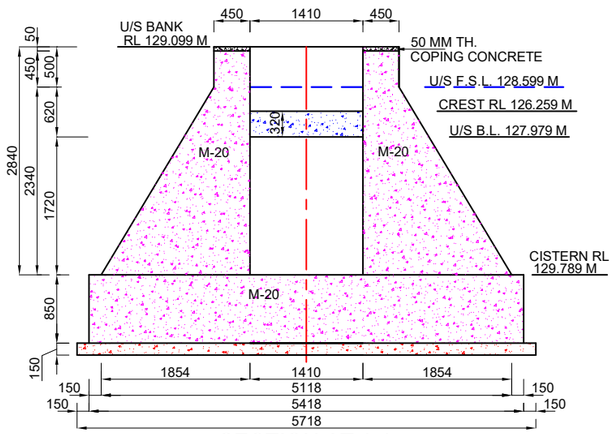
SECTION AT 3-3

(SCALE A)



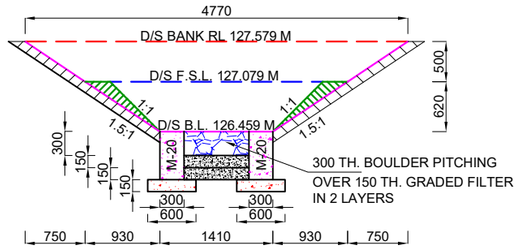
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



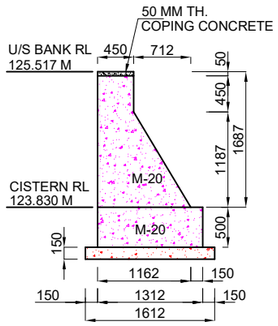
SECTION AT 4-4

(SCALE A)

SCALE A:-

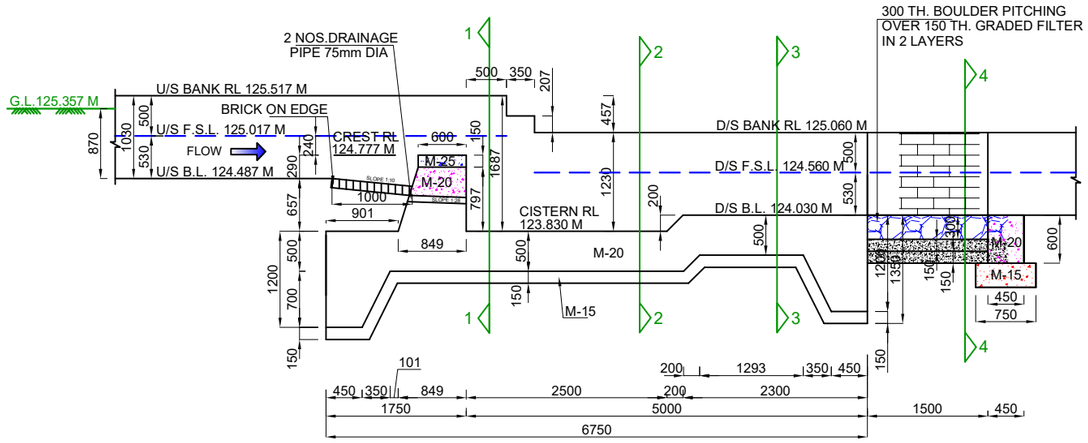
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.520 M HT. FALL AT KM. 1.750 OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ FALL 1 of 1



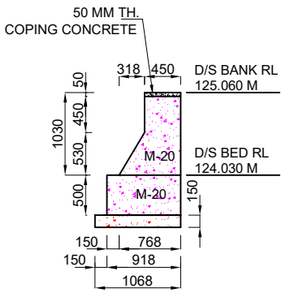
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

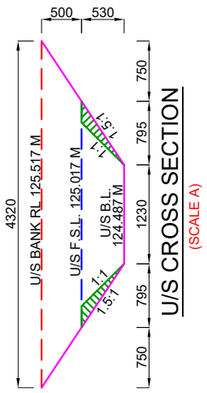
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

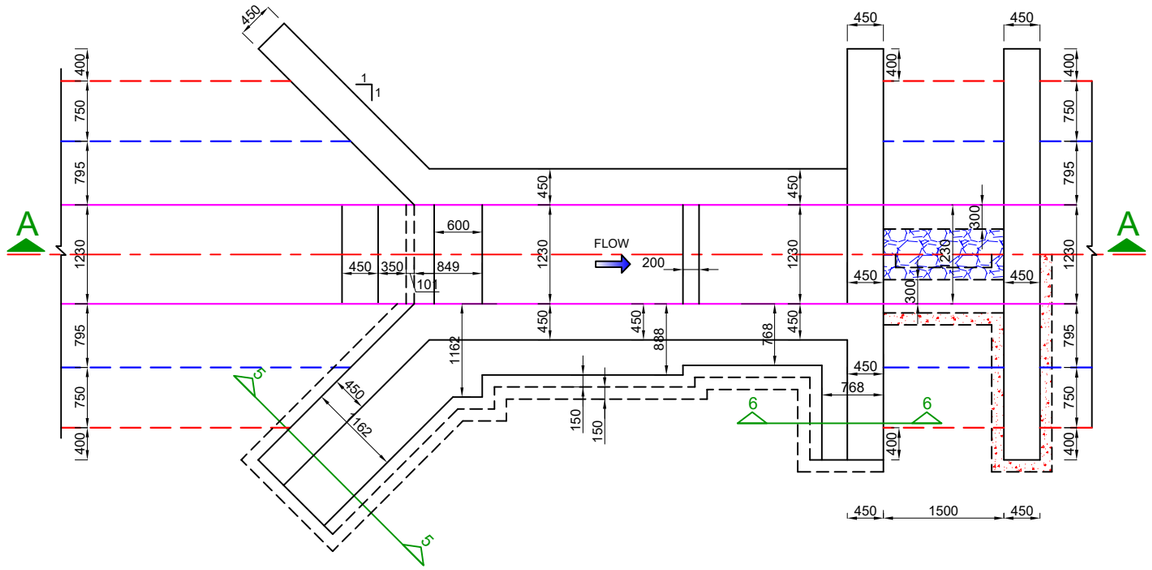
HYDRAULIC:- DATA

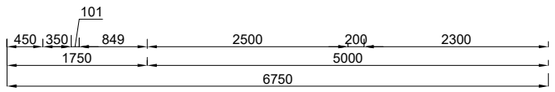
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.250	0.250	CUMEC
VERTICAL DROP	0.457	0.457	METRE
FULL SUPPLY DEPTH	0.530	0.530	METRE
BED WIDTH	1.230	1.230	METRE
BED SLOPE	1 : 3500	1 : 3500	



U/S CROSS SECTION

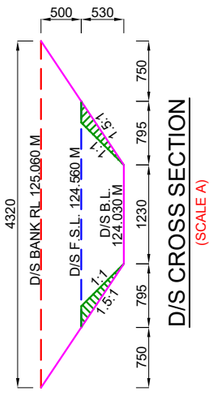
(SCALE A)





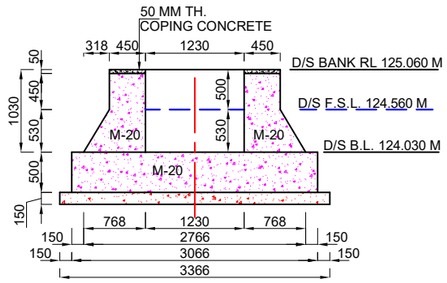
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



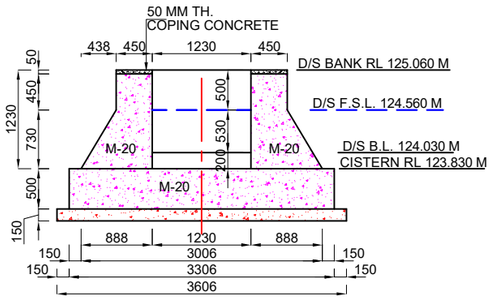
D/S CROSS SECTION

(SCALE A)



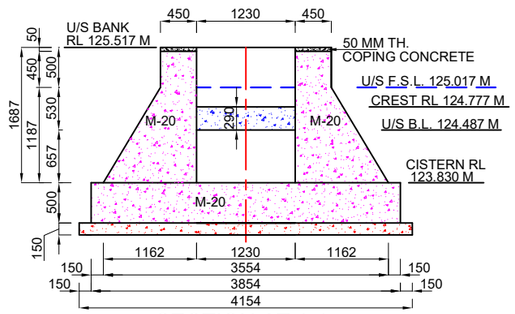
SECTION AT 3-3

(SCALE A)



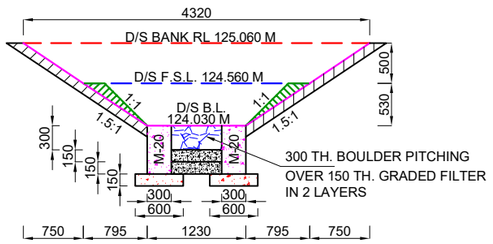
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

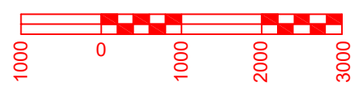
(SCALE A)



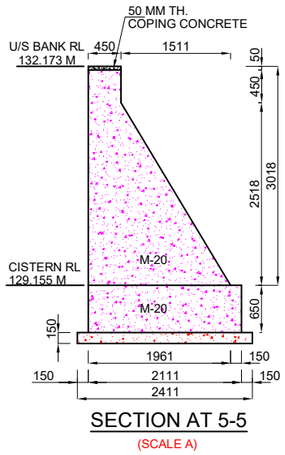
SECTION AT 4-4

(SCALE A)

SCALE A:-

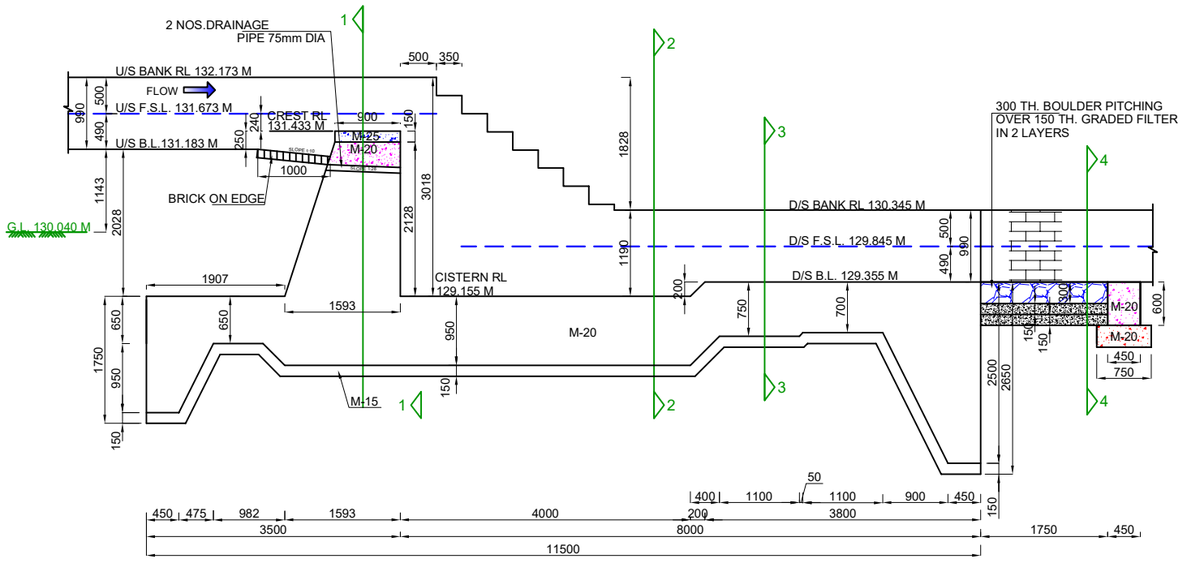


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.457 M HT. FALL AT KM. 2.250 OF NARCHI MR. (OFFTAKE FROM RD - 2+820 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-01/ FALL 1 of 1



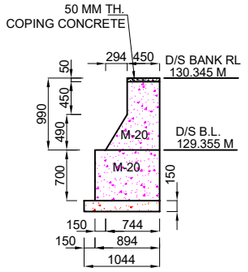
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

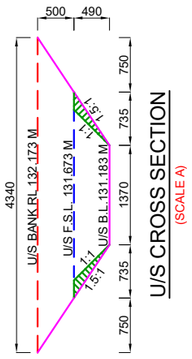
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

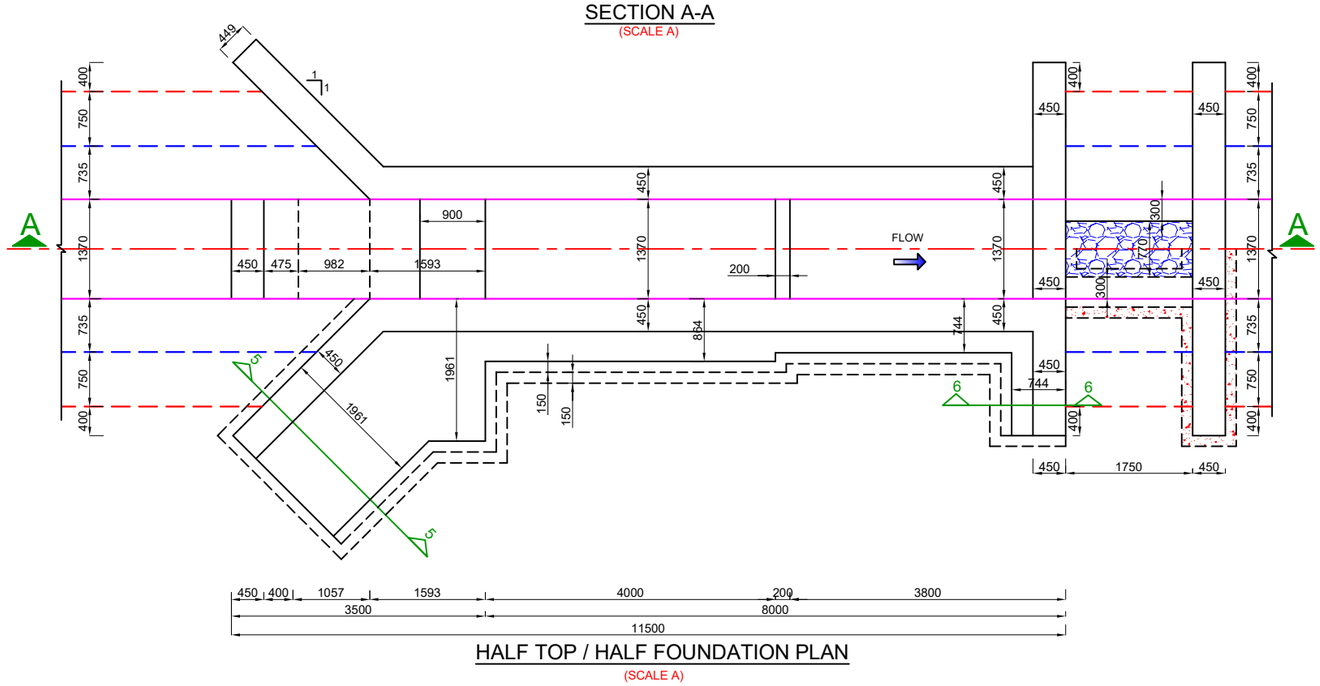
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.250	0.250	CUMEC
VERTICAL DROP	1.828	1.828	METRE
FULL SUPPLY DEPTH	0.490	0.490	METRE
BED WIDTH	1.370	1.370	METRE
BED SLOPE	1 : 3500	1 : 3500	



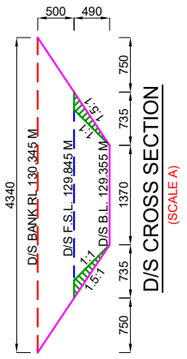
U/S CROSS SECTION

(SCALE A)



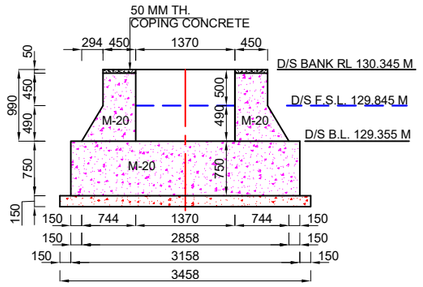
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



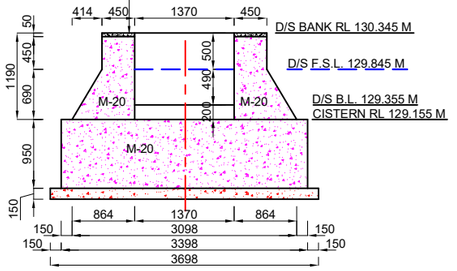
D/S CROSS SECTION

(SCALE A)



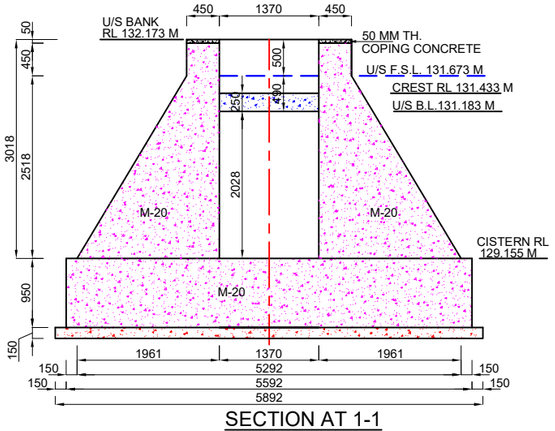
SECTION AT 3-3

(SCALE A)



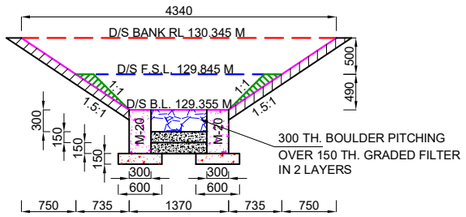
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)

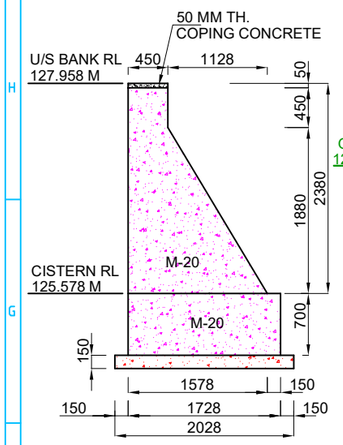


SECTION AT 4-4

(SCALE A)

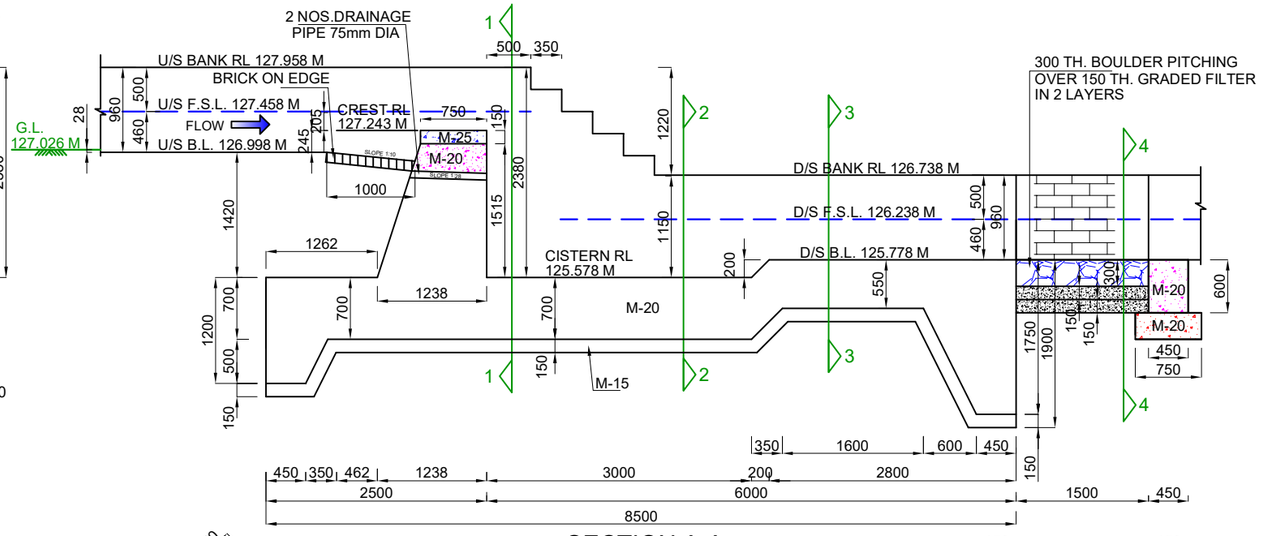
SCALE A:-

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.828 M HT. FALL AT KM. 0.035 OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ FALL 1 of 1



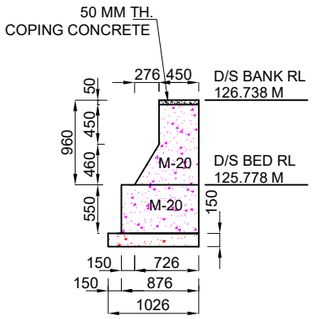
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

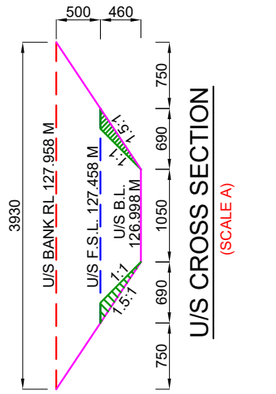
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

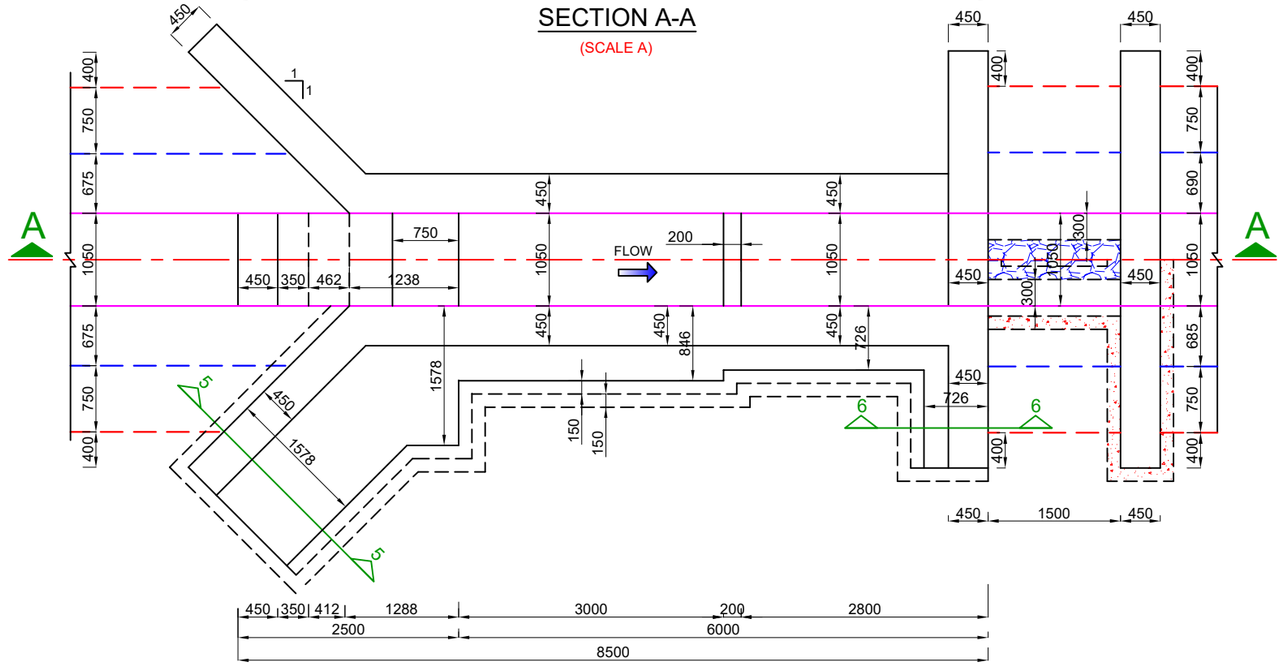
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.170	0.170	CUMEC
VERTICAL DROP	1.220	1.220	METRE
FULL SUPPLY DEPTH	0.460	0.460	METRE
BED WIDTH	1.050	1.050	METRE
BED SLOPE	1 : 3500	1 : 3500	



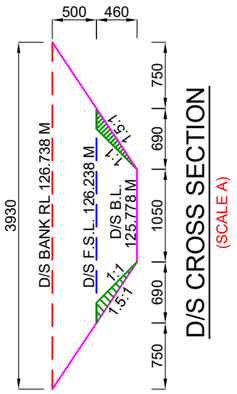
U/S CROSS SECTION

(SCALE A)



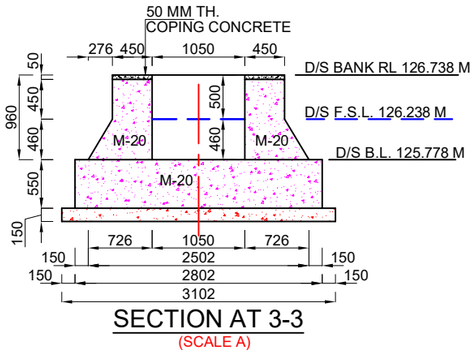
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



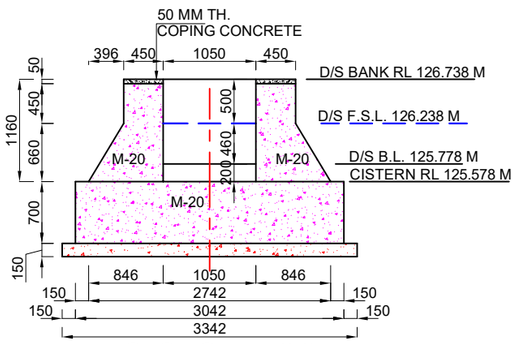
D/S CROSS SECTION

(SCALE A)



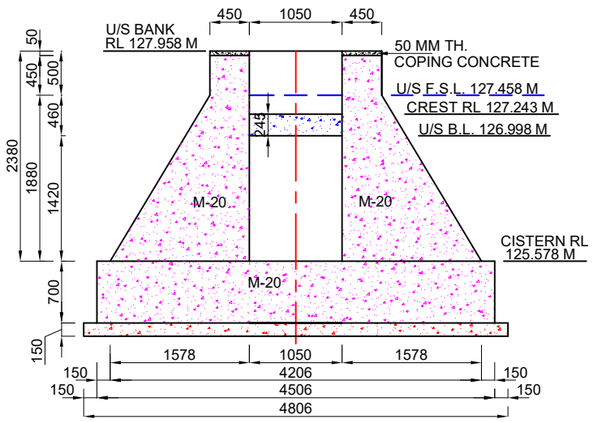
SECTION AT 3-3

(SCALE A)



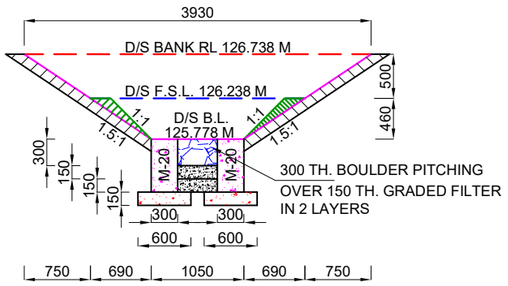
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

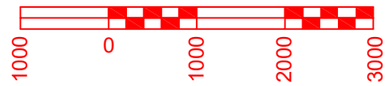
(SCALE A)



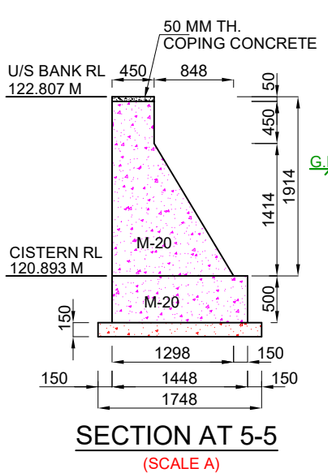
SECTION AT 4-4

(SCALE A)

SCALE A:-

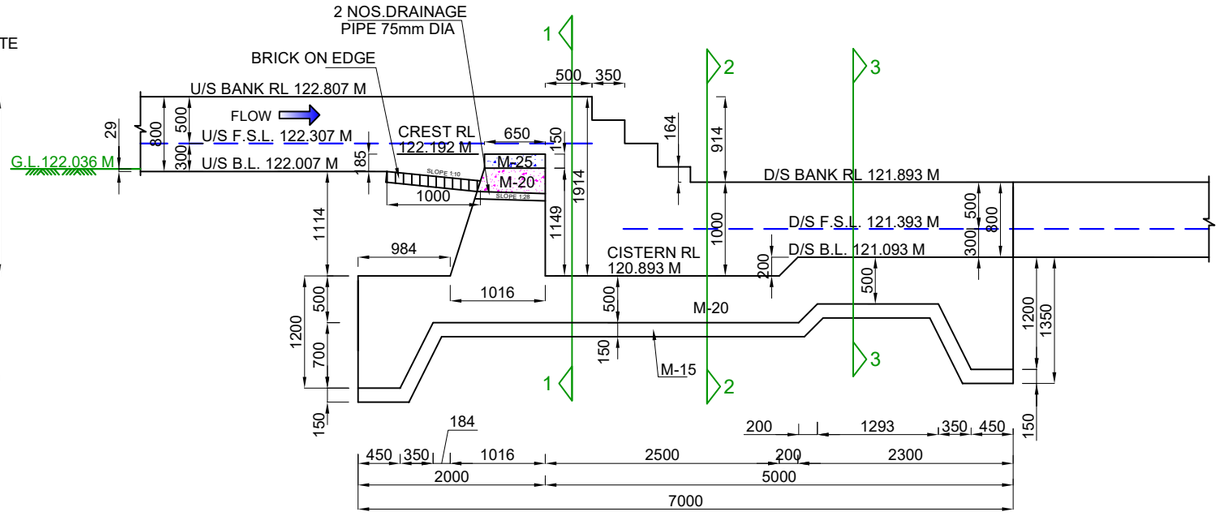


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.220 M HT. FALL AT KM. 1.350 OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ FALL 1 of 1



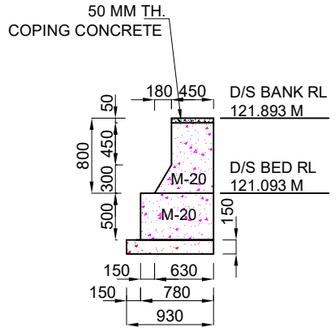
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

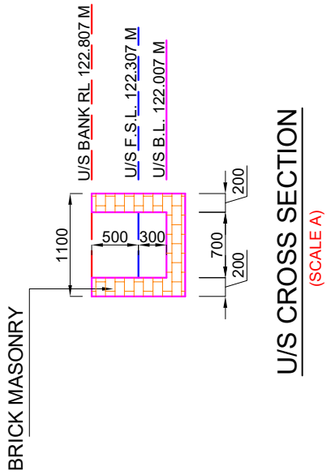
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

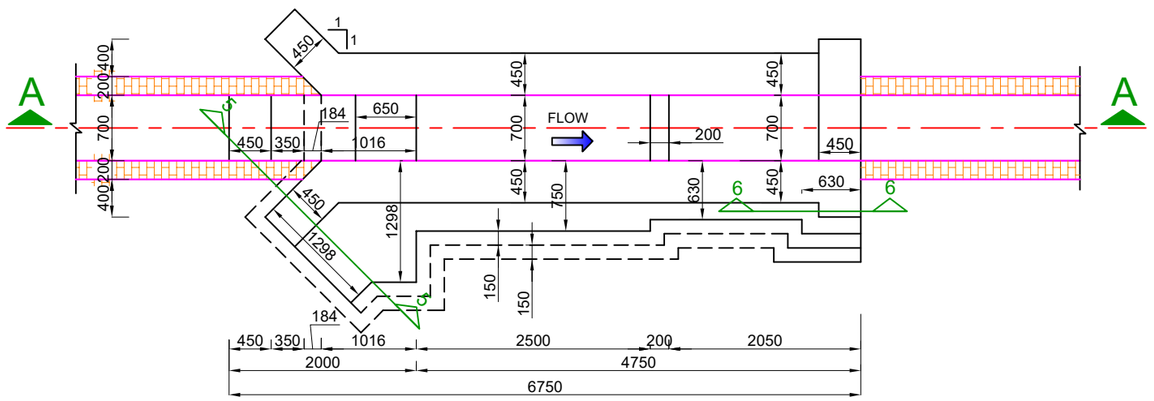
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.040	0.040	CUMEC
VERTICAL DROP	0.914	0.914	METRE
FULL SUPPLY DEPTH	0.300	0.300	METRE
BED WIDTH	0.700	0.700	METRE
BED SLOPE	1 : 3000	1 : 3000	



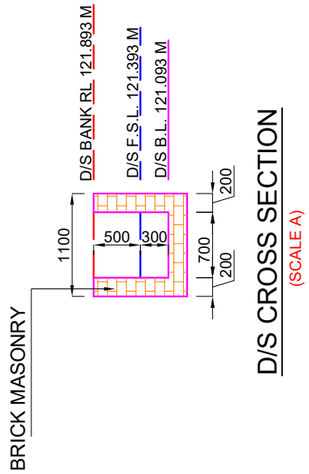
U/S CROSS SECTION

(SCALE A)



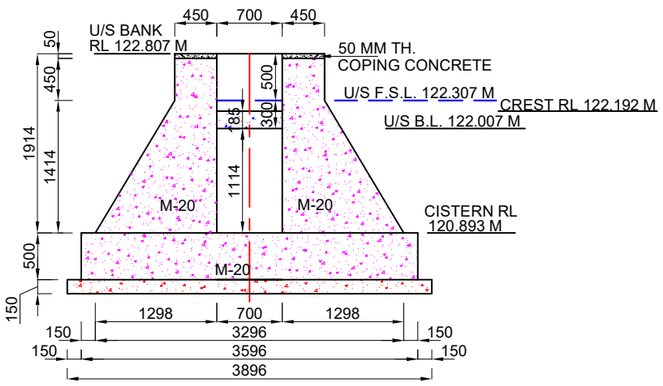
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



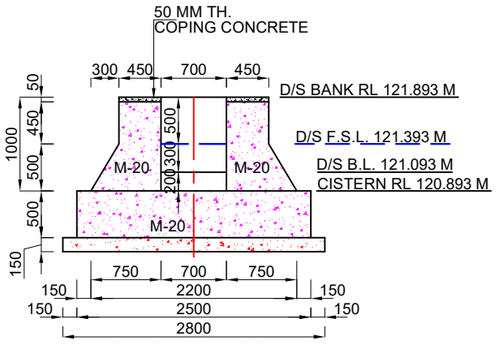
D/S CROSS SECTION

(SCALE A)



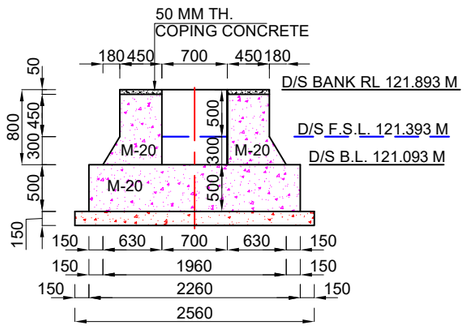
SECTION AT 1-1

(SCALE A)



SECTION AT 2-2

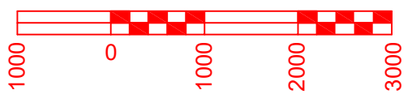
(SCALE A)



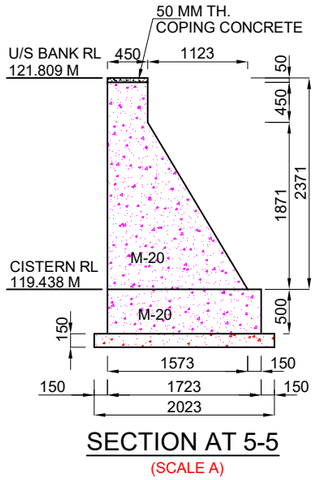
SECTION AT 3-3

(SCALE A)

SCALE A:-

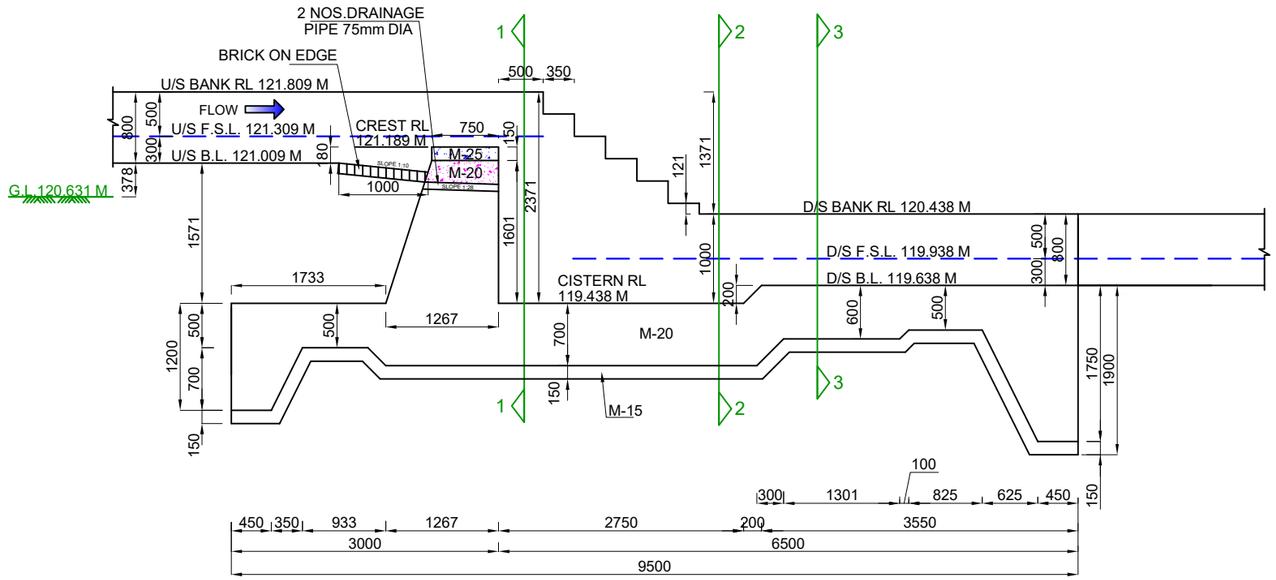


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 2.250 OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ FALL 1 of 1



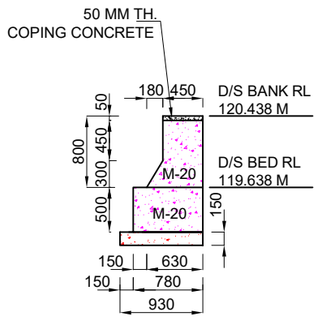
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

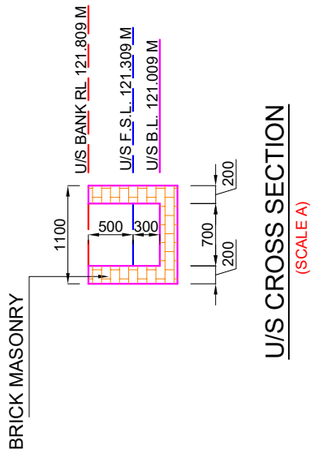
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

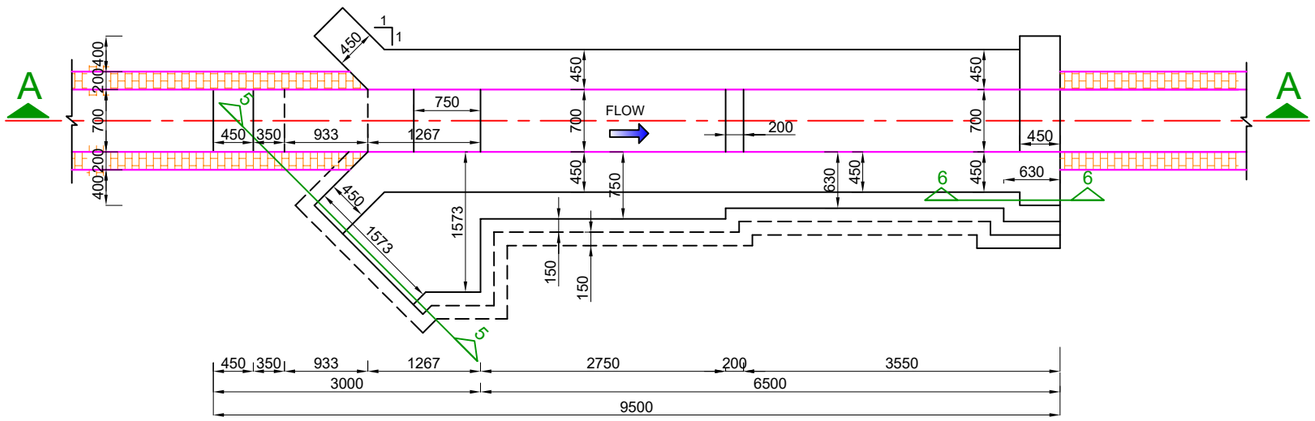
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.040	0.040	CUMEC
VERTICAL DROP	1.371	1.371	METRE
FULL SUPPLY DEPTH	0.300	0.300	METRE
BED WIDTH	0.700	0.700	METRE
BED SLOPE	1 : 3000	1 : 3000	



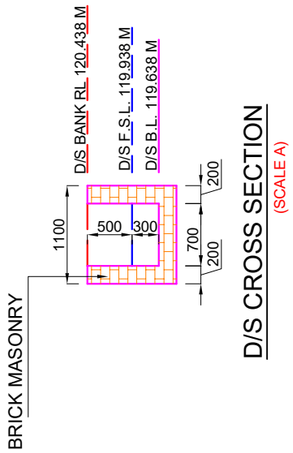
U/S CROSS SECTION

(SCALE A)



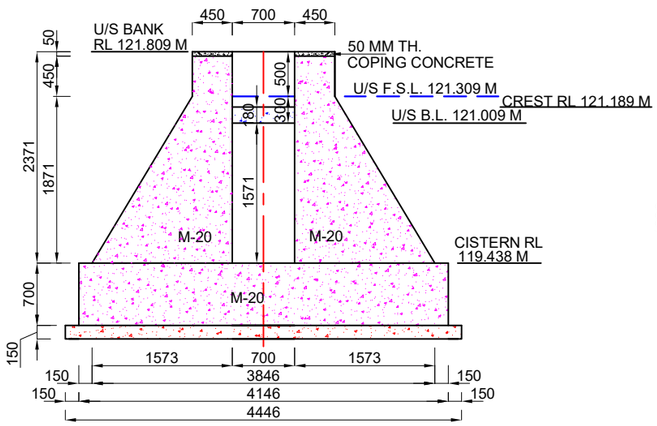
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



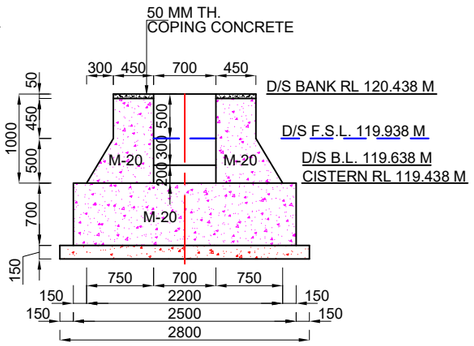
D/S CROSS SECTION

(SCALE A)



SECTION AT 1-1

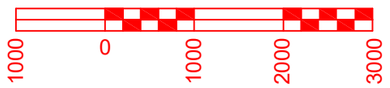
(SCALE A)

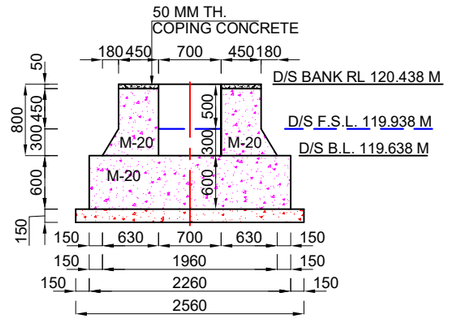


SECTION AT 2-2

(SCALE A)

SCALE A:-

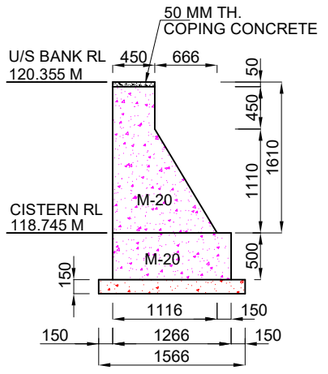




SECTION AT 3-3

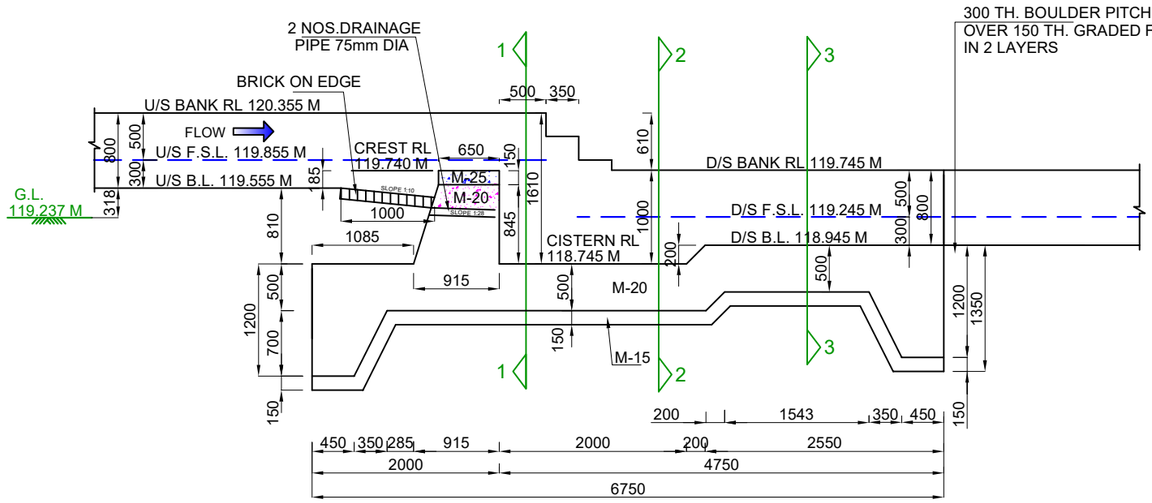
(SCALE A)

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.371 M HT. FALL AT KM. 2.500 OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ FALL 1 of 1



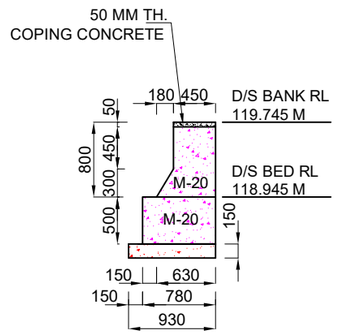
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

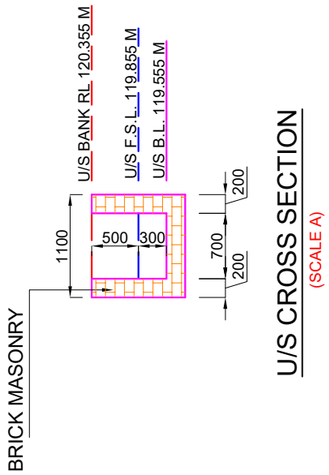
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

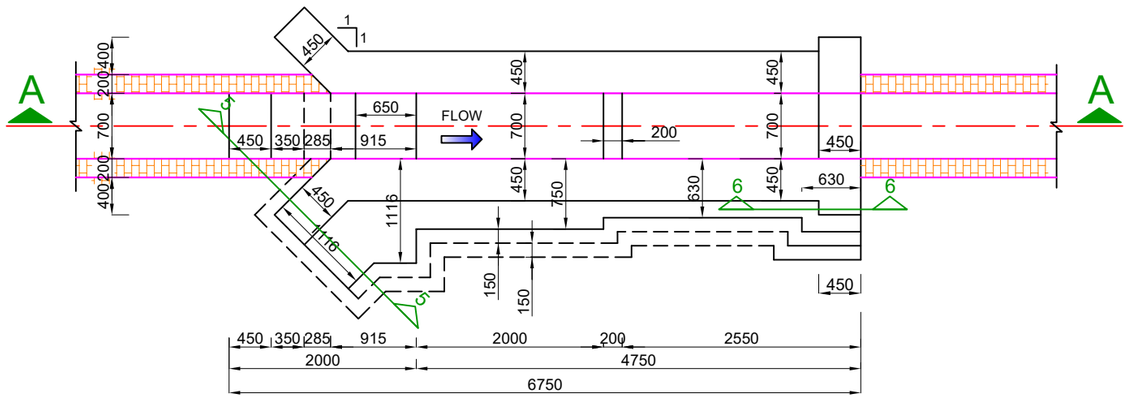
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.040	0.040	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.300	0.300	METRE
BED WIDTH	0.700	0.700	METRE
BED SLOPE	1 : 3000	1 : 3000	



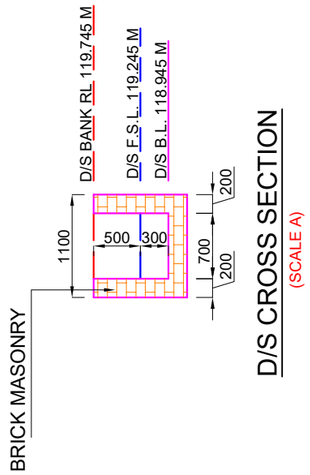
U/S CROSS SECTION

(SCALE A)



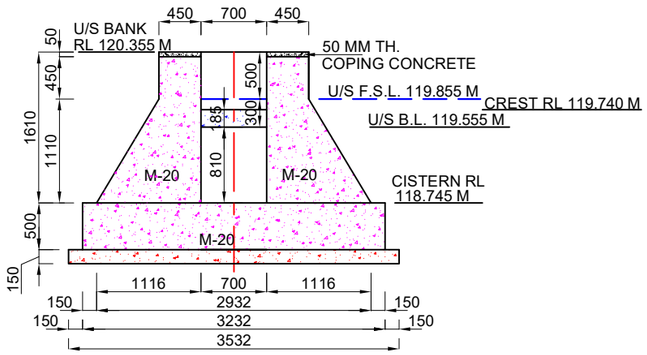
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



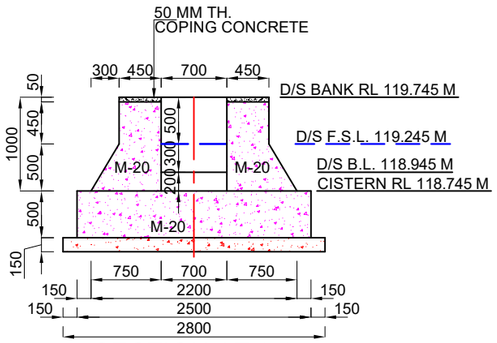
D/S CROSS SECTION

(SCALE A)



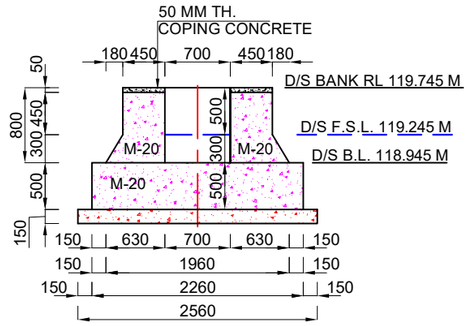
SECTION AT 1-1

(SCALE A)



SECTION AT 2-2

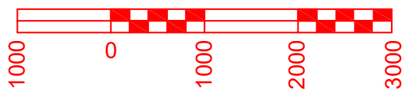
(SCALE A)



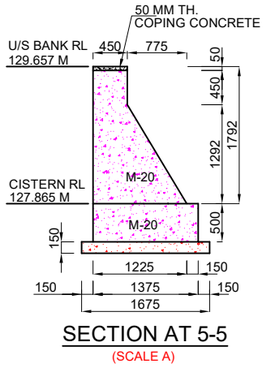
SECTION AT 3-3

(SCALE A)

SCALE A:-

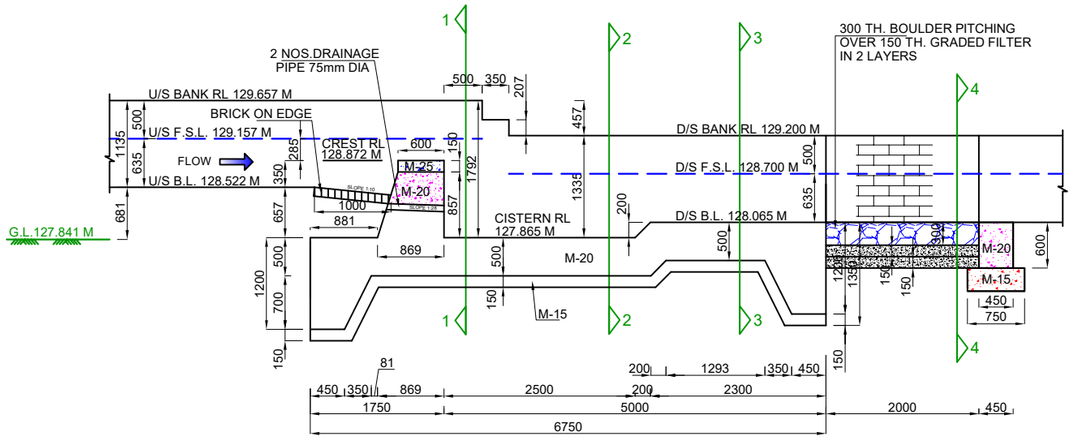


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 2.750 OF BHAHUARA MR. (OFFTAKE FROM RD - 3+920 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-02/ FALL 1 of 1



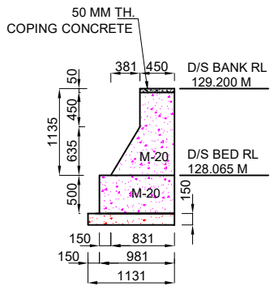
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

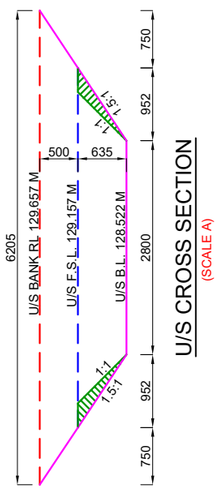
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

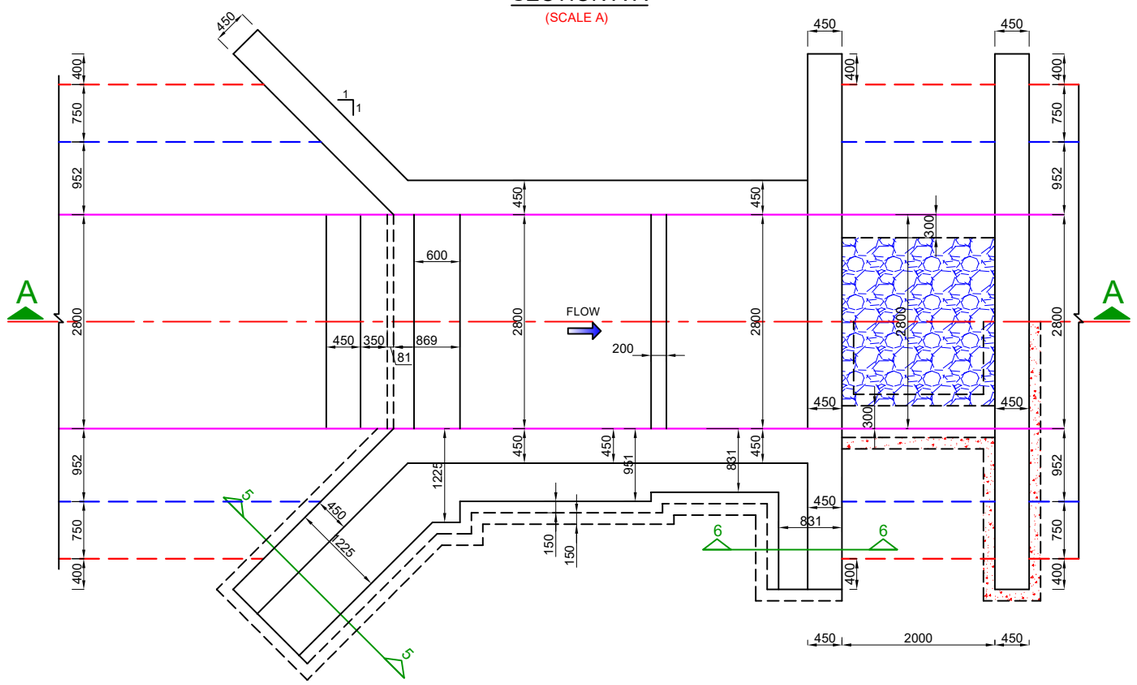
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.760	0.760	CUMEC
VERTICAL DROP	0.457	0.457	METRE
FULL SUPPLY DEPTH	0.635	0.635	METRE
BED WIDTH	2.800	2.800	METRE
BED SLOPE	1 : 4000	1 : 4000	



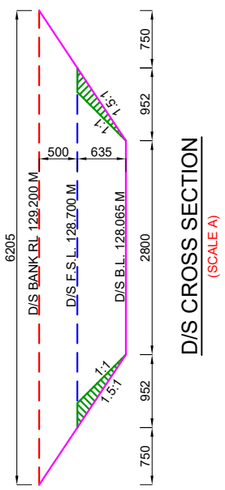
U/S CROSS SECTION

(SCALE A)



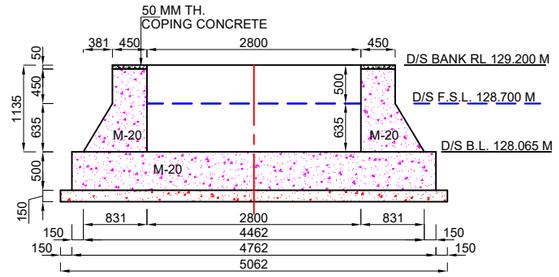
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



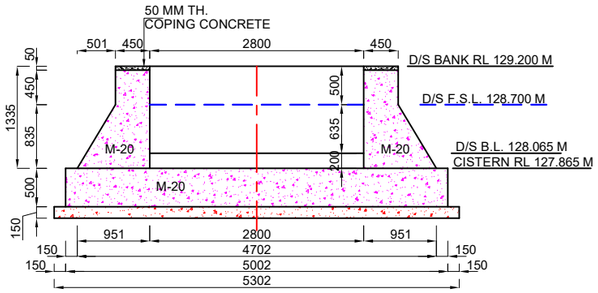
D/S CROSS SECTION

(SCALE A)



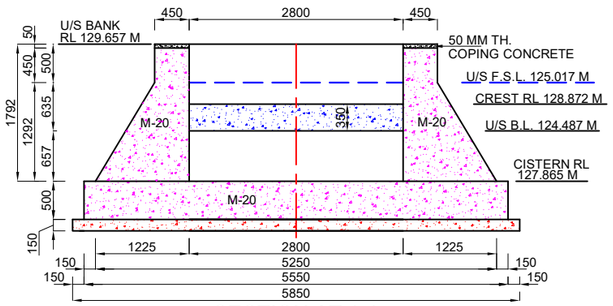
SECTION AT 3-3

(SCALE A)



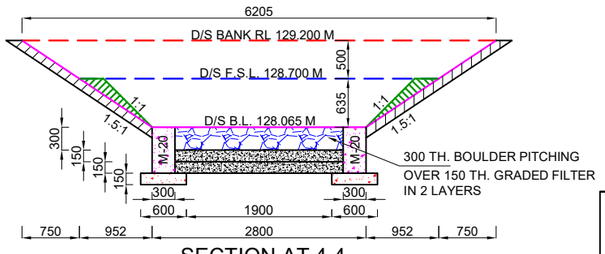
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



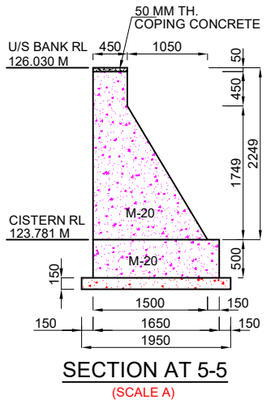
SECTION AT 4-4

(SCALE A)

SCALE A:-

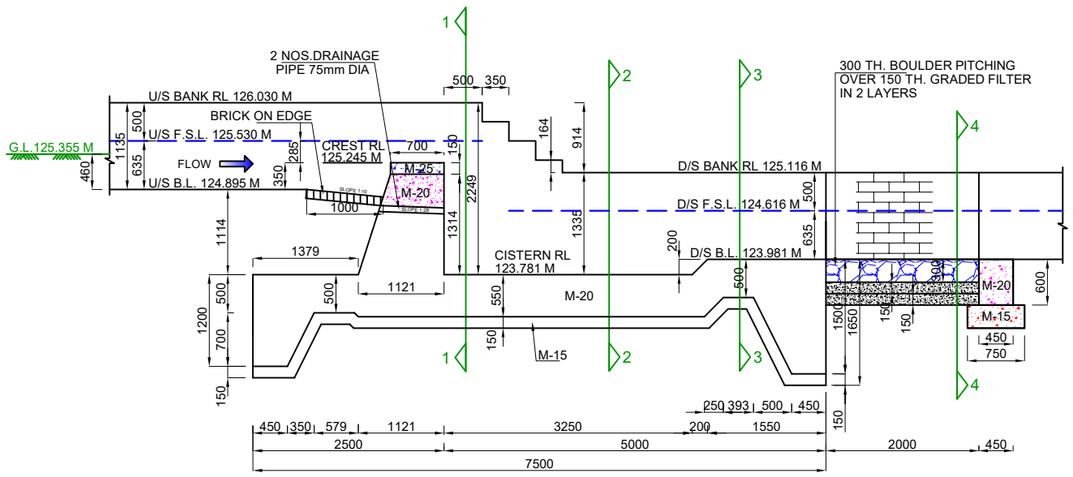
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.457 M HT. FALL AT KM. 0.000 OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ FALL 1 of 1



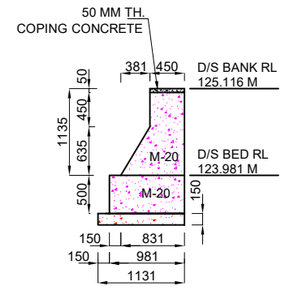
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

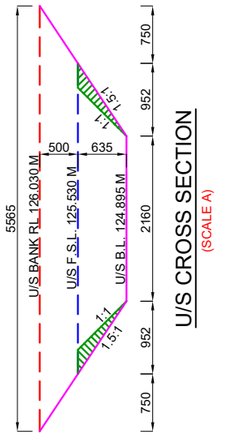
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

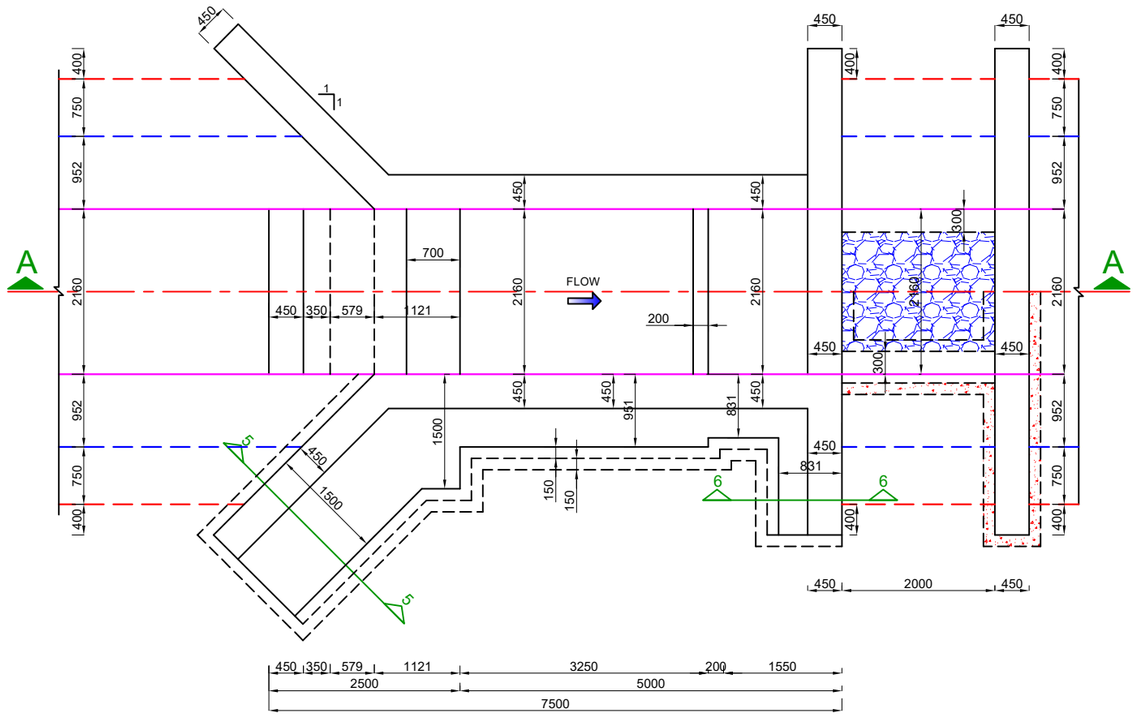
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.570	0.570	CUMEC
VERTICAL DROP	0.914	0.914	METRE
FULL SUPPLY DEPTH	0.635	0.635	METRE
BED WIDTH	2.160	2.160	METRE
BED SLOPE	1 : 4000	1 : 4000	



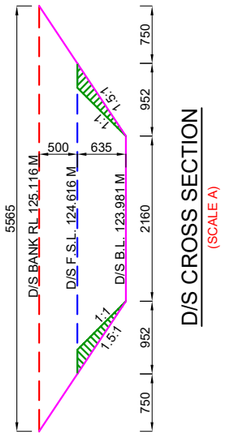
U/S CROSS SECTION

(SCALE A)



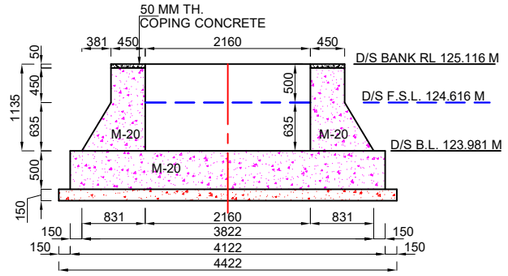
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



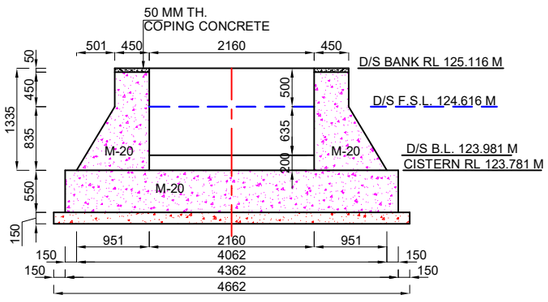
D/S CROSS SECTION

(SCALE A)



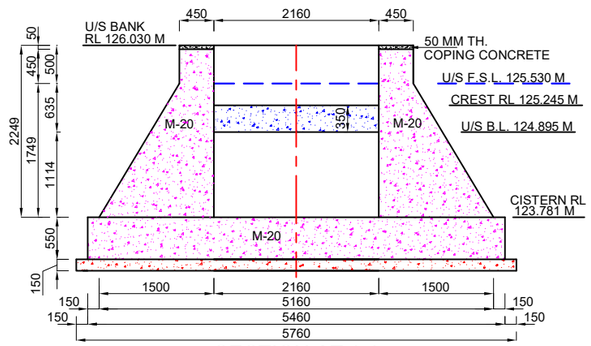
SECTION AT 3-3

(SCALE A)



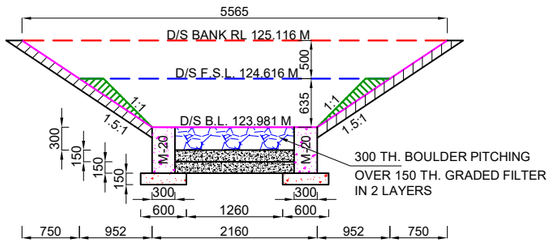
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)

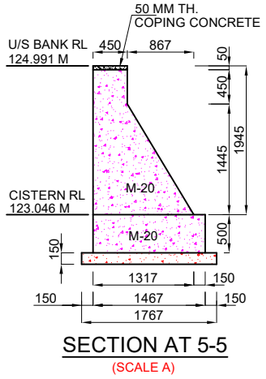


SECTION AT 4-4

(SCALE A)

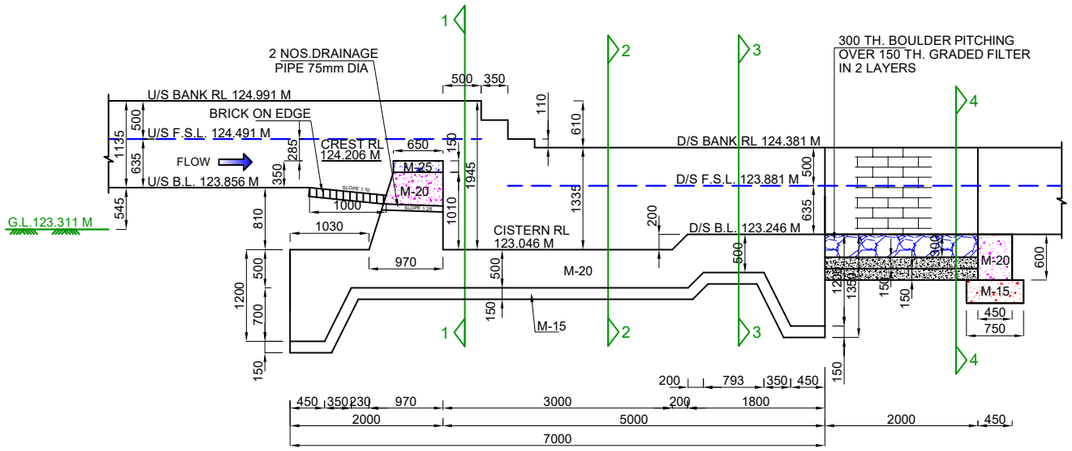
SCALE A:-

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 1.100 OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ FALL 1 of 1



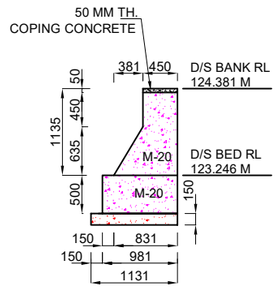
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

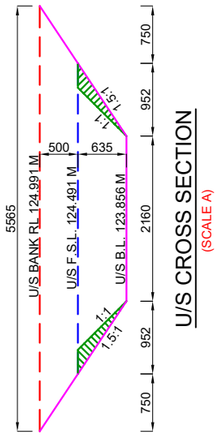
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

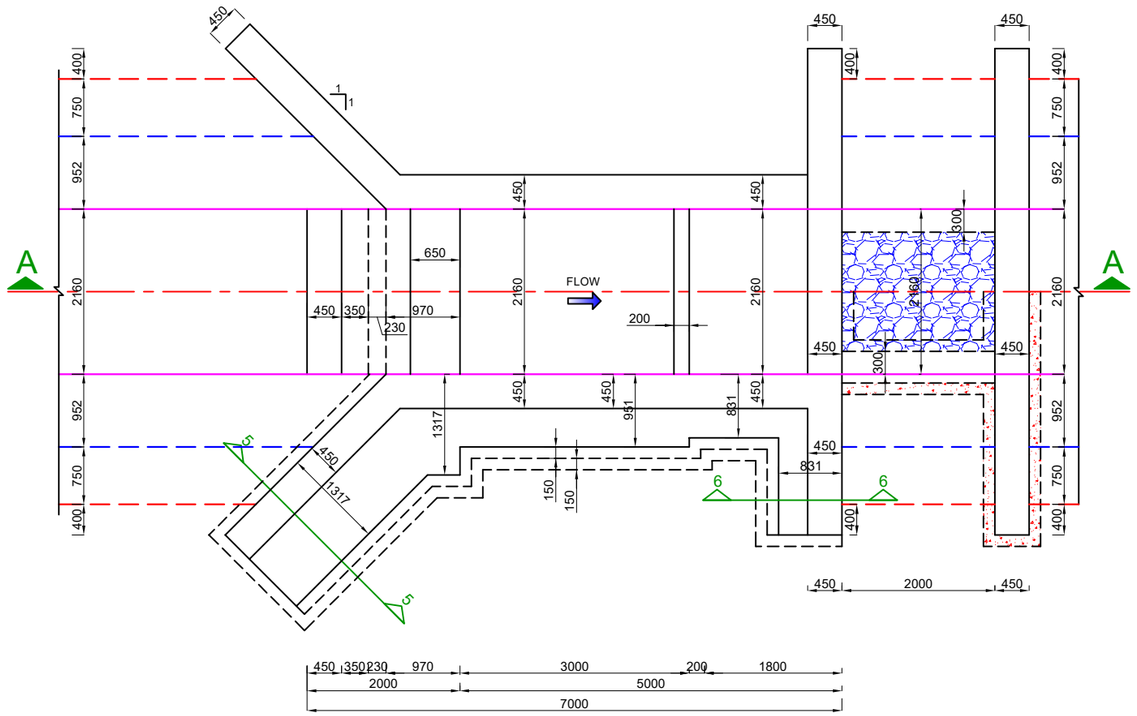
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.570	0.570	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.635	0.635	METRE
BED WIDTH	2.160	2.160	METRE
BED SLOPE	1 : 4000	1 : 4000	



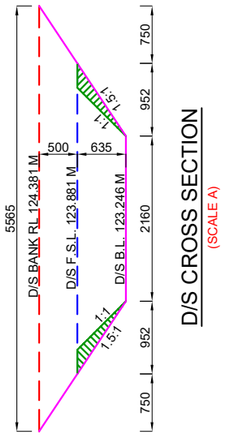
U/S CROSS SECTION

(SCALE A)



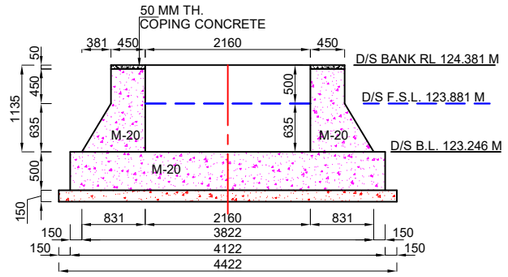
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



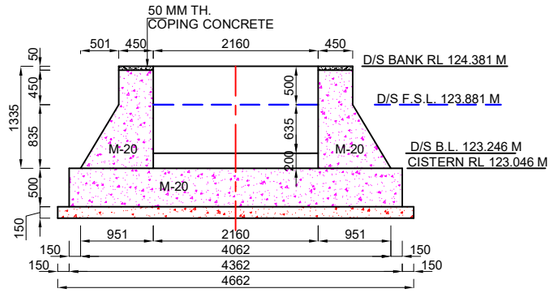
D/S CROSS SECTION

(SCALE A)



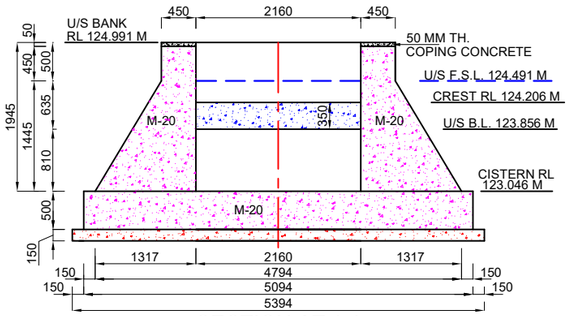
SECTION AT 3-3

(SCALE A)



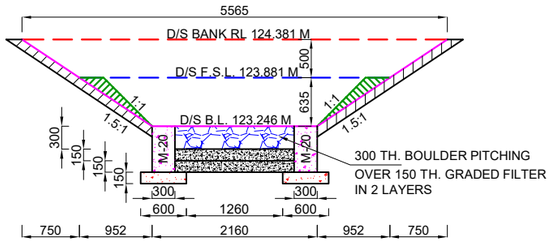
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



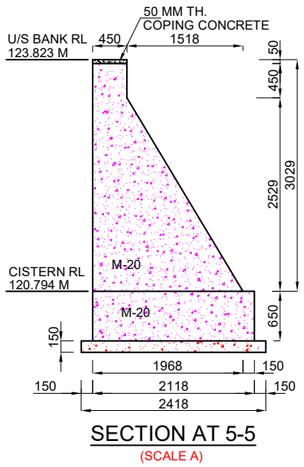
SECTION AT 4-4

(SCALE A)

SCALE A:-

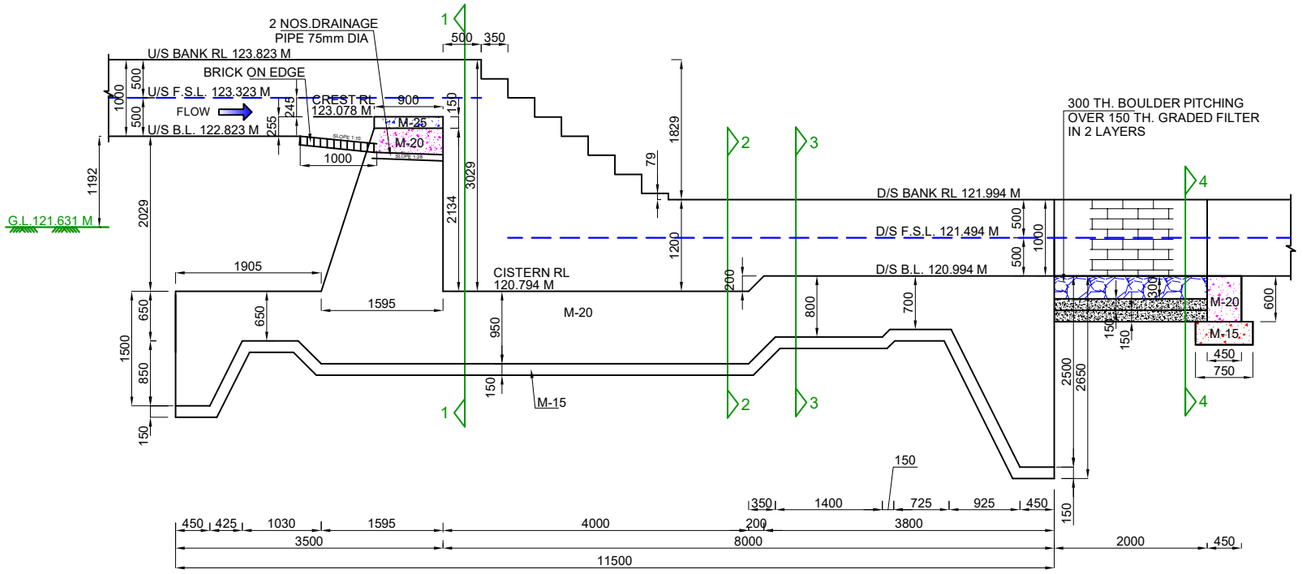
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 1.600 OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ FALL 1 of 1



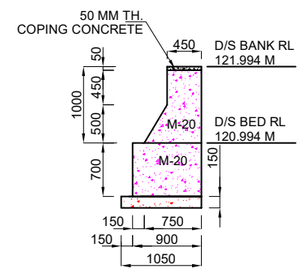
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

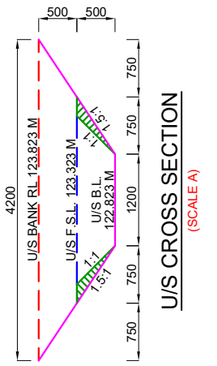
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

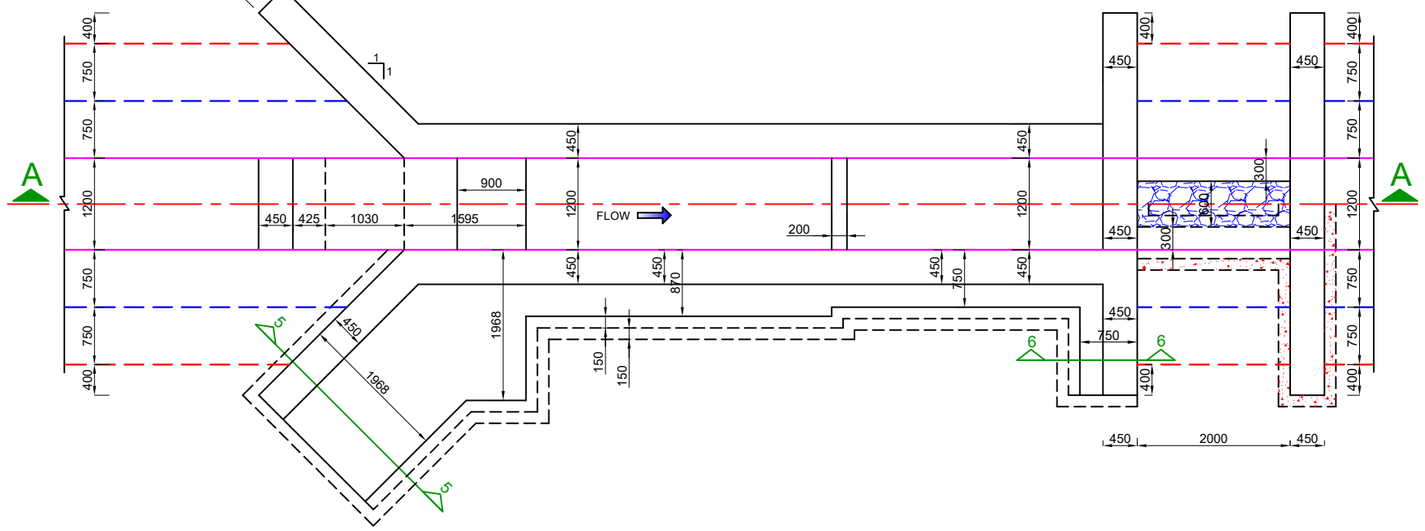
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.230	0.230	CUMEC
VERTICAL DROP	1.829	1.829	METRE
FULL SUPPLY DEPTH	0.500	0.500	METRE
BED WIDTH	1.200	1.200	METRE
BED SLOPE	1 : 3500	1 : 3500	



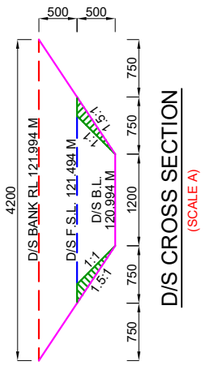
U/S CROSS SECTION

(SCALE A)



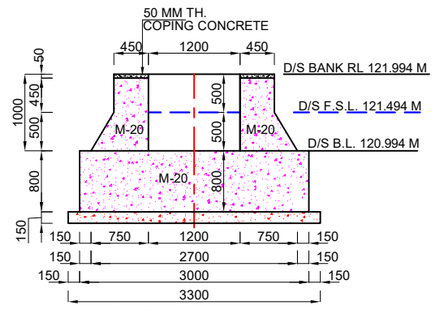
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



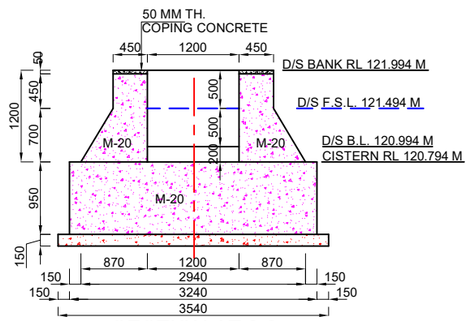
D/S CROSS SECTION

(SCALE A)



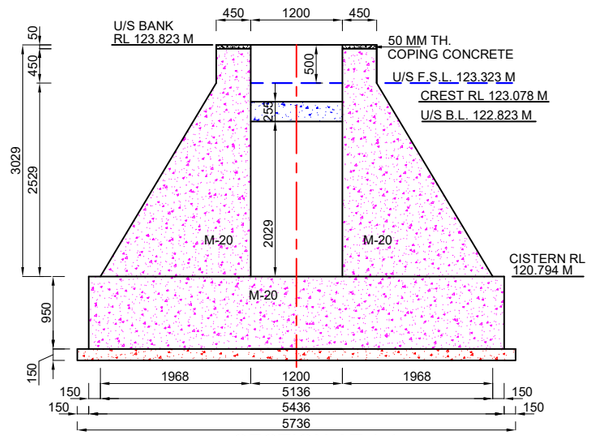
SECTION AT 3-3

(SCALE A)



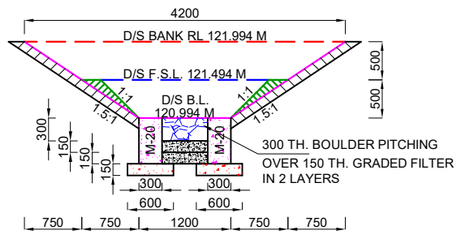
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

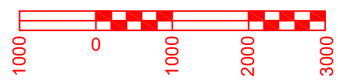
(SCALE A)



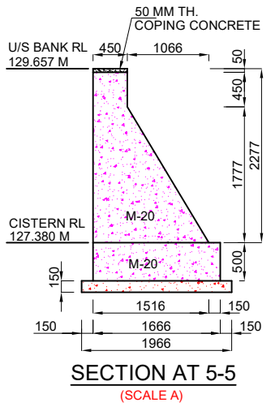
SECTION AT 4-4

(SCALE A)

SCALE A:-

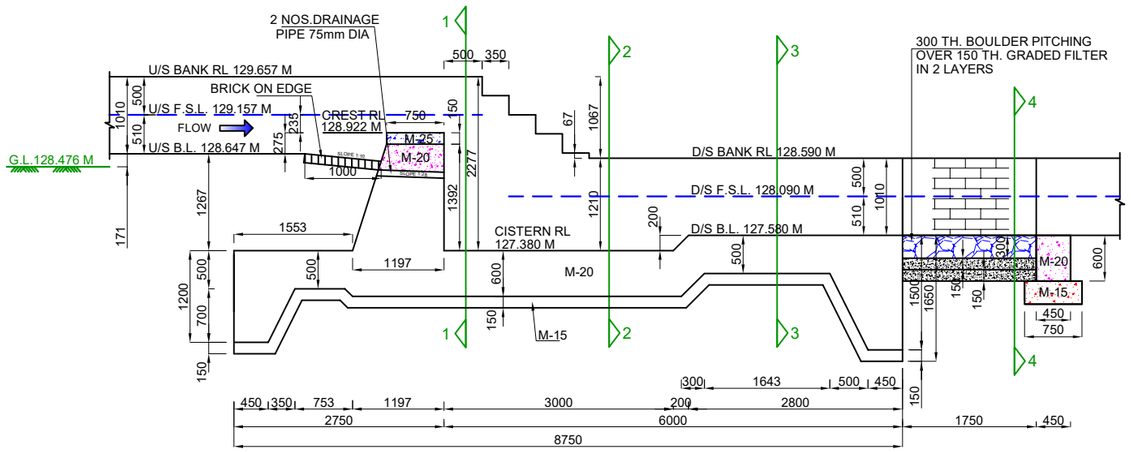


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.829 M HT. FALL AT KM. 3.170 OF YARI MR. (OFFTAKE FROM RD - 7+760 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-03/ FALL 1 of 1



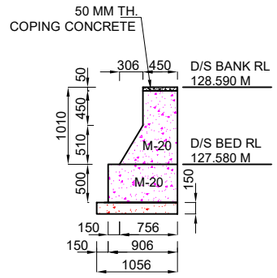
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

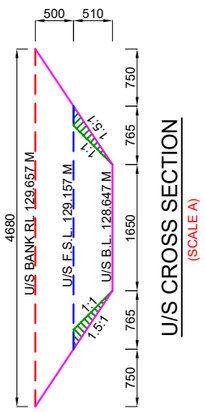
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

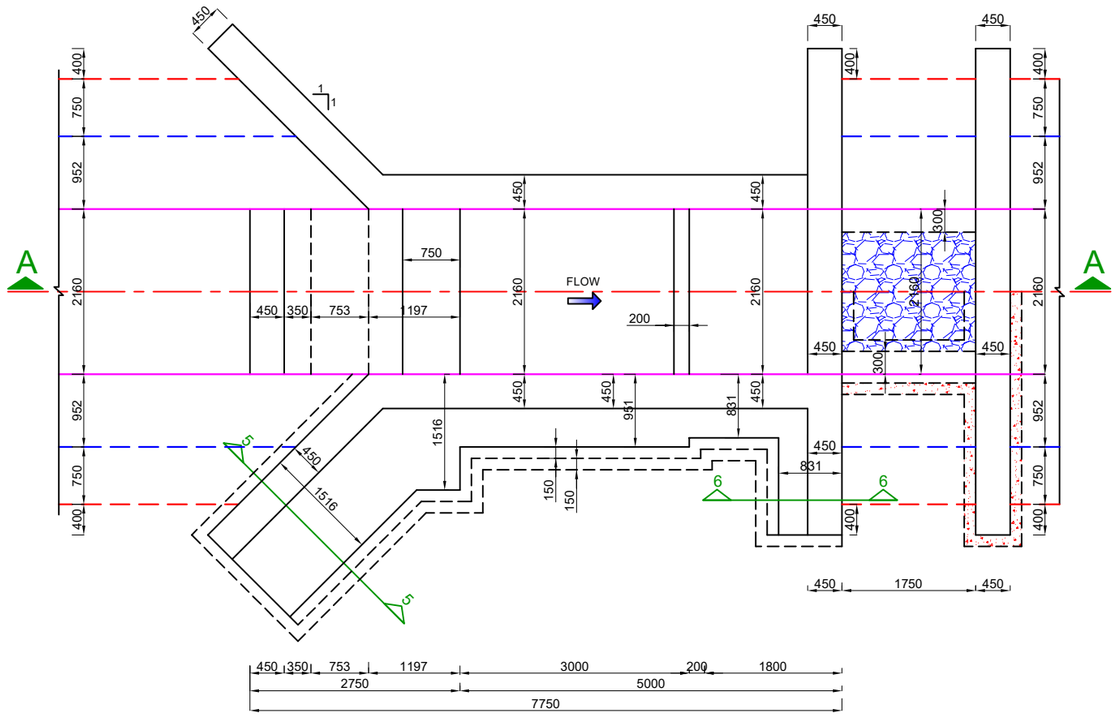
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.300	0.300	CUMEC
VERTICAL DROP	1.067	1.067	METRE
FULL SUPPLY DEPTH	0.510	0.510	METRE
BED WIDTH	1.650	1.650	METRE
BED SLOPE	1 : 4000	1 : 4000	



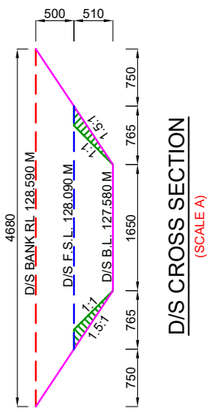
U/S CROSS SECTION

(SCALE A)



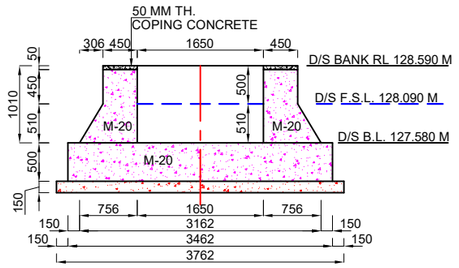
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



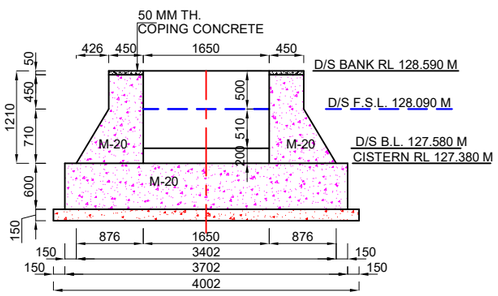
D/S CROSS SECTION

(SCALE A)



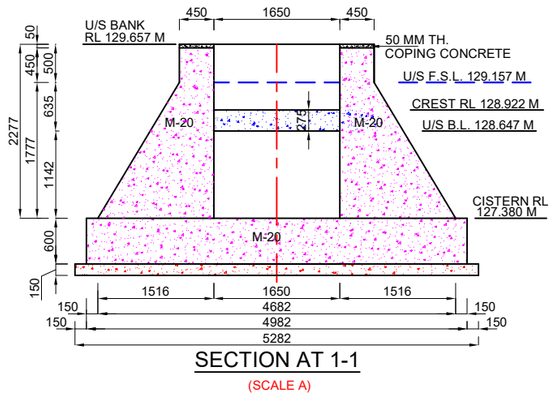
SECTION AT 3-3

(SCALE A)



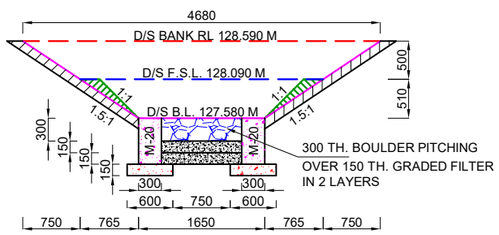
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

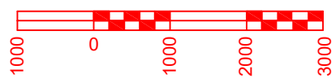
(SCALE A)



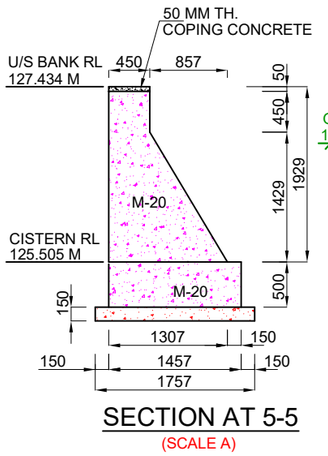
SECTION AT 4-4

(SCALE A)

SCALE A:-

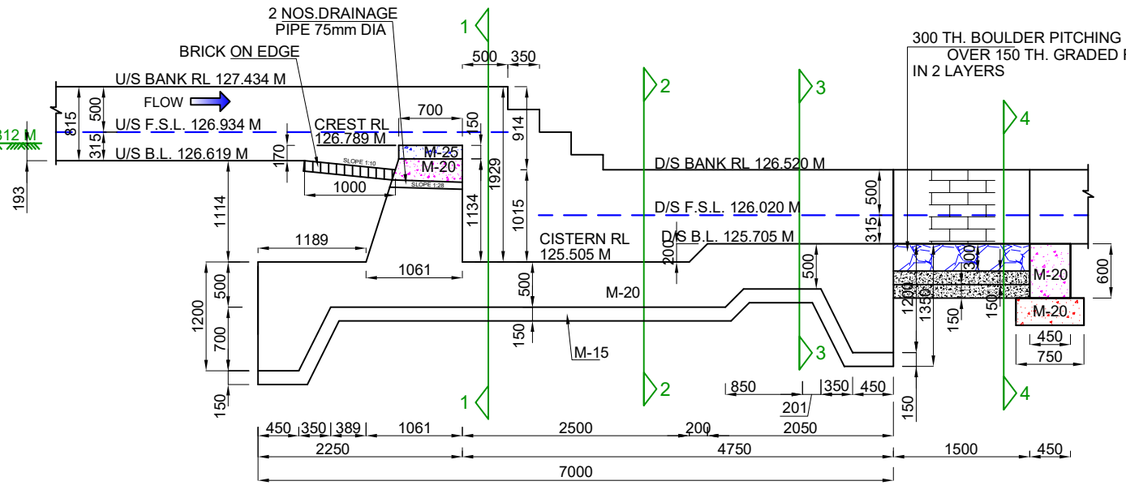


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.067 M HT. FALL AT KM. 0.000 OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ FALL 1 of 1



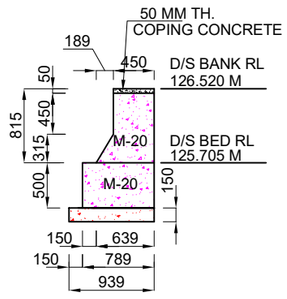
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

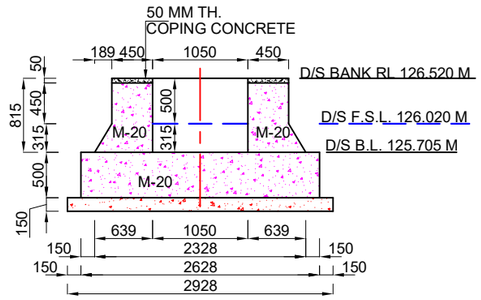
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

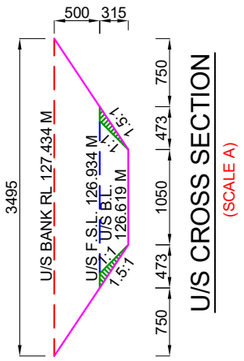
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.090	0.090	CUMEC
VERTICAL DROP	1.524	1.524	METRE
FULL SUPPLY DEPTH	0.315	0.315	METRE
BED WIDTH	1.050	1.050	METRE
BED SLOPE	1 : 3700	1 : 3700	



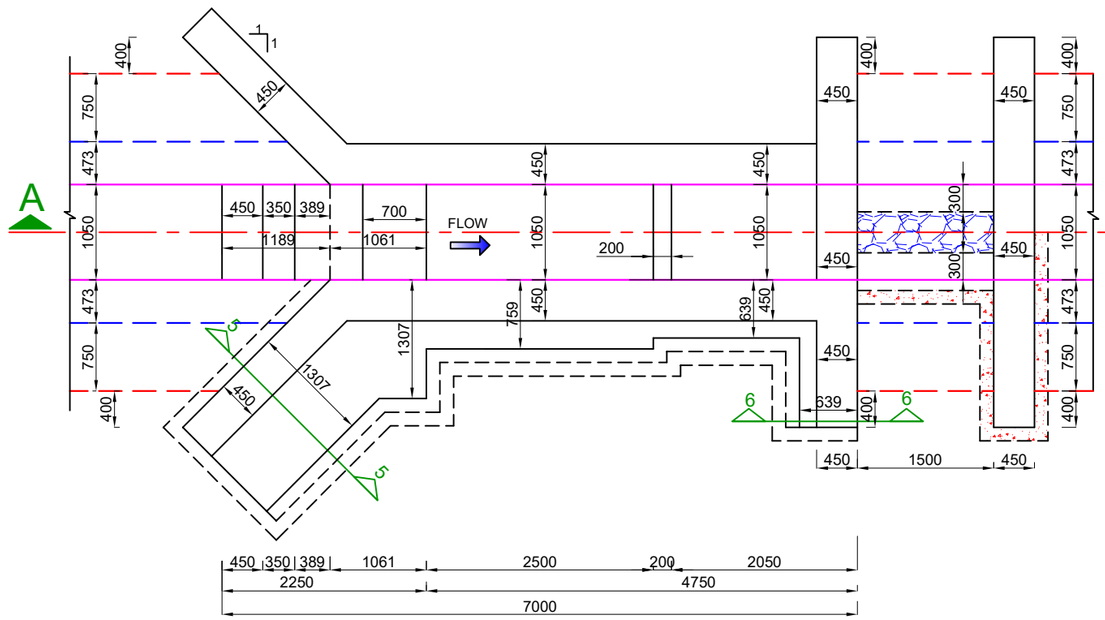
SECTION AT 3-3

(SCALE A)



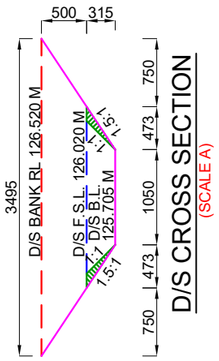
U/S CROSS SECTION

(SCALE A)



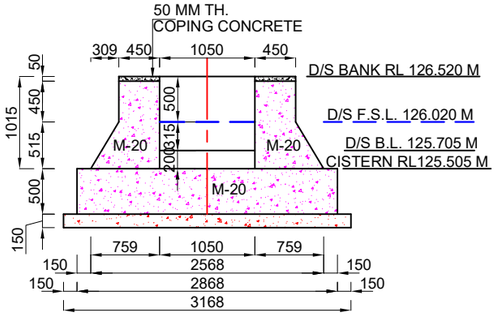
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



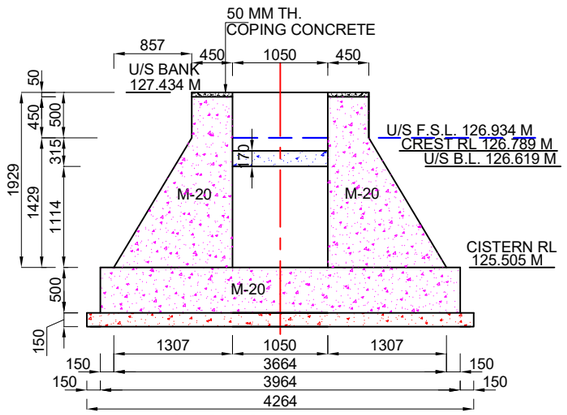
D/S CROSS SECTION

(SCALE A)



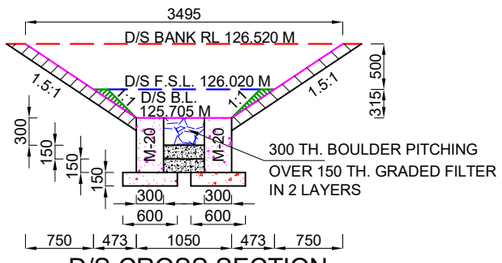
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



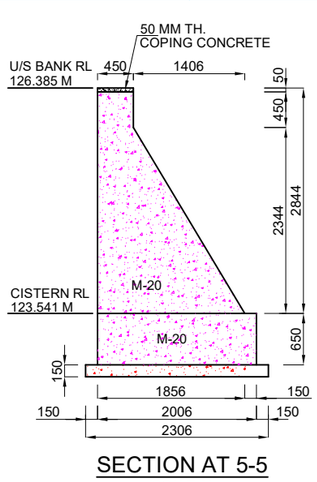
D/S CROSS SECTION

(SCALE A)

SCALE A:-

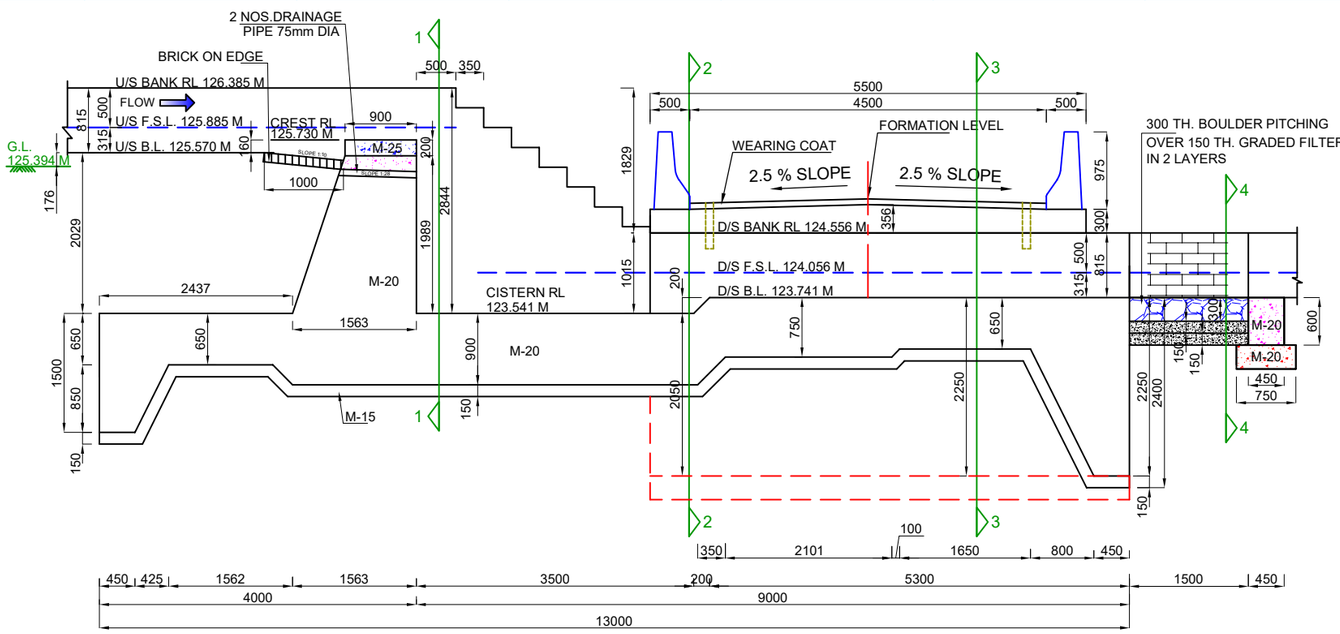
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 0.750 OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ FALL 1 of 1



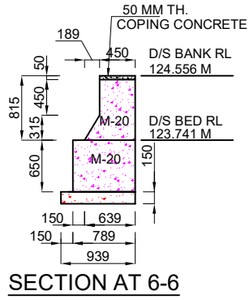
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

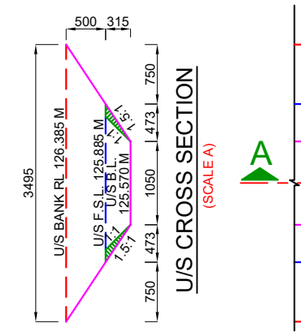
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

PCC UNDER FLOOR	M 15
FOUNDATION OF ABUTMENTS & WING WALL	M 20
FLOOR	M 20
ABUTMENTS / WING WALLS	M 20
SLAB & DIRT WALL	M 25

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.

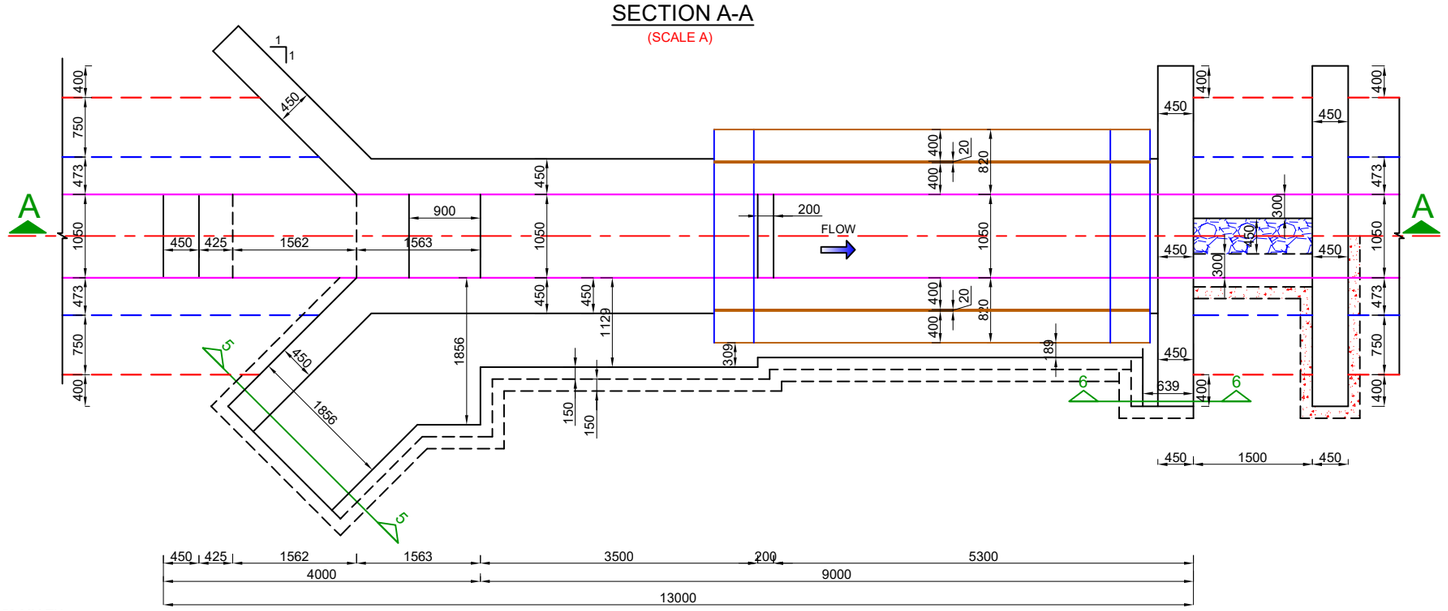
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.090	0.090	CUMEC
VERTICAL DROP	1.829	1.829	METRE
FULL SUPPLY DEPTH	0.315	0.315	METRE
BED WIDTH	1.050	1.050	METRE
BED SLOPE	1 : 3700	1 : 3700	



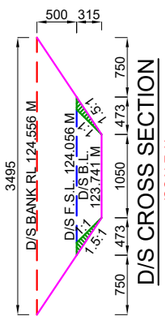
U/S CROSS SECTION

(SCALE A)



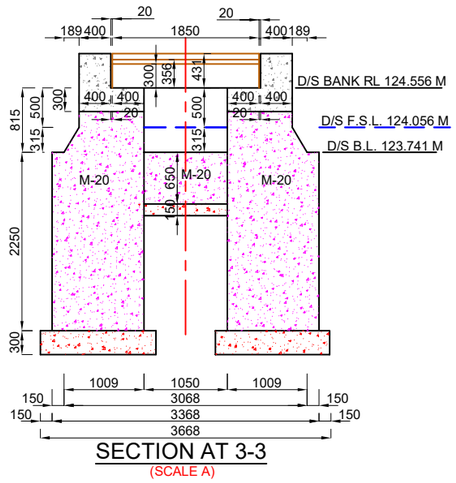
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



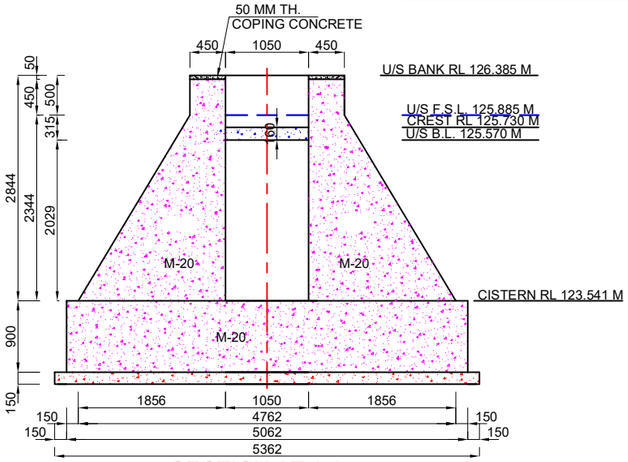
D/S CROSS SECTION

(SCALE A)



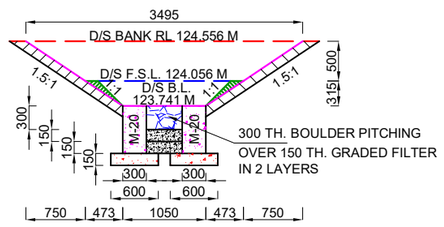
SECTION AT 3-3

(SCALE A)



SECTION AT 1-1

(SCALE A)

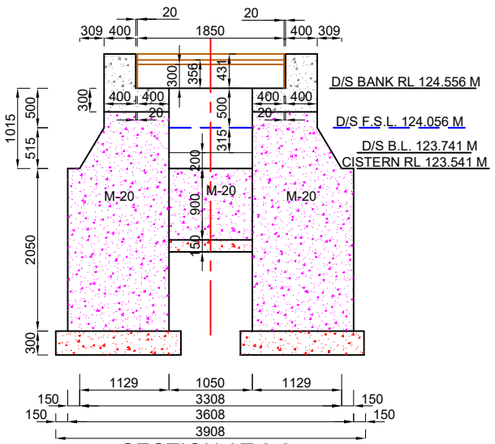


D/S CROSS SECTION

(SCALE A)

SCALE A:-

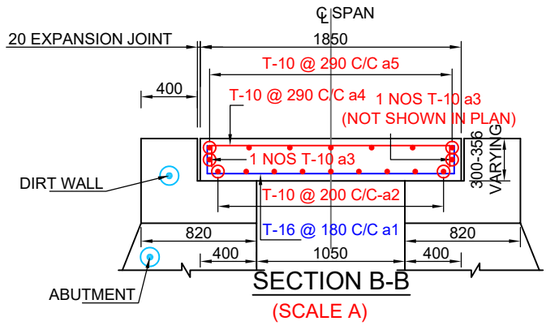
1000 0 1000 2000 3000



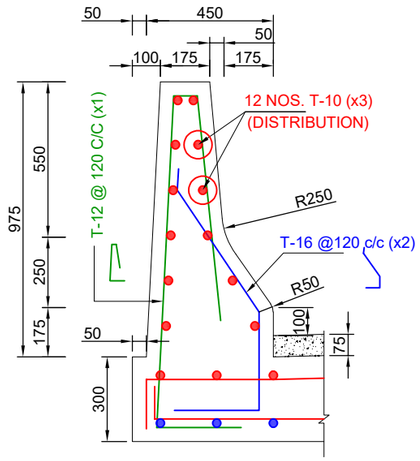
SECTION AT 2-2

(SCALE A)

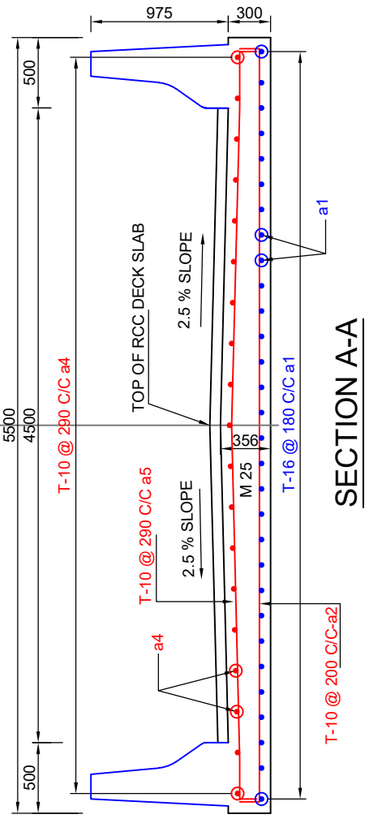
Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.829 M HT. FALL AT KM. 1.250 OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ FALL 1 of 2



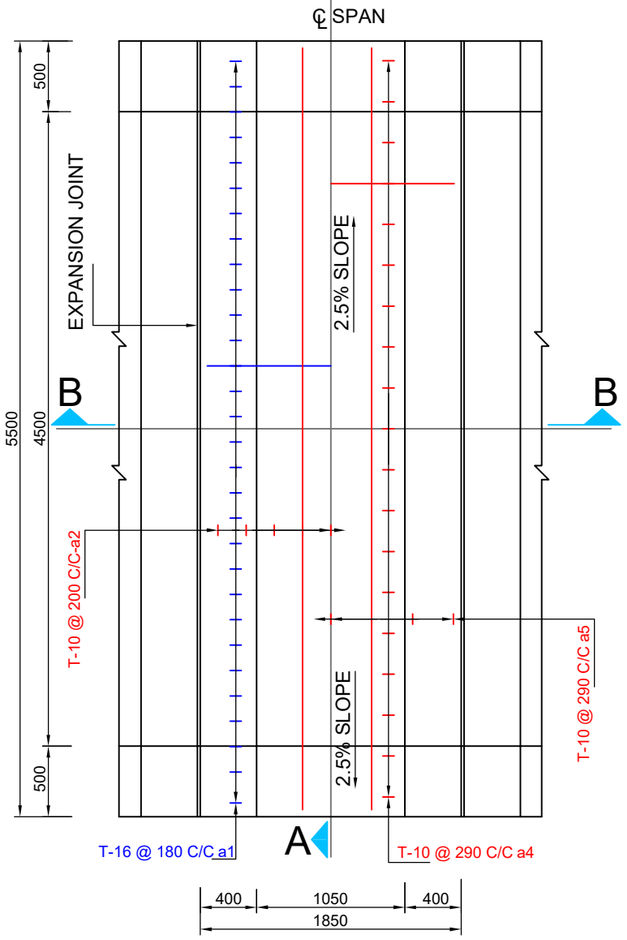
SECTION B-B
(SCALE A)



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)

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, 1750, 200	16	180	31
2	a2	200, R=50, 5400, 200	10	200	9
3	a3	5400	10	-	2
4	a4	1750, 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	1750	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 (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

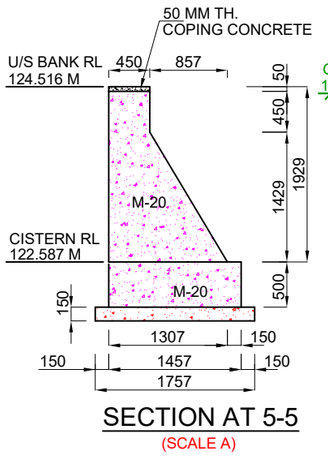
1. THE DEVELOPMENT LENGTHS GIVEN ABOVE ARE FOR A STRESS OF 0.87 fy IN THE BAR
2. THE DEVELOPMENT LENGTH INCLUDES ANCHORAGE VALUES OF HOOKS IN TENSION REINFORCEMENT.

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.
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

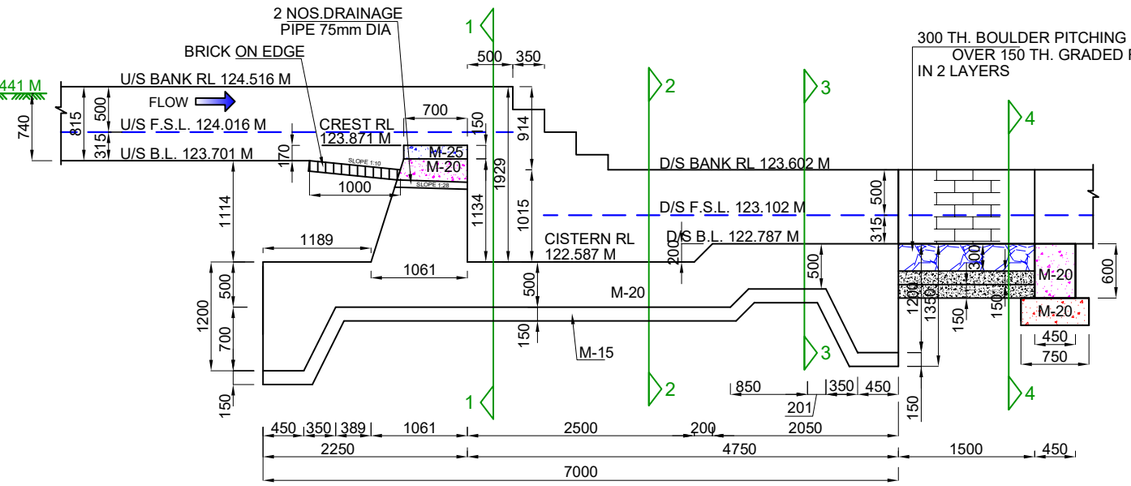
SCALE B:- 200 0 200 400 600

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. 1.250 OF NEPUA MR. (OFFTAKE RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ FALL 2 of 2



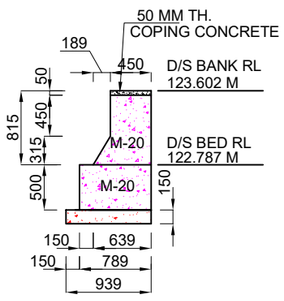
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

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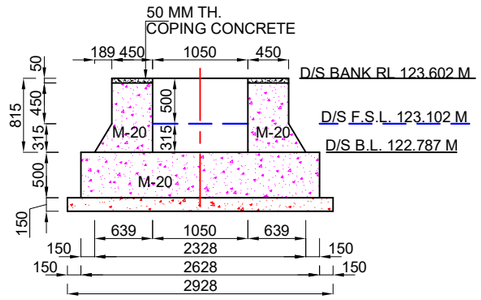
FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

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.

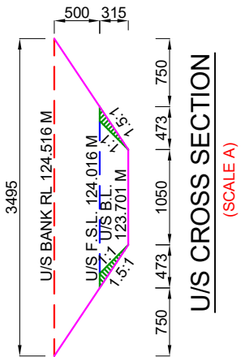
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.090	0.090	CUMEC
VERTICAL DROP	1.524	1.524	METRE
FULL SUPPLY DEPTH	0.315	0.315	METRE
BED WIDTH	1.050	1.050	METRE
BED SLOPE	1 : 3700	1 : 3700	

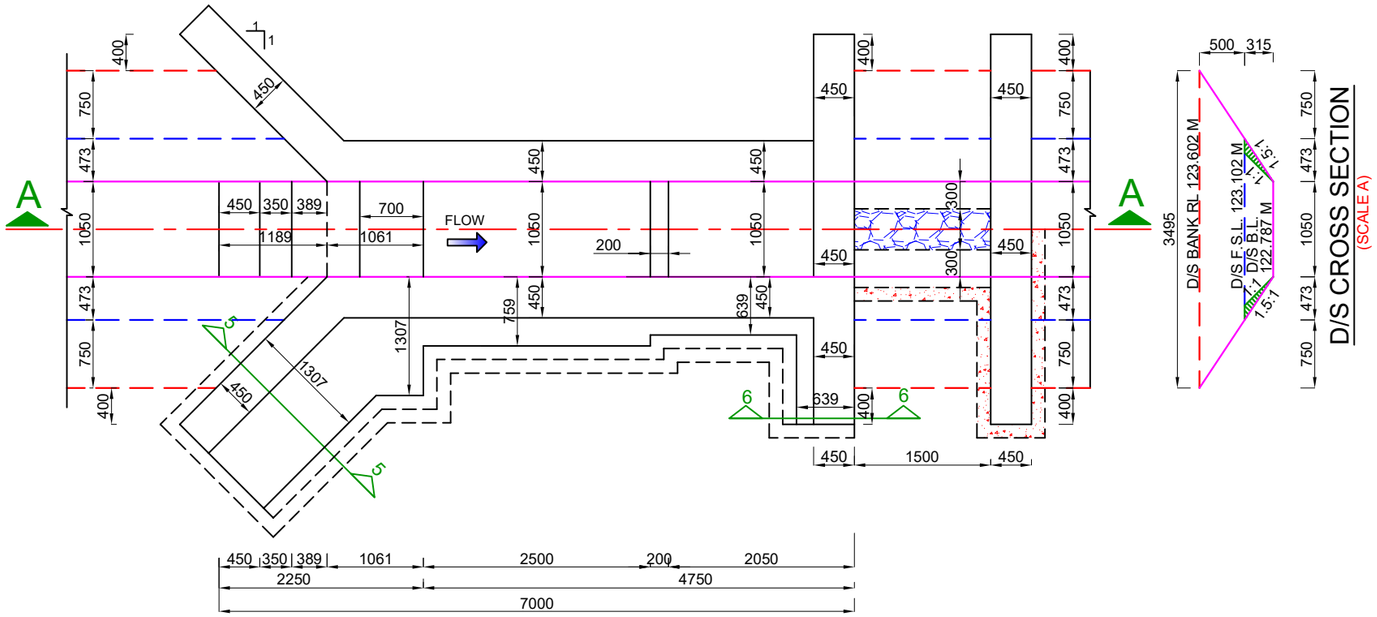


SECTION AT 3-3

(SCALE A)



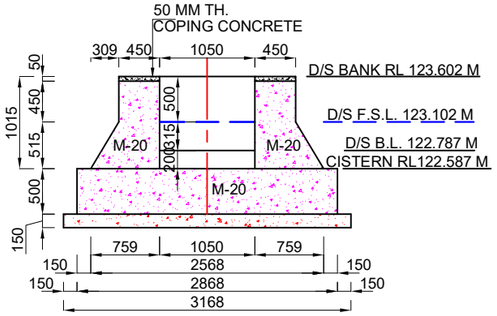
(SCALE A)



HALF TOP / HALF FOUNDATION PLAN

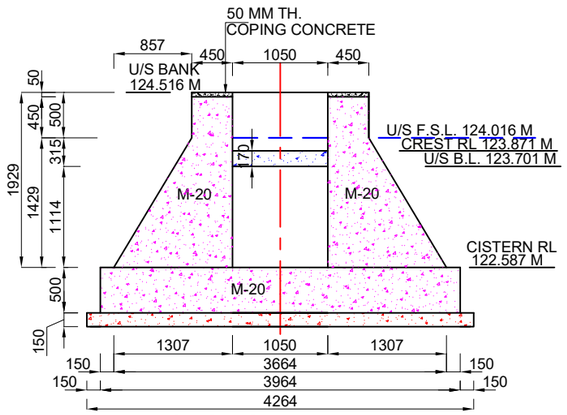
(SCALE A)

(SCALE A)



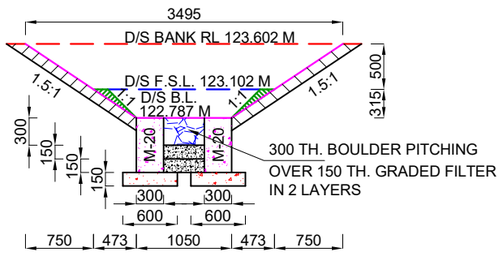
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



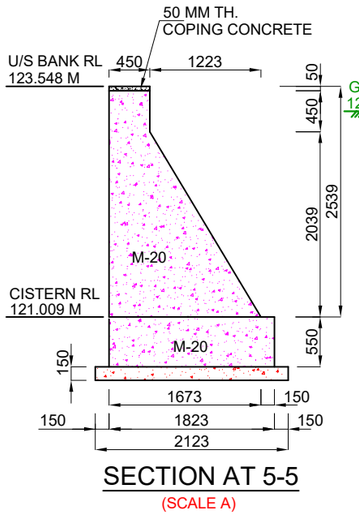
D/S CROSS SECTION

(SCALE A)

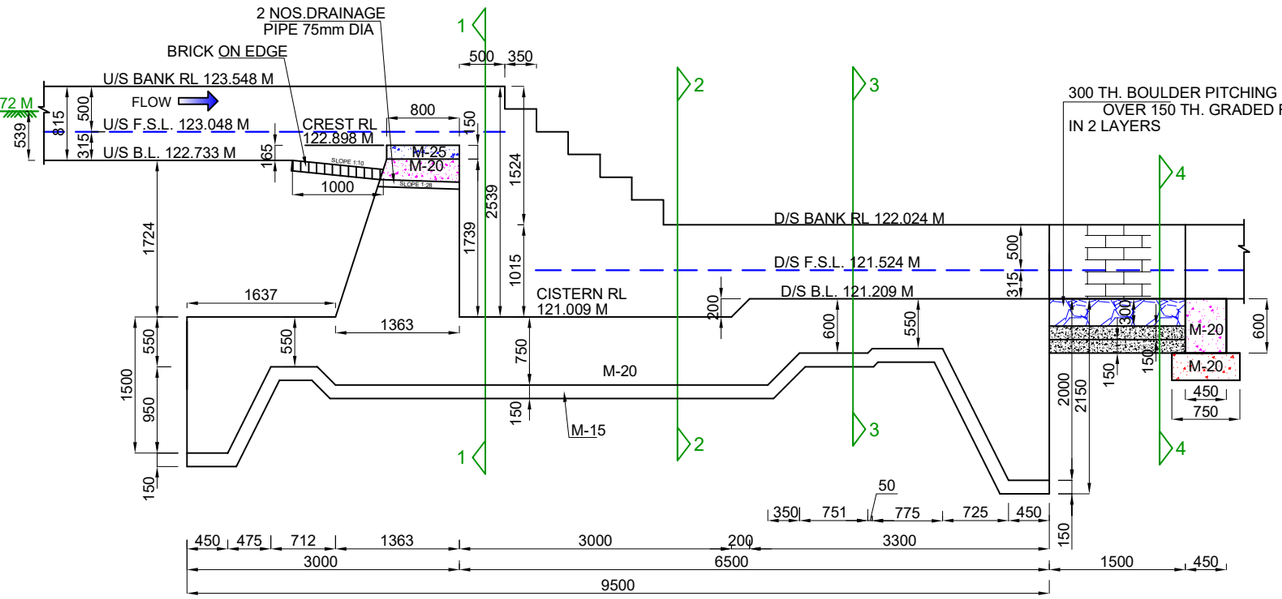
SCALE A:-

1000 0 1000 2000 3000

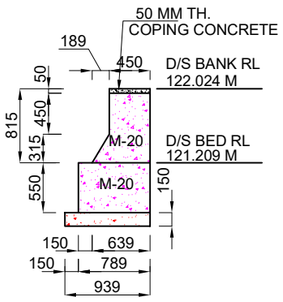
Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 1.400 OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ FALL 1 of 1



SECTION AT 5-5
(SCALE A)



SECTION A-A
(SCALE A)



SECTION AT 6-6
(SCALE A)

NOTES:-

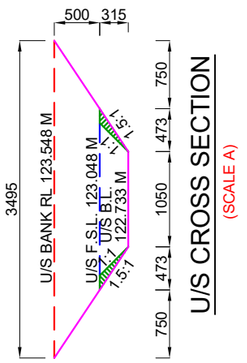
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

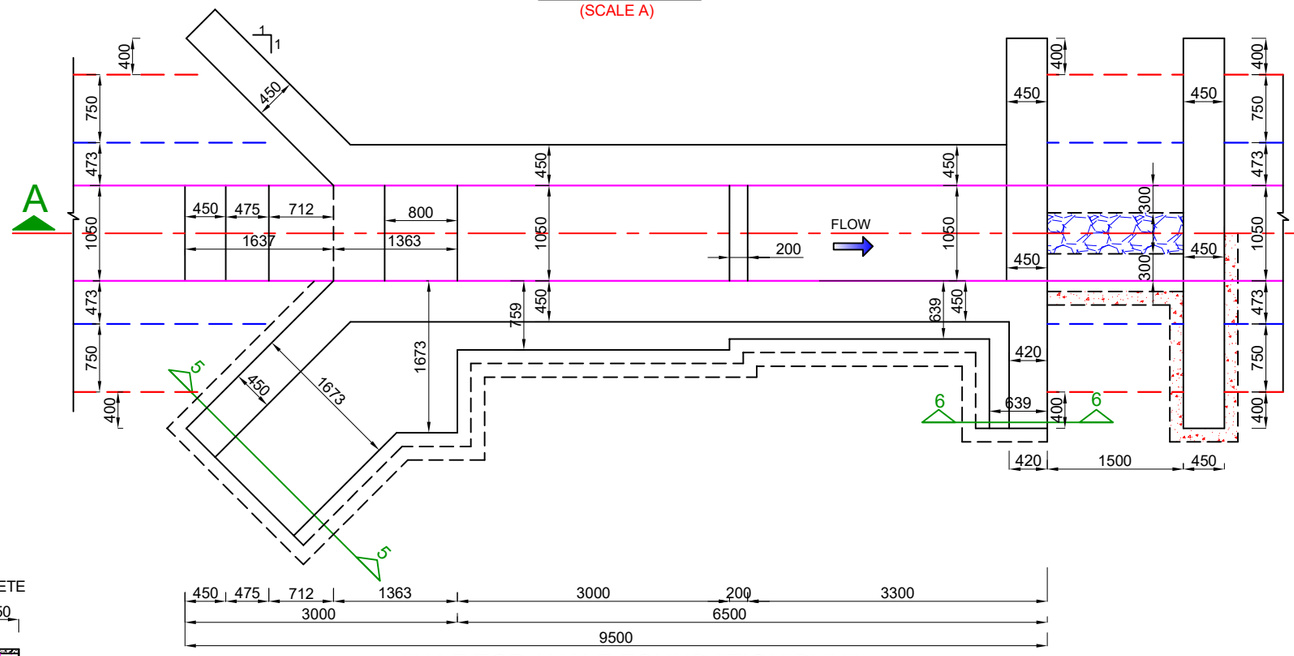
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

HYDRAULIC:- DATA

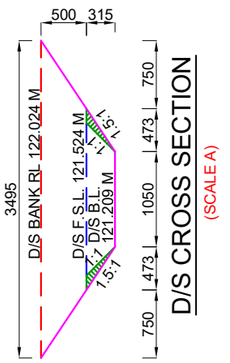
	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.090	0.090	CUMEC
VERTICAL DROP	1.524	1.524	METRE
FULL SUPPLY DEPTH	0.315	0.315	METRE
BED WIDTH	1.050	1.050	METRE
BED SLOPE	1 : 3700	1 : 3700	



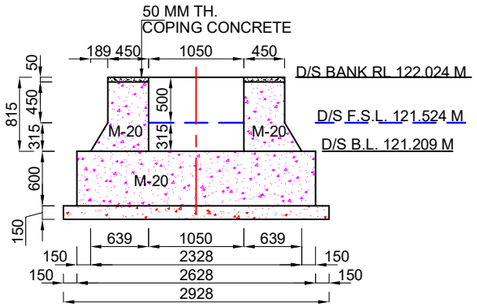
U/S CROSS SECTION
(SCALE A)



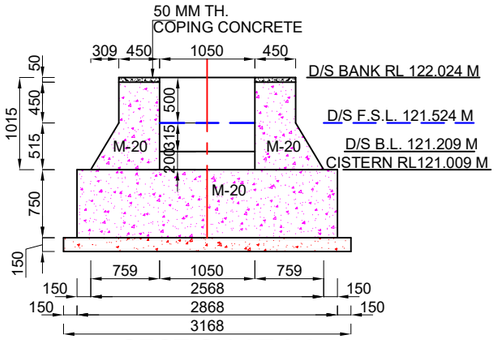
HALF TOP / HALF FOUNDATION PLAN
(SCALE A)



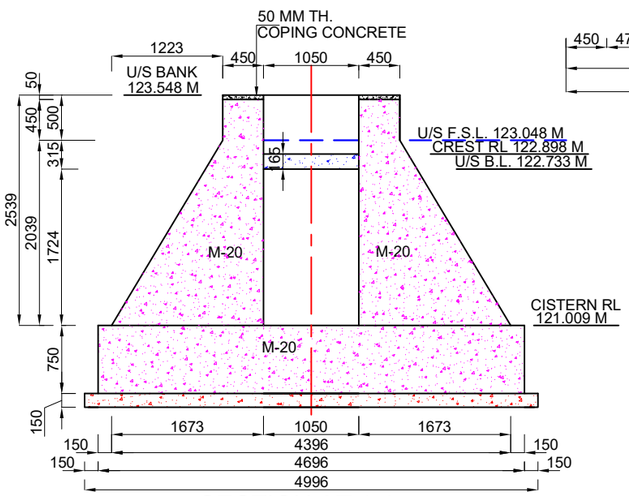
D/S CROSS SECTION
(SCALE A)



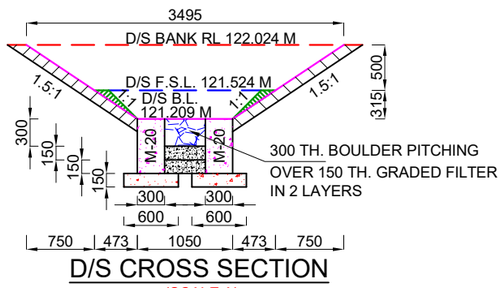
SECTION AT 3-3
(SCALE A)



SECTION AT 2-2
(SCALE A)



SECTION AT 1-1
(SCALE A)

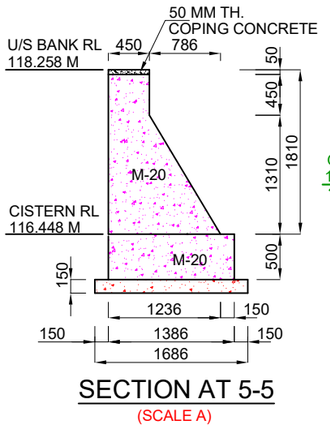


D/S CROSS SECTION
(SCALE A)

SCALE A:-

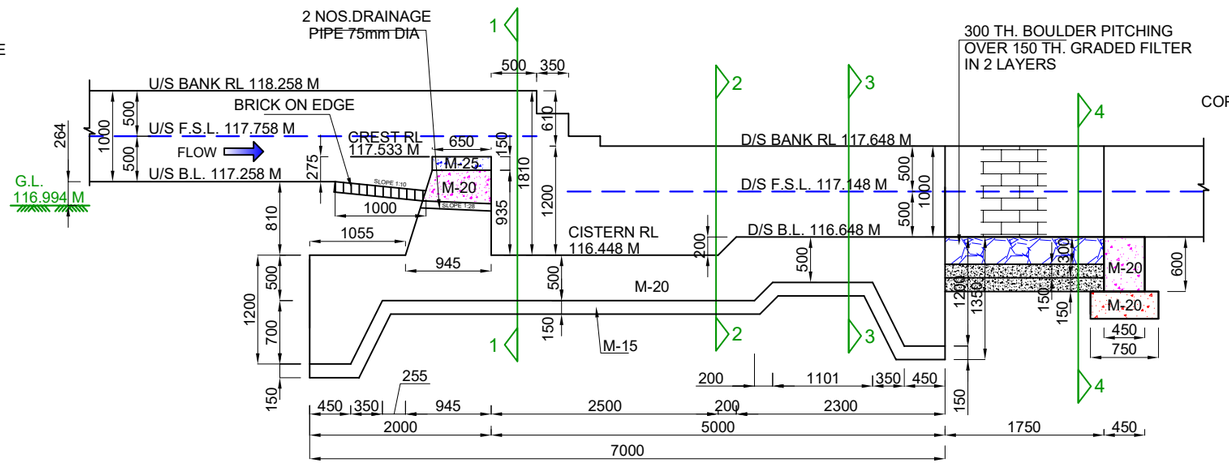
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 1.524 M HT. FALL AT KM. 1.600 OF NEPUA MR. (OFFTAKE FROM RD - 7+760 KM. (L), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-04/ FALL 1 of 1



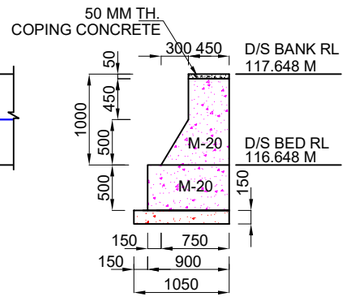
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

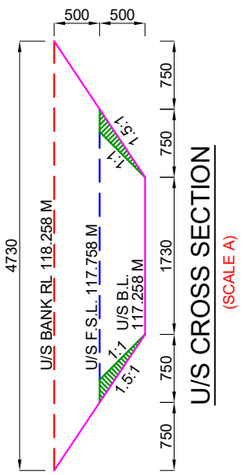
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

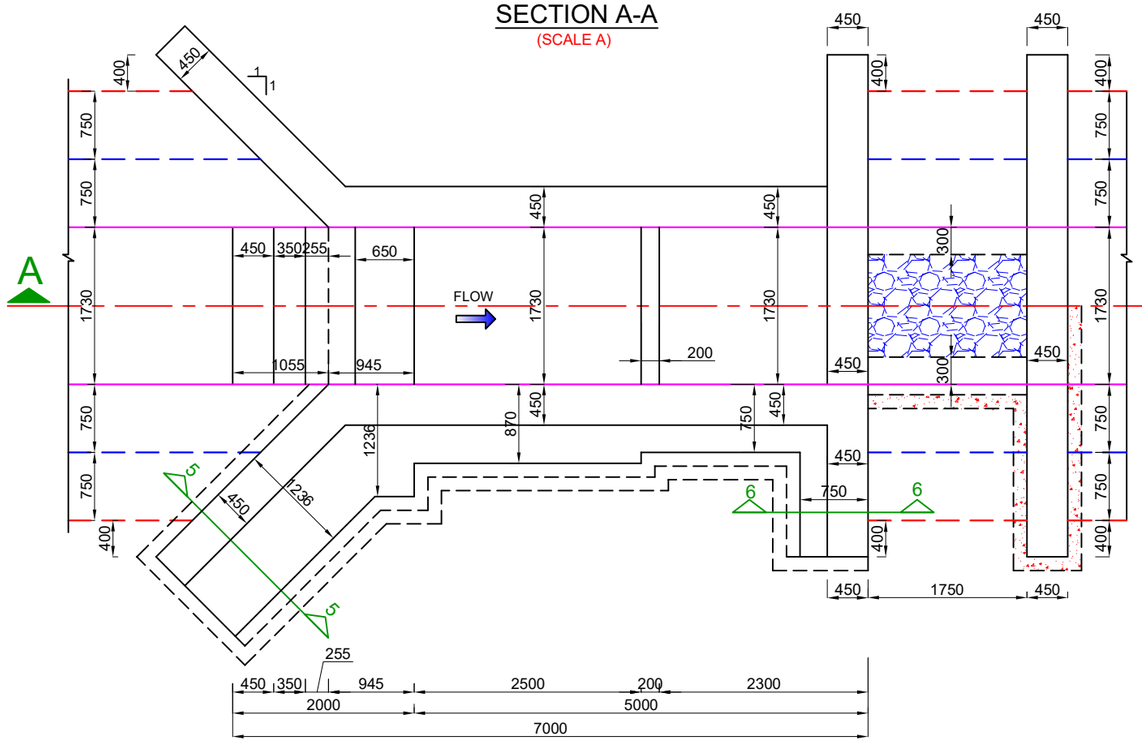
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.310	0.310	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.500	0.500	METRE
BED WIDTH	1.730	1.730	METRE
BED SLOPE	1 : 4000	1 : 4000	



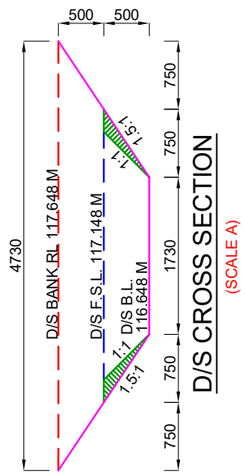
U/S CROSS SECTION

(SCALE A)



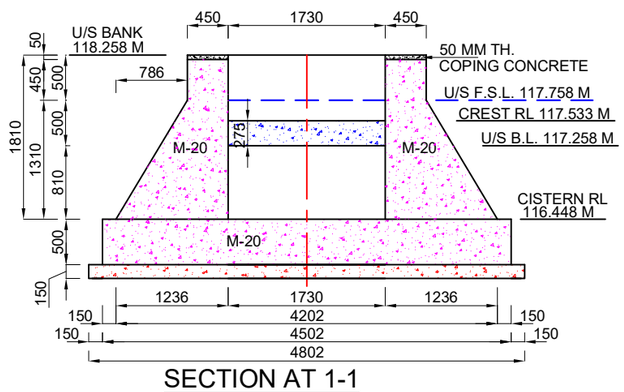
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



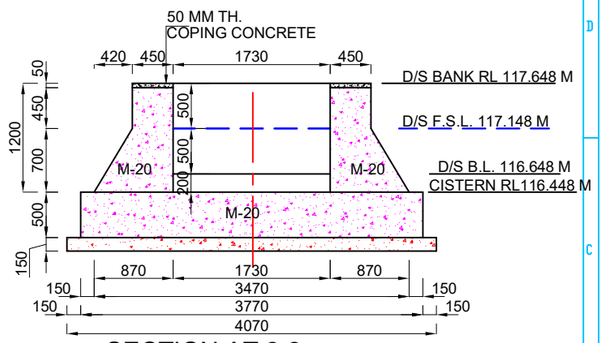
D/S CROSS SECTION

(SCALE A)



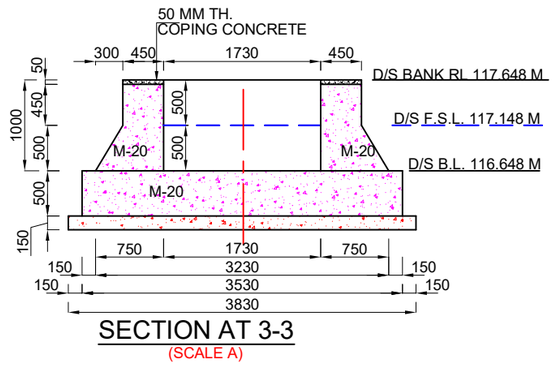
SECTION AT 1-1

(SCALE A)



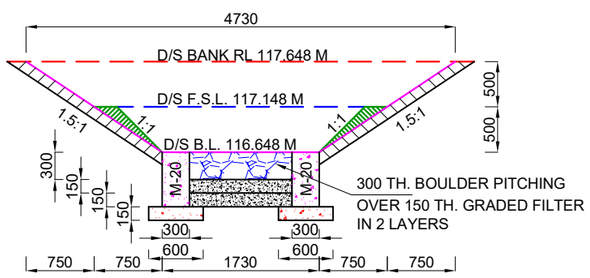
SECTION AT 2-2

(SCALE A)



SECTION AT 3-3

(SCALE A)



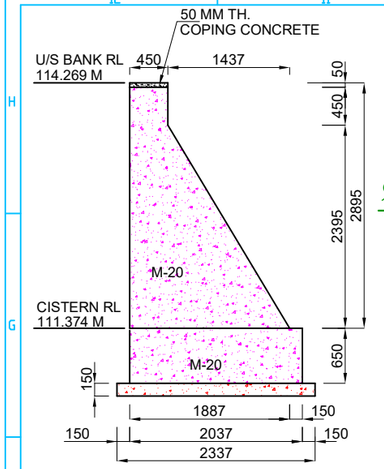
SECTION AT 4-4

(SCALE A)

SCALE A:-

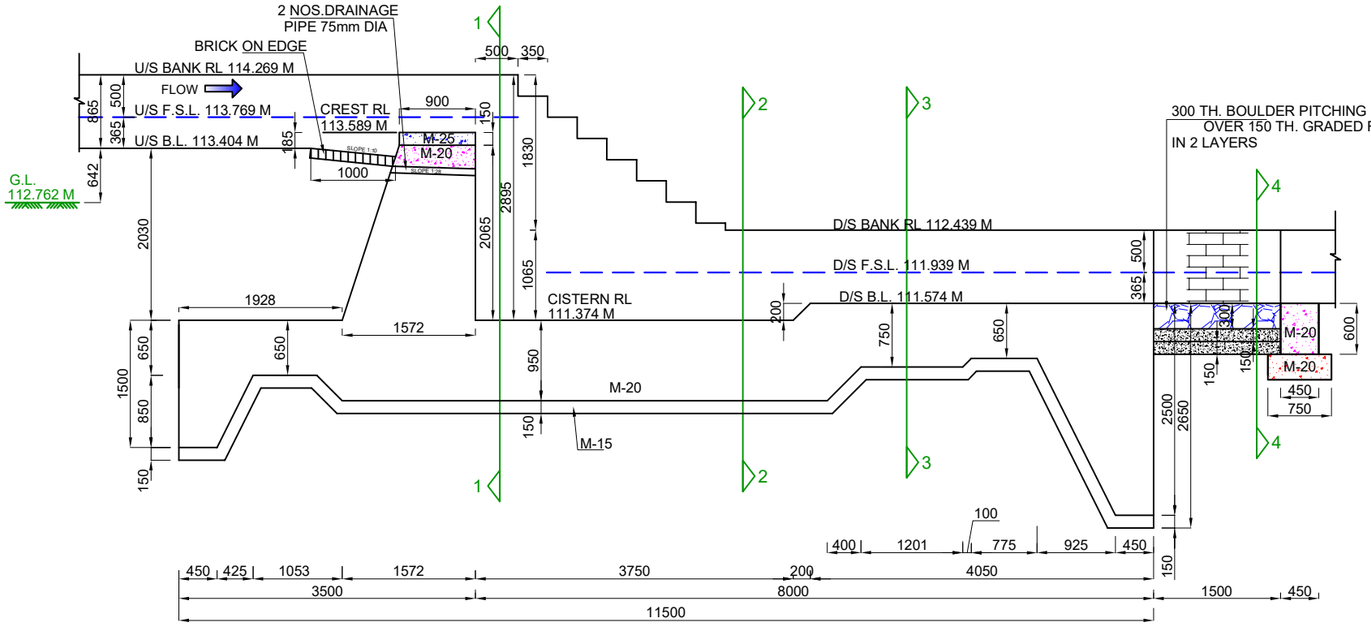
1000 0 1000 2000 3000

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 AMAR BIGHA MR. (OFFTAKE FROM RD-12+810 KM. (R), KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-05/ FALL 1 of 1



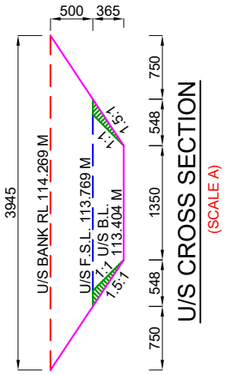
SECTION AT 5-5

(SCALE A)



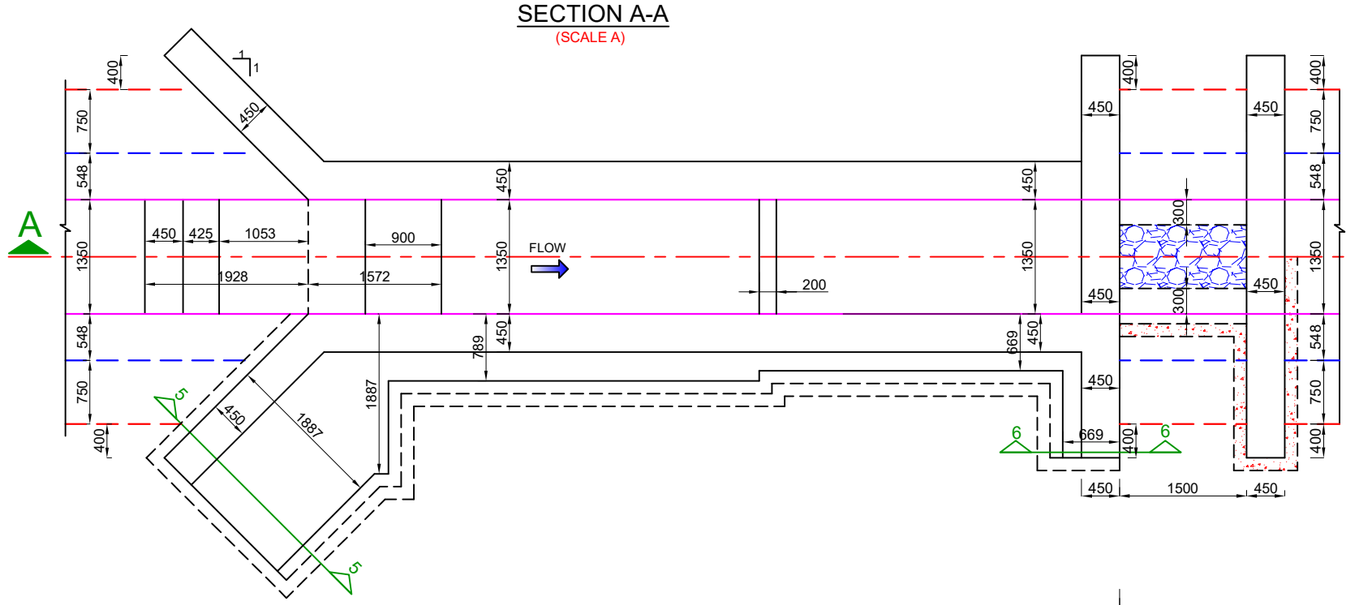
SECTION A-A

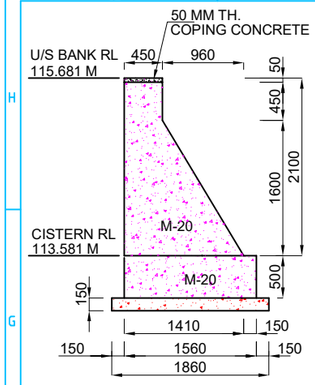
(SCALE A)



U/S CROSS SECTION

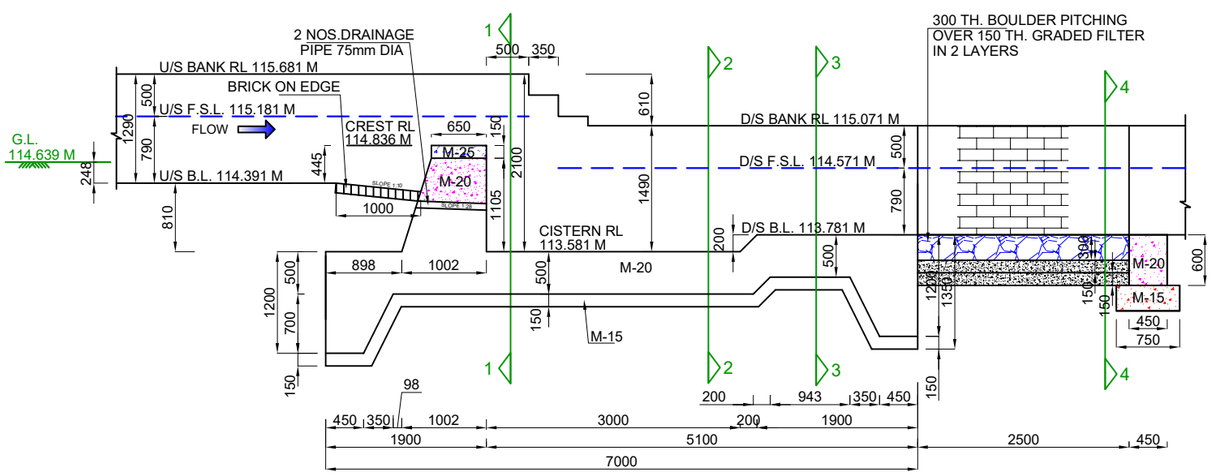
(SCALE A)


A
A
400
750
548
1350
548
750
400
1
1
450
450
450
425
1053
900
1928
1572
FLOW
200
450
450
450



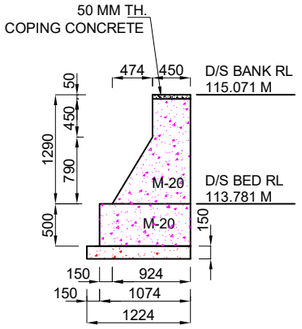
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

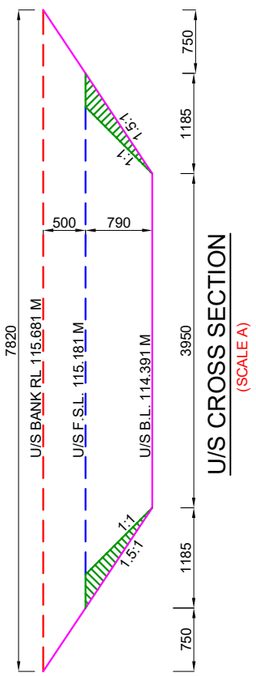
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

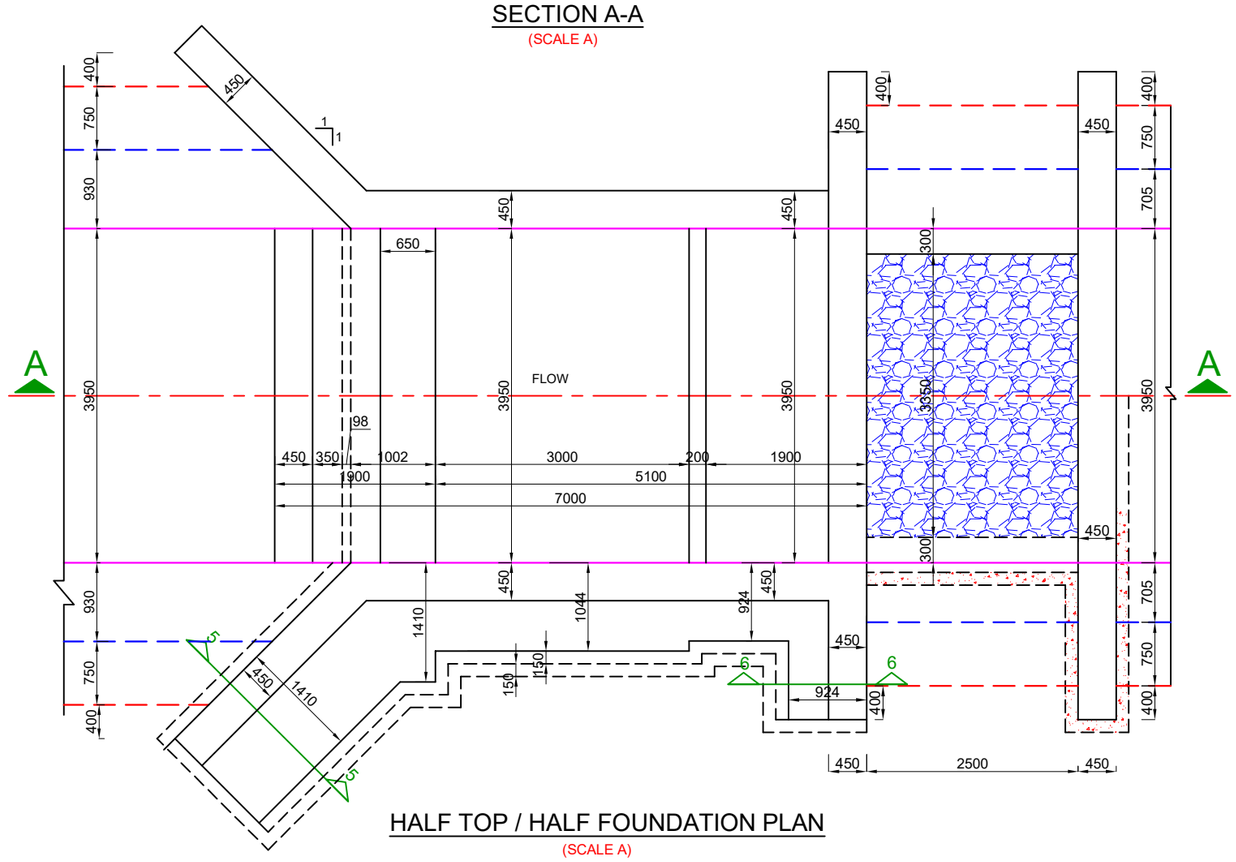
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	1.440	1.440	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.790	0.790	METRE
BED WIDTH	3.950	3.950	METRE
BED SLOPE	1 : 5000	1 : 5000	



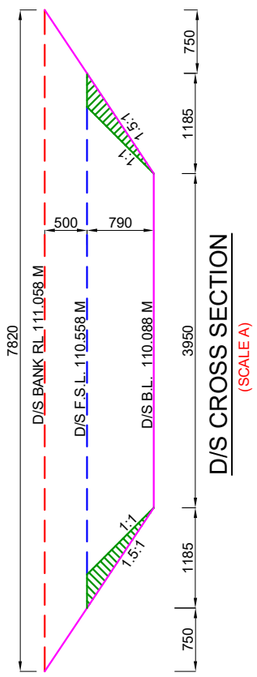
U/S CROSS SECTION

(SCALE A)



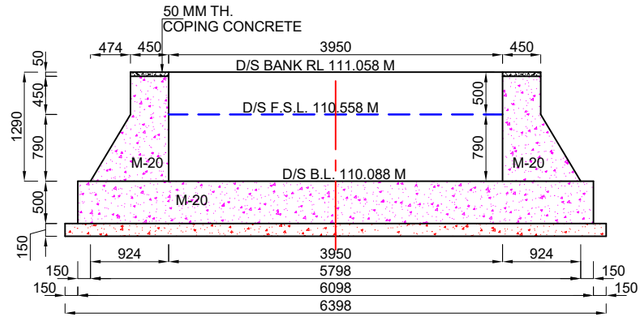
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



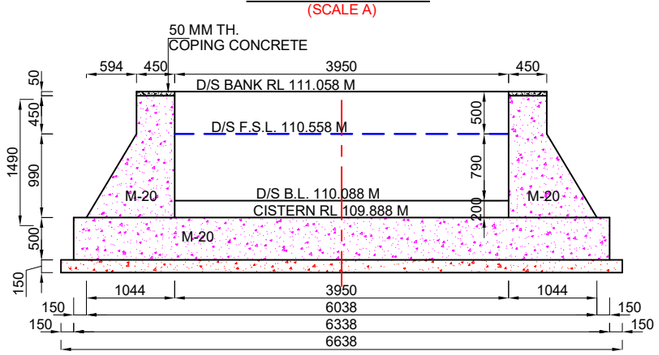
D/S CROSS SECTION

(SCALE A)



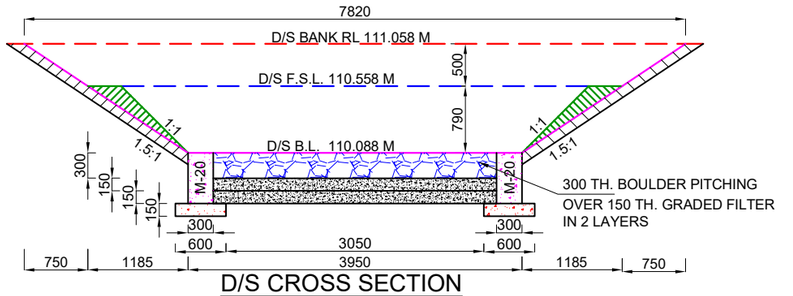
SECTION AT 3-3

(SCALE A)



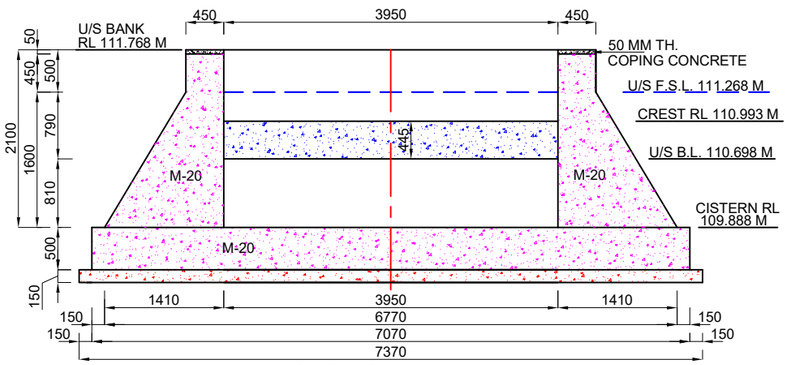
SECTION AT 2-2

(SCALE A)



D/S CROSS SECTION

(SCALE A)



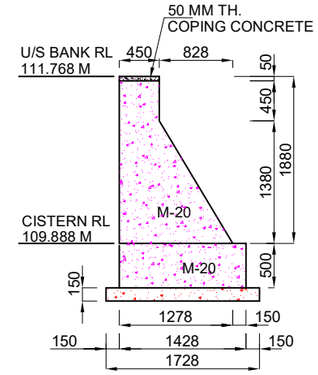
SECTION AT 1-1

(SCALE A)

SCALE A:-

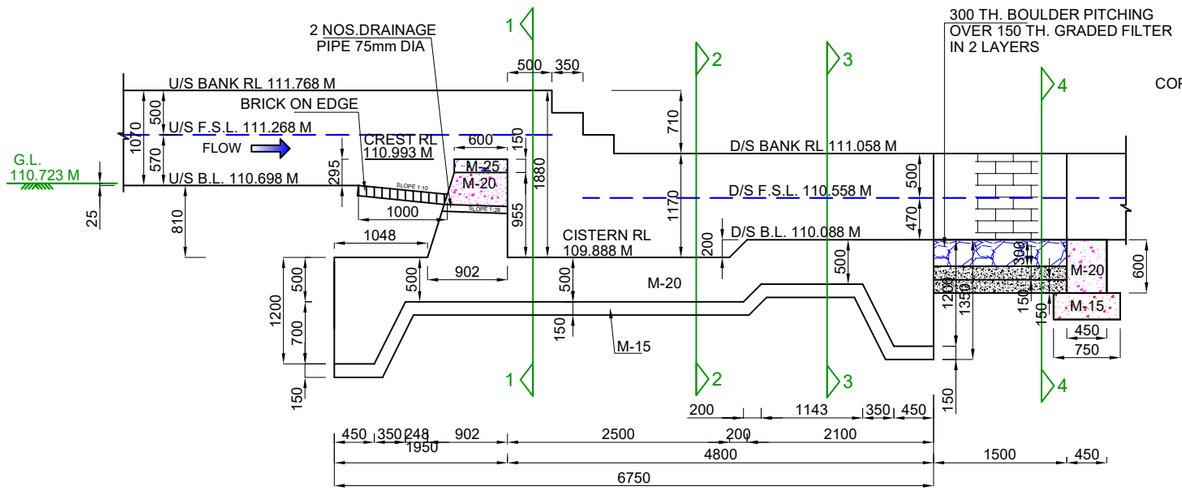
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 0.400 OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L),KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ FALL 1 of 1



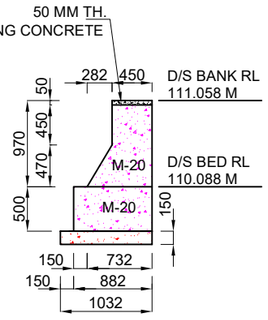
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

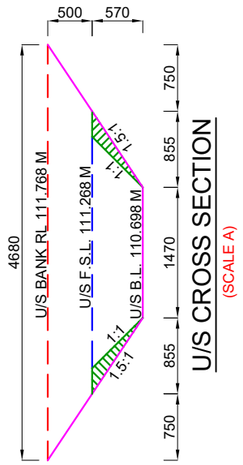
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

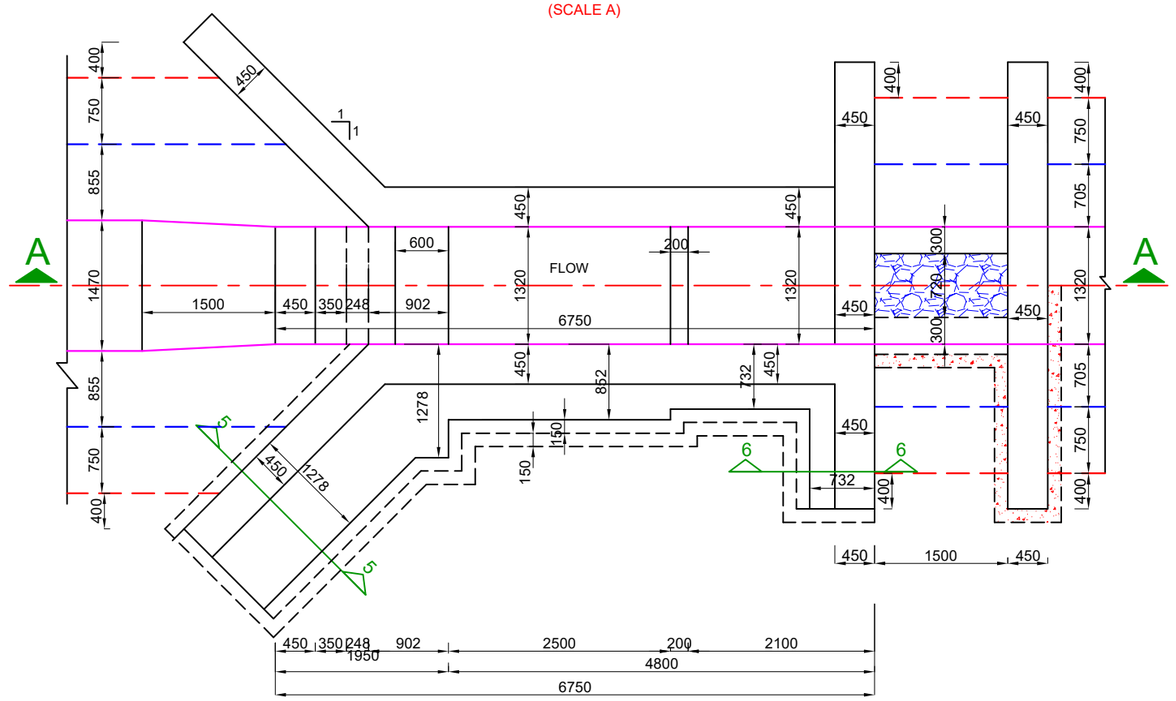
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.340	0.340	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.570	0.470	METRE
BED WIDTH	1.470	1.320	METRE
BED SLOPE	1 : 3500	1 : 3500	



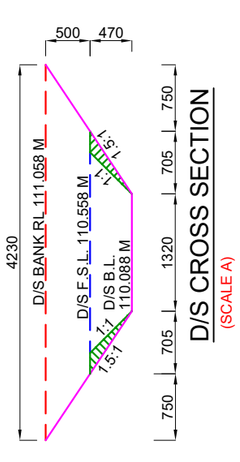
U/S CROSS SECTION

(SCALE A)



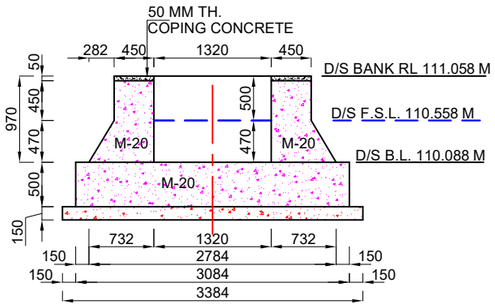
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



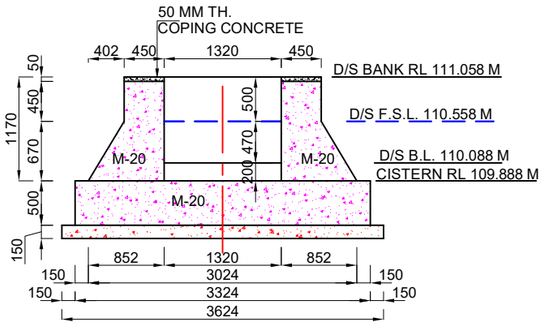
D/S CROSS SECTION

(SCALE A)



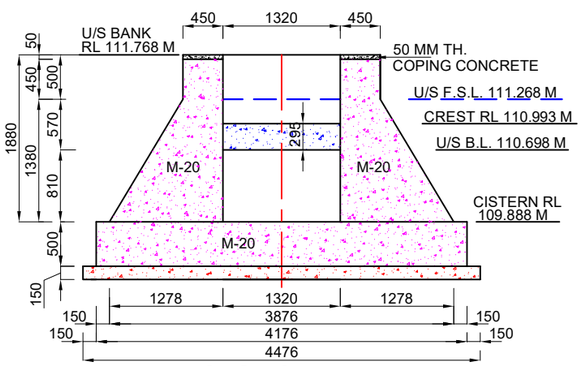
SECTION AT 3-3

(SCALE A)



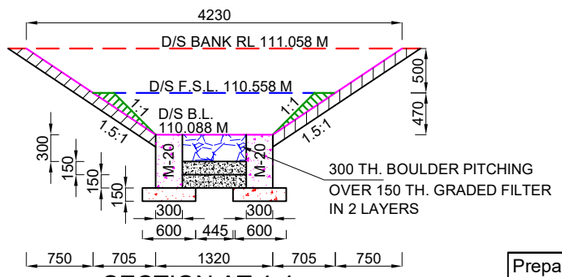
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



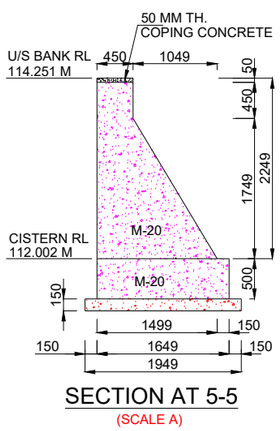
SECTION AT 4-4

(SCALE A)

SCALE A:-

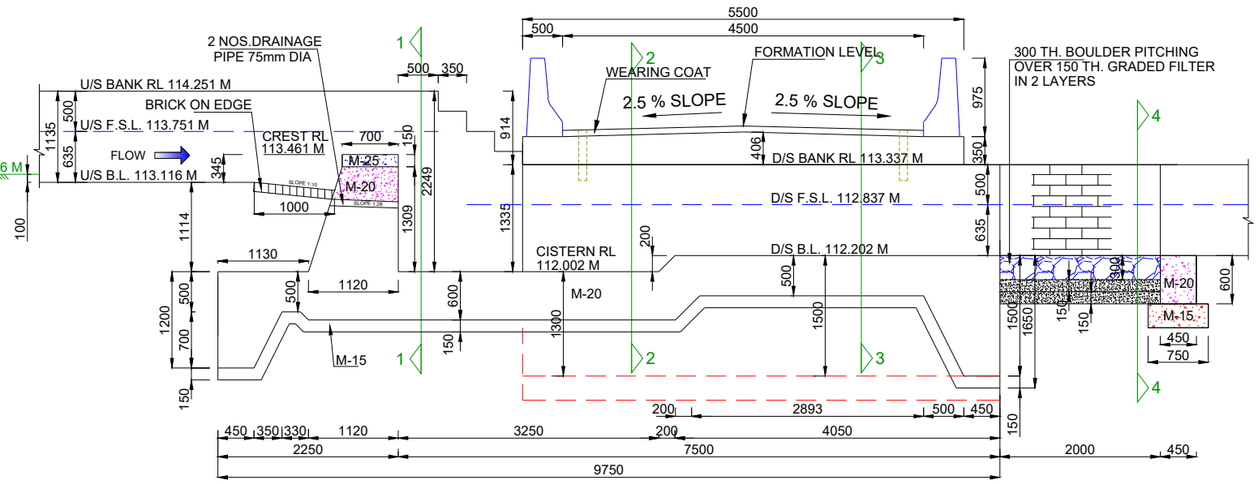
1000 0 1000 2000 3000

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 4.700 OF CHATARA SUB-DY. (OFFTAKE FROM RD - 15+240 KM. (L),KAPASIYA DISTRIBUTARY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07/ FALL 1 of 1



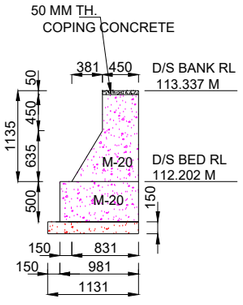
SECTION AT 5-5

(SCALE A)



SECTION A-A

(SCALE A)



SECTION AT 6-6

(SCALE A)

NOTES:-

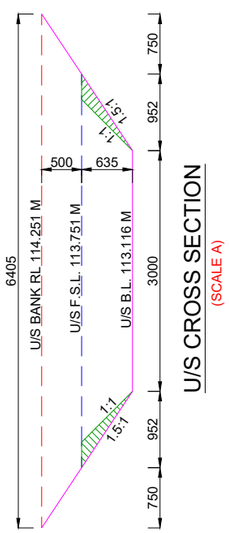
1. ALL DIMENSIONS ARE IN mm AND LEVELS IN METRES EXCEPT OTHERWISE MENTIONED.
2. THE DRAWING SHALL NOT BE SCALED OFF, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

PCC UNDER FLOOR	M 15
FOUNDATION OF ABUTMENTS & WING WALL	M 20
FLOOR	M 20
ABUTMENTS / WING WALLS	M 20
SLAB & DIRT WALL	M 25

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.

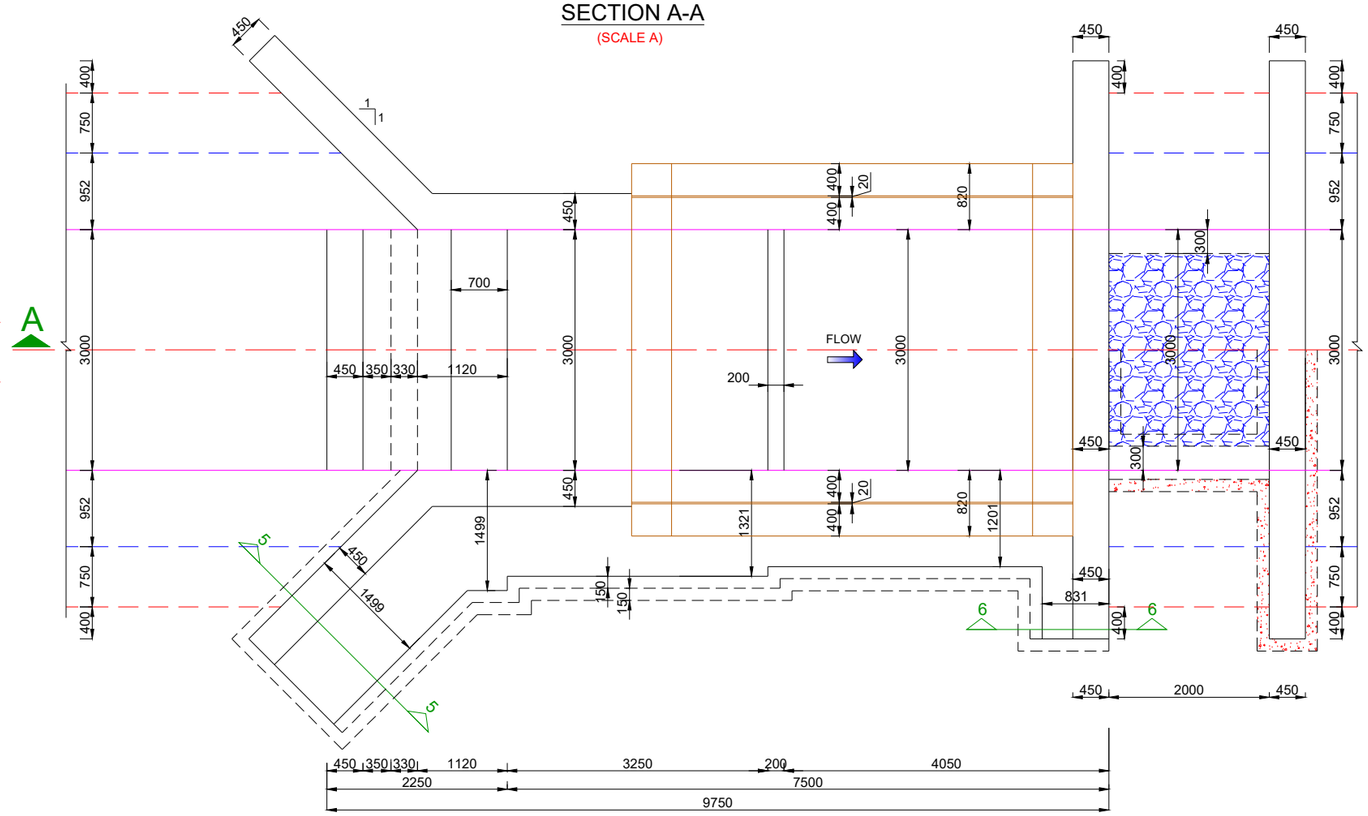
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.810	0.810	CUMEC
VERTICAL DROP	0.914	0.914	METRE
FULL SUPPLY DEPTH	0.635	0.635	METRE
BED WIDTH	3.000	3.000	METRE
BED SLOPE	1 : 4000	1 : 4000	



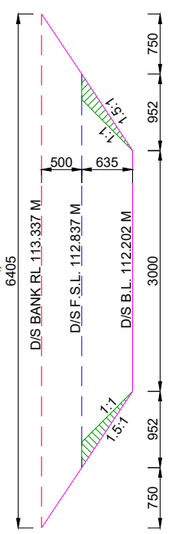
U/S CROSS SECTION

(SCALE A)



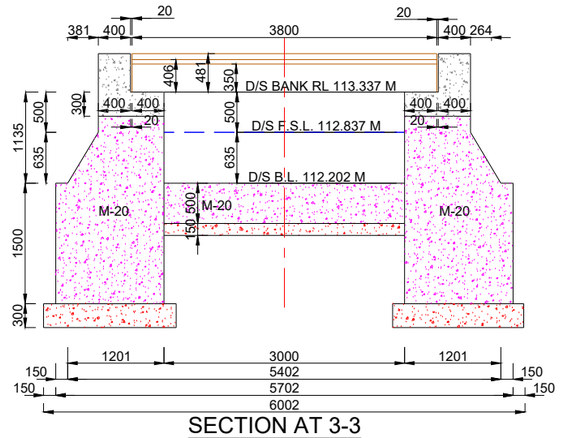
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



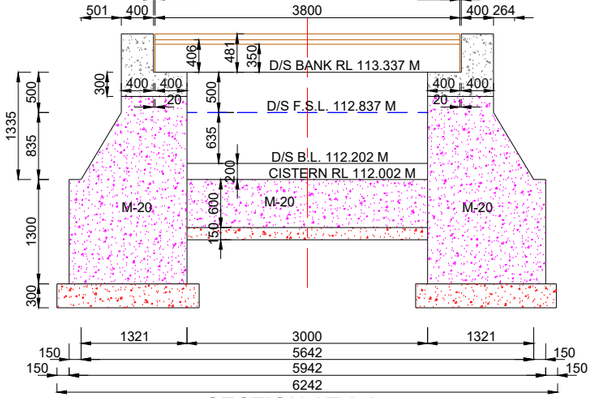
D/S CROSS SECTION

(SCALE A)



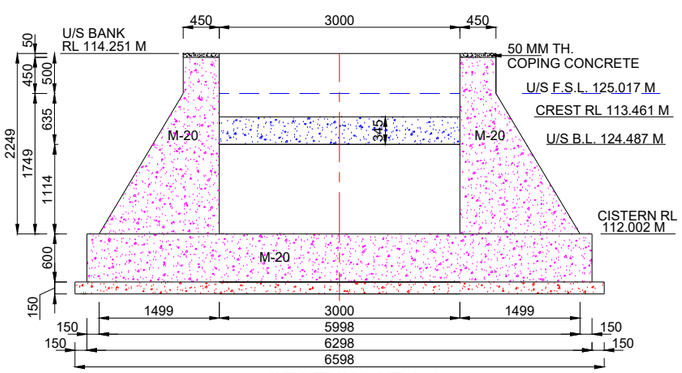
SECTION AT 3-3

(SCALE A)



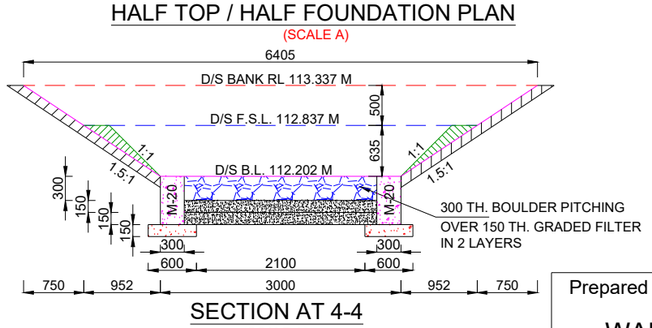
SECTION AT 2-2

(SCALE A)



SECTION AT 1-1

(SCALE A)



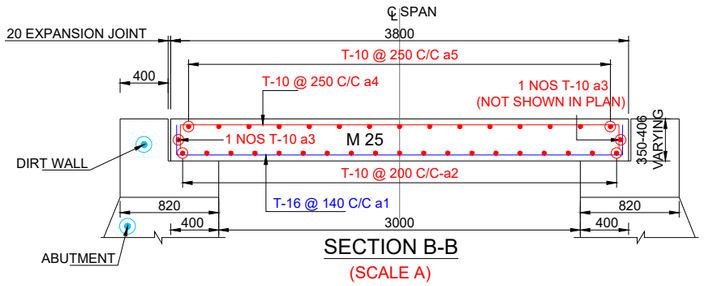
SECTION AT 4-4

(SCALE A)

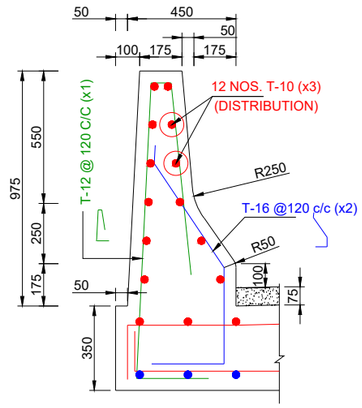
SCALE A:-

1000 0 1000 2000 3000

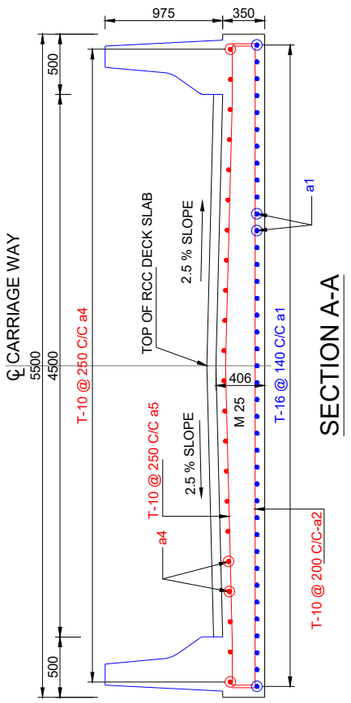
Prepared by :- WAPCOS LTD.	
Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
Drawing Title :-	SHARDA TYPE 0.914 M HT. FALL AT KM. 0.650 OF DABURA-I MR.
Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ FALL 1 of 2



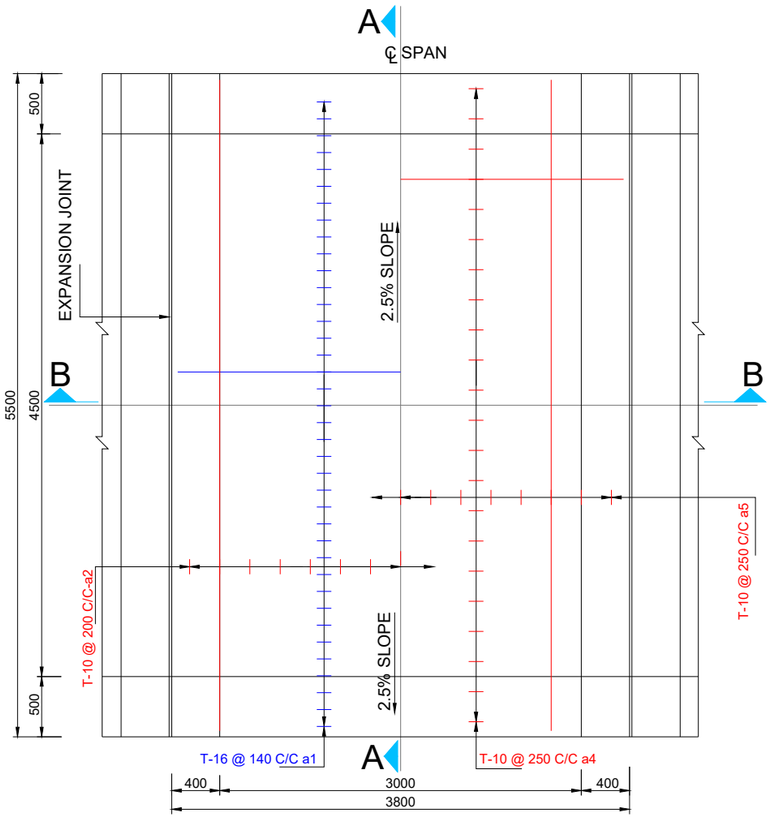
SECTION B-B
(SCALE A)



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 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 (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.
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.

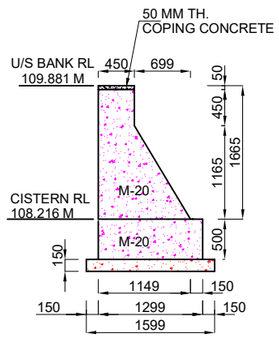
BAR BENDING SCHEDULE

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	250, R=80, 3700, 250	16	140	39
2	a2	250, R=50, 5400, 250	10	200	19
3	a3	5400	10	-	2
4	a4	3700, 250, R=40, 250	10	250	22
5	a5	250, 450, 2250, 2250, 450, 250	10	250	15

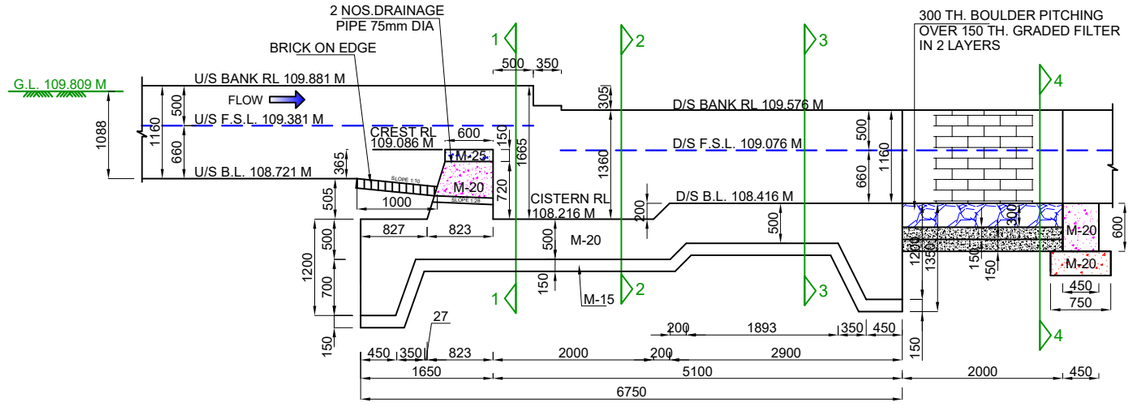
CRASH BARRIER					
1	x1	75, 1226, 950, 300	12	120	31X2
2	x2	75, 540, 400, 300	16	120	31X2
3	x3	3700	10	-	12X2

SCALE A:- 400 0 400 800 1200
SCALE B:- 200 0 200 400 600

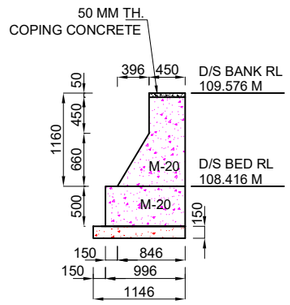
Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	REINFORCEMENT DETAILS OF SLAB FOR FALL CUM BRG. AT KM. 0.650 OF
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-07-01/ FALL 2 of 2



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.
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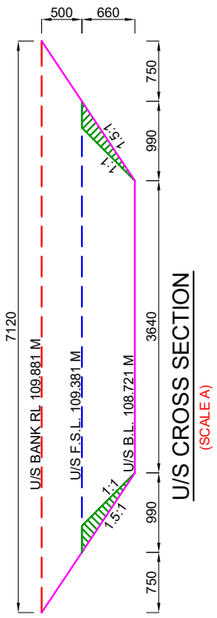
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

FLOOR	M 20
FOUNDATION OF ABUTMENTS & WING WALL	M 20
PCC UNDER FLOOR	M 15
ABUTMENTS / WING WALLS	M 20

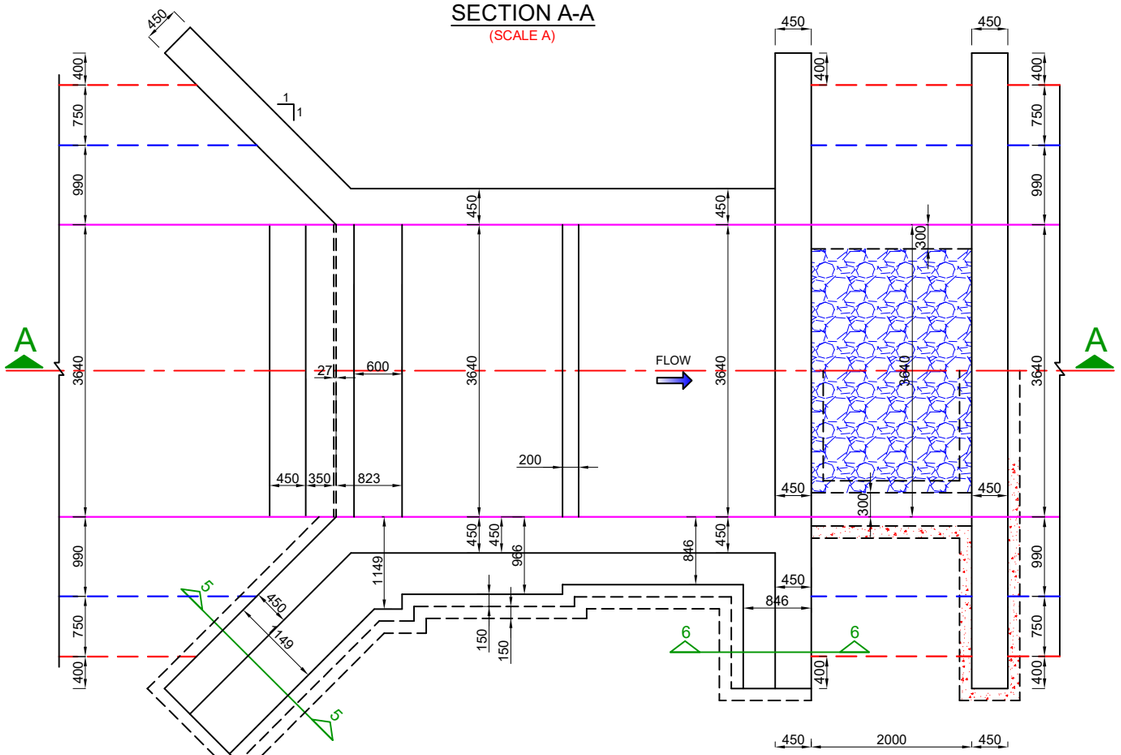
4. ANY OVER DIGGING SHALL BE FILLED BY CONCRETE 1:3:6 GRADE.
5. SKIN REINFORCEMENT SHALL BE PROVIDED IN FLOOR AND ABUTMENT OF 12 MM DIA BARS @ 250 MM.

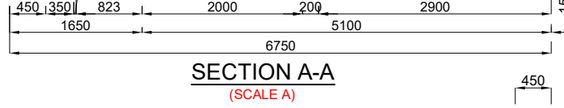
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	1.060	1.060	CUMEC
VERTICAL DROP	0.305	0.305	METRE
FULL SUPPLY DEPTH	0.660	0.660	METRE
BED WIDTH	3.640	3.640	METRE
BED SLOPE	1 : 4000	1 : 4000	

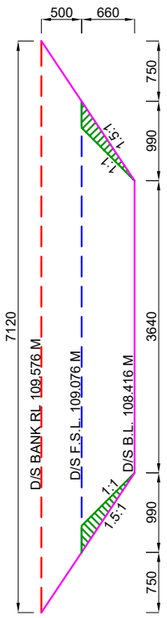


U/S CROSS SECTION
(SCALE A)

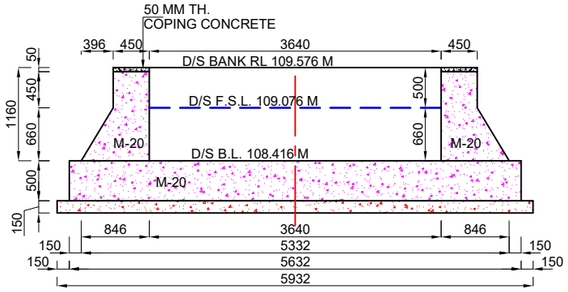




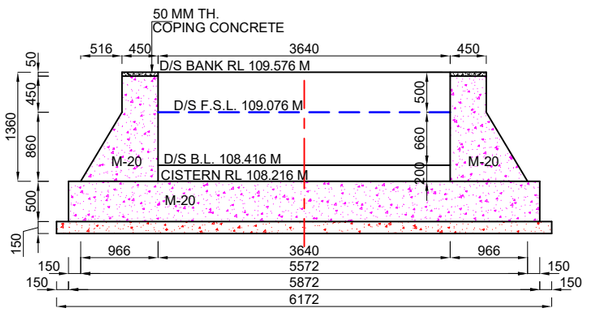
HALF TOP / HALF FOUNDATION PLAN
(SCALE A)



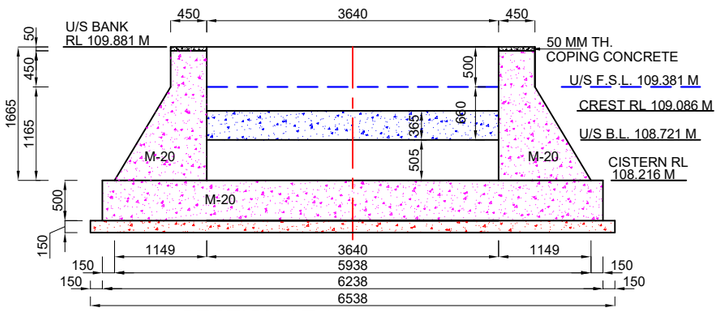
D/S CROSS SECTION
(SCALE A)



SECTION AT 3-3
(SCALE A)



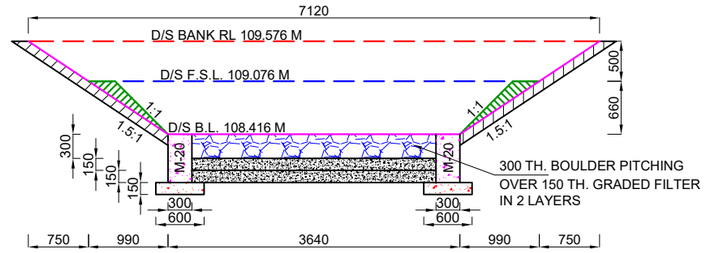
SECTION AT 2-2
(SCALE A)



SECTION AT 1-1
(SCALE A)

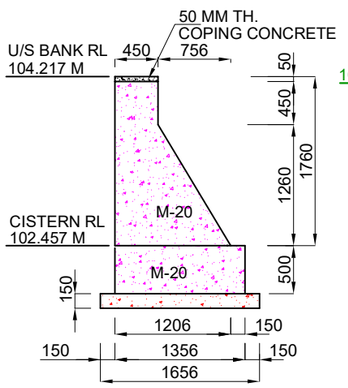
SCALE A:-

1000 0 1000 2000 3000



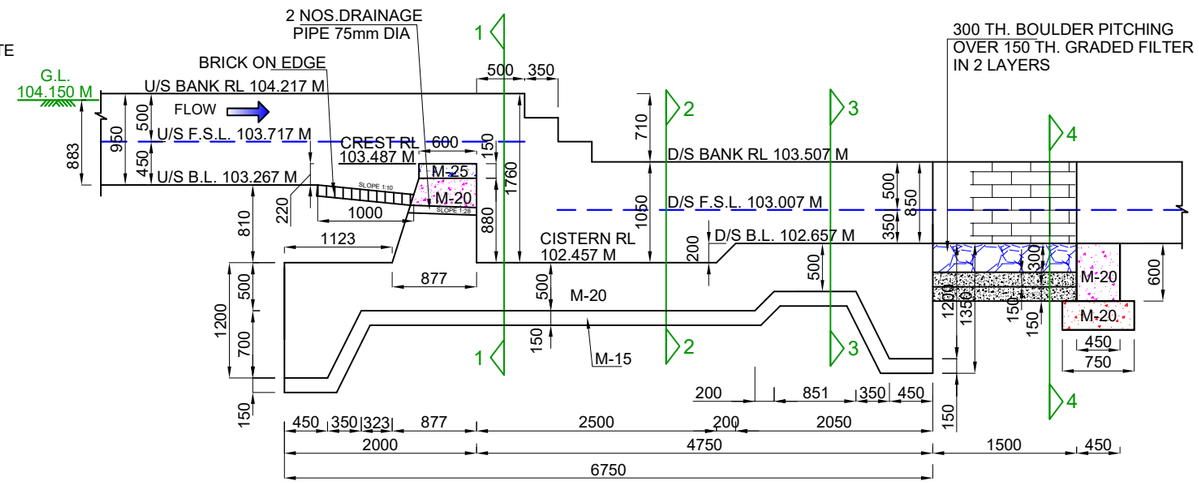
SECTION AT 4-4
(SCALE A)

Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.305 M HT. FALL AT KM. 0.225 OF AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ FALL 1 of 1



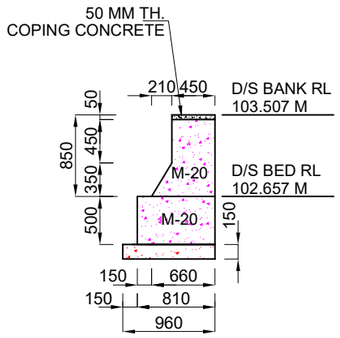
SECTION AT 5-5

(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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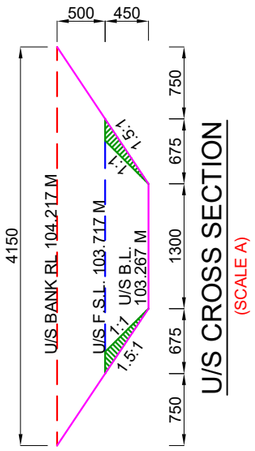
3. ALL CONCRETE WORK SHALL CONFORM TO IS: 456 -2000. GRADE OF CONCRETE IN DIFFERENT COMPONENTS SHALL BE AS FOLLOWS,

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.

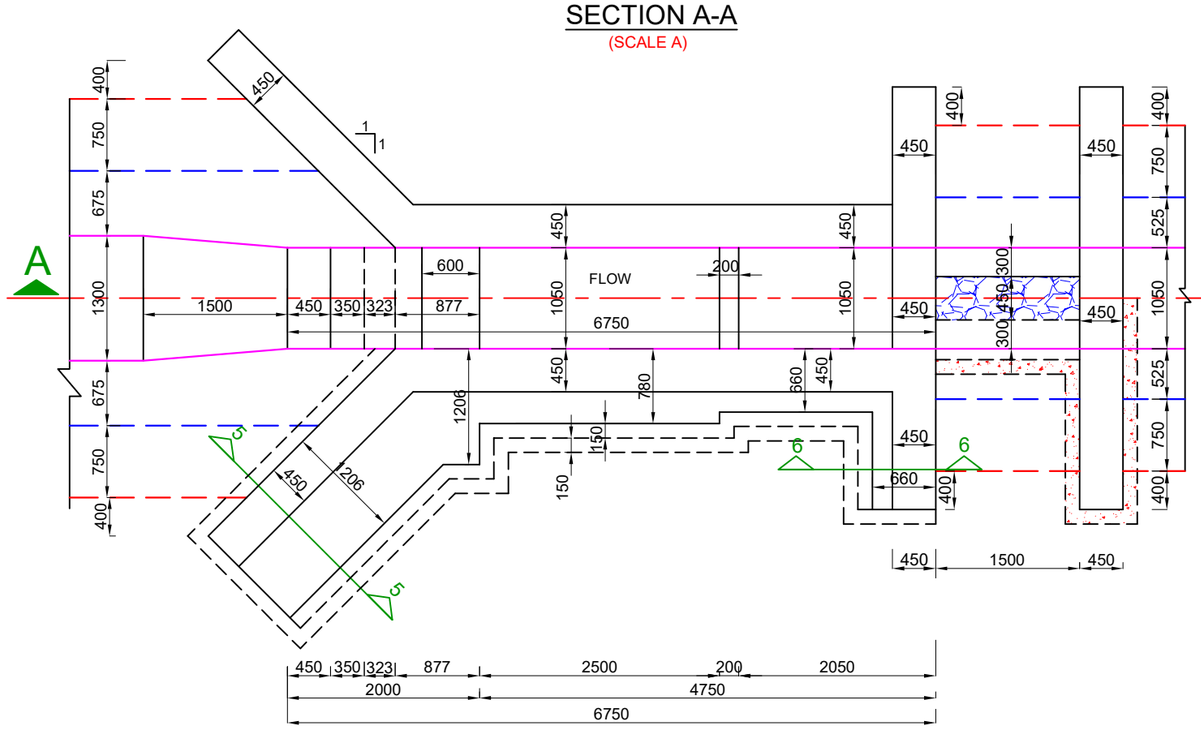
HYDRAULIC:- DATA

	U/S	D/S	UNIT
FULL SUPPLY DISCHARGE	0.200	0.200	CUMEC
VERTICAL DROP	0.610	0.610	METRE
FULL SUPPLY DEPTH	0.450	0.350	METRE
BED WIDTH	1.300	1.050	METRE
BED SLOPE	1 : 3800	1 : 3800	



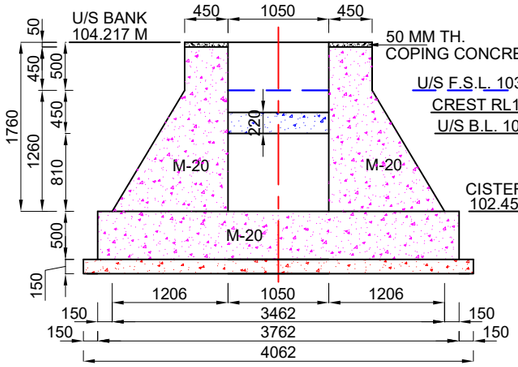
U/S CROSS SECTION

(SCALE A)



D/S CROSS SECTION

(SCALE A)

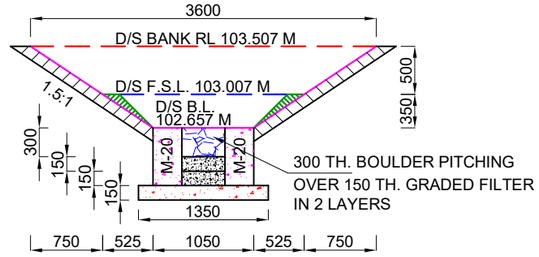


SECTION AT 1-1

(SCALE A)

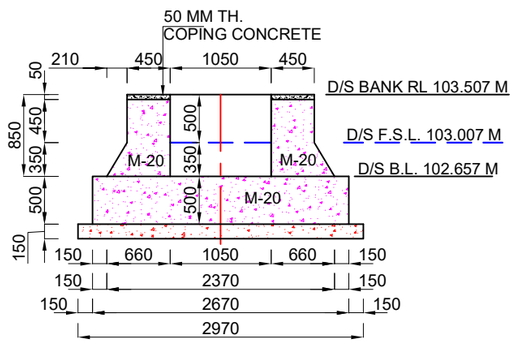
HALF TOP / HALF FOUNDATION PLAN

(SCALE A)



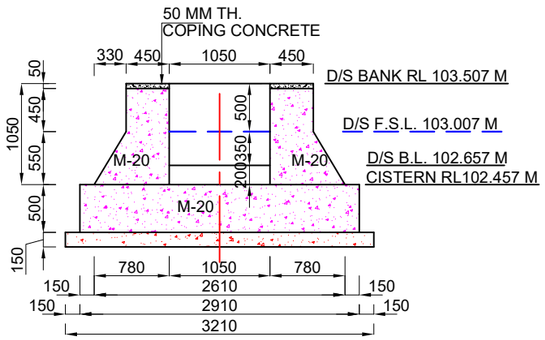
SECTION AT 4-4

(SCALE A)



SECTION AT 3-3

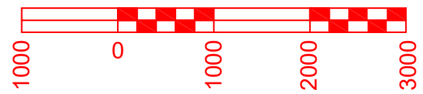
(SCALE A)



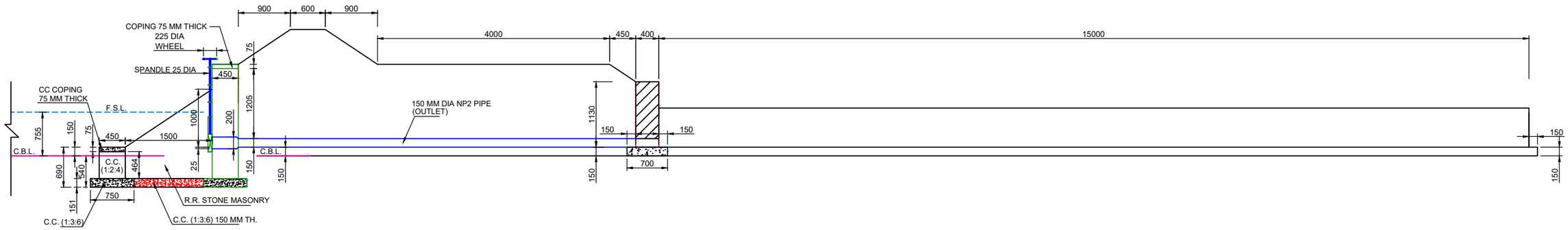
SECTION AT 2-2

(SCALE A)

SCALE A:-

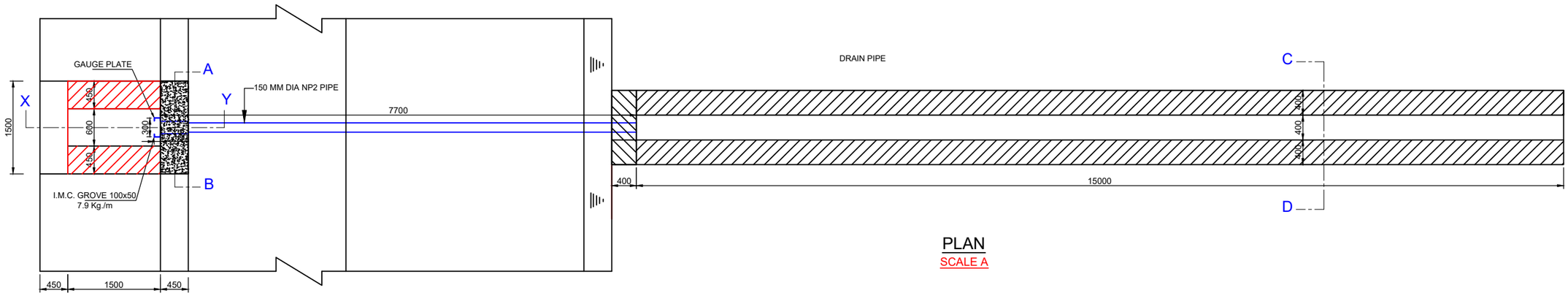


Prepared by :- WAPCOS LTD.	Project Title :-	NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND
	Drawing Title :-	SHARDA TYPE 0.610 M HT. FALL AT KM. 4.950 OF AKAUNA MR. (OFFTAKE FROM RD - 18+360 KM. (TAIL), KAPASIYA DY CANAL)
	Drawing No. :-	WAP/ INFRA/ NORTHKOEL/ BC/ R-21-08/ FALL 1 of 1

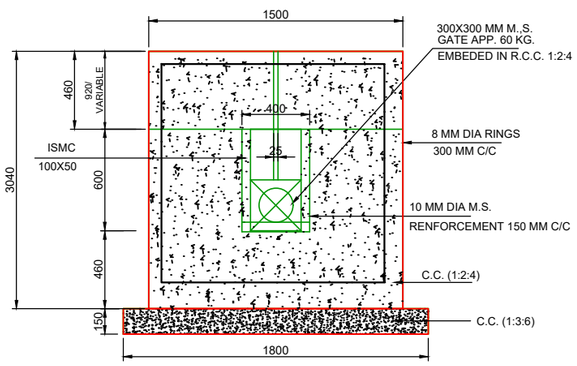


SECTION X-Y
SCALE A

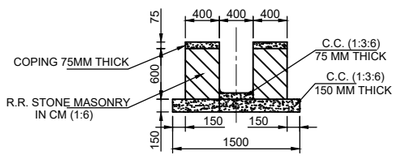
ELEVATION
SCALE A



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:-