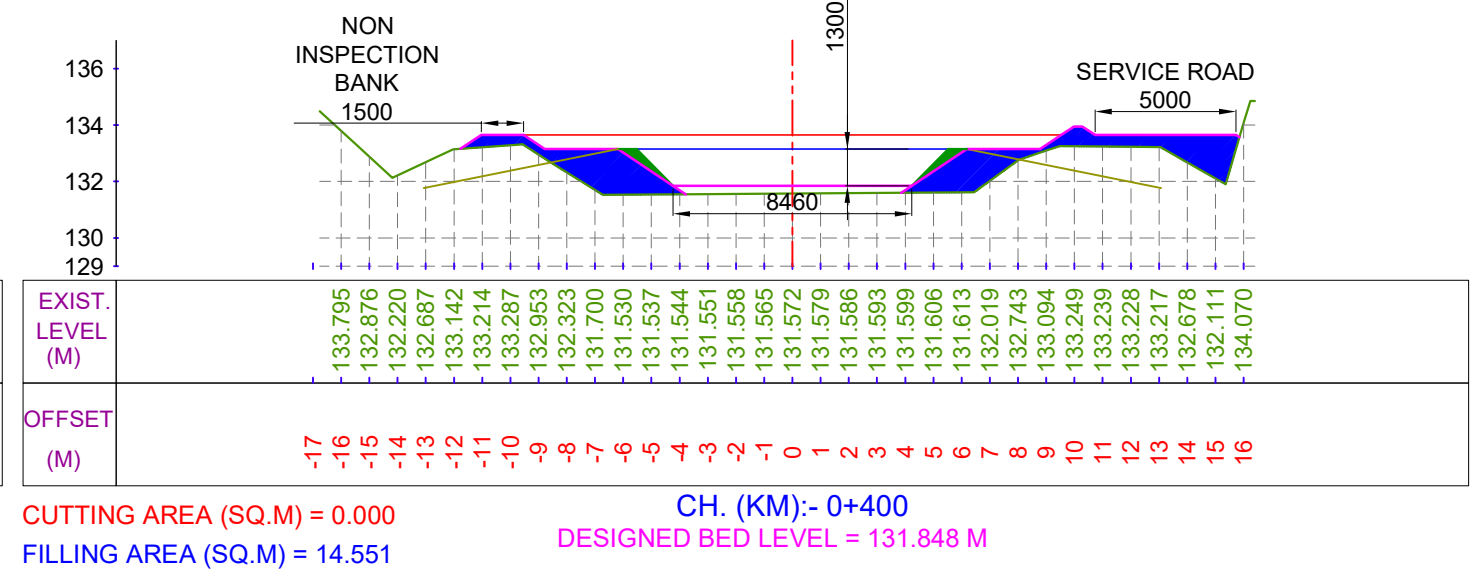
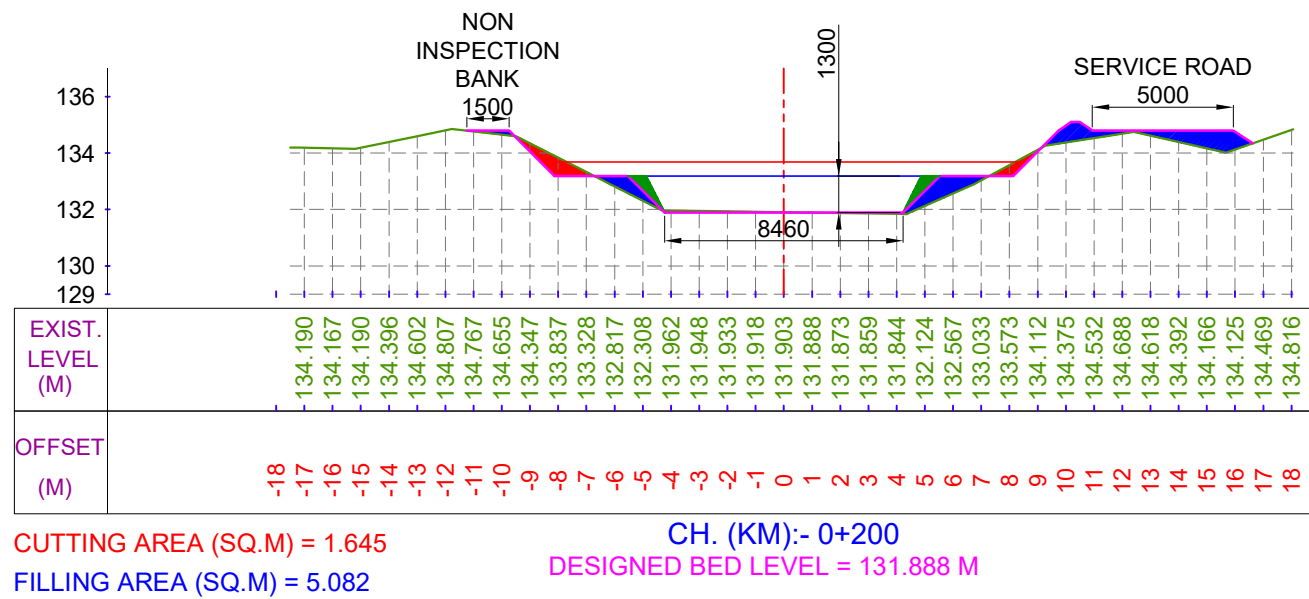
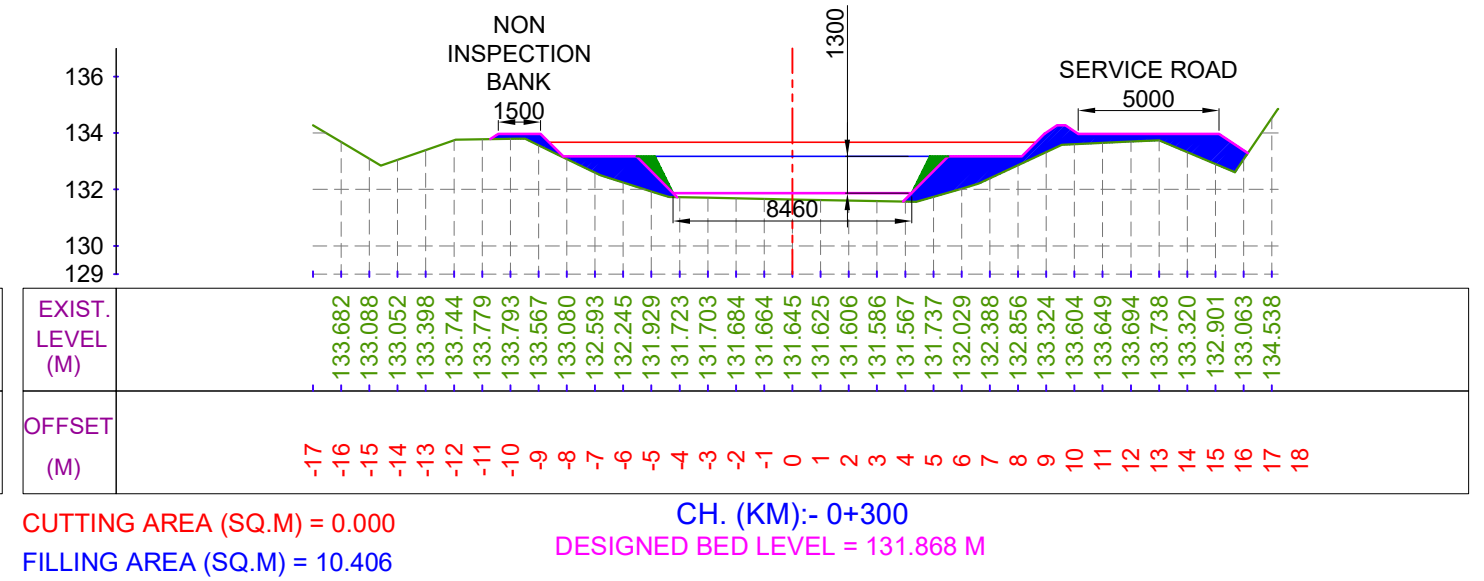
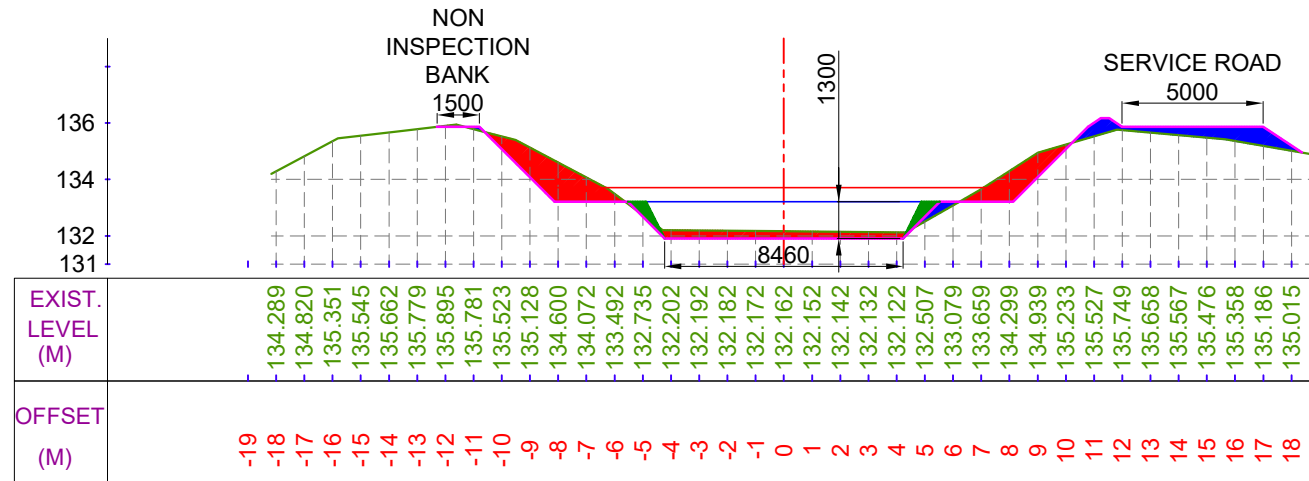


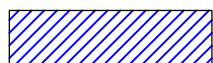
CROSS-SECTION



LEGEND



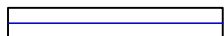
CUT AREA



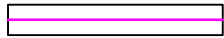
FILL AREA



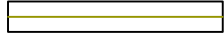
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

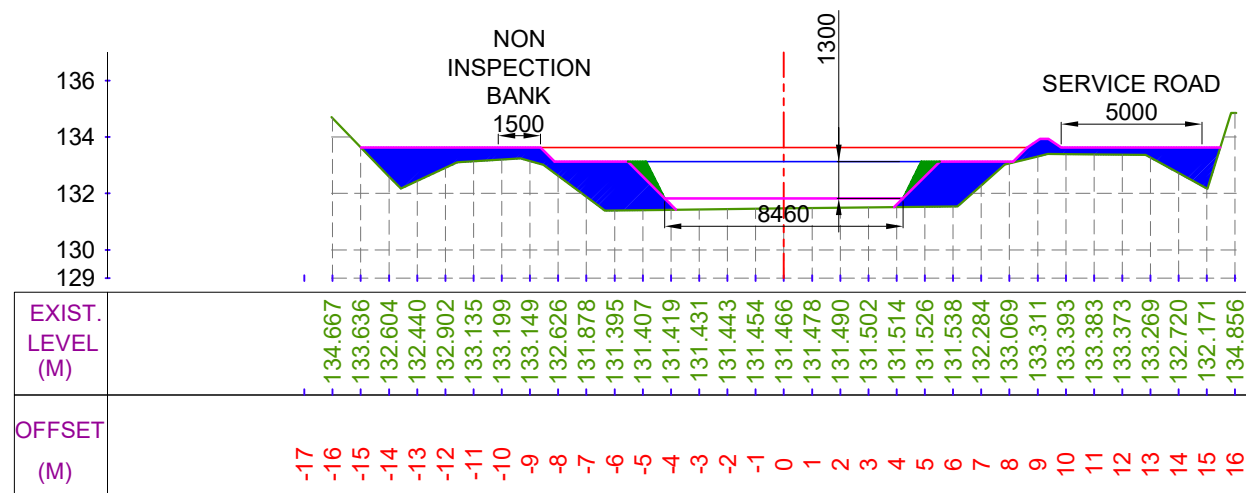
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

1 of 77

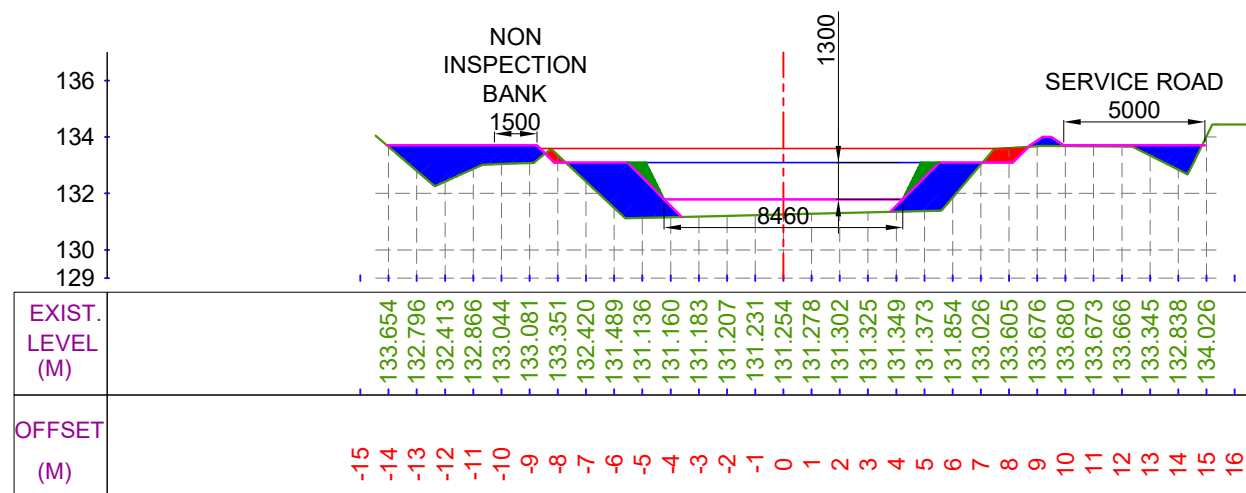


CUTTING AREA (SQ.M) = 0.000

FILLING AREA (SQ.M) = 16.805

CH. (KM):- 0+500

DESIGNED BED LEVEL = 131.828 M

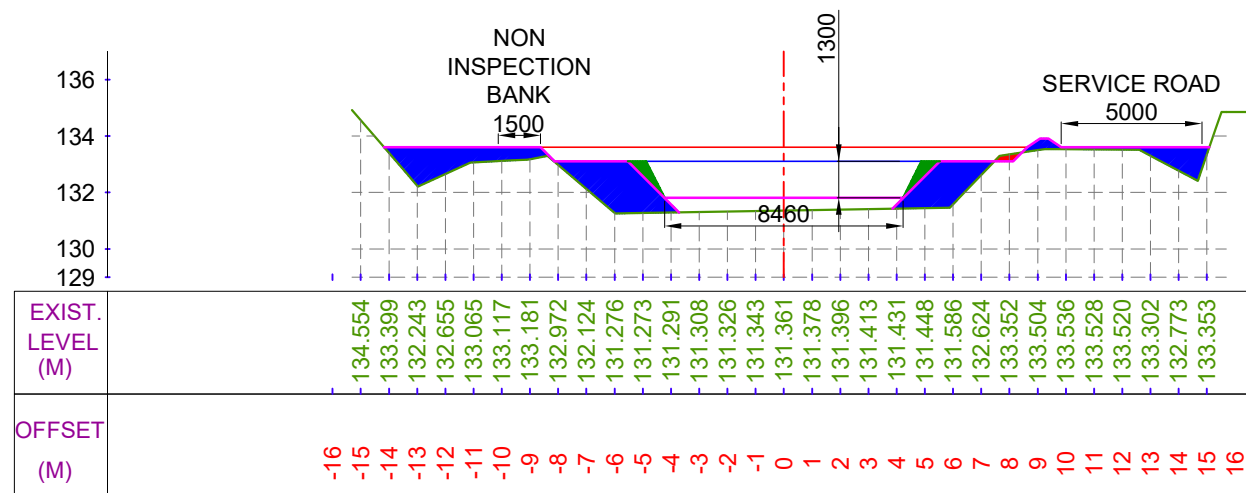


CUTTING AREA (SQ.M) = 0.744

FILLING AREA (SQ.M) = 12.934

CH. (KM):- 0+700

DESIGNED BED LEVEL = 131.788 M

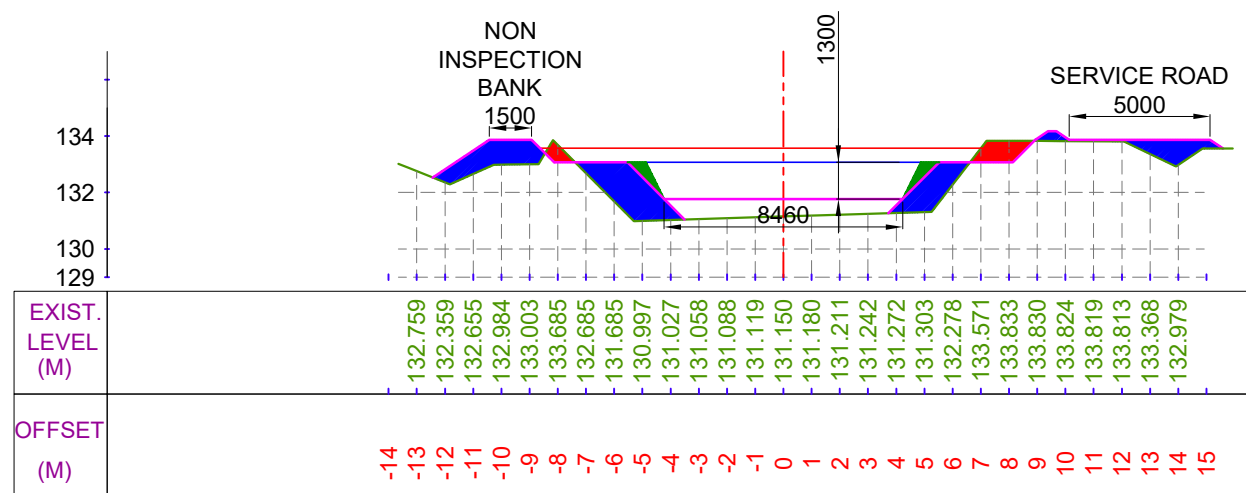


CUTTING AREA (SQ.M) = 0.167

FILLING AREA (SQ.M) = 13.850

CH. (KM):- 0+600

DESIGNED BED LEVEL = 131.808 M



CUTTING AREA (SQ.M) = 1.644

FILLING AREA (SQ.M) = 11.015

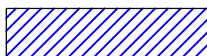
CH. (KM):- 0+800

DESIGNED BED LEVEL = 131.768 M

LEGEND



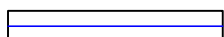
CUT AREA



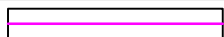
FILL AREA



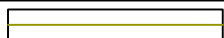
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

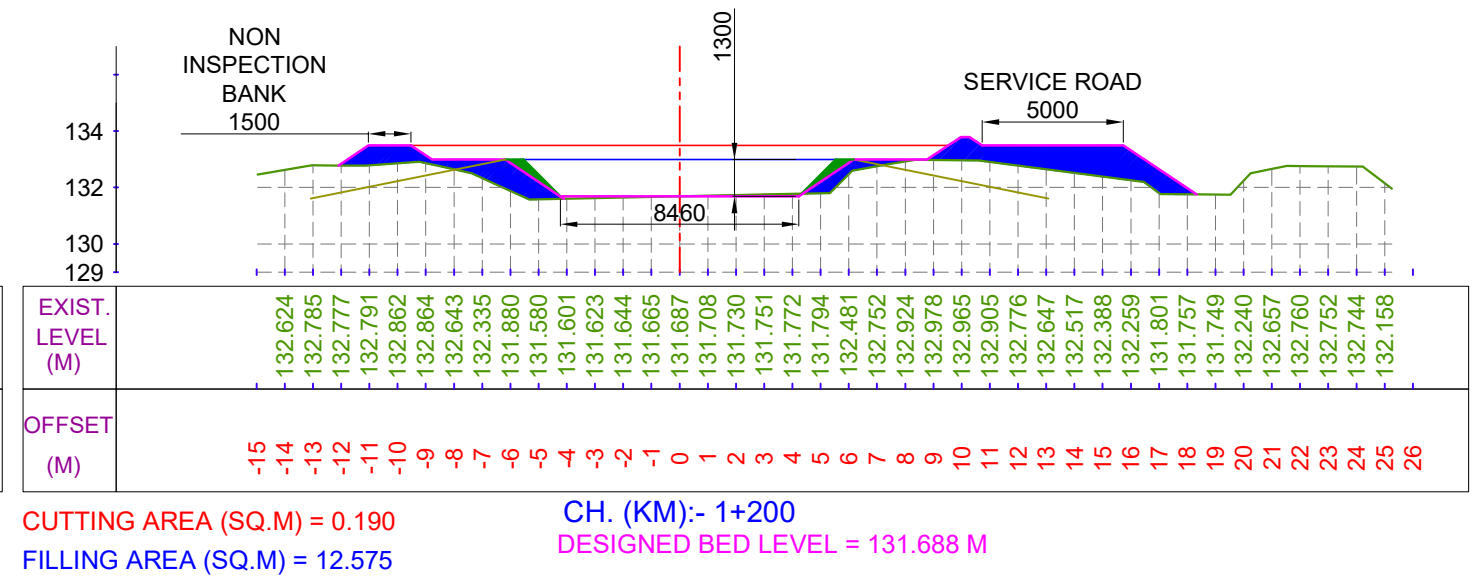
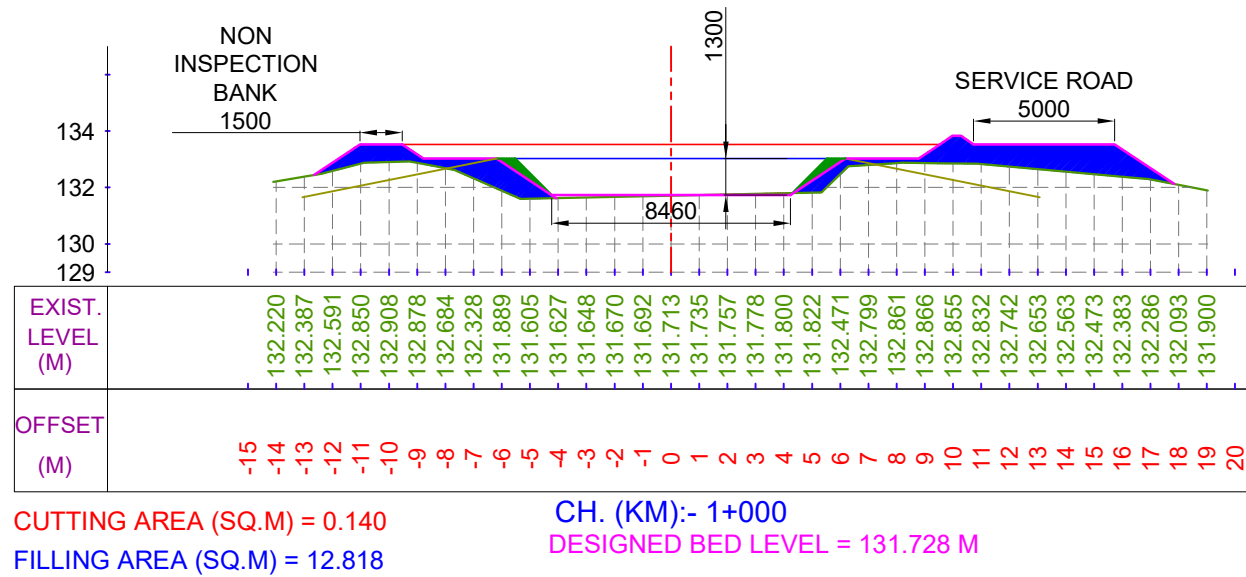
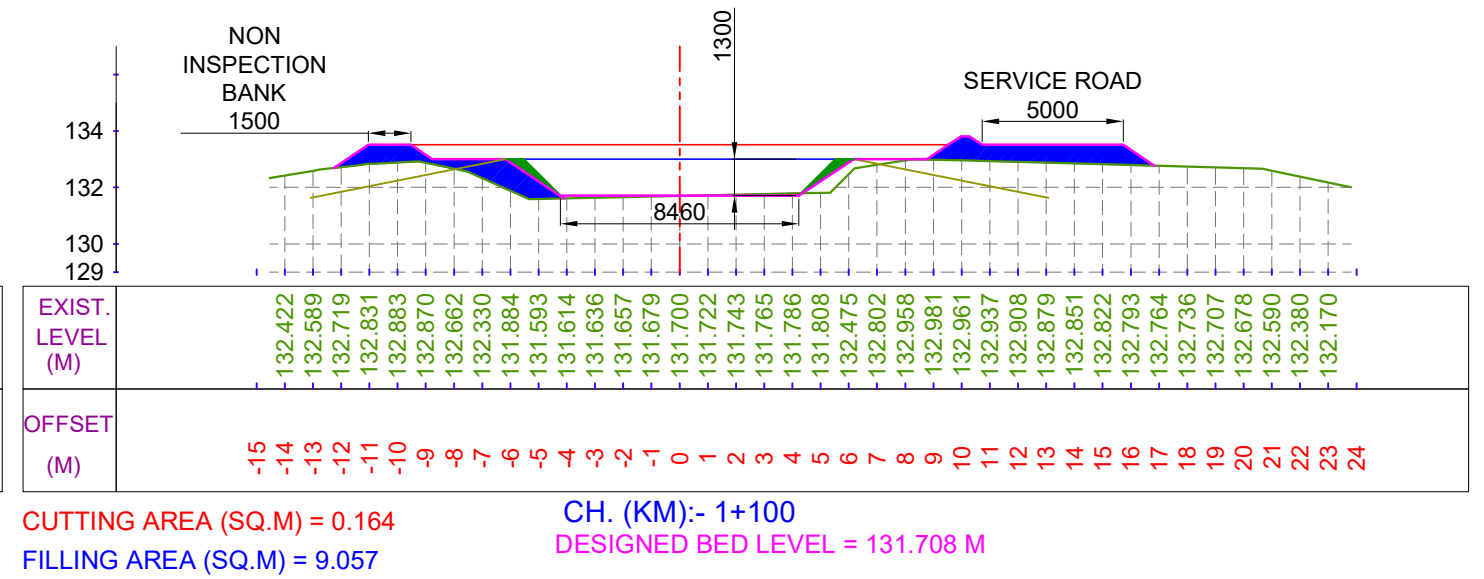
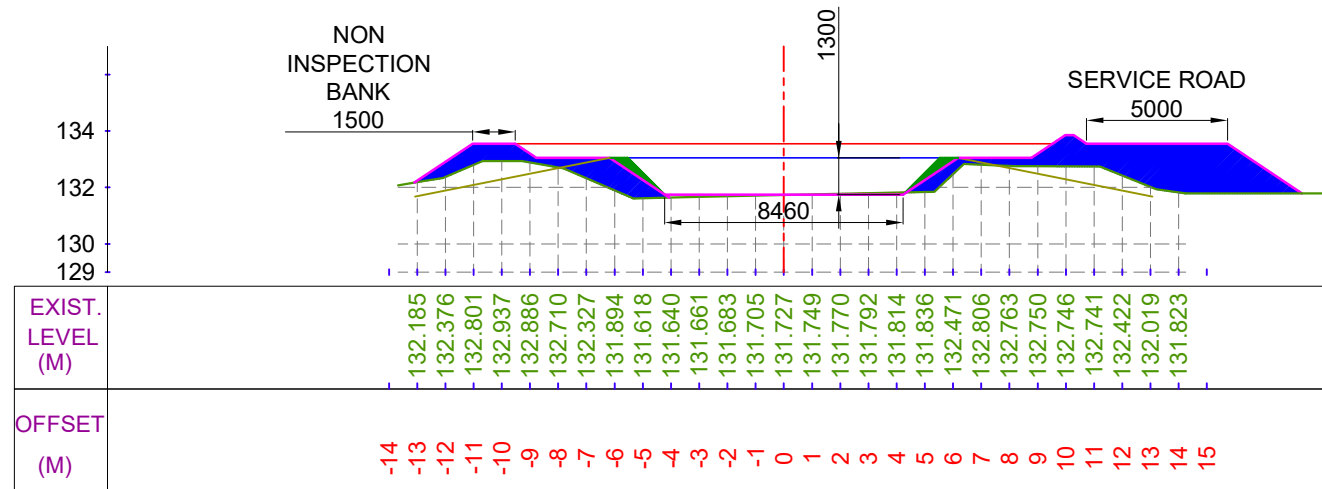
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

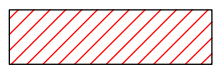
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

2 of 77



LEGEND



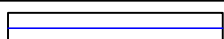
CUT AREA



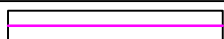
FILL AREA



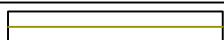
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

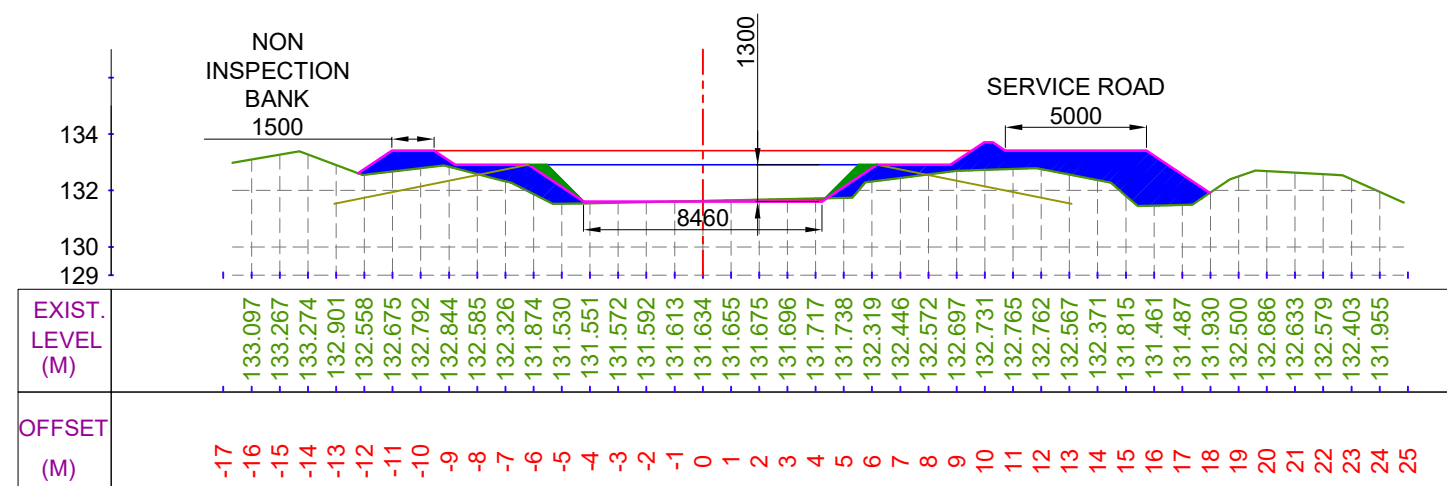
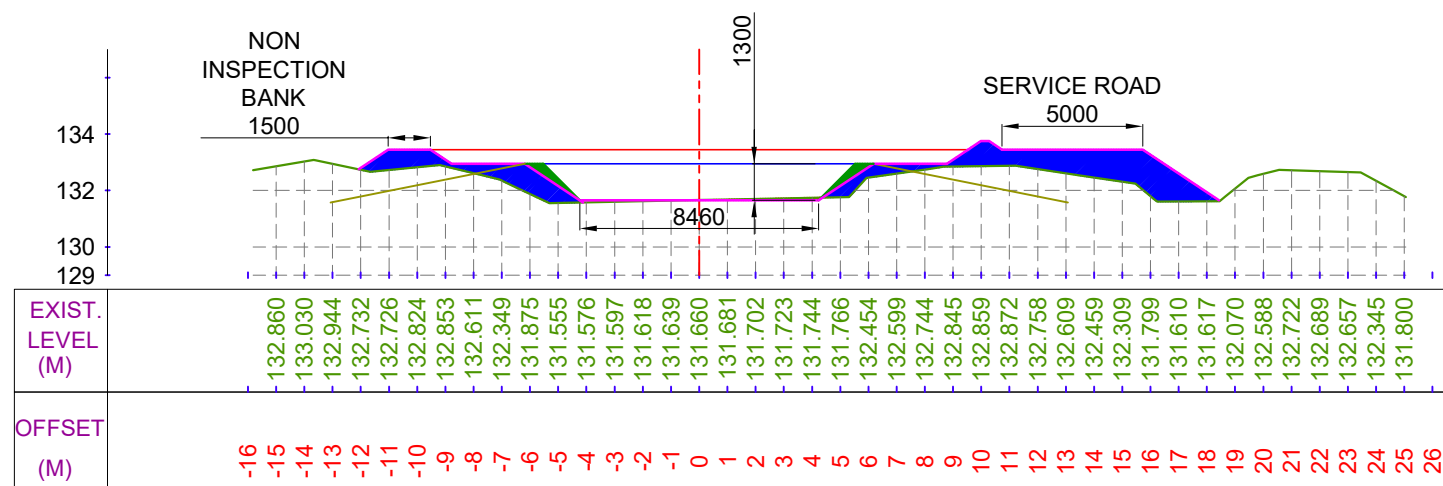
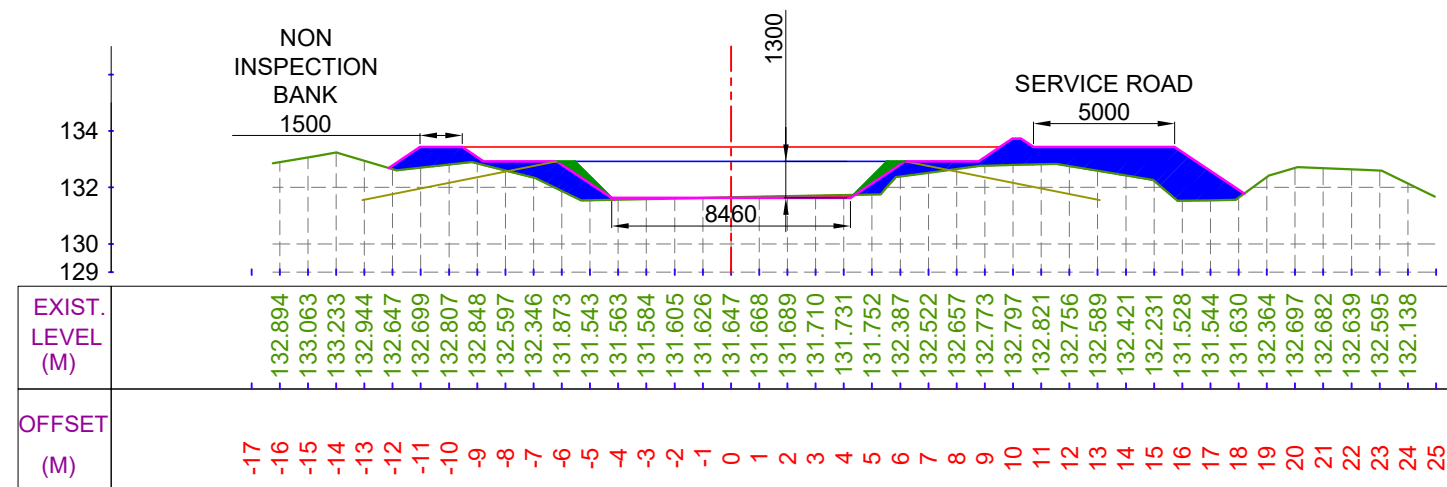
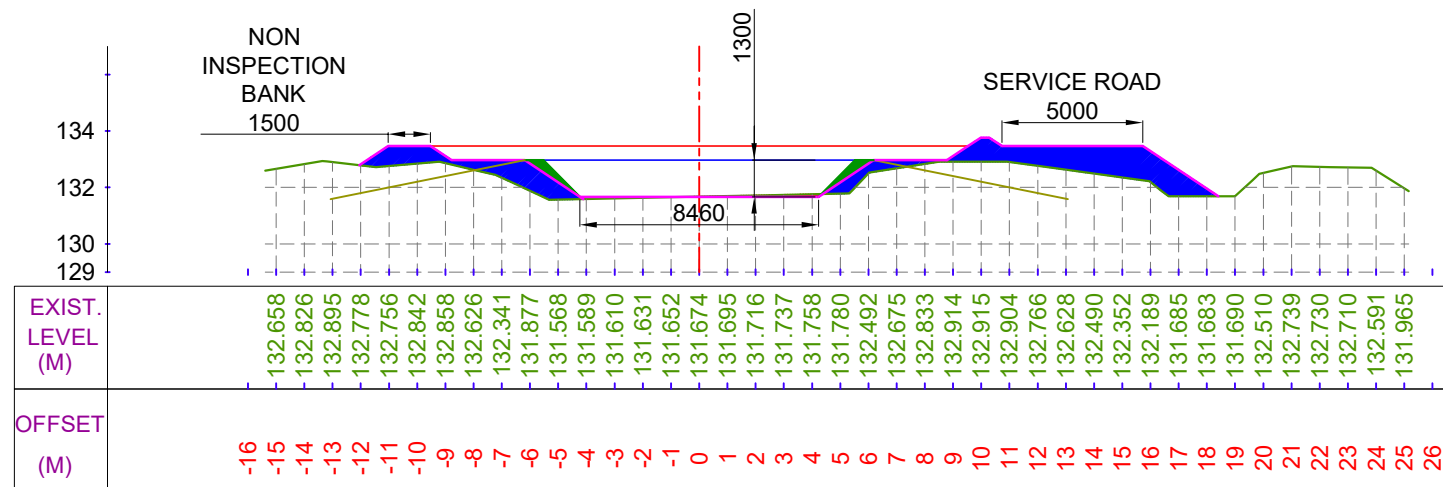
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

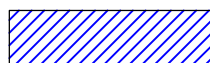
3 of 77



LEGEND



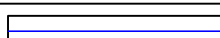
CUT AREA



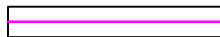
FILL AREA



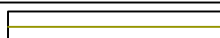
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

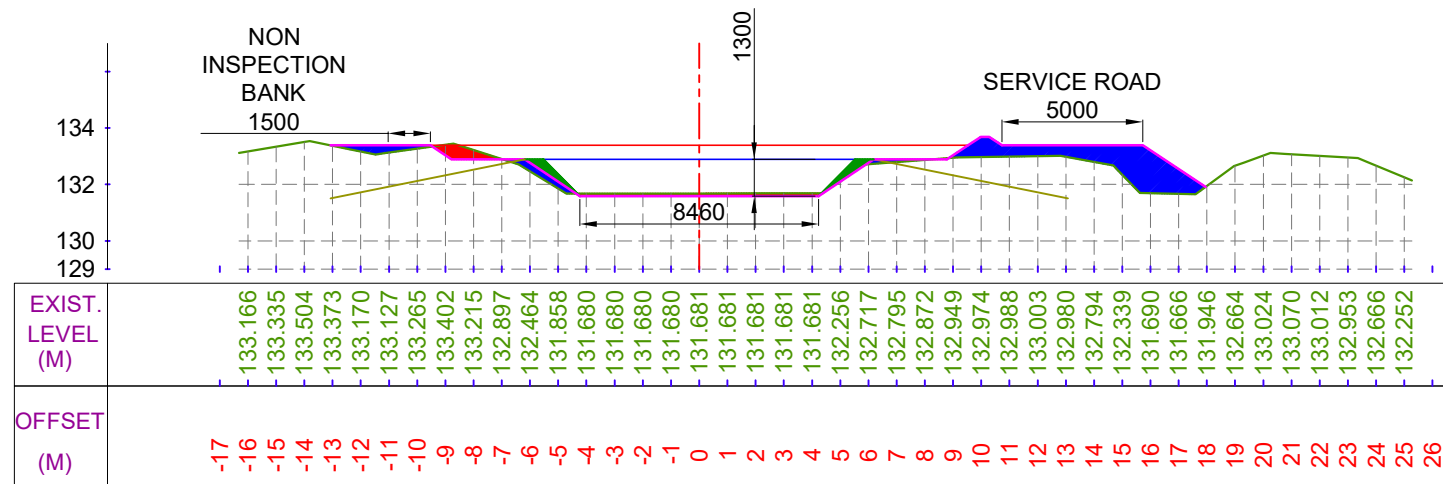
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

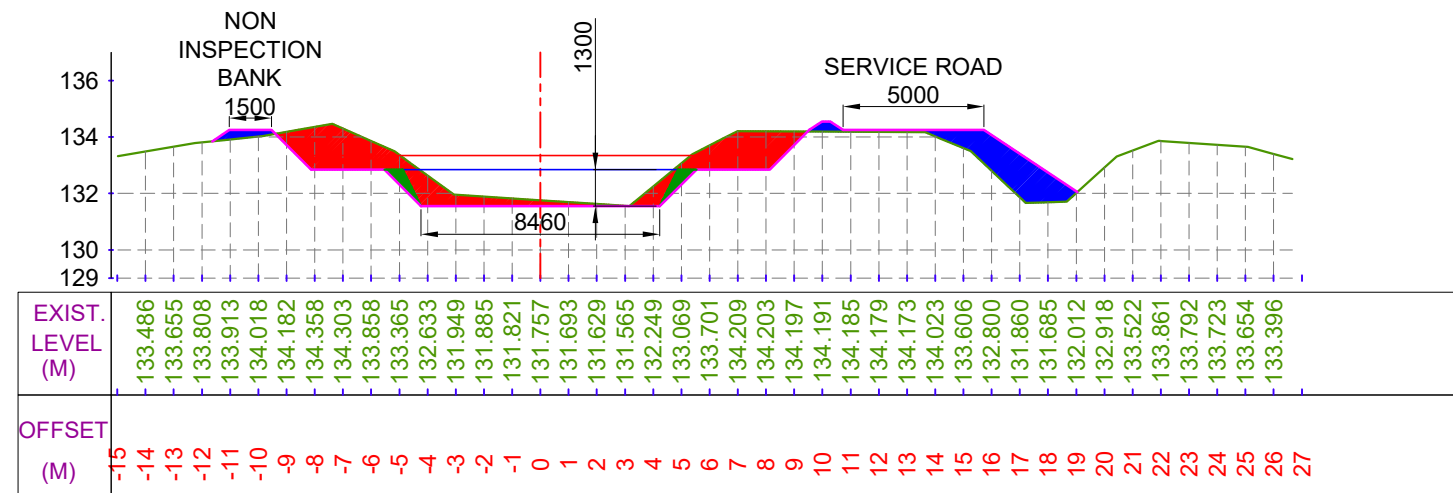
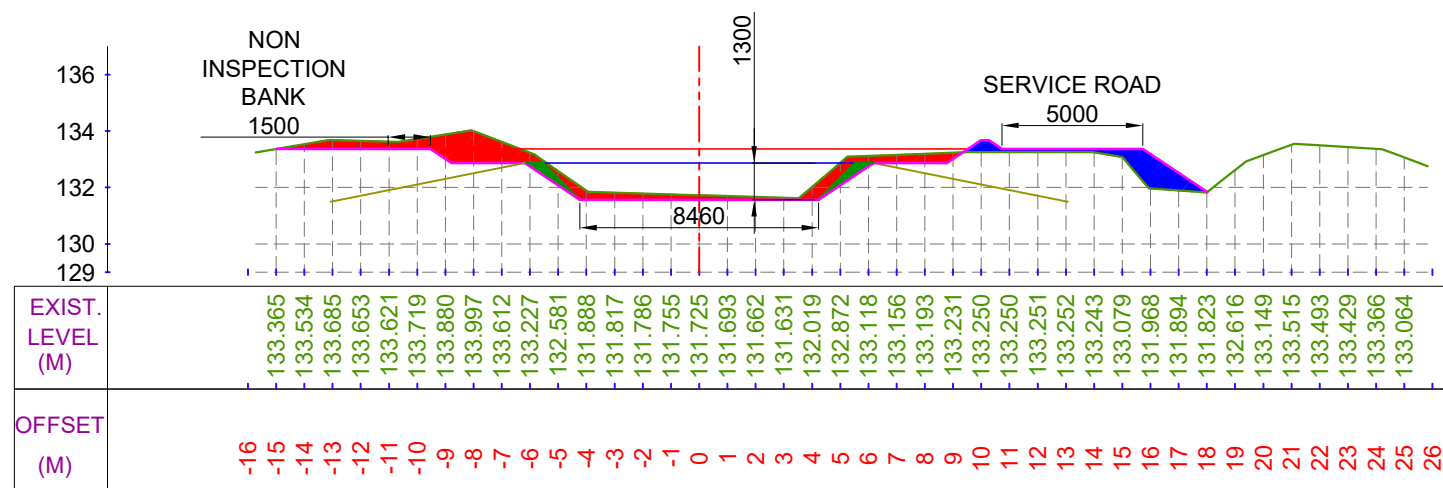
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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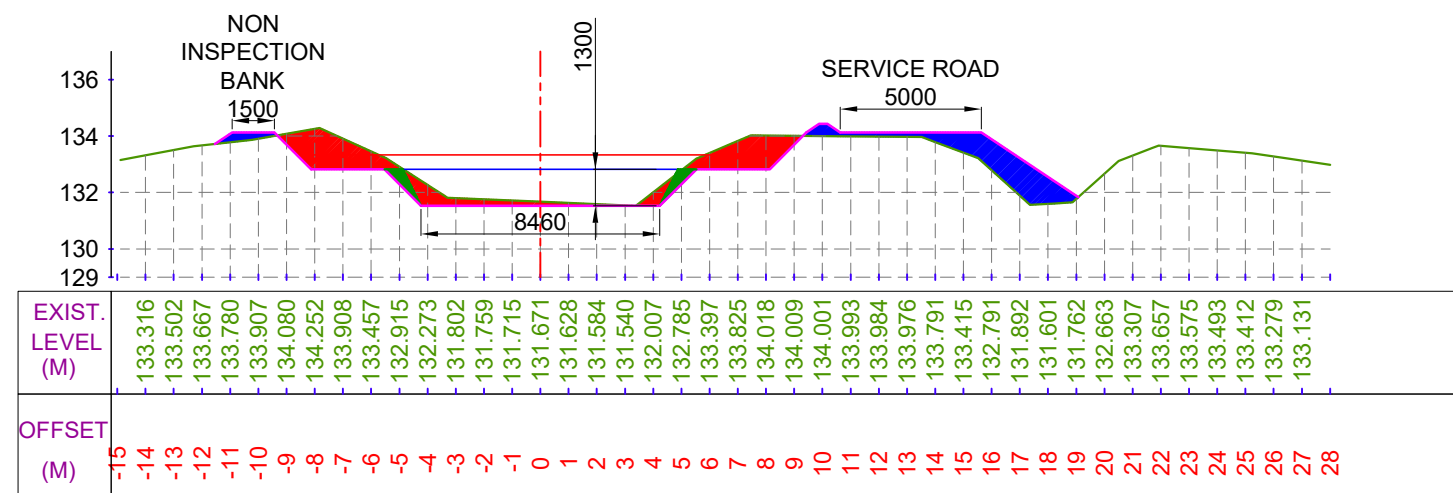
CUTTING AREA (SQ.M) = 1.509

FILLING AREA (SQ.M) = 7.489

CH. (KM):- 1+700
DESIGNED BED LEVEL = 131.588 MCUTTING AREA (SQ.M) = 12.516 CH. (KM):- 1+900
FILLING AREA (SQ.M) = 5.890
DESIGNED BED LEVEL = 131.548 M

CUTTING AREA (SQ.M) = 8.053

FILLING AREA (SQ.M) = 3.065

CH. (KM):- 1+800
DESIGNED BED LEVEL = 131.568 MCUTTING AREA (SQ.M) = 8.900 CH. (KM):- 2+000
FILLING AREA (SQ.M) = 5.870
DESIGNED BED LEVEL = 131.528 M

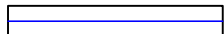
LEGEND



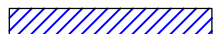
CUT AREA



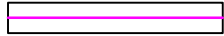
EXISTING BED LINE



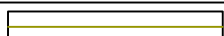
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

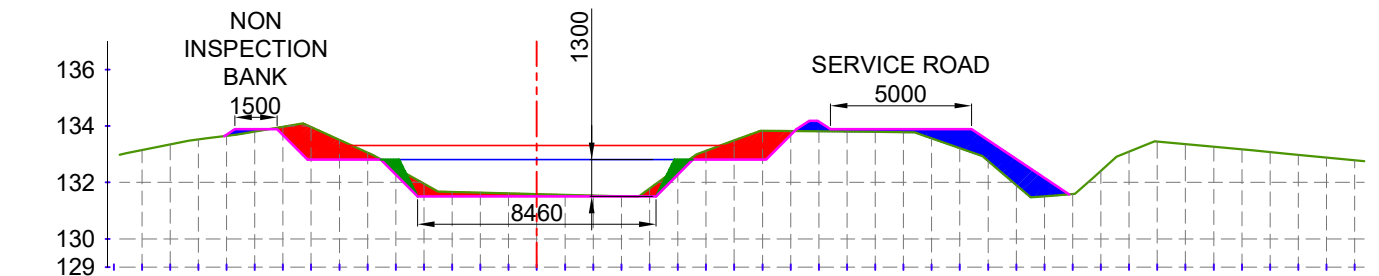
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

5 of 77

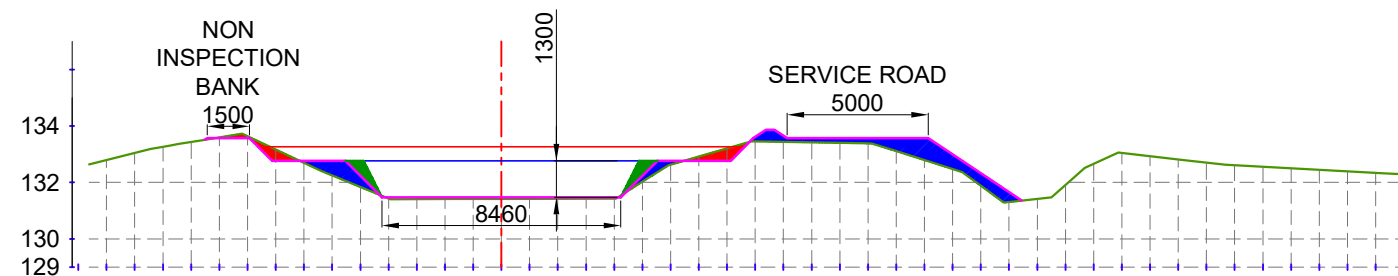


EXIST. LEVEL (M)	-133.145	-133.350	-133.527	-133.653	-133.806	-133.975	-133.965	-133.509	-133.052	-132.514	-131.954	-131.664	-131.638	-131.612	-131.586	-131.560	-131.534	-131.508	-131.782	-132.515	-133.123	-133.492	-133.835	-133.823	-133.812	-133.801	-133.790	-133.778	-133.562	-133.214	-132.762	-131.909	-131.510	-131.585	-132.410	-133.091	-133.452	-133.359	-133.266	-133.173	-133.077	-132.979	-132.882	-132.784		
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

CUTTING AREA (SQ.M) = 5.628 CH. (KM):- 2+100

FILLING AREA (SQ.M) = 4.154

DESIGNED BED LEVEL = 131.508 M

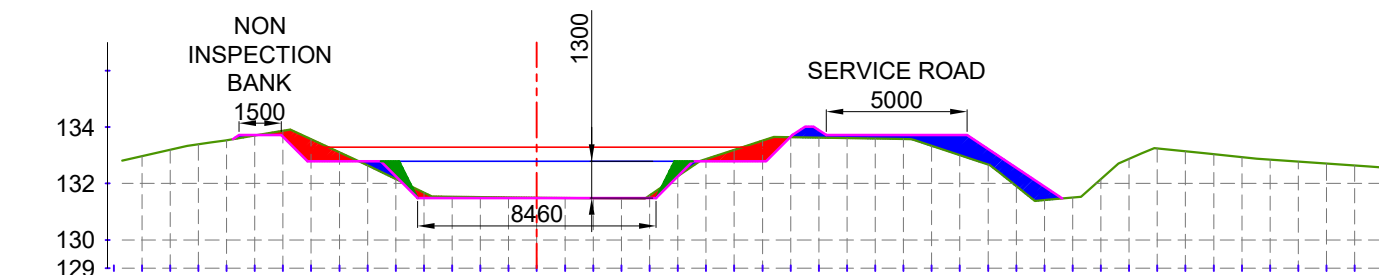


EXIST. LEVEL (M)	132.798	133.047	133.263	133.432	133.594	133.631	133.631	133.164	132.698	132.252	131.839	131.426	131.404	131.408	131.411	131.415	131.419	131.422	131.426	131.430	132.023	132.624	132.916	133.208	133.459	133.440	133.420	133.401	133.381	133.107	132.793	132.478	131.883	131.309	131.419	131.907	132.654	133.043	132.930	132.817	132.704	132.611	132.557	132.503	132.449	132.395	132.342	132.288	
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

CUTTING AREA (SQ.M) = 1.081 CH. (KM):- 2+300

FILLING AREA (SQ.M) = 4.816

DESIGNED BED LEVEL = 131.468 M

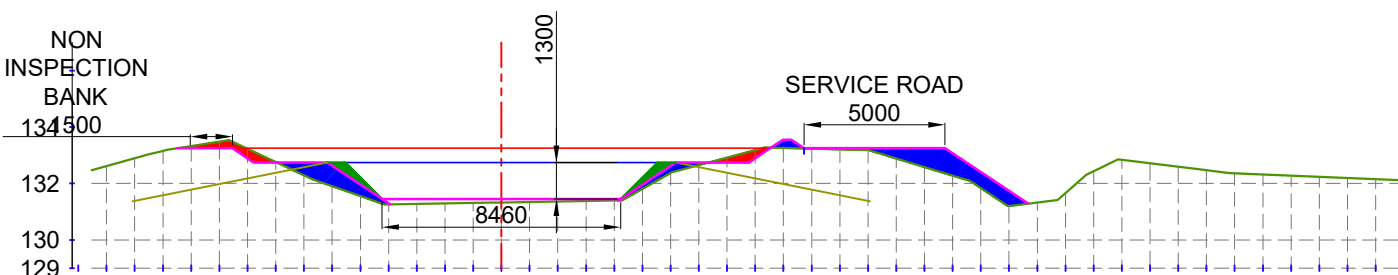


EXIST. LEVEL (M)	-132.973	-133.198	-133.392	-133.536	-133.701	-133.867	-133.567	-133.105	-132.641	-132.157	-131.673	-131.531	-131.521	-131.511	-131.500	-131.490	-131.480	-131.470	-131.577	-132.260	-132.867	-133.193	-133.518	-133.640	-133.625	-133.610	-133.595	-133.580	-133.334	-133.005	-132.676	-131.907	-131.412	-131.506	-132.158	-132.873	-133.248	-133.144	-133.041	-132.937	-132.850	-132.779	-132.708	-132.638	-132.567		
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

CUTTING AREA (SQ.M) = 2.917 CH. (KM):- 2+200

FILLING AREA (SQ.M) = 3.924

DESIGNED BED LEVEL = 131.488 M



EXIST. LEVEL (M)	-132.620	-132.897	-133.155	-133.325	-133.483	-133.229	-132.758	-132.288	-131.903	-131.555	-131.265	-131.281	-131.297	-131.313	-131.330	-131.346	-131.362	-131.378	-131.394	-131.806	-132.374	-132.655	-132.920	-133.185	-133.258	-133.232	-133.207	-133.181	-132.881	-132.578	-132.275	-131.829	-131.200	-131.327	-131.660	-132.432	-132.839	-132.717	-132.595	-132.473	-132.366	-132.323	-132.281	-132.239	-132.197	-132.154	-132.112	-132.070	
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

CUTTING AREA (SQ.M) = 1.113 CH. (KM):- 2+400

FILLING AREA (SQ.M) = 5.440

DESIGNED BED LEVEL = 131.448 M

LEGEND



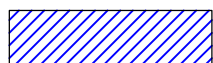
CUT AREA



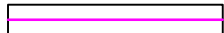
EXISTING BED LINE



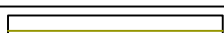
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

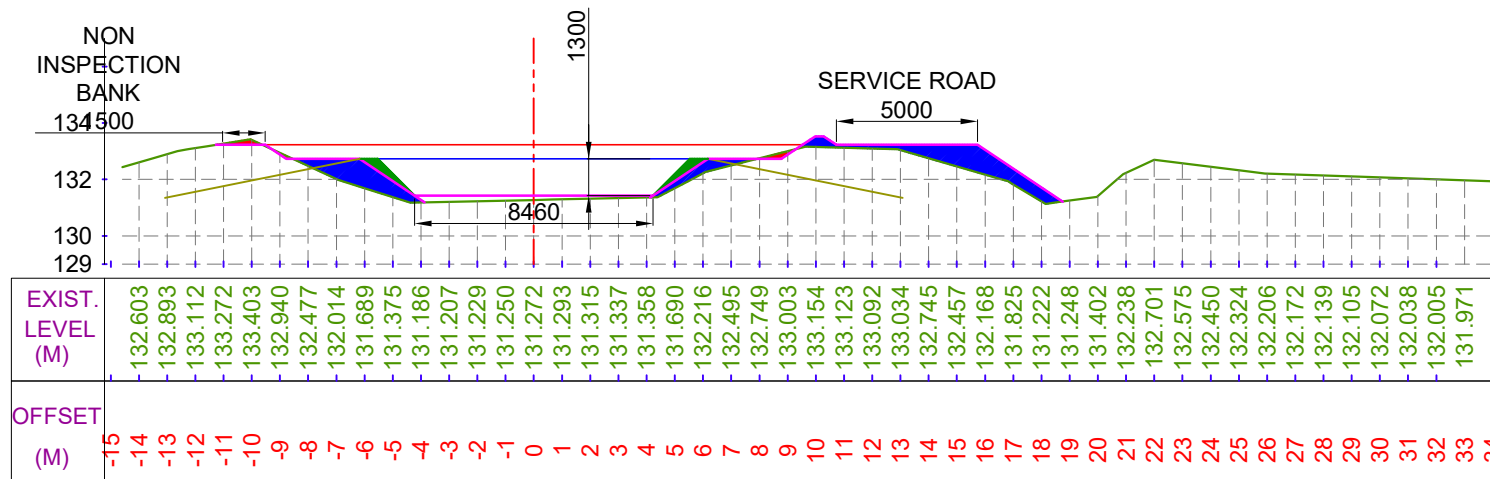
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

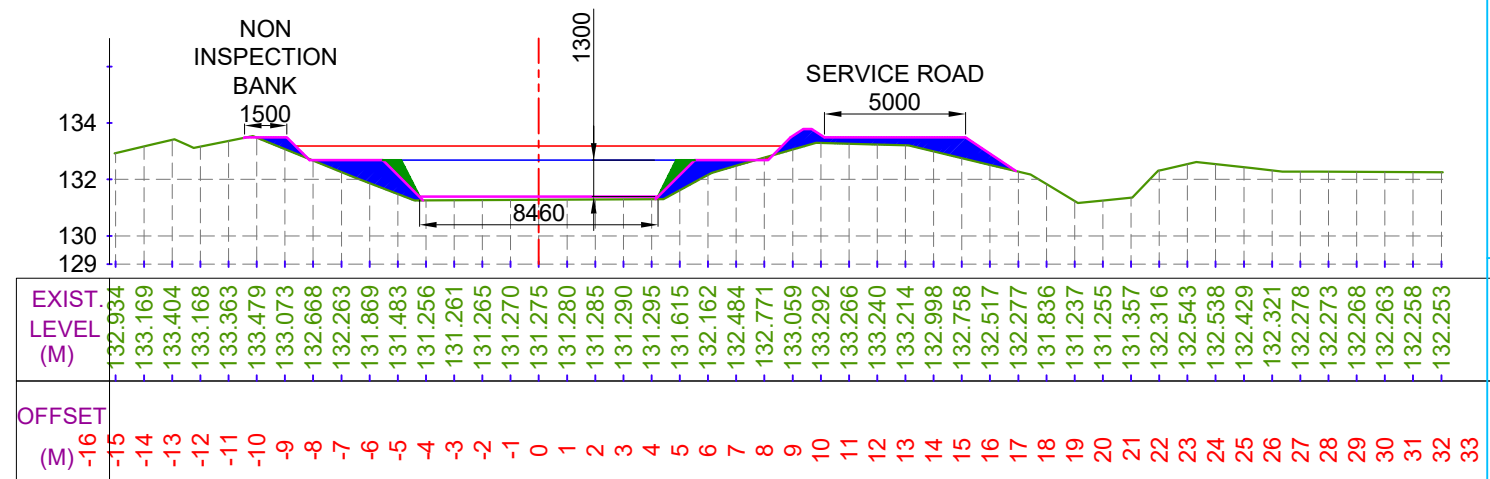
6 of 77



CUTTING AREA (SQ.M) = 0.359 CH. (KM):- 2+500

FILLING AREA (SQ.M) = 7.395

DESIGNED BED LEVEL = 131.428 M

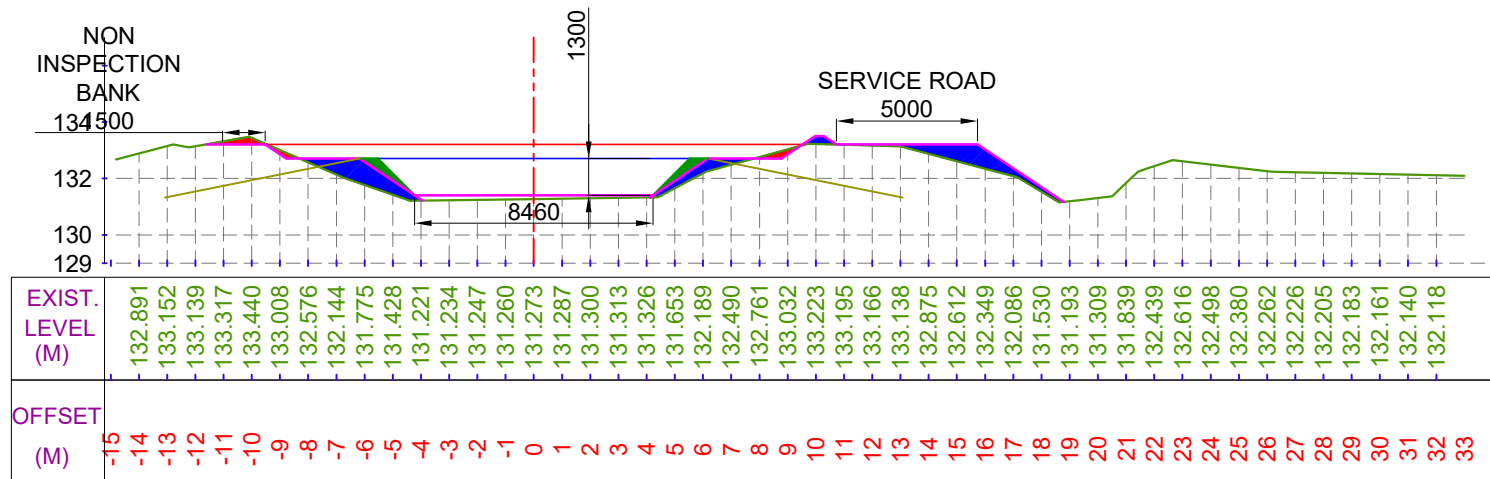


CUTTING AREA (SQ.M) = 0.045

FILLING AREA (SQ.M) = 6.977

CH. (KM):- 2+700

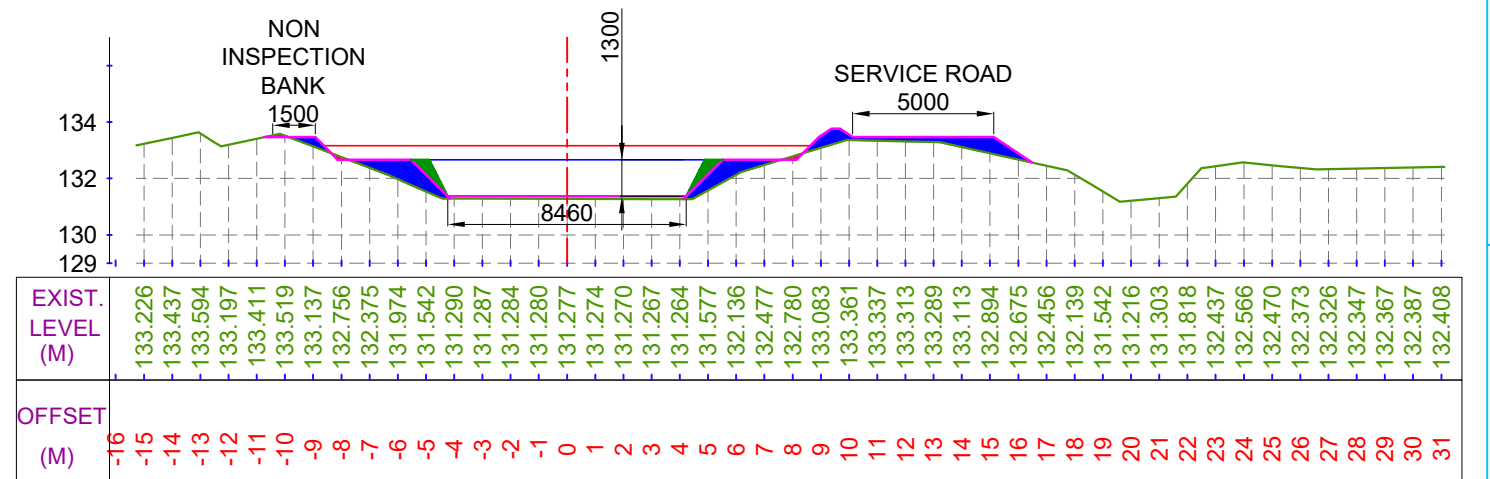
DESIGNED BED LEVEL = 131.388 M



CUTTING AREA (SQ.M) = 0.644 CH. (KM):- 2+600

FILLING AREA (SQ.M) = 5.458

DESIGNED BED LEVEL = 131.408 M



CUTTING AREA (SQ.M) = 0.146

FILLING AREA (SQ.M) = 5.529

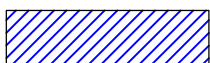
CH. (KM):- 2+800

DESIGNED BED LEVEL = 131.368 M

LEGEND



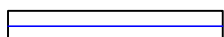
CUT AREA



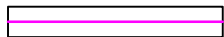
FILL AREA



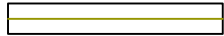
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

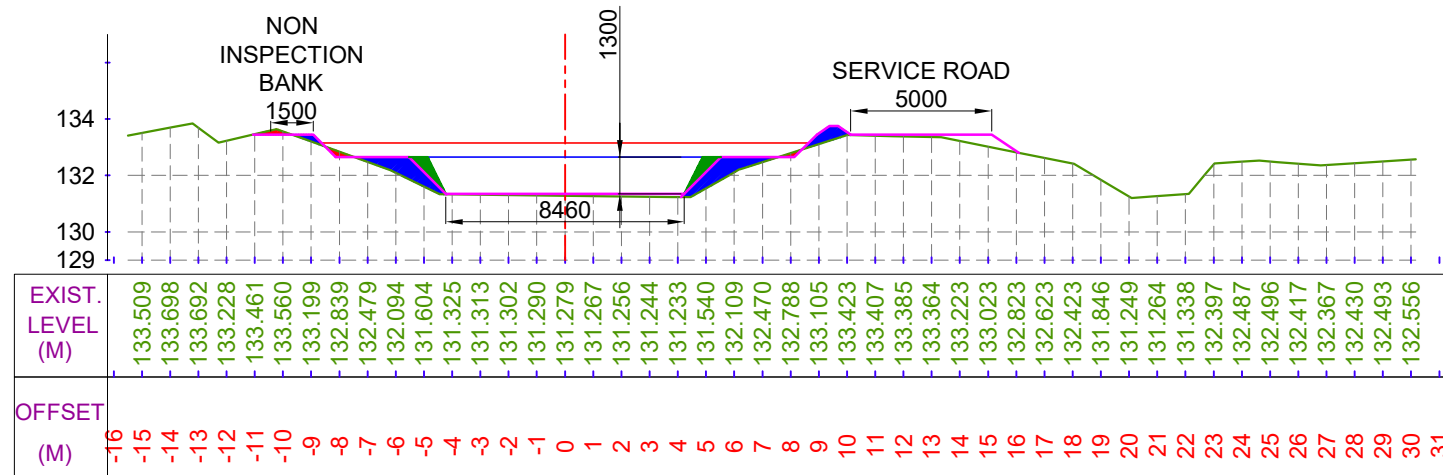
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

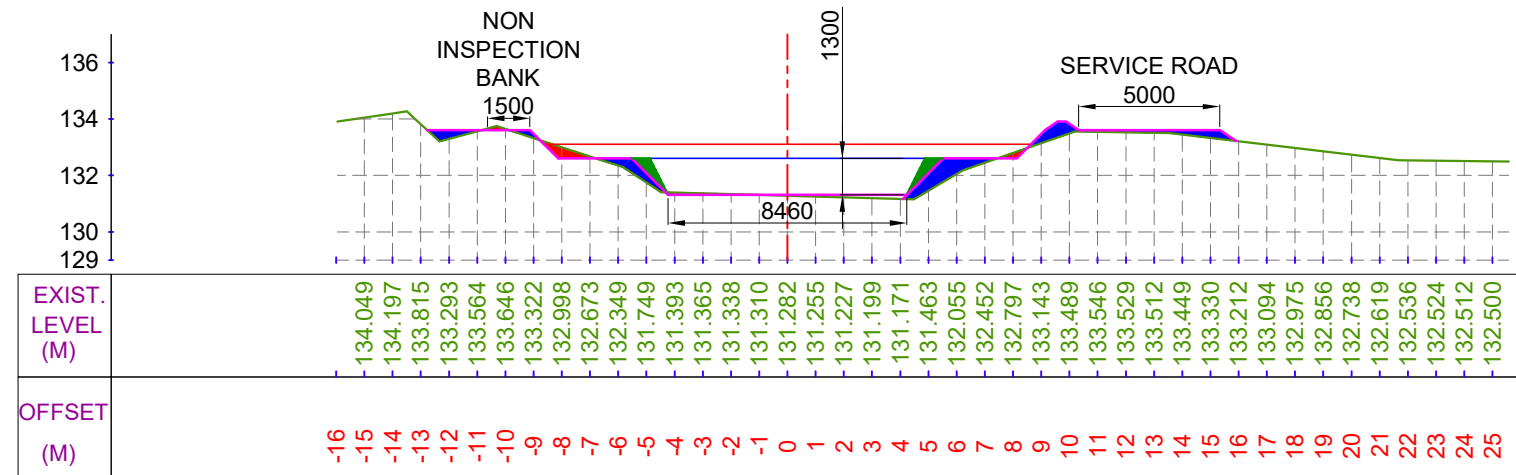
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CUTTING AREA (SQ.M) = 0.330
FILLING AREA (SQ.M) = 3.364

CH. (KM):- 2+900

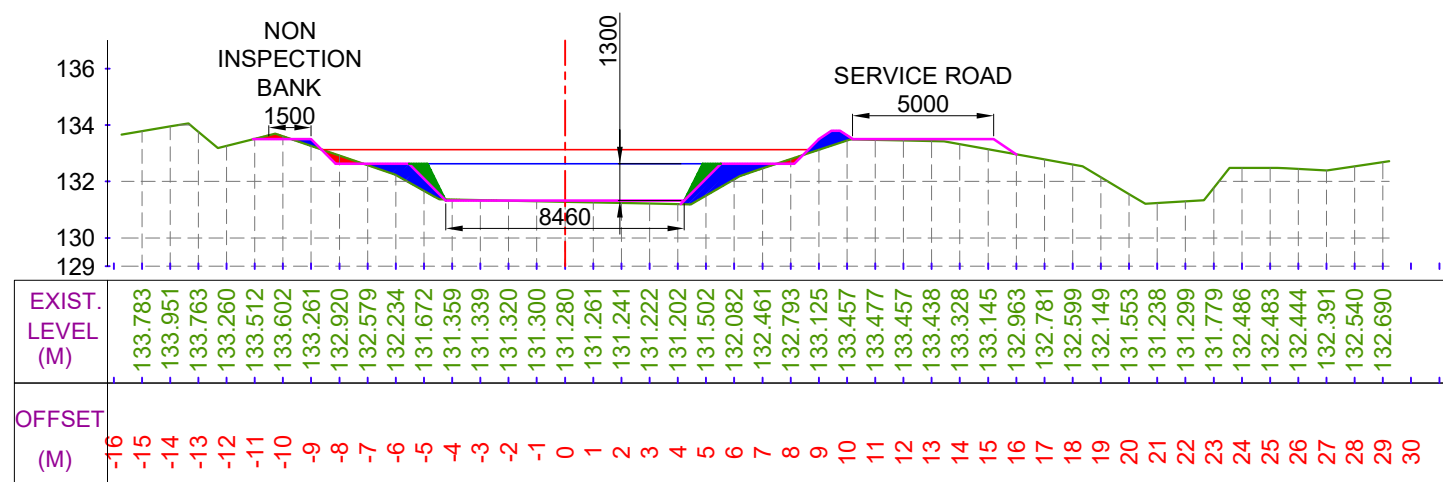
DESIGNED BED LEVEL = 131.348 M



CUTTING AREA (SQ.M) = 0.767
FILLING AREA (SQ.M) = 3.922

CH. (KM):- 3+100

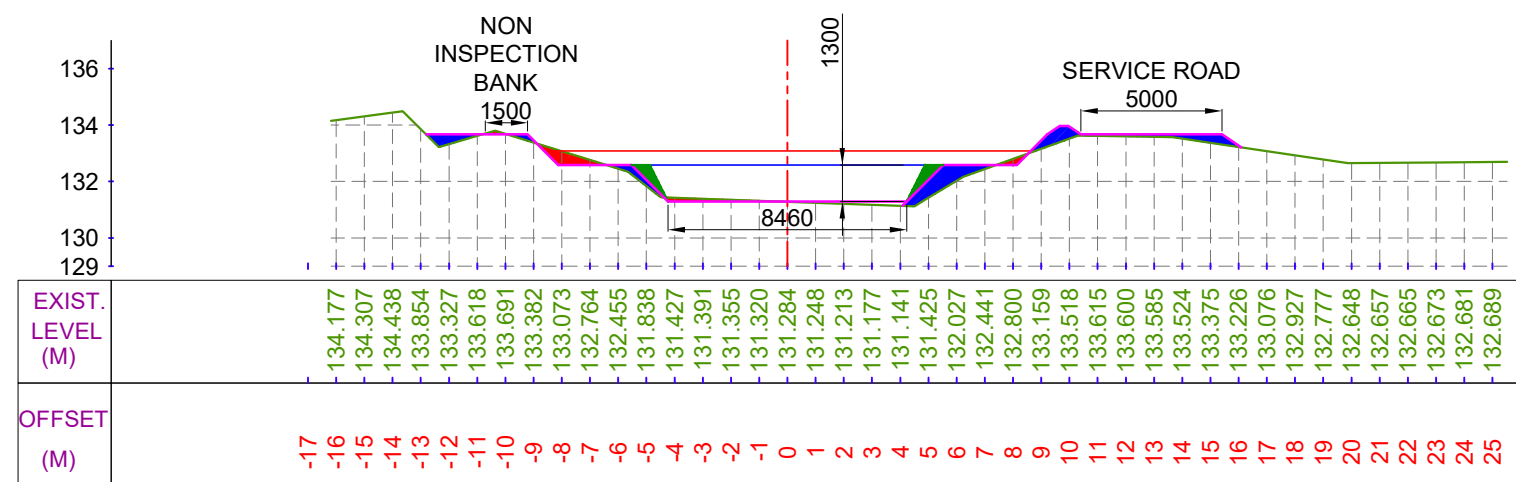
DESIGNED BED LEVEL = 131.308 M



CUTTING AREA (SQ.M) = 0.516
FILLING AREA (SQ.M) = 3.008

CH. (KM):- 3+000

DESIGNED BED LEVEL = 131.328 M



CUTTING AREA (SQ.M) = 1.159
FILLING AREA (SQ.M) = 3.736

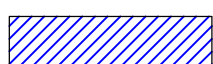
CH. (KM):- 3+200

DESIGNED BED LEVEL = 131.288 M

LEGEND



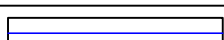
CUT AREA



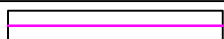
FILL AREA



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

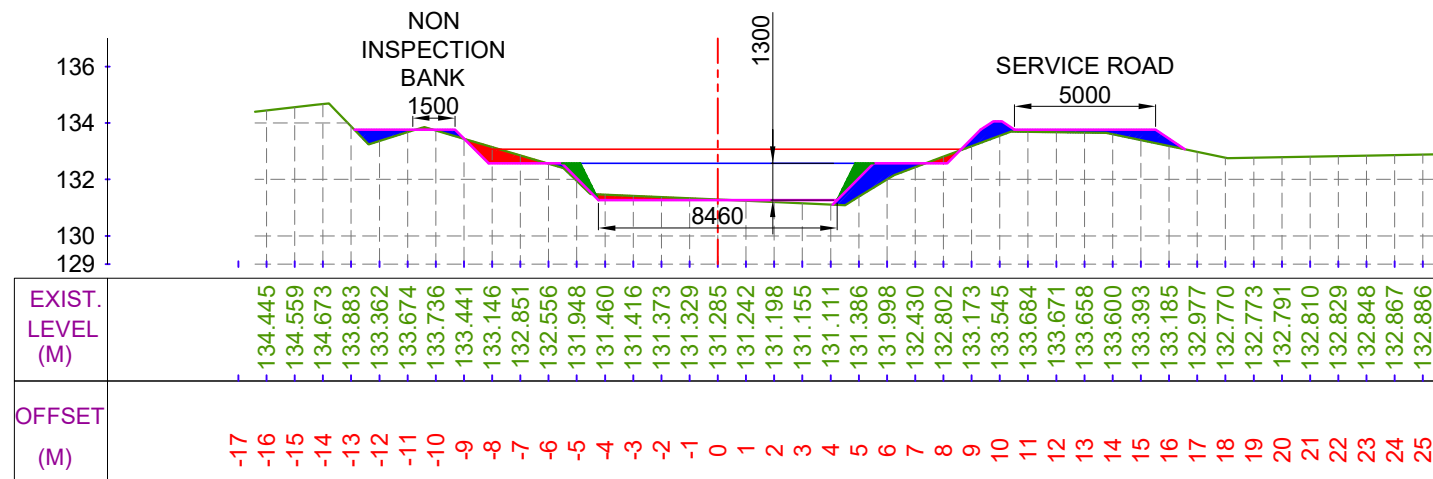
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

8 of 77

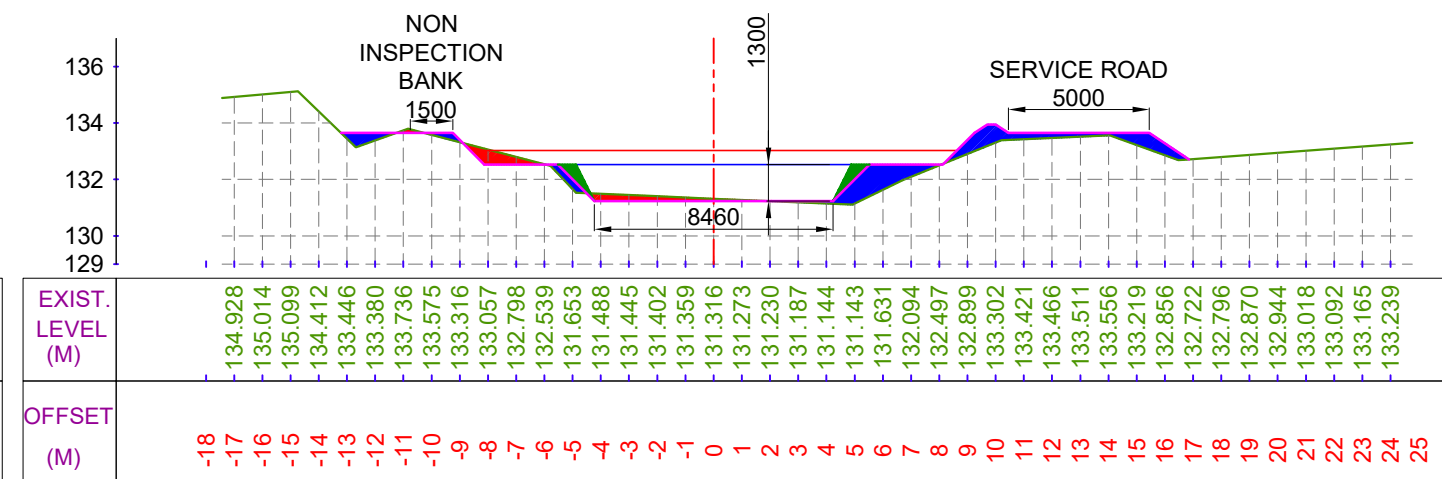


CUTTING AREA (SQ.M) = 1.594

FILLING AREA (SQ.M) = 4.011

CH. (KM):- 3+300

DESIGNED BED LEVEL = 131.268 M

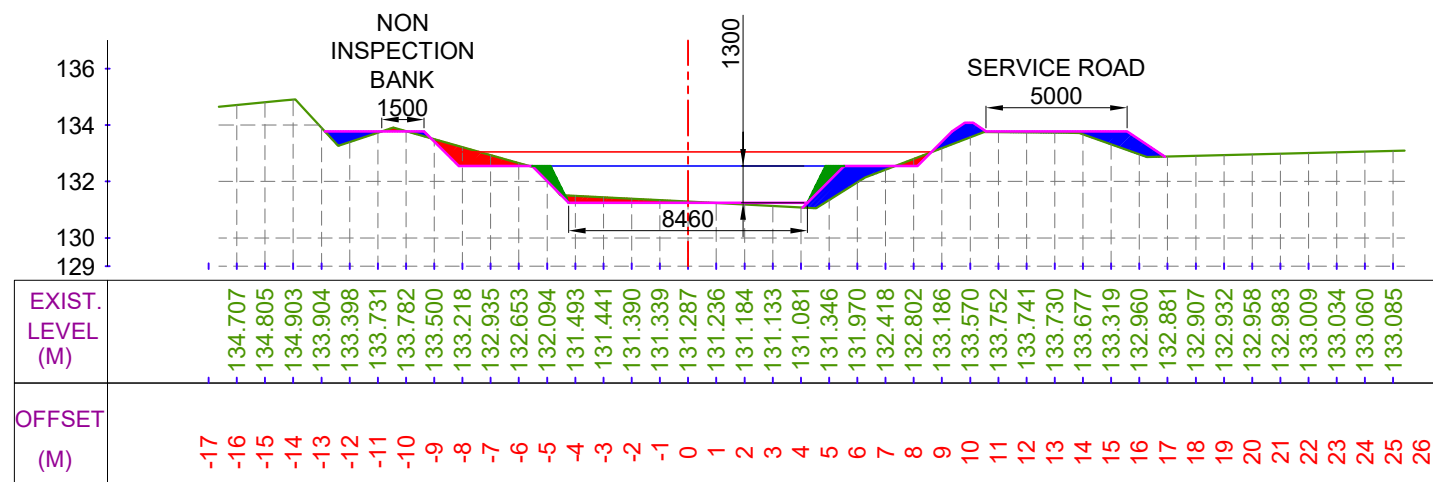


CUTTING AREA (SQ.M) = 1.762

FILLING AREA (SQ.M) = 6.053

CH. (KM):- 3+500

DESIGNED BED LEVEL = 131.228 M

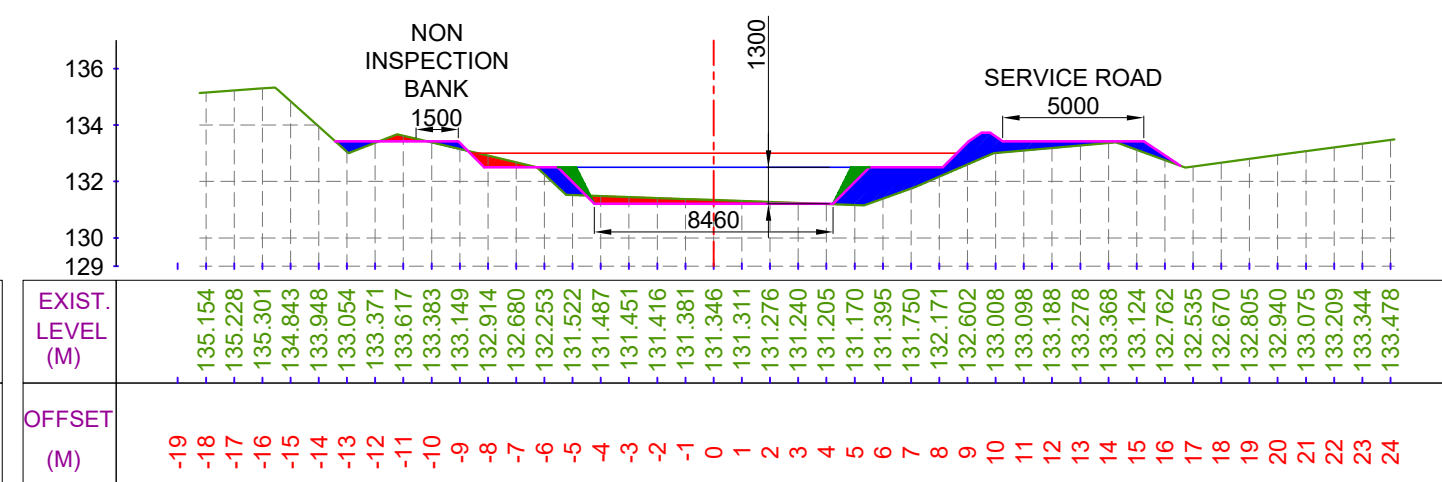


CUTTING AREA (SQ.M) = 2.142

FILLING AREA (SQ.M) = 4.019

CH. (KM):- 3+400

DESIGNED BED LEVEL = 131.248 M



CUTTING AREA (SQ.M) = 1.921

FILLING AREA (SQ.M) = 6.940

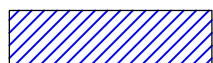
CH. (KM):- 3+600

DESIGNED BED LEVEL = 131.208 M

LEGEND



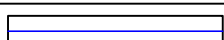
CUT AREA



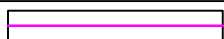
FILL AREA



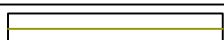
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

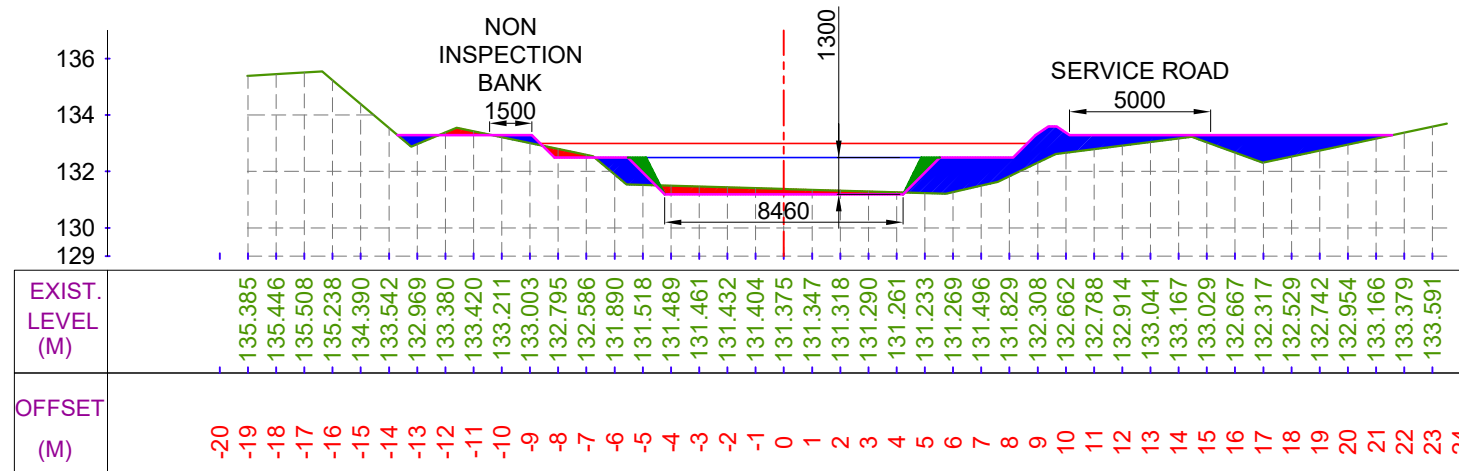
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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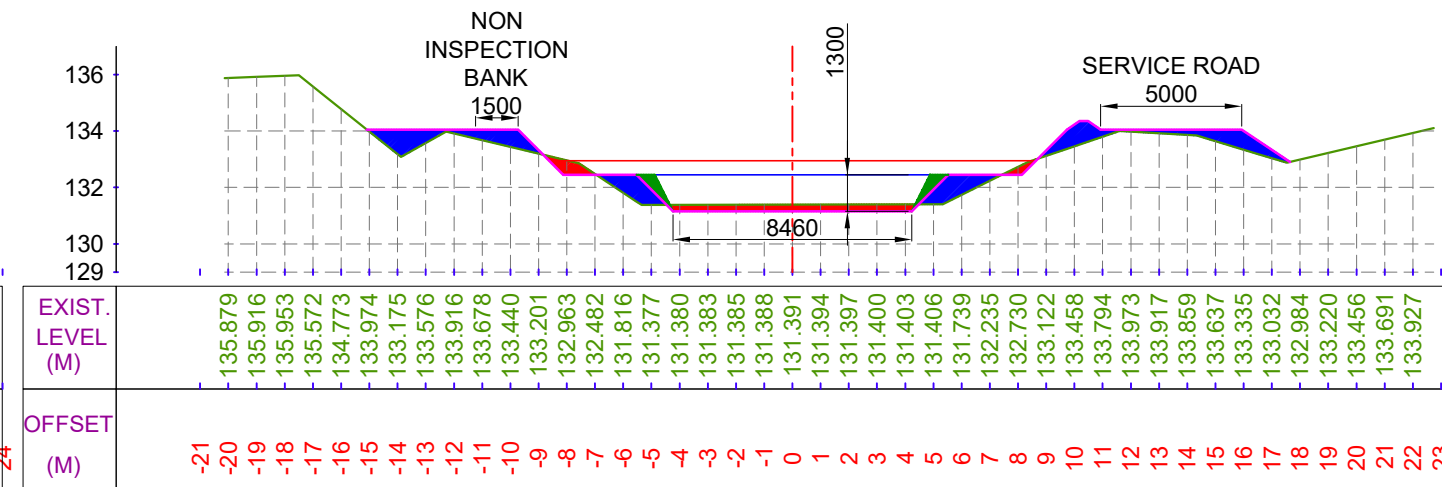


CUTTING AREA (SQ.M) = 2.181

FILLING AREA (SQ.M) = 11.835

CH. (KM):- 3+700

DESIGNED BED LEVEL = 131.188 M

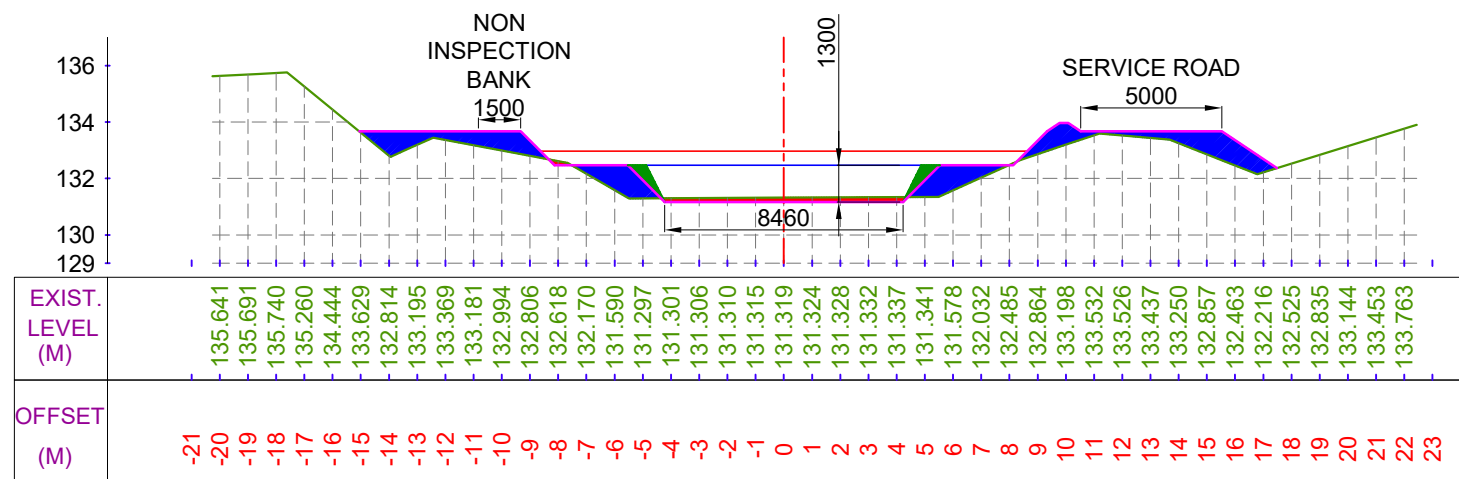


CUTTING AREA (SQ.M) = 2.906

FILLING AREA (SQ.M) = 8.294

CH. (KM):- 3+900

DESIGNED BED LEVEL = 131.148 M

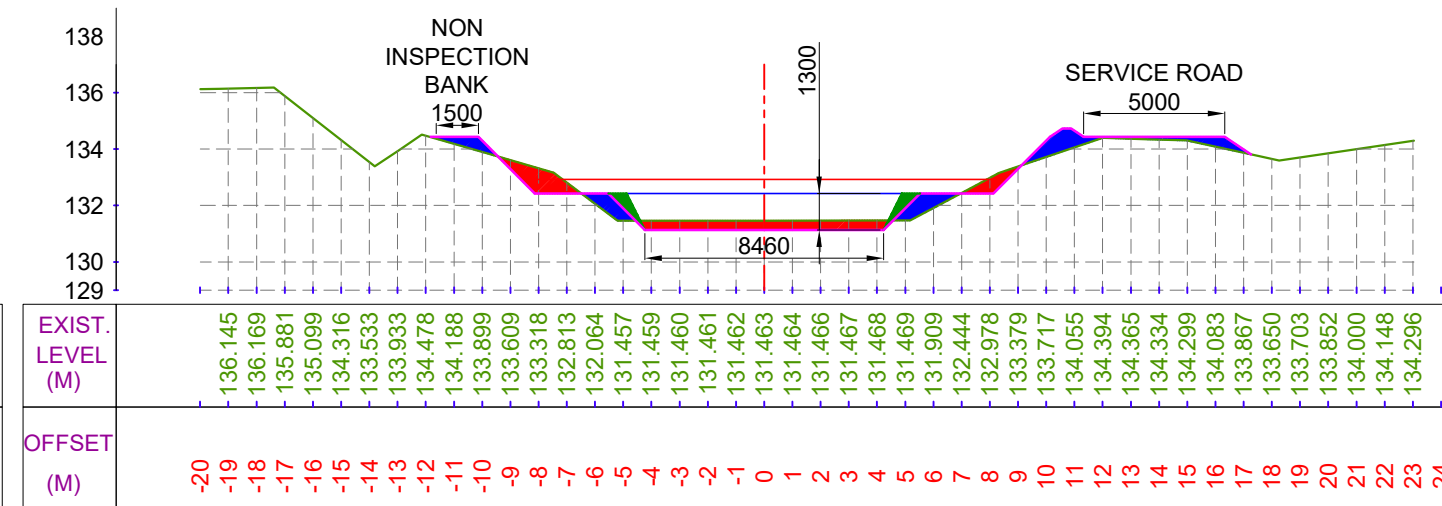


CUTTING AREA (SQ.M) = 1.387

FILLING AREA (SQ.M) = 11.380

CH. (KM):- 3+800

DESIGNED BED LEVEL = 131.168 M



CUTTING AREA (SQ.M) = 5.094

FILLING AREA (SQ.M) = 4.345

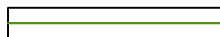
CH. (KM):- 4+000

DESIGNED BED LEVEL = 131.128 M

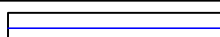
LEGEND



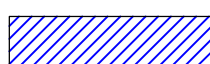
CUT AREA



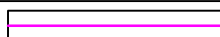
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

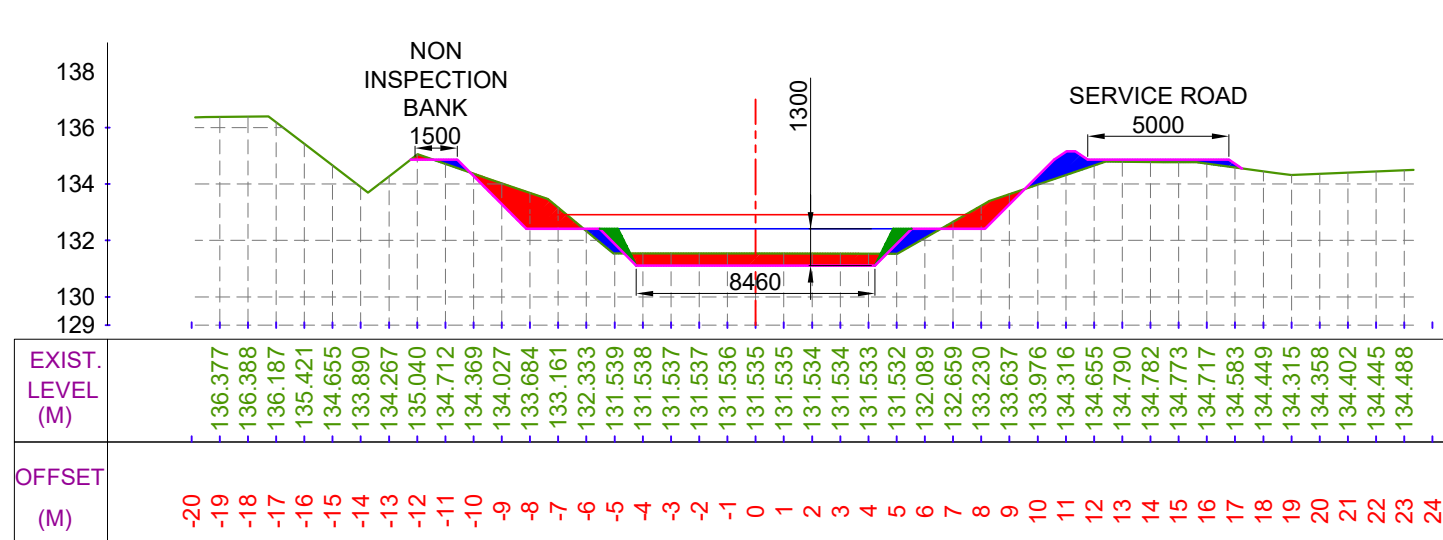
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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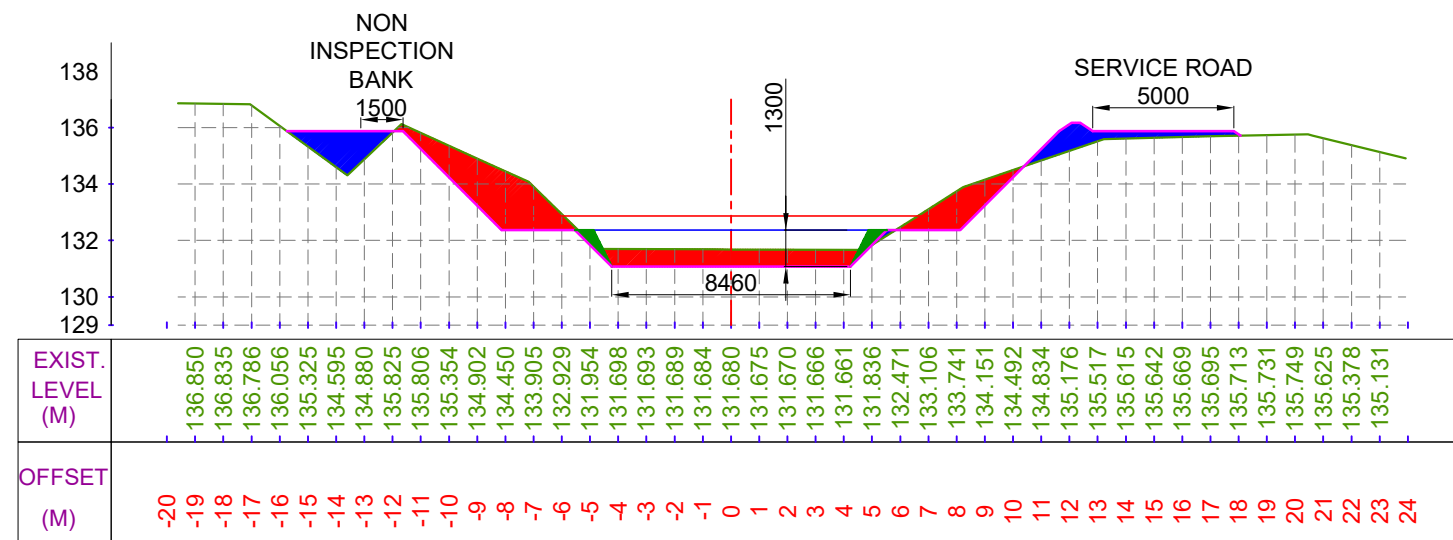


CUTTING AREA (SQ.M) = 8.054

CH. (KM):- 4+100

FILLING AREA (SQ.M) = 2.970

DESIGNED BED LEVEL = 131.108 M

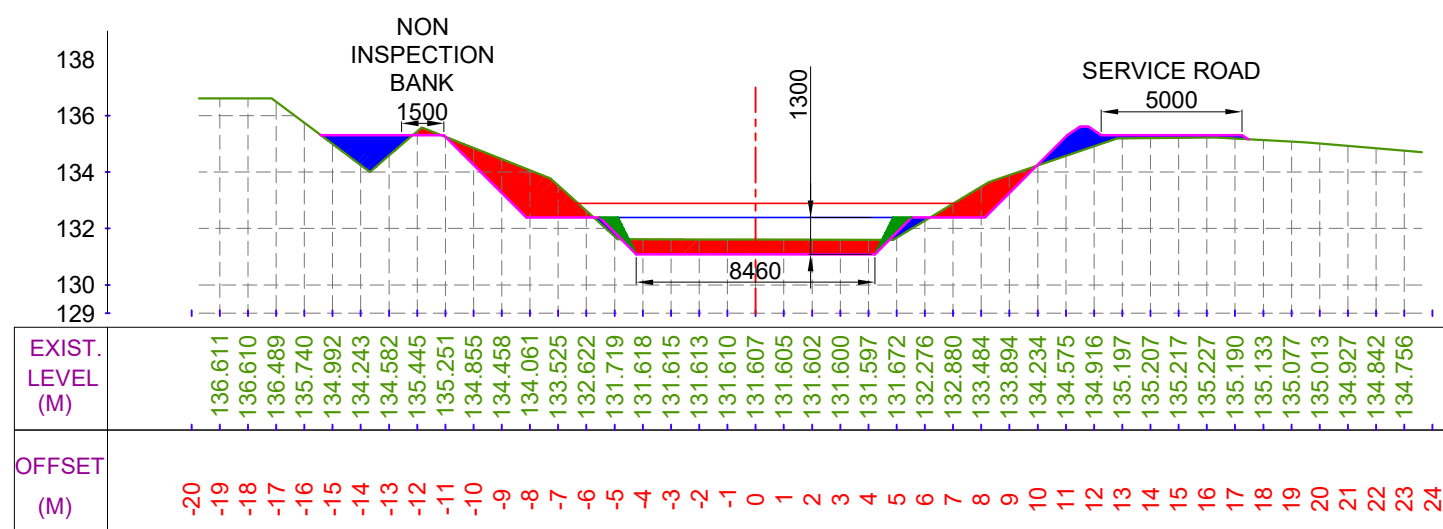


CUTTING AREA (SQ.M) = 16.218

CH. (KM):- 4+300

FILLING AREA (SQ.M) = 5.642

DESIGNED BED LEVEL = 131.068 M

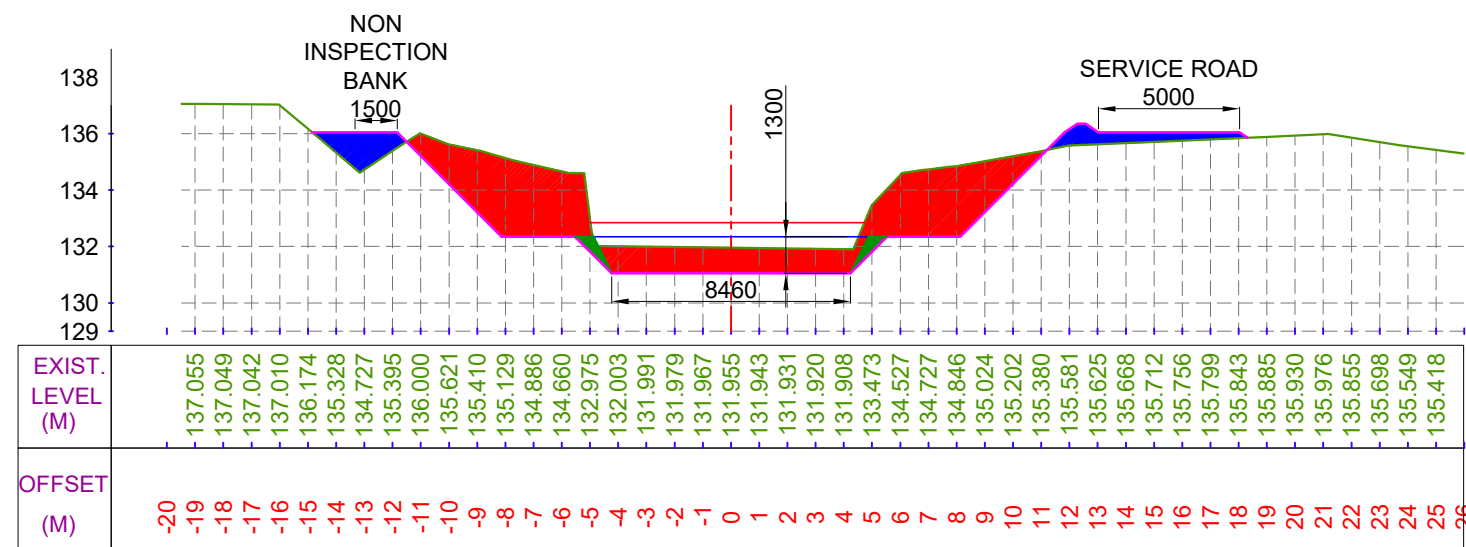


CUTTING AREA (SQ.M) = 11.777

CH. (KM):- 4+200

FILLING AREA (SQ.M) = 4.372

DESIGNED BED LEVEL = 131.088 M



CUTTING AREA (SQ.M) = 31.953

CH. (KM):- 4+400

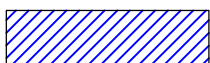
FILLING AREA (SQ.M) = 5.121

DESIGNED BED LEVEL = 131.048 M

LEGEND



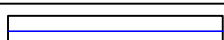
CUT AREA



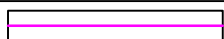
FILL AREA



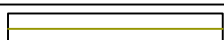
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

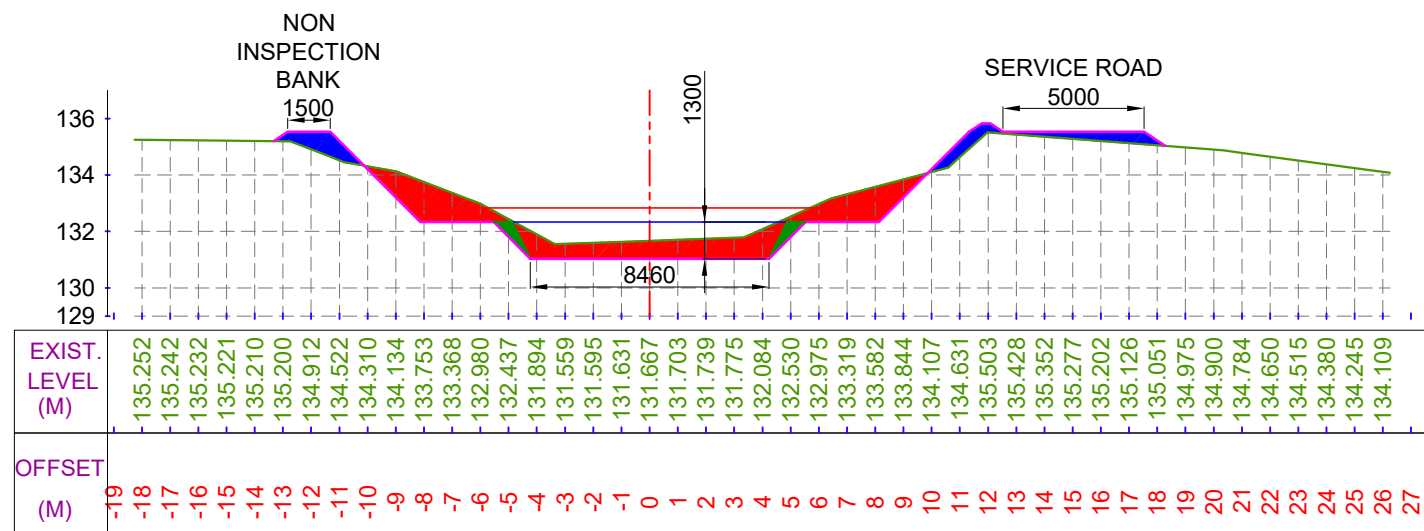
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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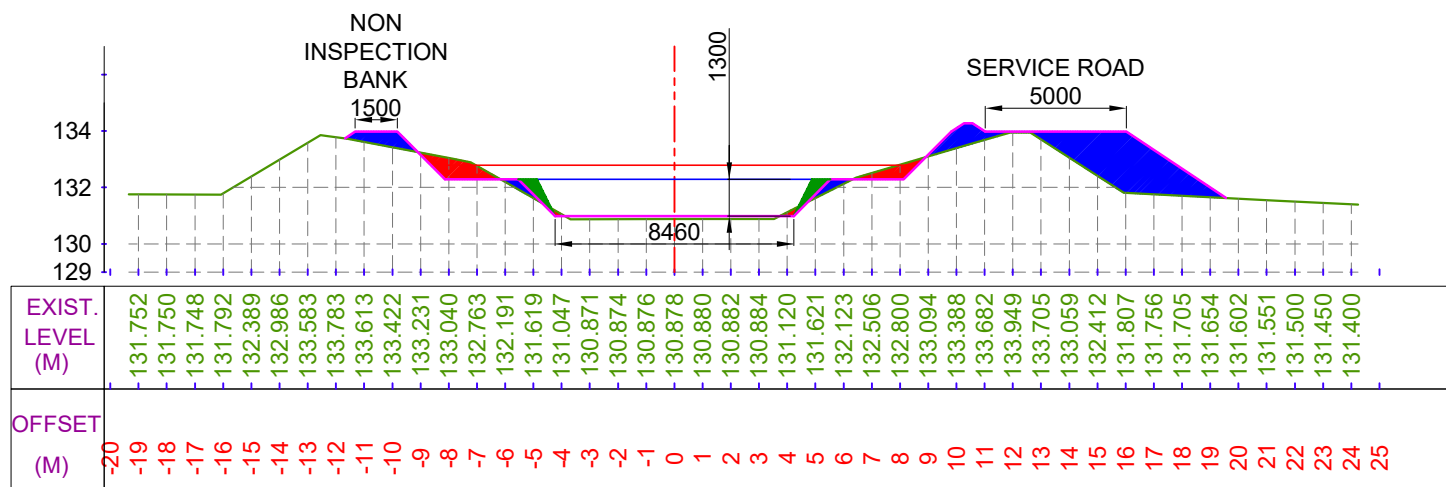


CUTTING AREA (SQ.M) = 14.496

FILLING AREA (SQ.M) = 4.010

CH. (KM):- 4+500

DESIGNED BED LEVEL = 131.028 M

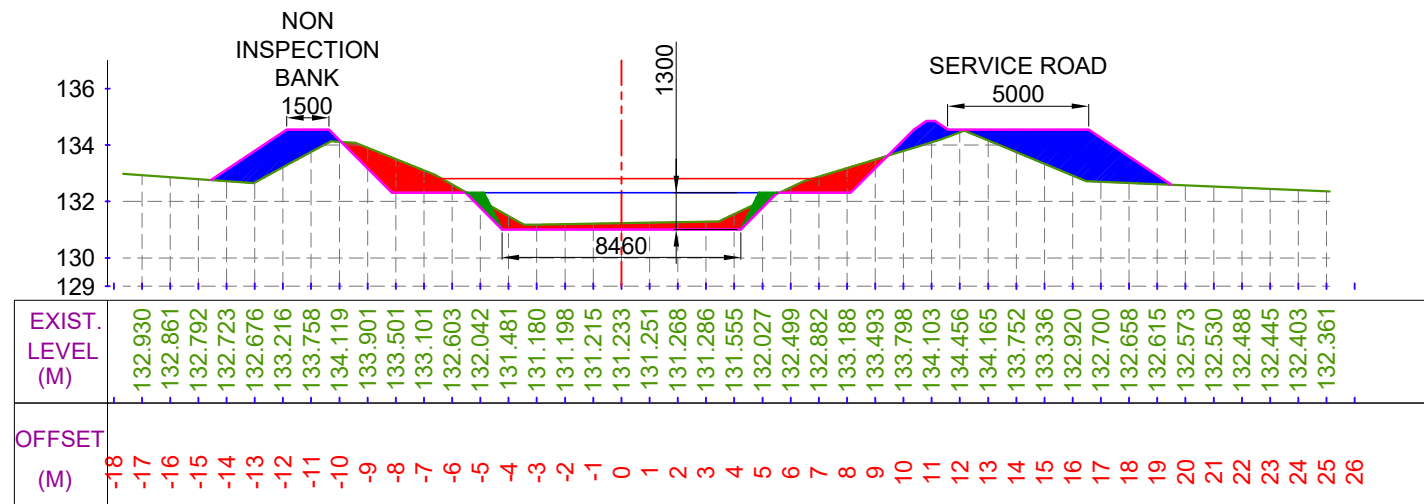


CUTTING AREA (SQ.M) = 2.170

FILLING AREA (SQ.M) = 10.432

CH. (KM):- 4+700

DESIGNED BED LEVEL = 130.988 M

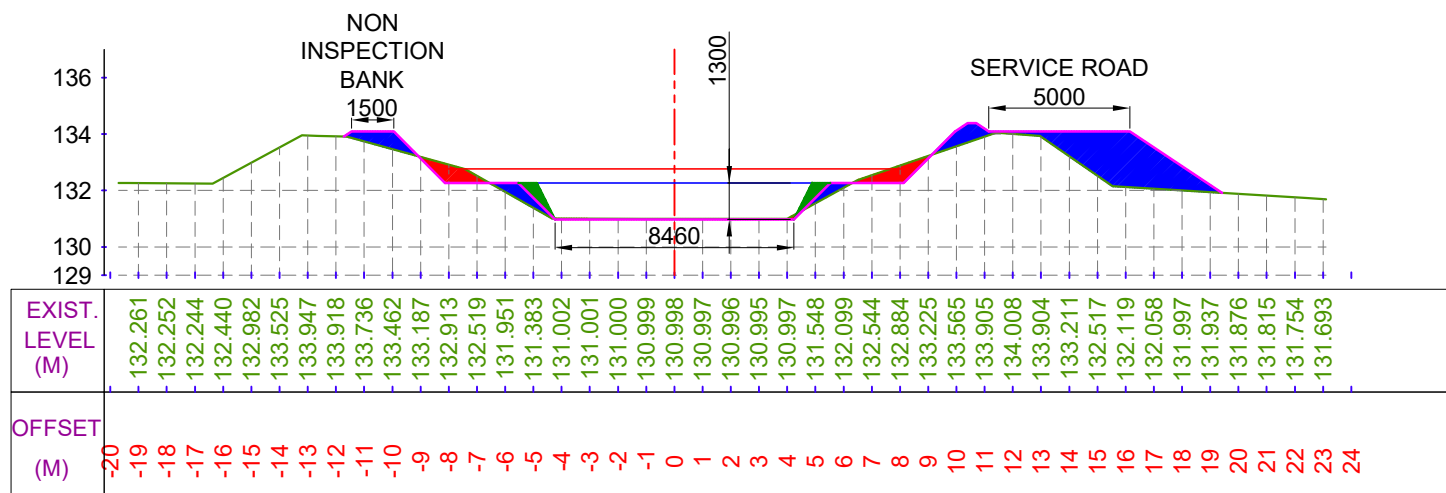


CUTTING AREA (SQ.M) = 7.402

FILLING AREA (SQ.M) = 11.610

CH. (KM):- 4+600

DESIGNED BED LEVEL = 131.008 M



CUTTING AREA (SQ.M) = 2.187

FILLING AREA (SQ.M) = 10.179

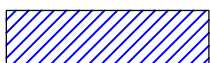
CH. (KM):- 4+800

DESIGNED BED LEVEL = 130.968 M

LEGEND



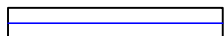
CUT AREA



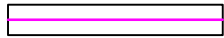
FILL AREA



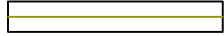
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

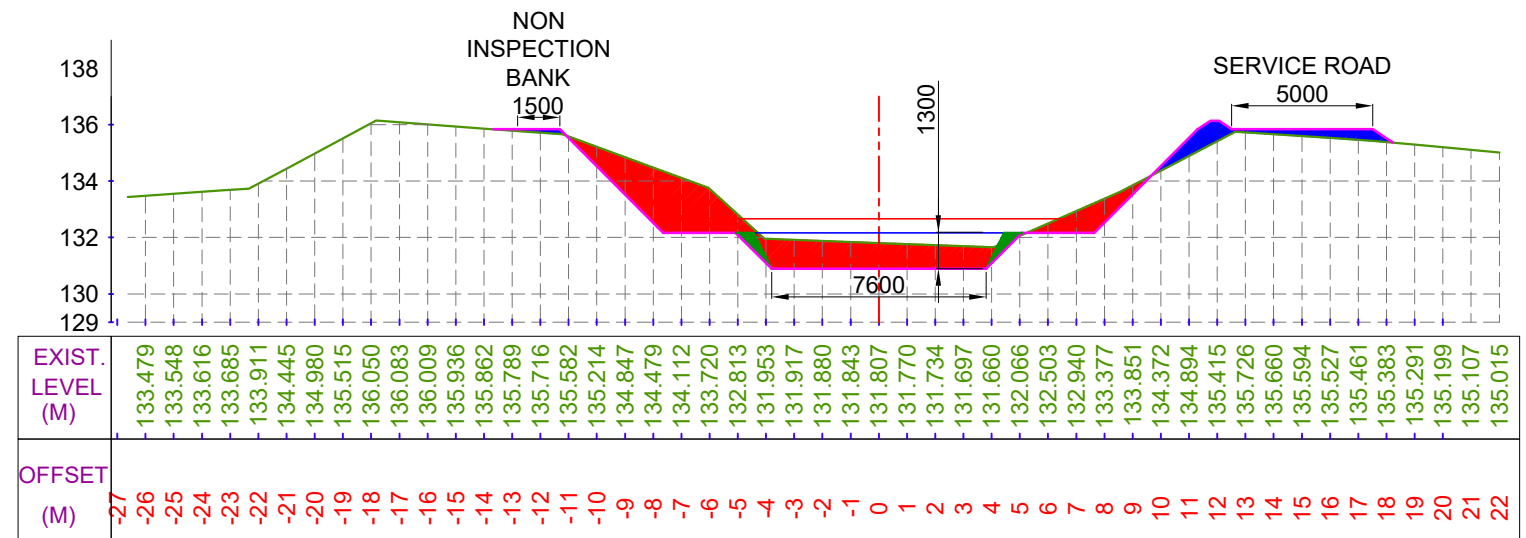
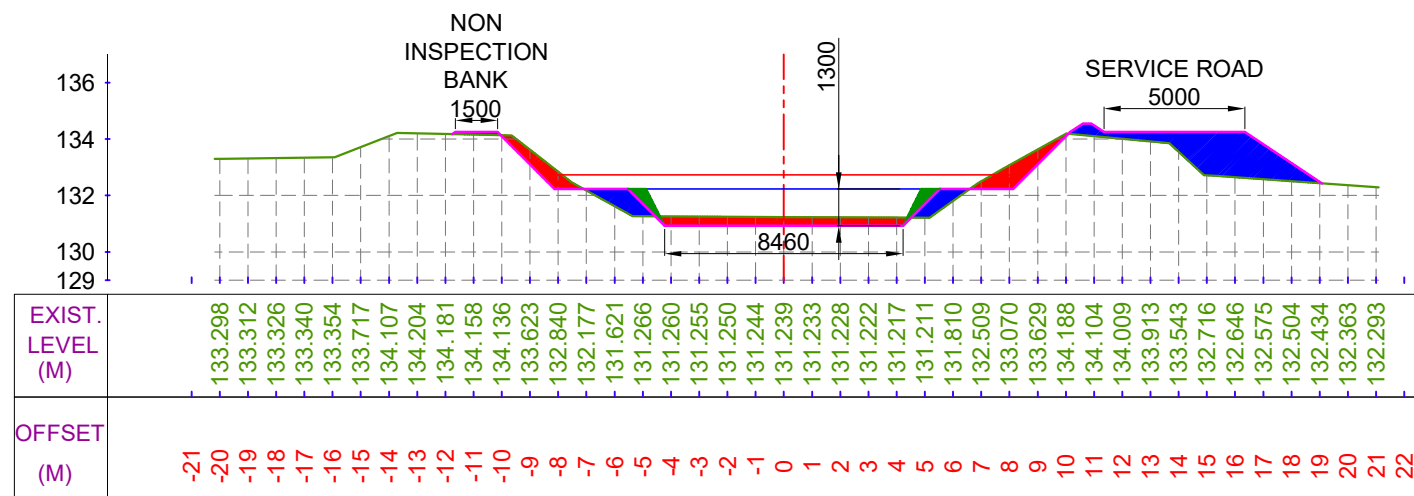
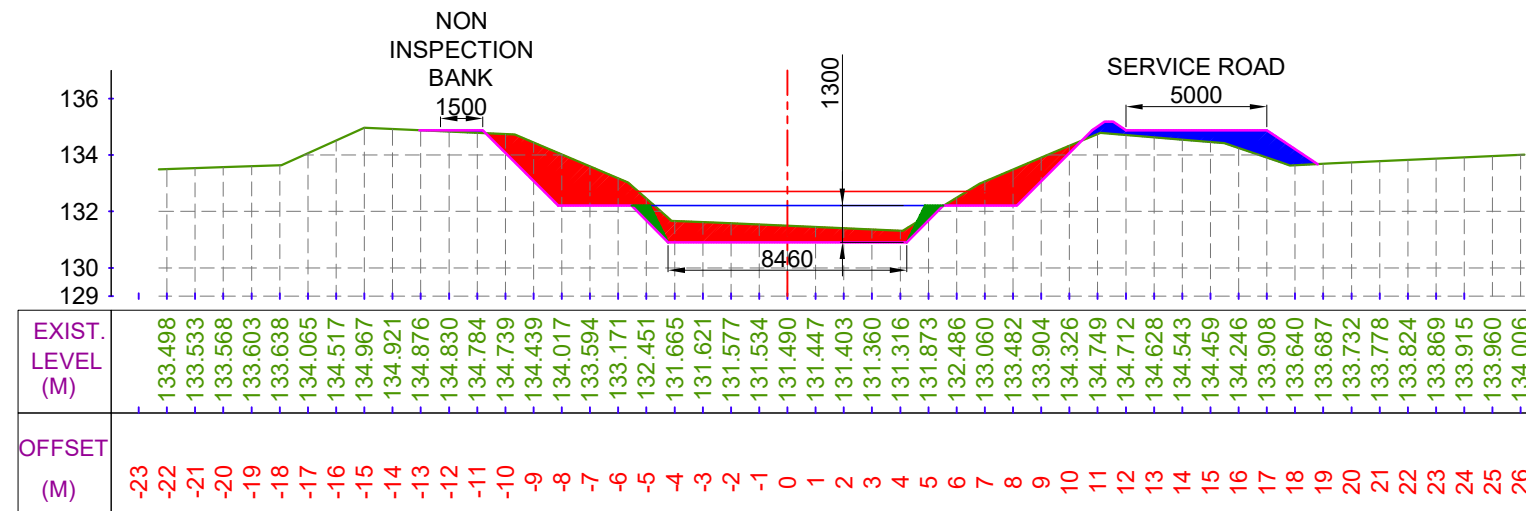
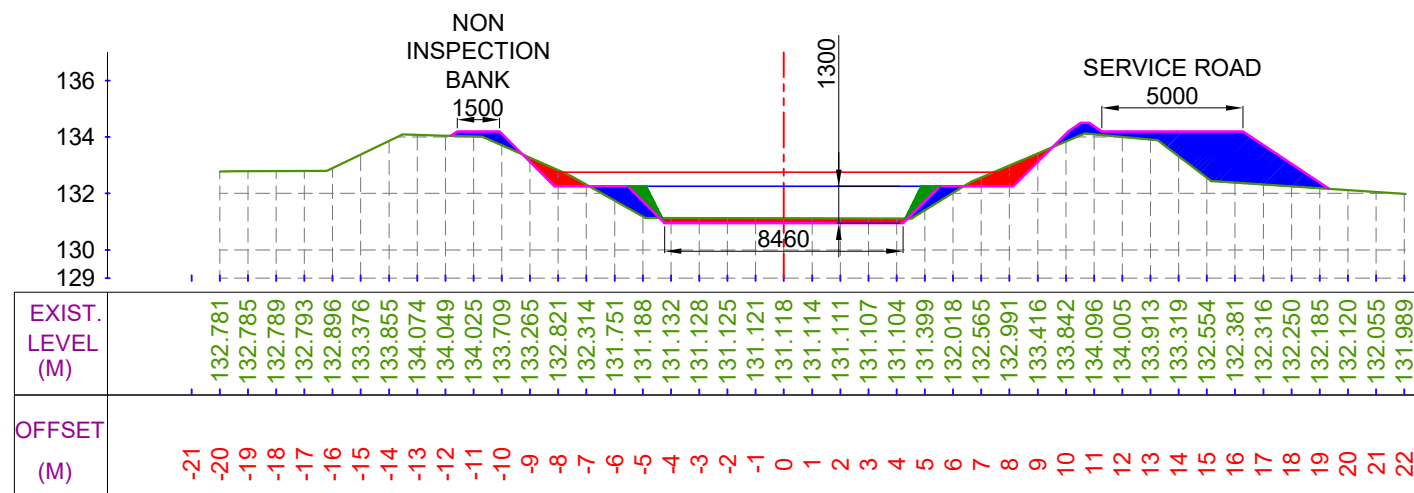
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

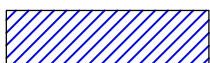
12 of 77



LEGEND



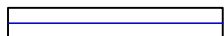
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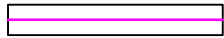
FILL AREA



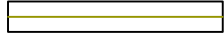
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

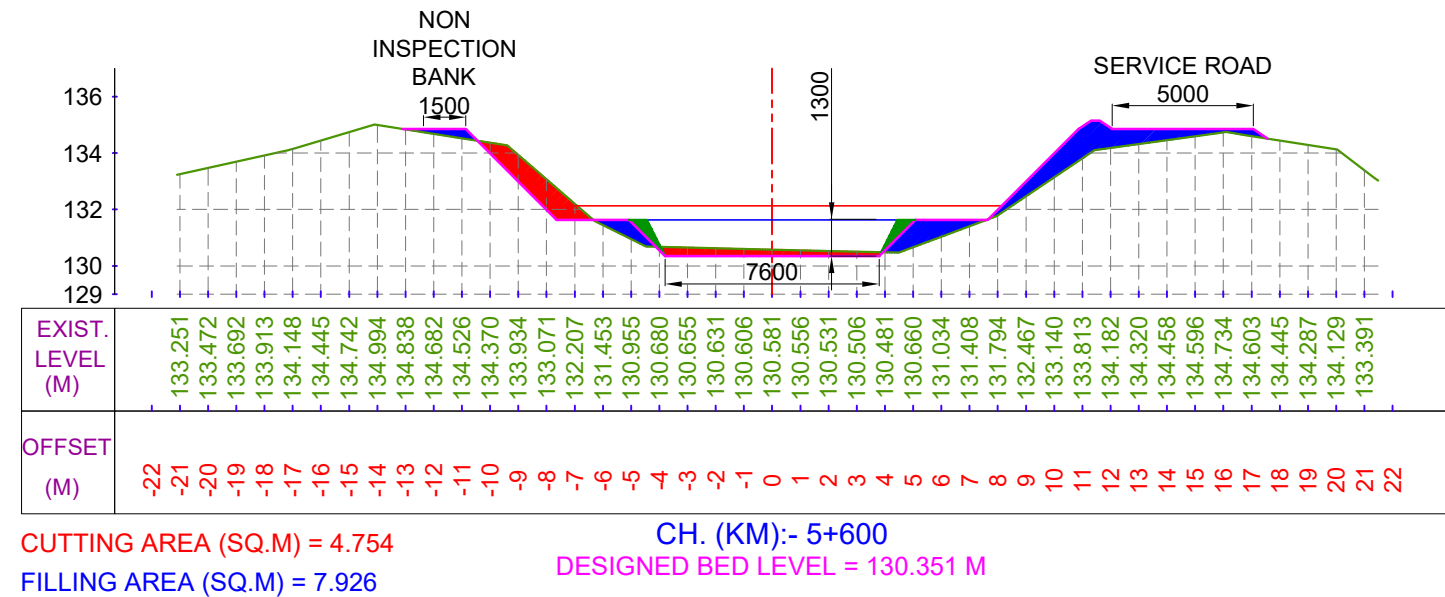
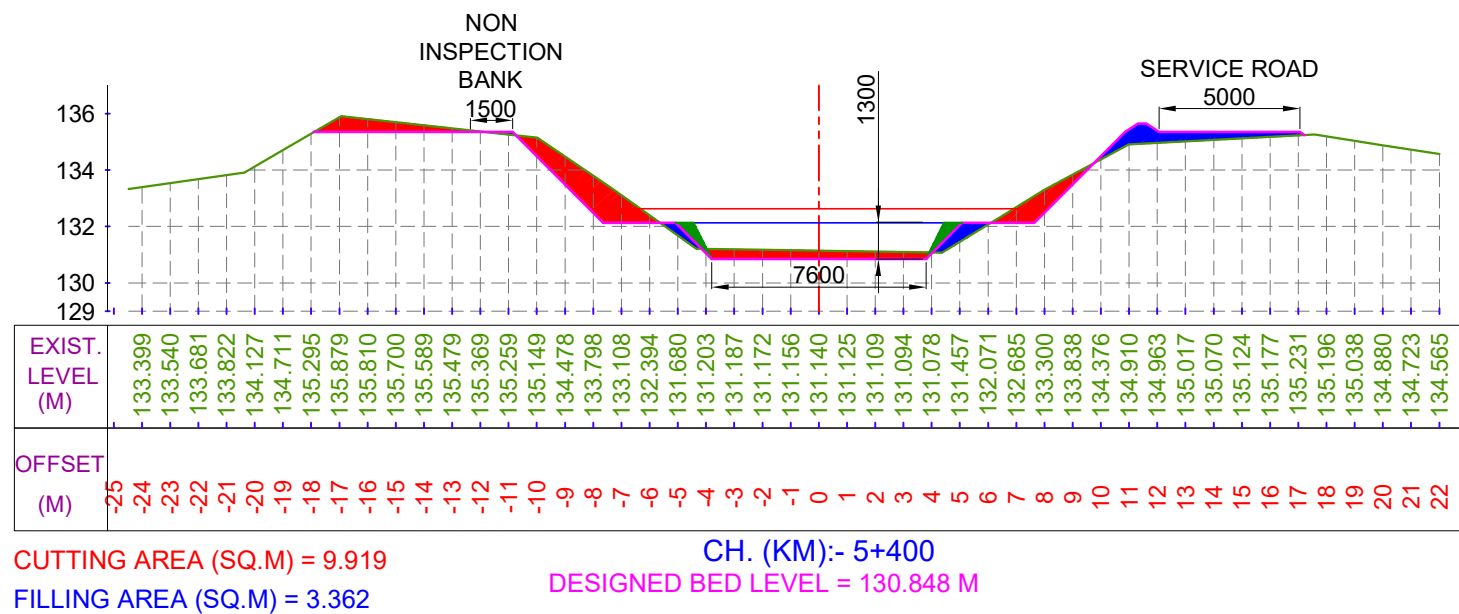
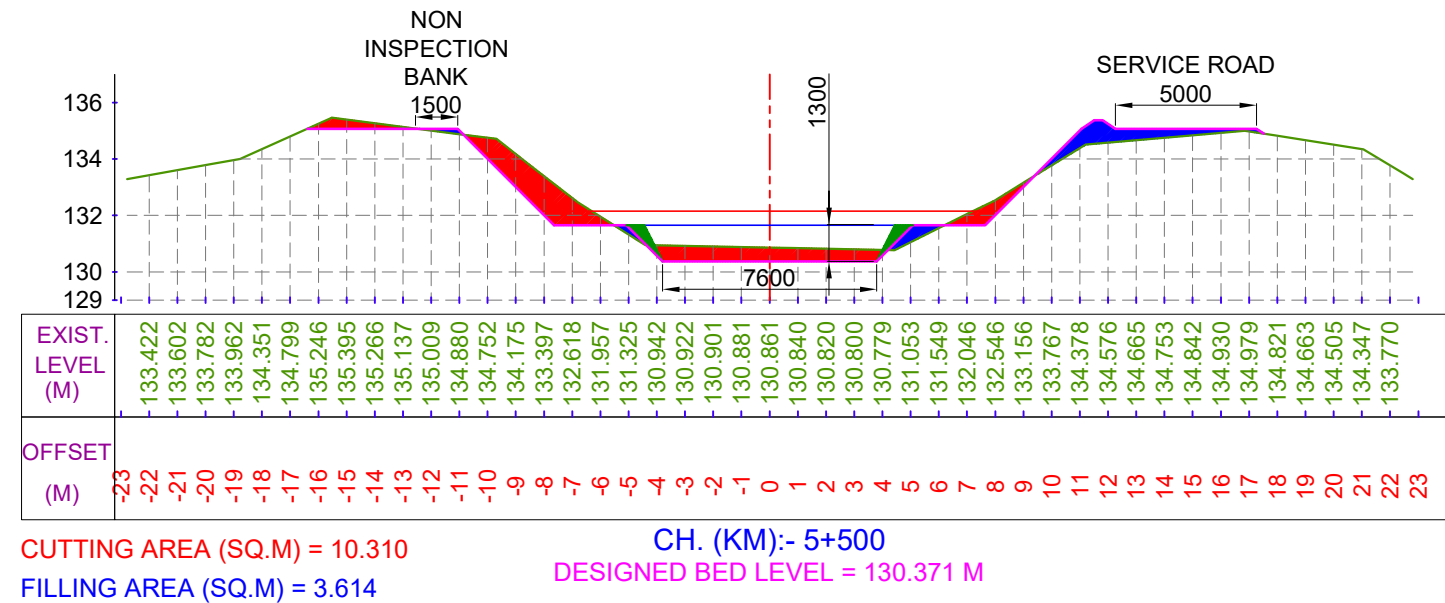
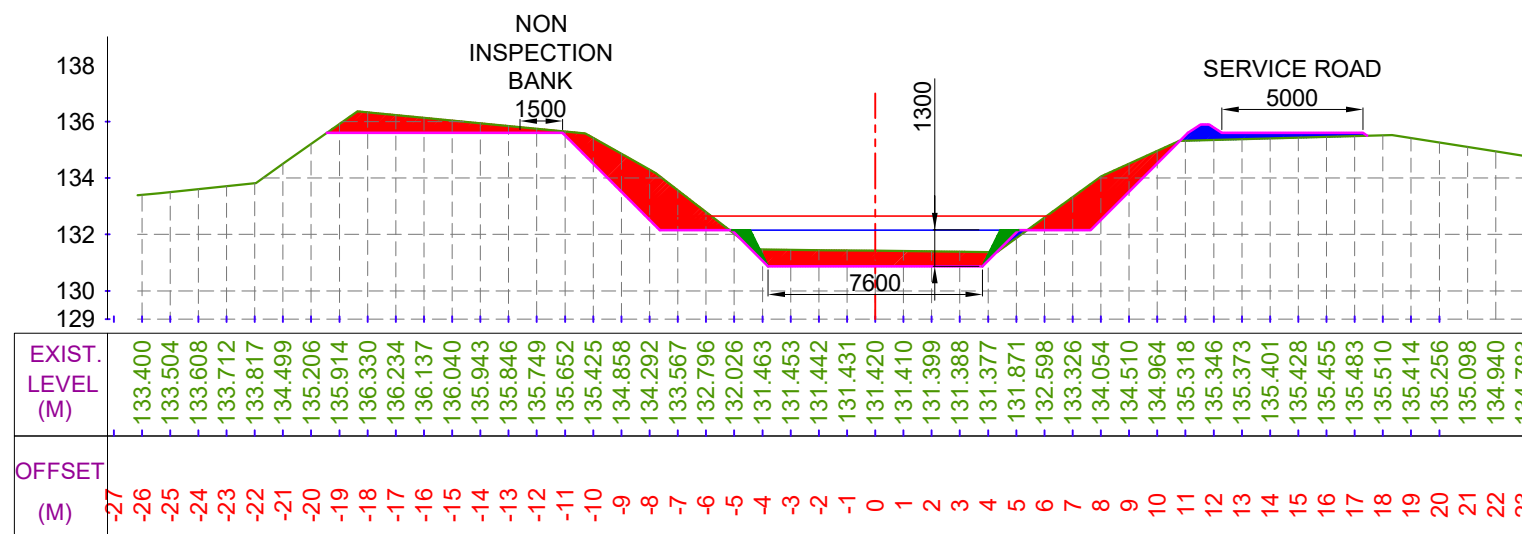
X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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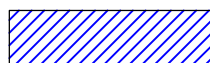
X SECTION OF KOTWARA DY.



LEGEND



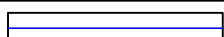
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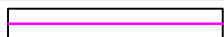
FILL AREA



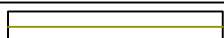
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

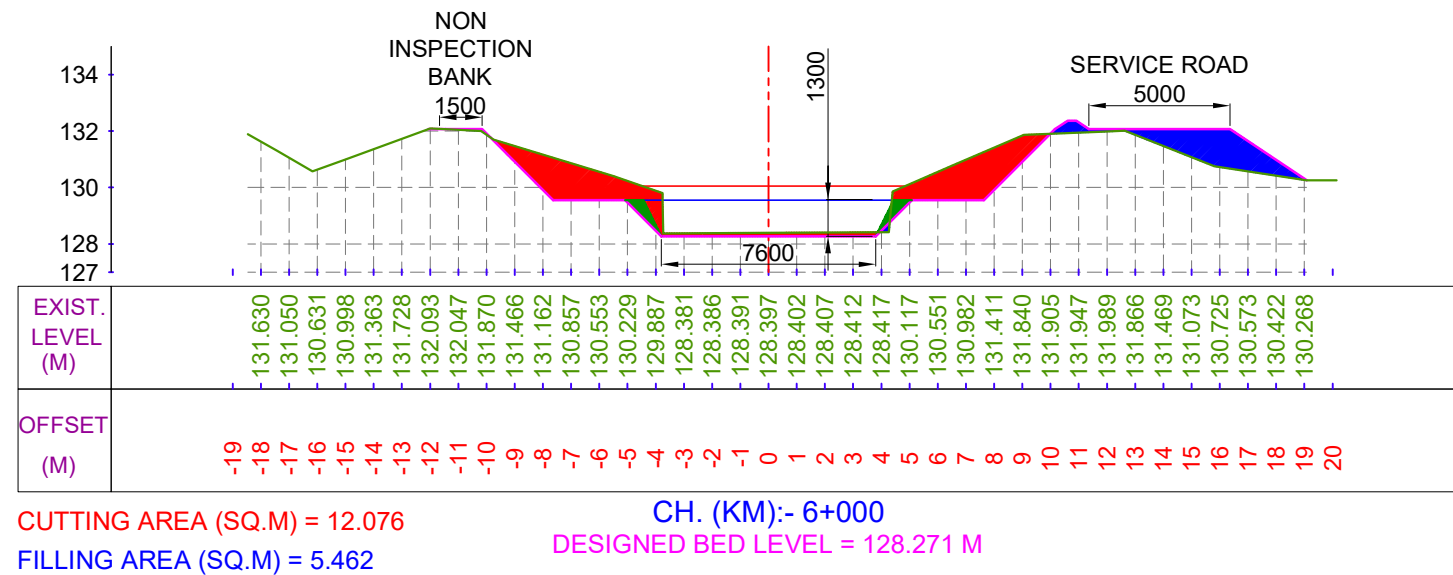
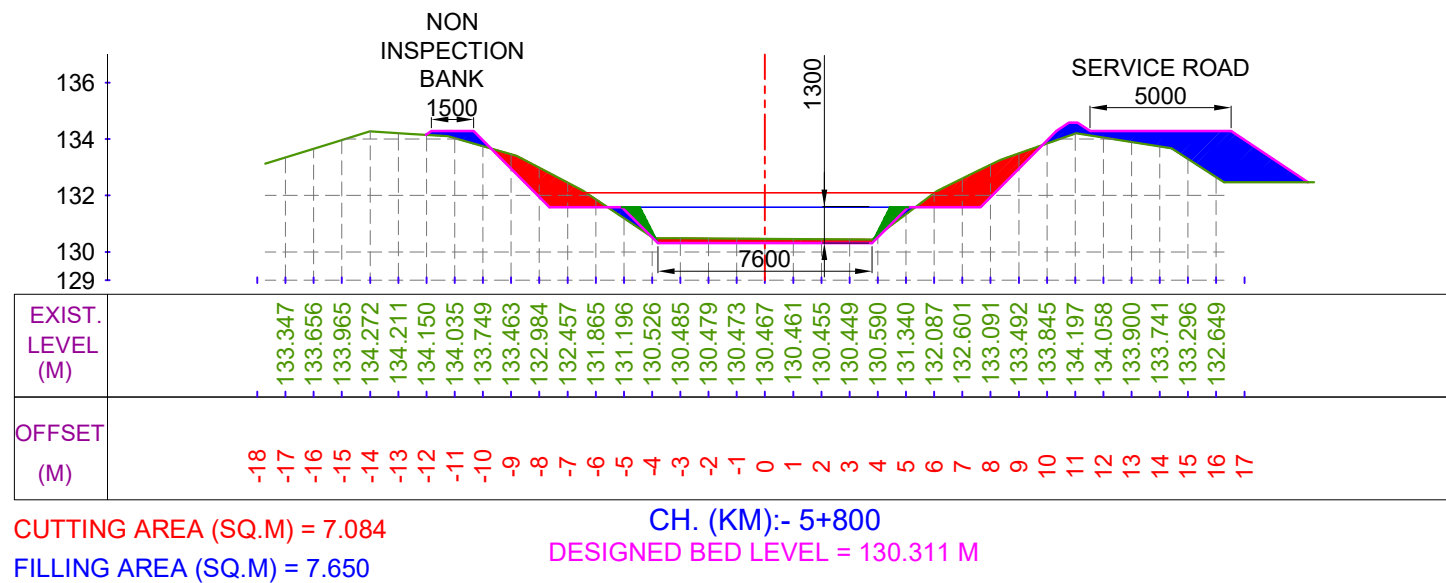
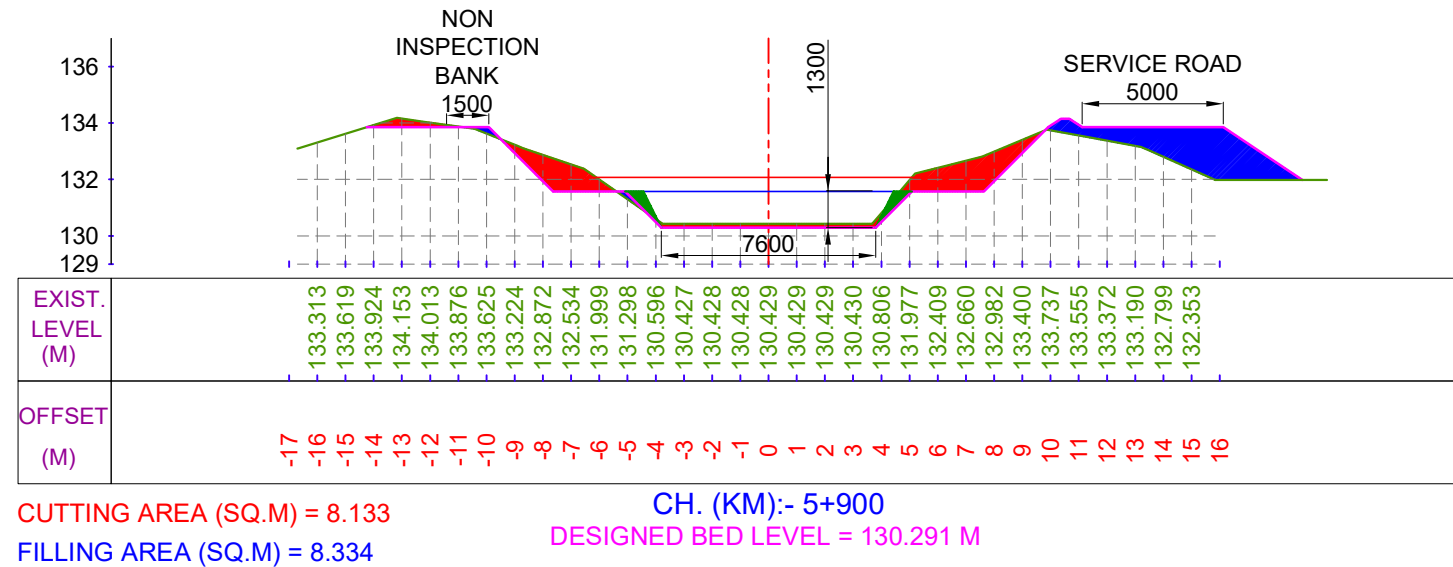
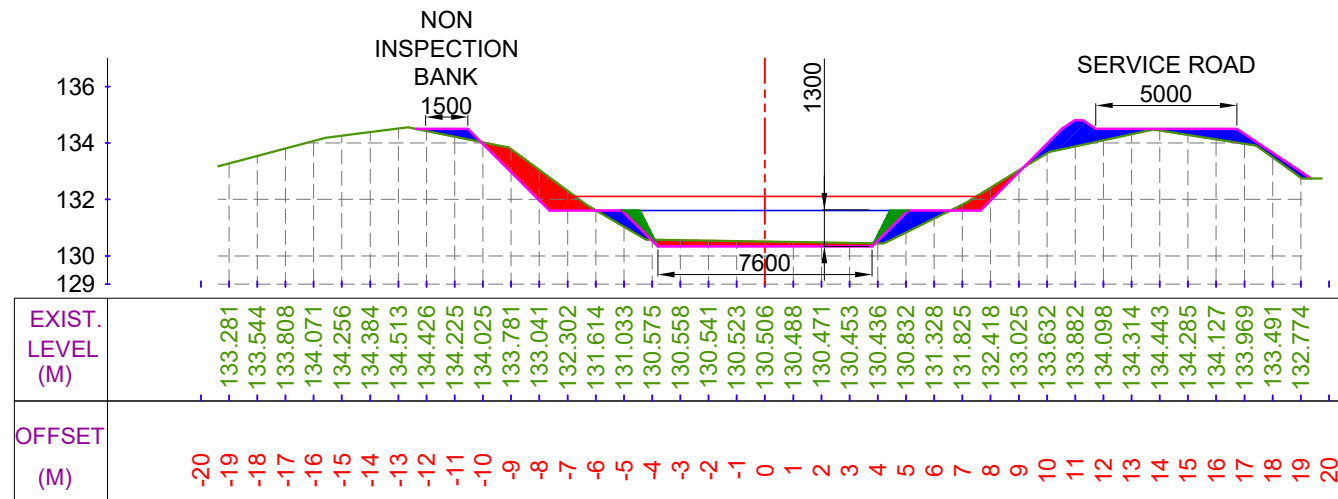
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

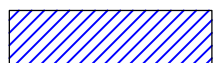
14 of 77



LEGEND



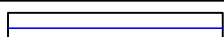
CUT AREA



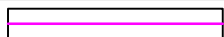
FILL AREA



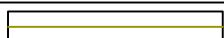
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

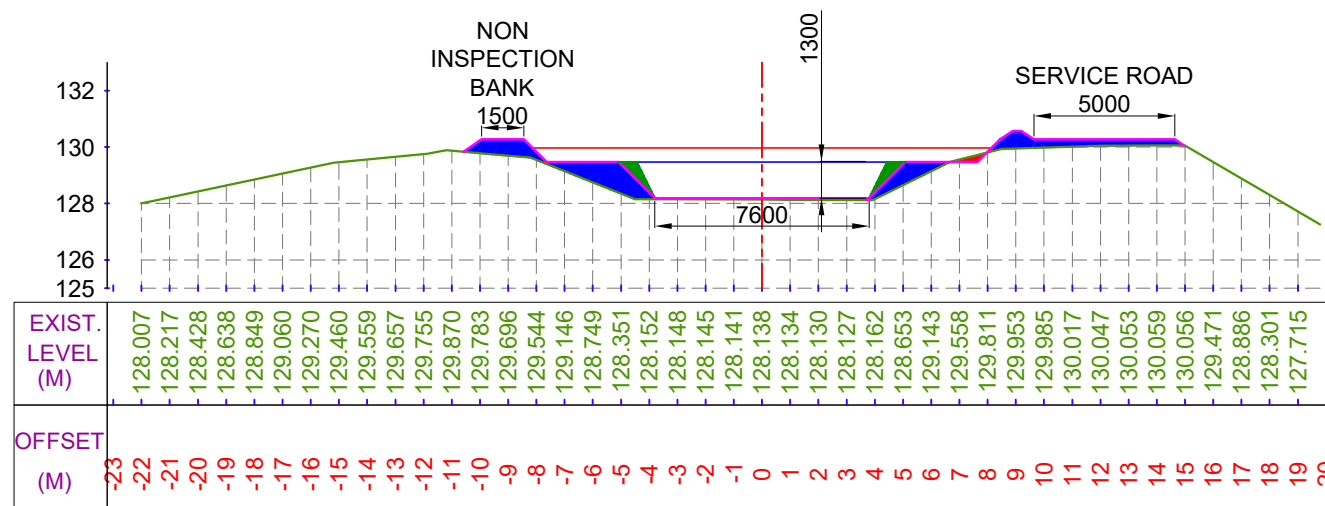
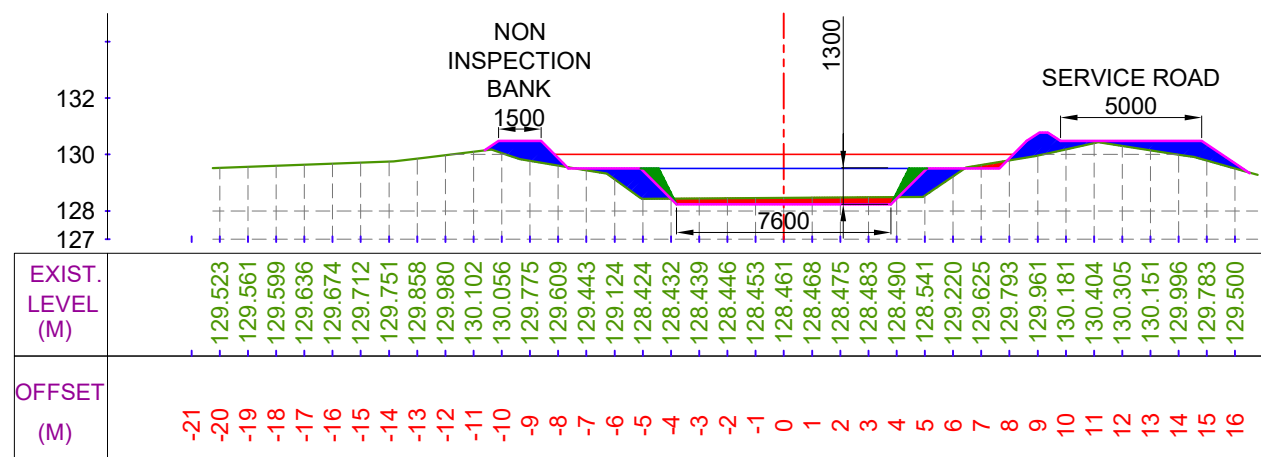
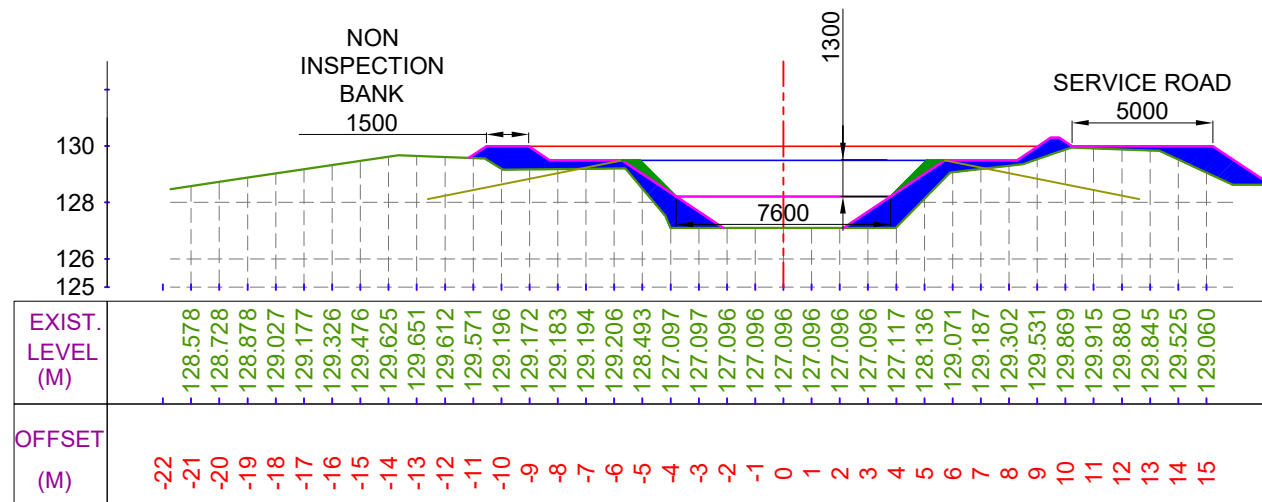
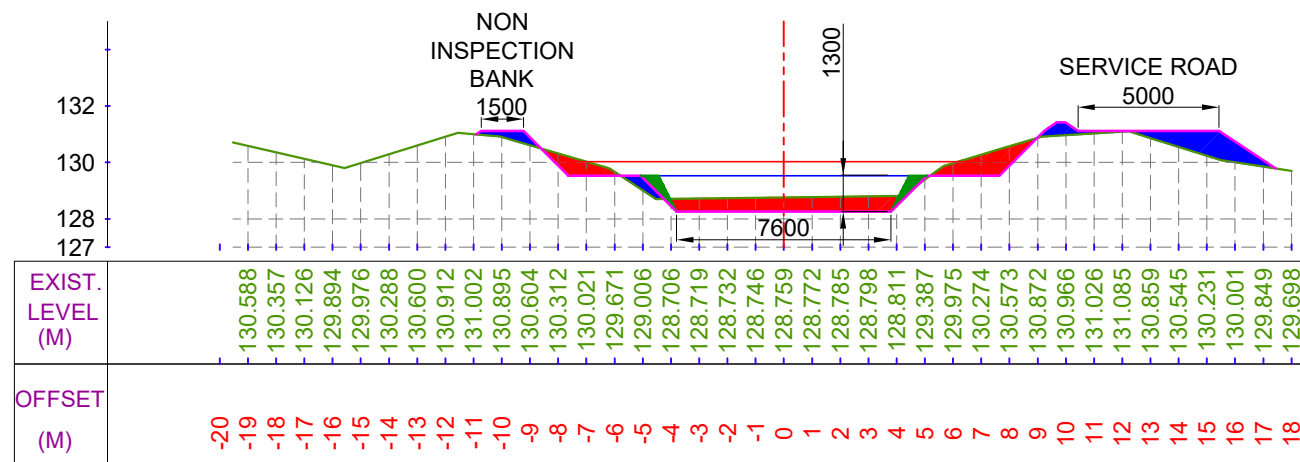
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

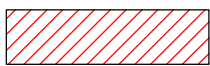
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

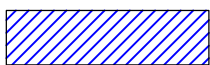
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LEGEND



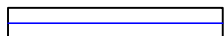
CUT AREA



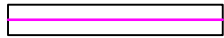
FILL AREA



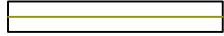
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

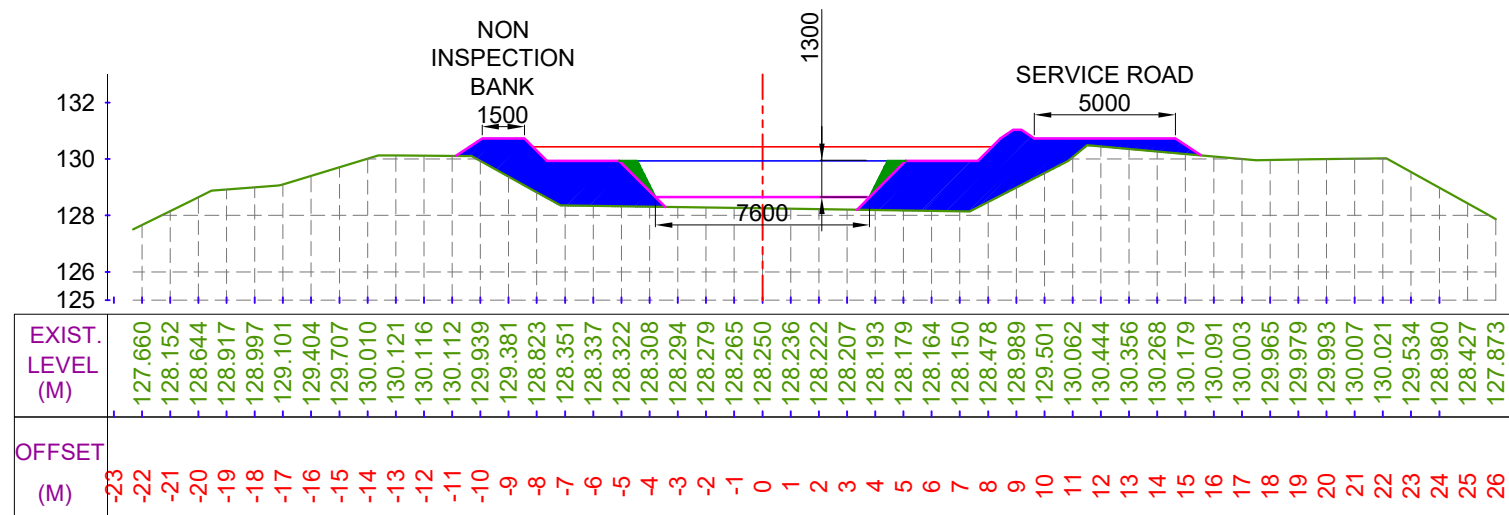
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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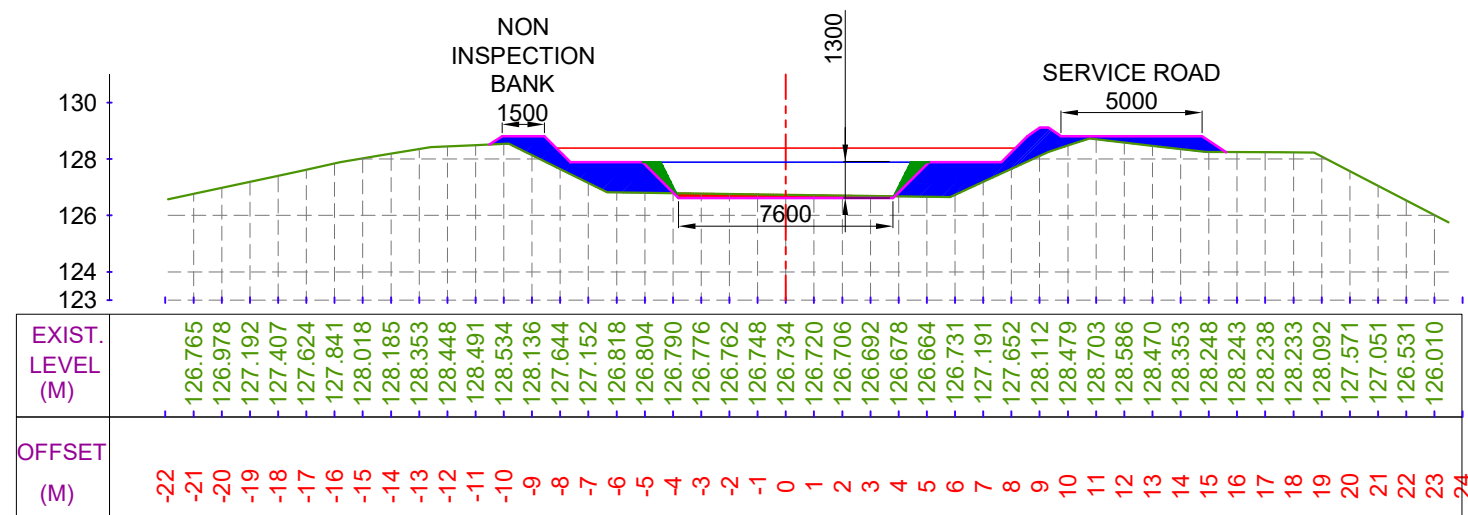


CUTTING AREA (SQ.M) = 0.000

FILLING AREA (SQ.M) = 21.593

CH. (KM):- 6+500

DESIGNED BED LEVEL = 128.651 M

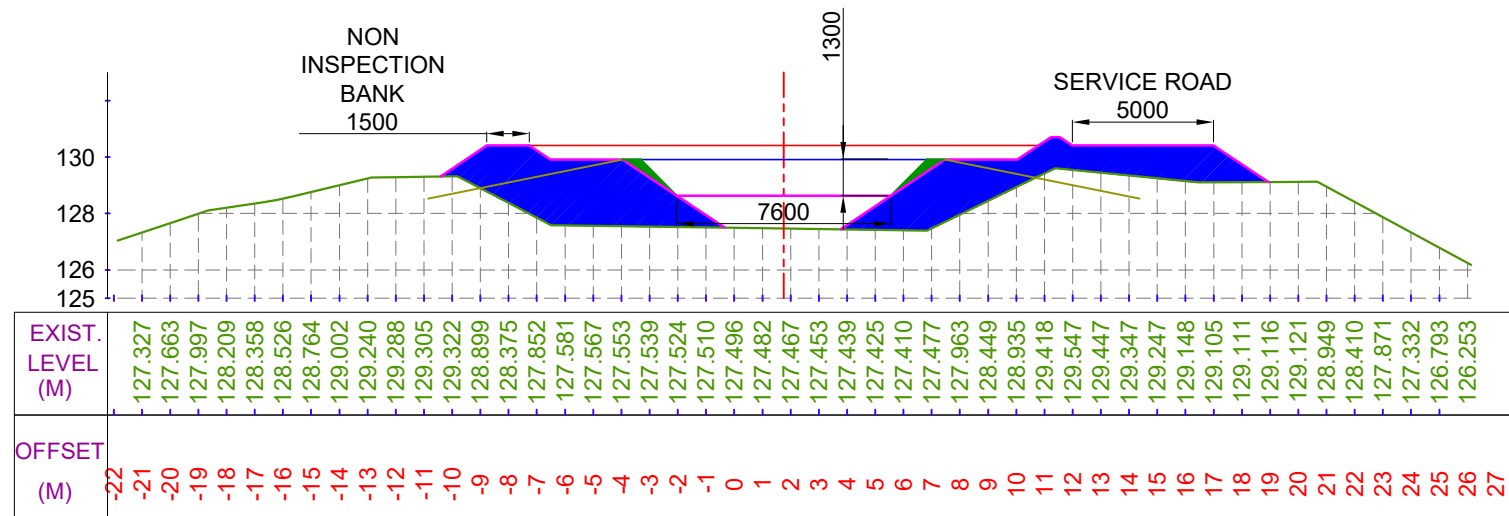


CUTTING AREA (SQ.M) = 0.945

FILLING AREA (SQ.M) = 10.871

CH. (KM):- 6+700

DESIGNED BED LEVEL = 126.611 M

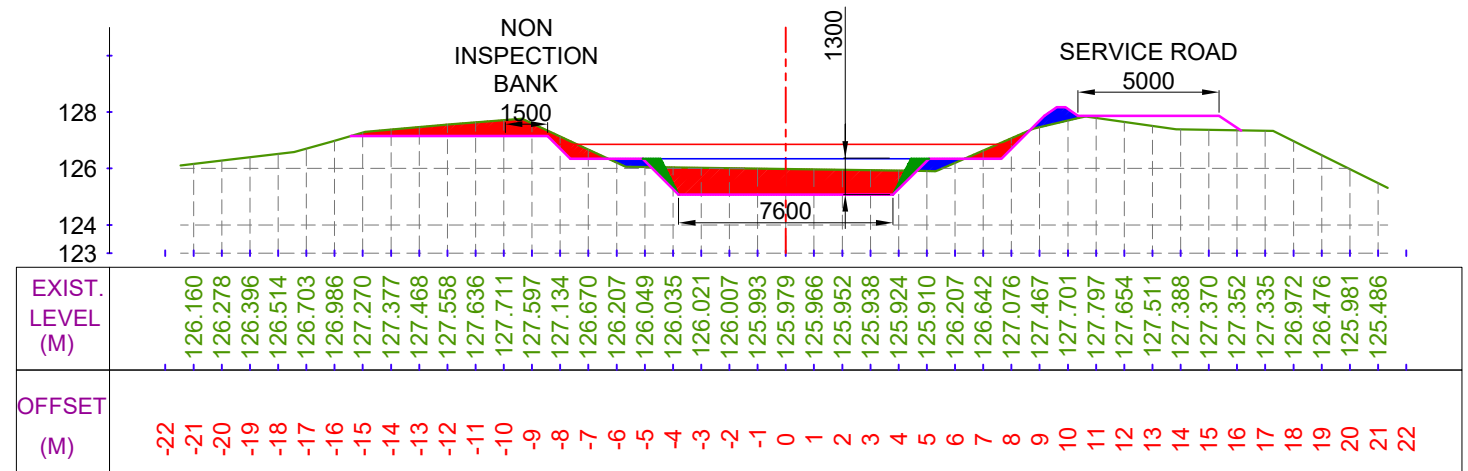


CUTTING AREA (SQ.M) = 0.000

FILLING AREA (SQ.M) = 33.726

CH. (KM):- 6+600

DESIGNED BED LEVEL = 126.631 M



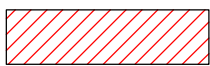
CUTTING AREA (SQ.M) = 11.260

FILLING AREA (SQ.M) = 1.342

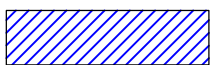
CH. (KM):- 6+800

DESIGNED BED LEVEL = 125.071 M

LEGEND



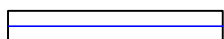
CUT AREA



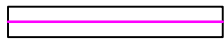
FILL AREA



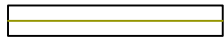
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

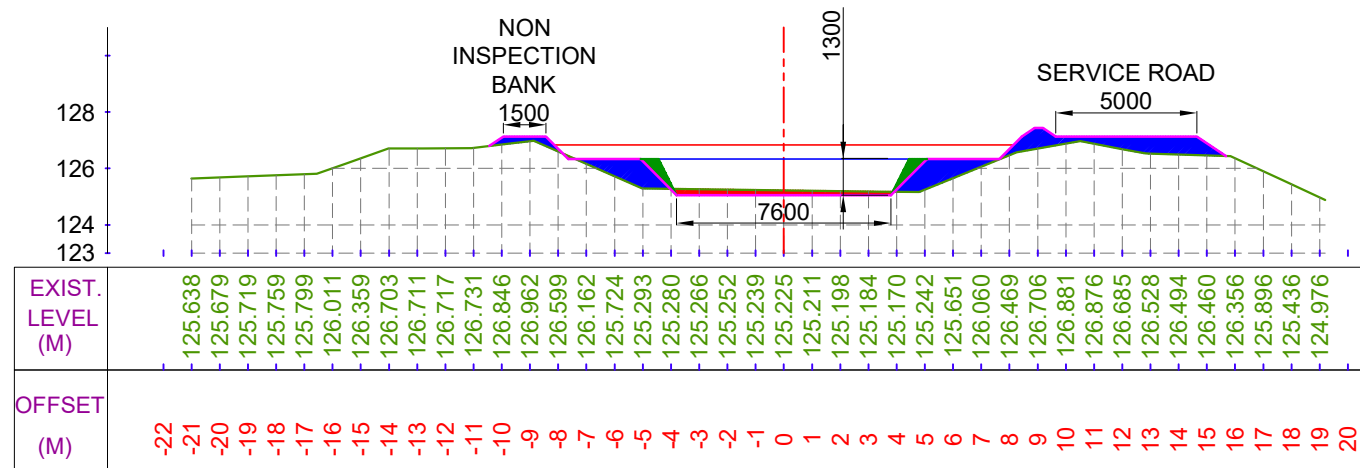
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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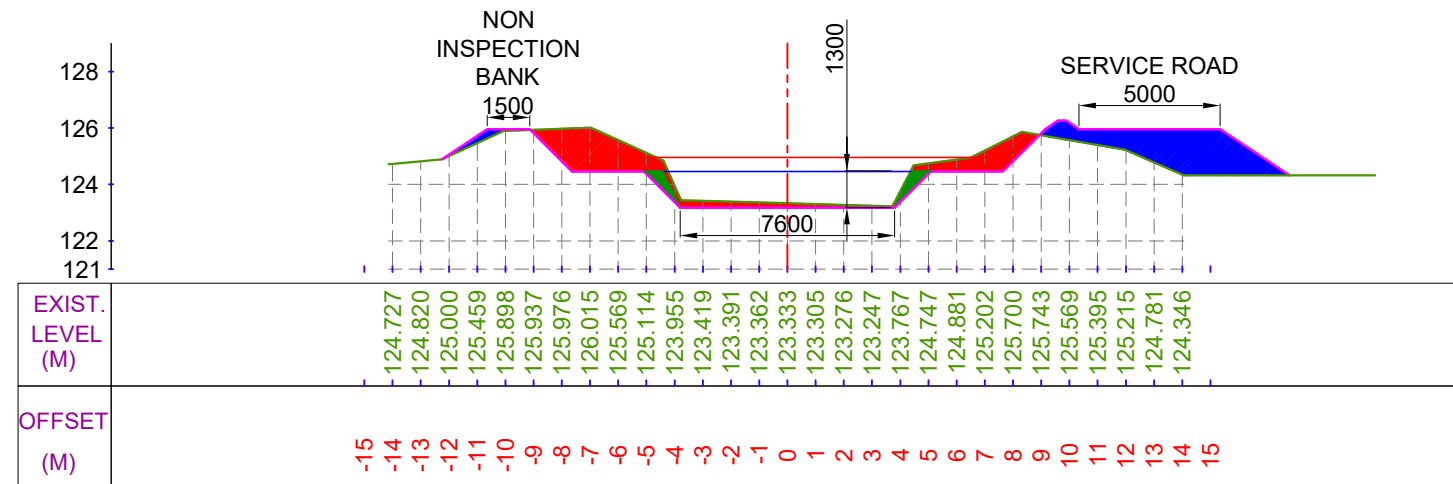


CUTTING AREA (SQ.M) = 1.363

CH. (KM):- 6+900

FILLING AREA (SQ.M) = 7.745

DESIGNED BED LEVEL = 125.051 M

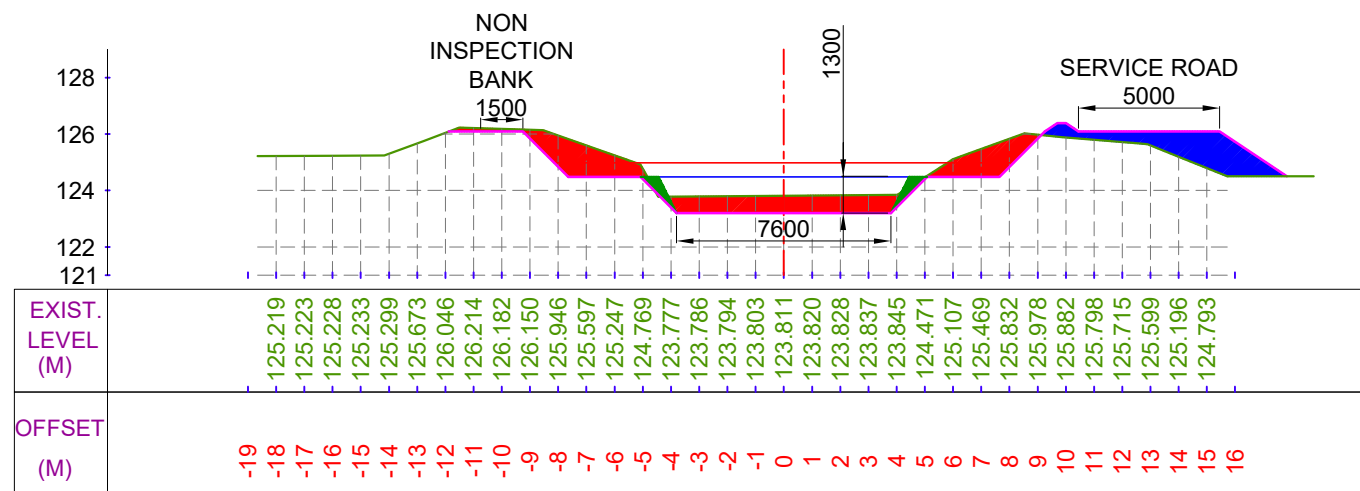


CUTTING AREA (SQ.M) = 8.584

CH. (KM):- 7+100

FILLING AREA (SQ.M) = 8.662

DESIGNED BED LEVEL = 123.181 M

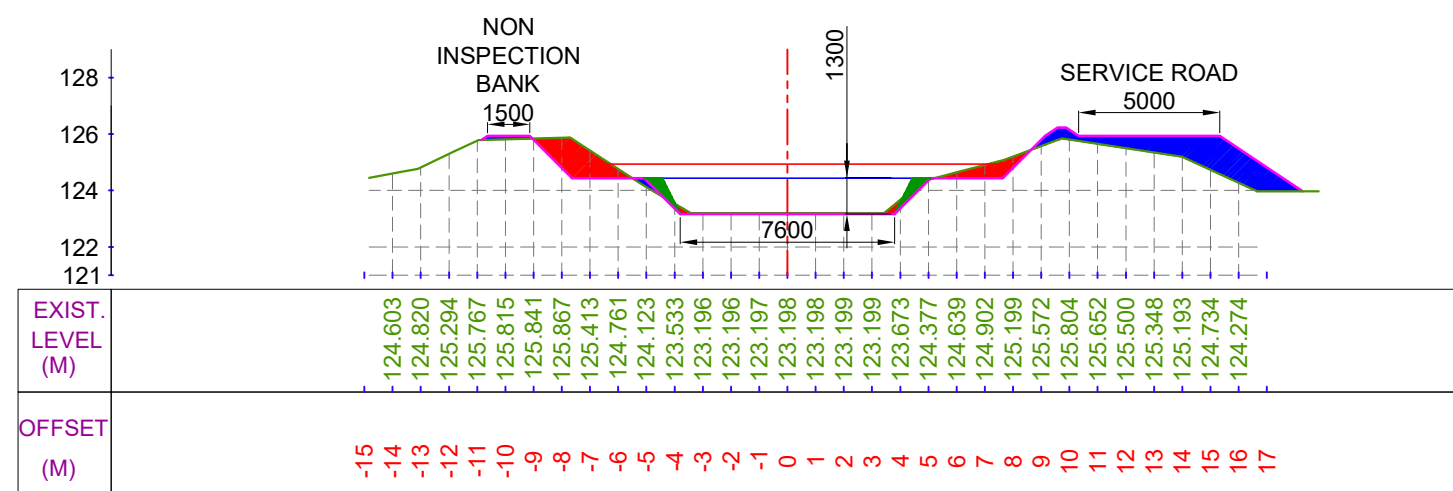


CUTTING AREA (SQ.M) = 11.505

CH. (KM):- 7+000

FILLING AREA (SQ.M) = 5.660

DESIGNED BED LEVEL = 123.201 M



CUTTING AREA (SQ.M) = 3.996

CH. (KM):- 7+200

FILLING AREA (SQ.M) = 6.372

DESIGNED BED LEVEL = 123.161 M

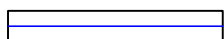
LEGEND



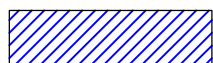
CUT AREA



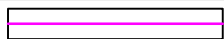
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

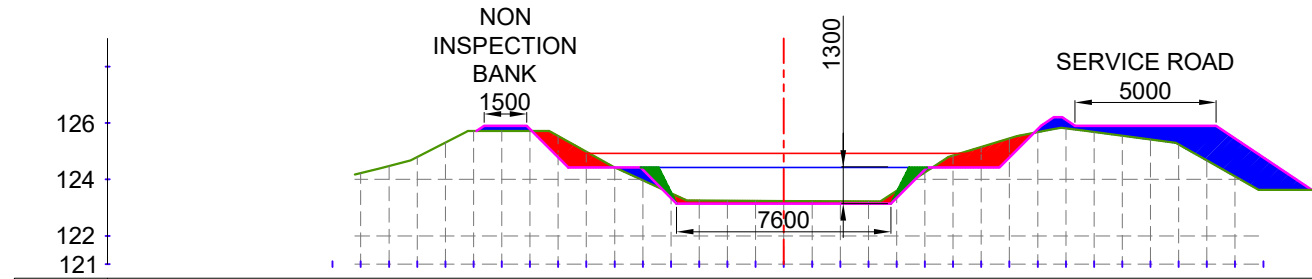
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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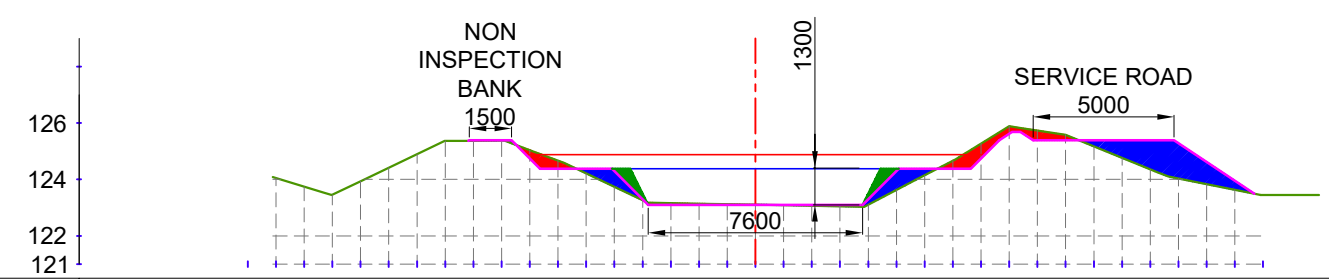
EXIST. LEVEL (M)	124.223	124.476	124.792	125.305	125.714	125.715	125.716	125.536	124.980	124.430	123.972	123.515	123.250	123.245	123.239	123.234	123.229	123.223	123.218	123.591	124.247	124.844	125.147	125.450	125.673	125.814	125.681	125.548	125.415	125.234	124.670	124.106		
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 7.167

CH. (KM):- 7+300

FILLING AREA (SQ.M) = 7.048

DESIGNED BED LEVEL = 123.141 M



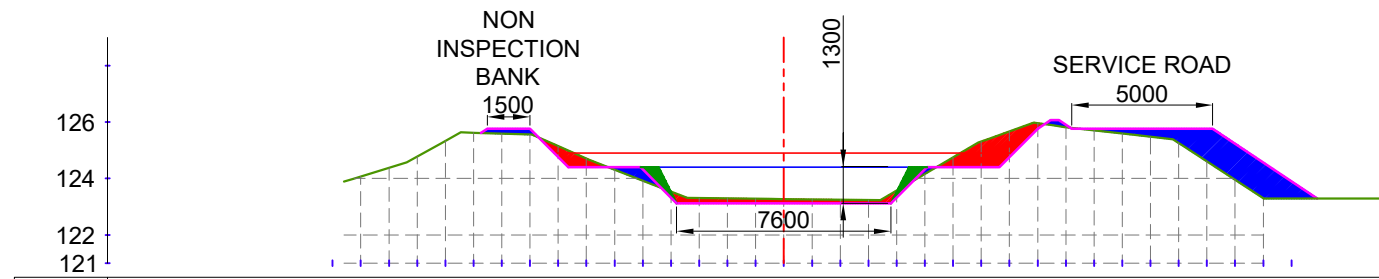
EXIST. LEVEL (M)	124.050	123.744	123.453	123.932	124.411	124.890	125.363	125.367	125.372	125.038	124.665	124.212	123.737	123.262	123.158	123.140	123.122	123.103	123.085	123.067	123.048	123.105	123.625	124.145	124.664	125.270	125.884	125.731	125.576	125.170	124.765	124.359	124.029	123.829	123.630		
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

CUTTING AREA (SQ.M) = 2.215

CH. (KM):- 7+500

FILLING AREA (SQ.M) = 6.118

DESIGNED BED LEVEL = 123.101 M



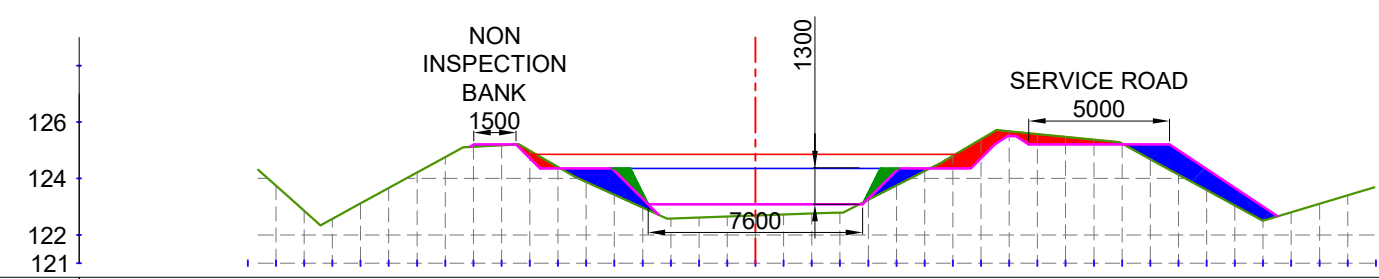
EXIST. LEVEL (M)	124.071	124.377	124.776	125.333	125.623	125.591	125.559	125.145	124.704	124.311	123.922	123.533	123.304	123.293	123.282	123.270	123.259	123.248	123.237	123.571	124.158	124.746	125.310	125.671	125.961	125.820	125.708	125.595	125.483	125.259	124.608	123.957	123.306		
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

CUTTING AREA (SQ.M) = 4.362

CH. (KM):- 7+400

FILLING AREA (SQ.M) = 6.258

DESIGNED BED LEVEL = 123.121 M



EXIST. LEVEL (M)	123.749	122.859	122.570	123.121	123.668	124.214	124.761	125.129	125.182	124.987	124.411	123.880	123.426	122.974	122.586	122.620	122.654	122.689	122.723	122.757	122.791	123.247	123.755	124.264	124.808	125.397	125.672	125.574	125.476	125.377	125.237	124.688	124.141	123.594	123.047	122.511	122.809	123.107	123.405		
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

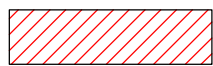
CUTTING AREA (SQ.M) = 2.580

CH. (KM):- 7+600

FILLING AREA (SQ.M) = 5.481

DESIGNED BED LEVEL = 123.081 M

LEGEND



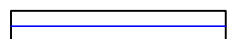
CUT AREA



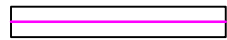
FILL AREA



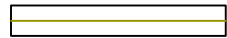
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

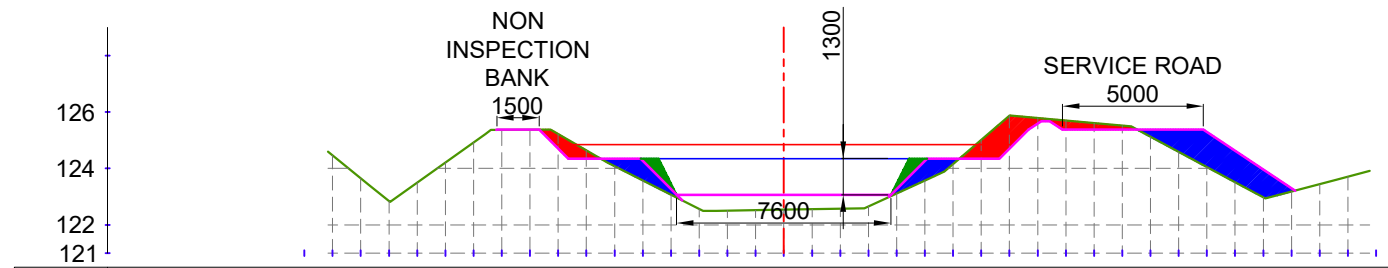
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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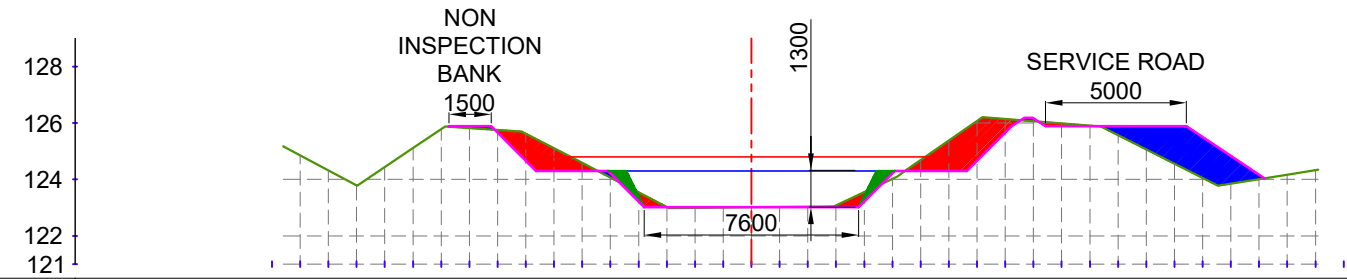
EXIST. LEVEL (M)	124.459	123.650	122.842	123.500	124.212	124.924	125.366	125.371	125.215	124.637	124.078	123.572	123.065	122.559	122.506	122.523	122.540	122.557	122.574	122.655	123.114	123.574	124.154	125.011	125.868	125.788	125.697	125.605	125.514	125.118	124.583	124.048	123.512	122.977	123.179	123.442	123.705		
OFFSET (M)	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

CUTTING AREA (SQ.M) = 3.426

CH. (KM):- 7+700

DESIGNED BED LEVEL = 123.061 M

FILLING AREA (SQ.M) = 6.497



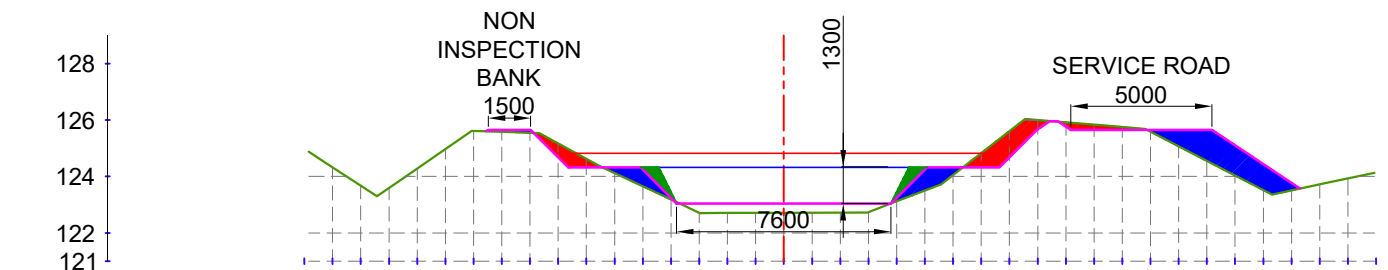
EXIST. LEVEL (M)	124.849	124.320	123.791	124.436	125.109	125.782	125.821	125.754	125.622	125.103	124.584	124.066	123.547	123.028	122.996	123.004	123.012	123.020	123.028	123.075	123.550	124.024	124.684	125.377	126.071	126.140	126.063	125.985	125.908	125.570	125.065	124.561	124.056	123.854	124.011	124.168	124.326		
OFFSET (M)	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

CUTTING AREA (SQ.M) = 6.146

CH. (KM):- 7+900

DESIGNED BED LEVEL = 123.021 M

FILLING AREA (SQ.M) = 5.621



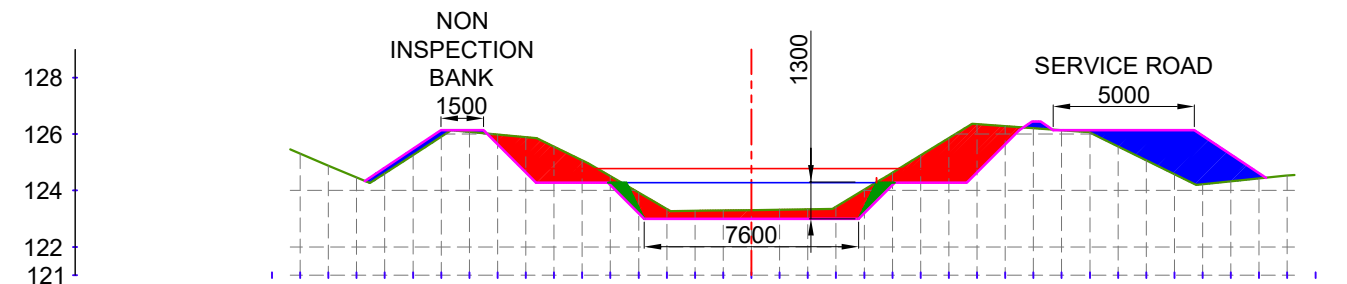
EXIST. LEVEL (M)	124.325	123.670	123.594	124.287	124.980	125.620	125.584	125.548	125.169	124.624	124.122	123.653	123.185	122.716	122.708	122.712	122.716	122.720	122.725	122.742	123.123	123.504	124.054	124.833	125.612	126.004	125.920	125.836	125.752	125.588	125.072	124.556	124.040	123.524	123.509	123.719	123.929		
OFFSET (M)	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

CUTTING AREA (SQ.M) = 3.073

CH. (KM):- 7+800

DESIGNED BED LEVEL = 123.041 M

FILLING AREA (SQ.M) = 6.004



EXIST. LEVEL (M)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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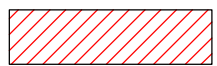
CUTTING AREA (SQ.M) = 12.454

CH. (KM):- 8+000

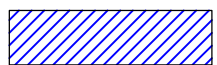
DESIGNED BED LEVEL = 123.001 M

FILLING AREA (SQ.M) = 7.066

LEGEND



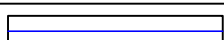
CUT AREA



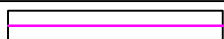
FILL AREA



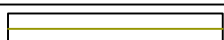
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

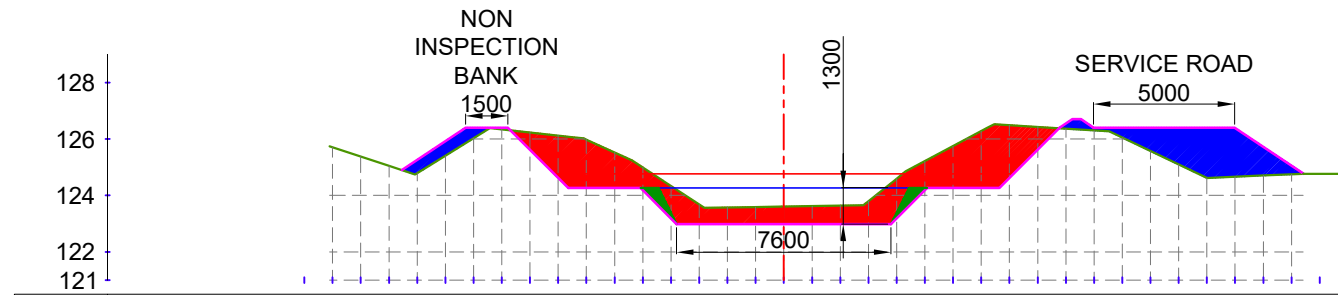
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

20 of 77



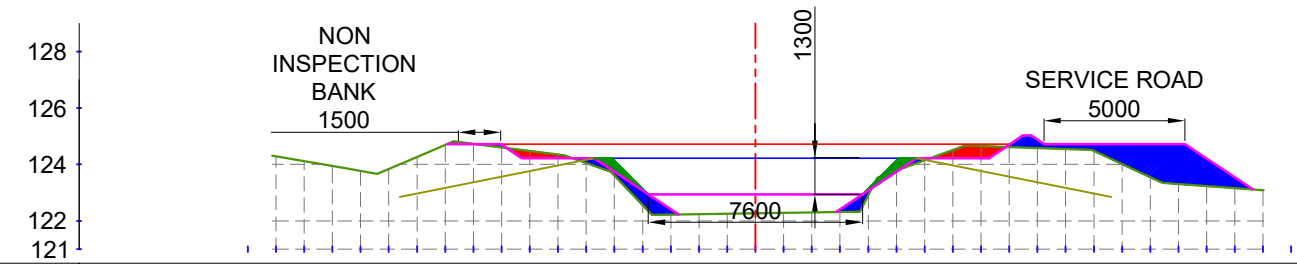
EXIST. LEVEL (M)	125.706	125.377	125.048	124.788	125.410	126.032	126.344	126.232	126.121	125.978	125.525	124.993	124.334	123.674	123.571	123.587	123.603	123.619	123.636	123.796	124.593	125.212	125.744	126.277	126.490	126.427	126.364	126.302	126.049	125.573	125.098	124.622	124.663	124.706	124.750		
OFFSET (M)	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CUTTING AREA (SQ.M) = 19.631

FILLING AREA (SQ.M) = 8.844

CH. (KM):- 8+100

DESIGNED BED LEVEL = 122.981 M



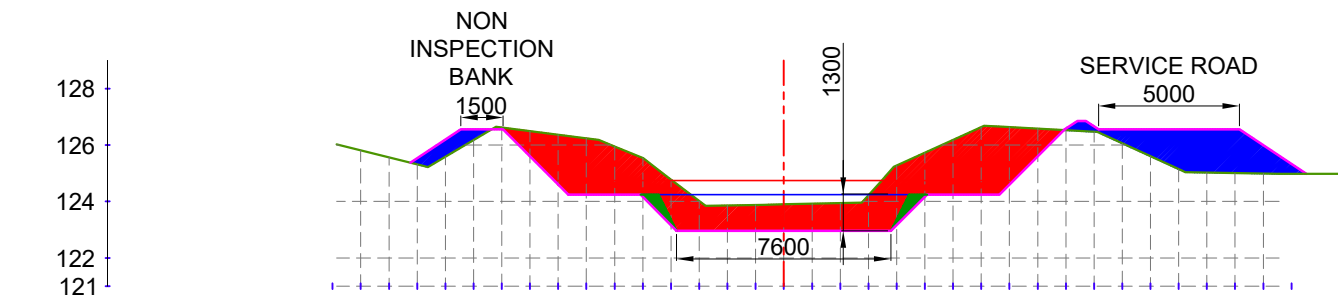
EXIST. LEVEL (M)	126.285	126.114	125.943	125.771	125.843	126.267	126.692	126.729	126.602	126.476	126.350	126.047	125.606	124.556	124.217	124.234	124.250	124.266	124.283	124.299	124.315	124.904	125.780	126.146	126.509	126.652	126.617	126.582	126.546	126.479	126.012	125.549	125.308	125.235	125.163	125.090		
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CUTTING AREA (SQ.M) = 1.205

FILLING AREA (SQ.M) = 7.069

CH. (KM):- 8+300

DESIGNED BED LEVEL = 122.941 M



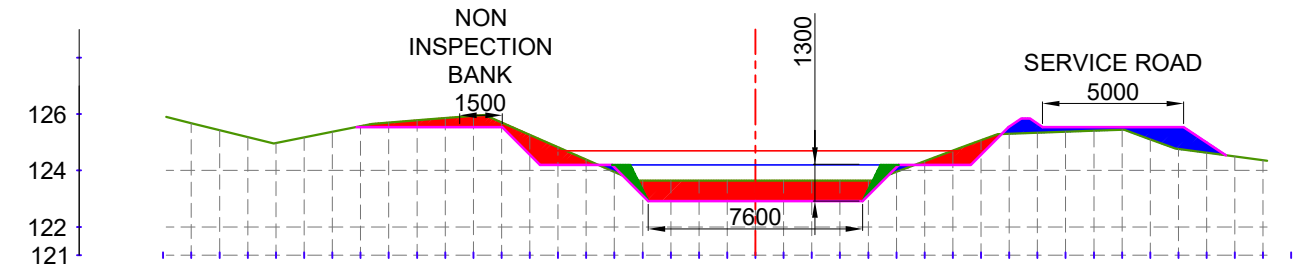
EXIST. LEVEL (M)	125.815	125.567	125.319	125.590	126.180	126.621	126.492	126.364	126.236	125.948	125.536	124.777	124.015	123.858	123.878	123.899	123.919	123.940	124.217	125.270	125.727	126.183	126.639	126.635	126.579	126.524	126.469	126.059	125.602	125.146	125.024	125.008	124.991		
OFFSET (M)	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

CUTTING AREA (SQ.M) = 26.790

FILLING AREA (SQ.M) = 8.852

CH. (KM):- 8+200

DESIGNED BED LEVEL = 122.961 M



EXIST. LEVEL (M)	125.679	125.432	125.185	124.971	125.171	125.370	125.569	125.699	125.779	125.860	125.941	125.707	125.266	124.826	124.389	123.951	123.641	123.640	123.640	123.639	123.639	123.638	123.638	123.952	124.327	124.702	125.074	125.306	125.340	125.375	125.410	125.445	125.106	124.763	124.632	124.501	124.369				
OFFSET (M)	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

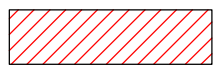
CUTTING AREA (SQ.M) = 9.823

FILLING AREA (SQ.M) = 2.731

CH. (KM):- 8+400

DESIGNED BED LEVEL = 122.921 M

LEGEND



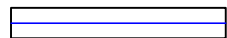
CUT AREA



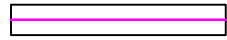
FILL AREA



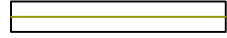
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

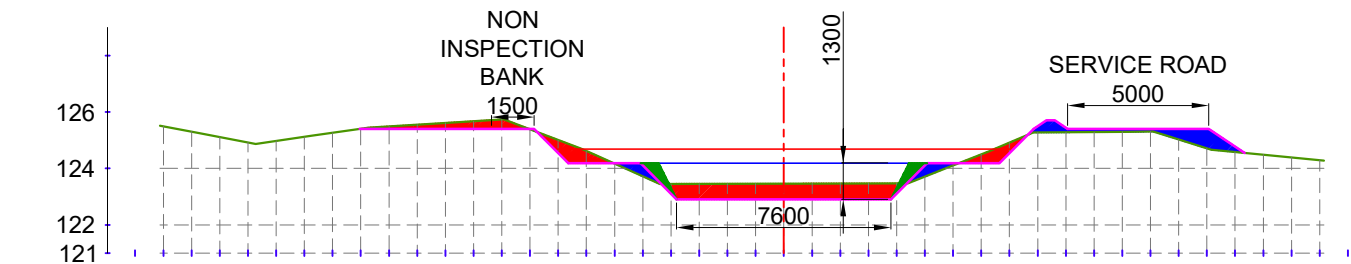
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

21 of 77



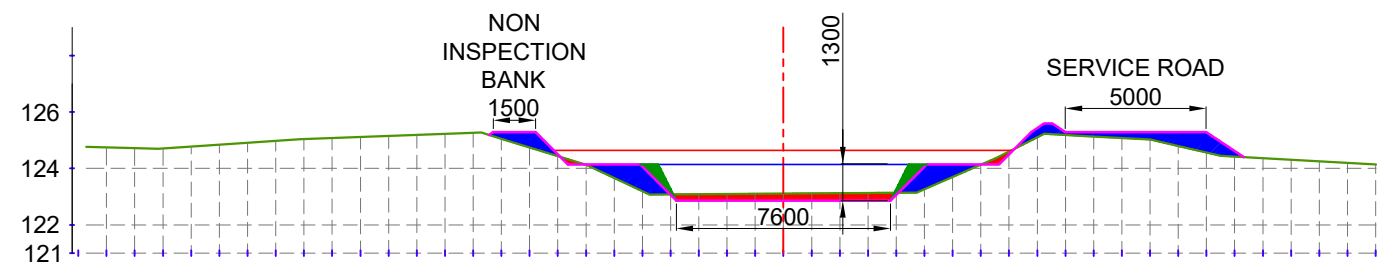
EXIST. LEVEL (M)	125.496	125.305	125.115	124.924	124.975	125.119	125.263	125.407	125.491	125.552	125.613	125.674	125.735	125.386	125.006	124.613	124.167	123.721	123.453	123.456	123.458	123.461	123.463	123.466	123.468	123.471	123.473	123.712	124.105	124.499	124.912	125.270	125.279	125.288	125.296	125.305	125.024	124.713	124.585	124.488	124.391	124.294		
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

CUTTING AREA (SQ.M) = 7.168

CH. (KM):- 8+500

FILLING AREA (SQ.M) = 2.742

DESIGNED BED LEVEL = 122.901 M



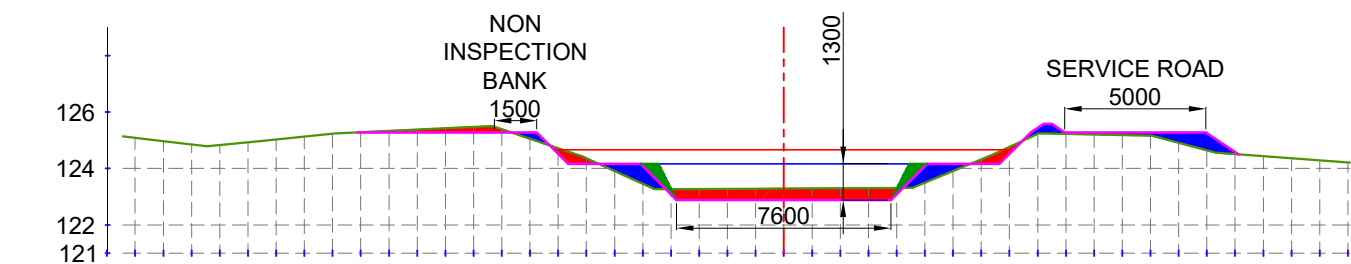
EXIST. LEVEL (M)	124.743	124.720	124.711	124.779	124.846	124.913	124.981	125.044	125.081	125.117	125.154	125.190	125.226	125.263	125.051	124.744	124.436	124.129	123.662	123.194	123.081	123.088	123.096	123.104	123.111	123.119	123.126	123.134	123.142	123.265	123.699	124.133	124.600	125.104	125.184	125.131	125.077	125.024	124.795	124.565	124.421	124.365	124.308	124.252	124.196	124.140	
OFFSET (M)	-24	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

CUTTING AREA (SQ.M) = 2.176

CH. (KM):- 8+700

FILLING AREA (SQ.M) = 6.084

DESIGNED BED LEVEL = 122.861 M



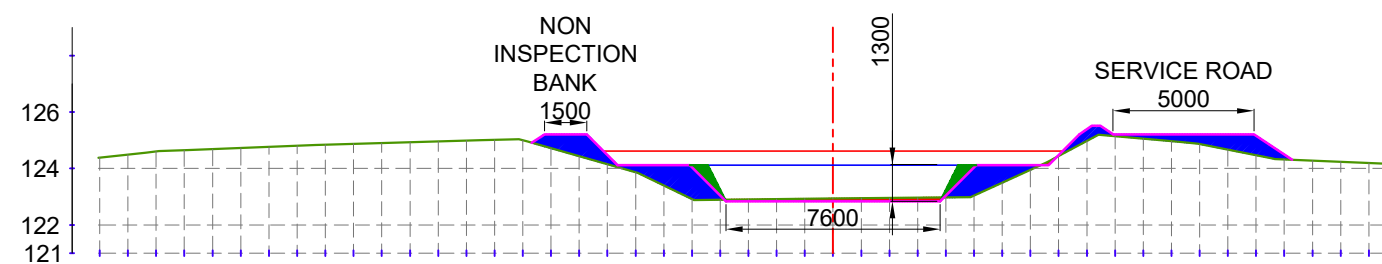
EXIST. LEVEL (M)	125.088	124.970	124.851	124.832	124.933	125.034	125.135	125.237	125.287	125.334	125.381	125.428	125.475	125.393	125.054	124.716	124.366	123.910	123.454	123.267	123.272	123.277	123.282	123.287	123.292	123.298	123.303	123.308	123.496	123.909	124.323	124.766	125.231	125.227	125.207	125.186	125.165	124.909	124.642	124.508	124.434	124.361	124.288	124.214
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

CUTTING AREA (SQ.M) = 4.582

CH. (KM):- 8+600

FILLING AREA (SQ.M) = 3.526

DESIGNED BED LEVEL = 122.881 M



EXIST. LEVEL (M)	124.386	124.495	124.604	124.651	124.691	124.731	124.770	124.810	124.846	124.874	124.902	124.931	124.959	124.987	125.015	125.000	124.717	124.434	124.150	123.867	123.398	122.915	122.896	122.906	122.916	122.926	122.935	122.945	122.955	122.965	122.975	123.042	123.497	123.952	124.440	124.978	125.149	125.059	125.059	124.968	124.871	124.672	124.472	124.325	124.282	124.239	124.195	124.152	124.109
OFFSET (M)	-26	-25	-24	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

CUTTING AREA (SQ.M) = 0.756

CH. (KM):- 8+800

FILLING AREA (SQ.M) = 8.284

DESIGNED BED LEVEL = 122.841 M

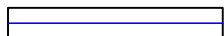
LEGEND



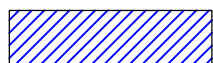
CUT AREA



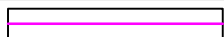
EXISTING BED LINE



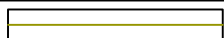
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

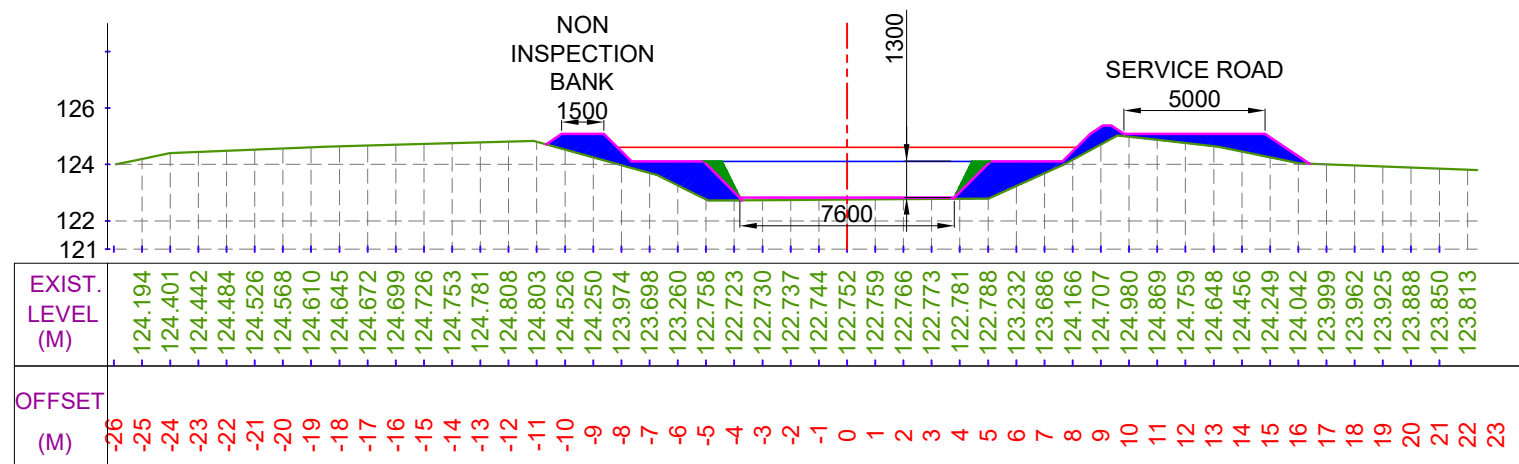
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

22 of 77

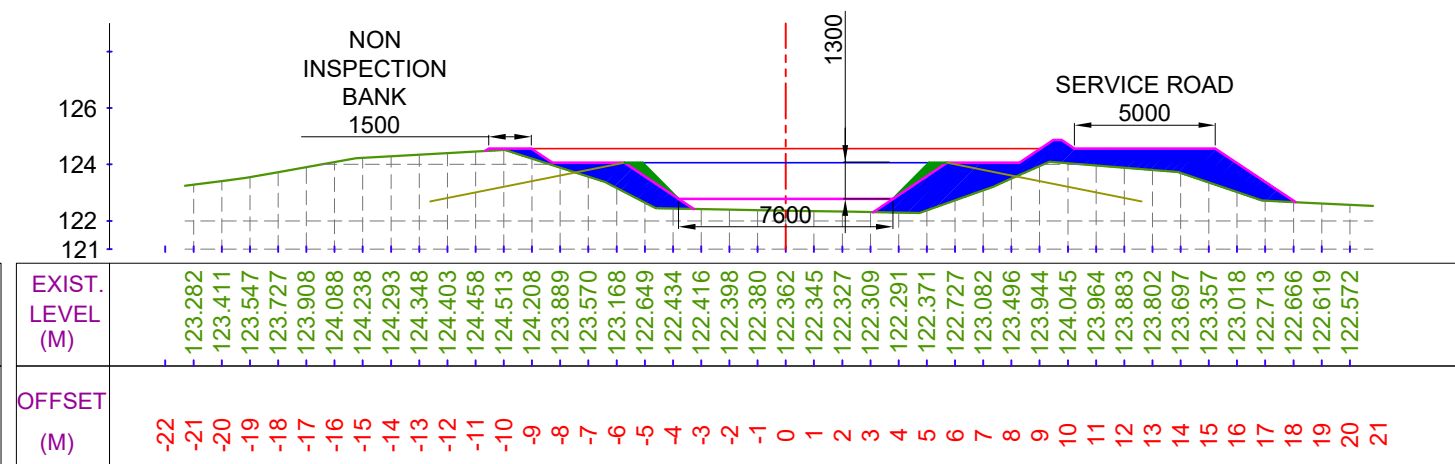


CUTTING AREA (SQ.M) = 0.000

CH. (KM):- 8+900

FILLING AREA (SQ.M) = 10.704

DESIGNED BED LEVEL = 122.821 M

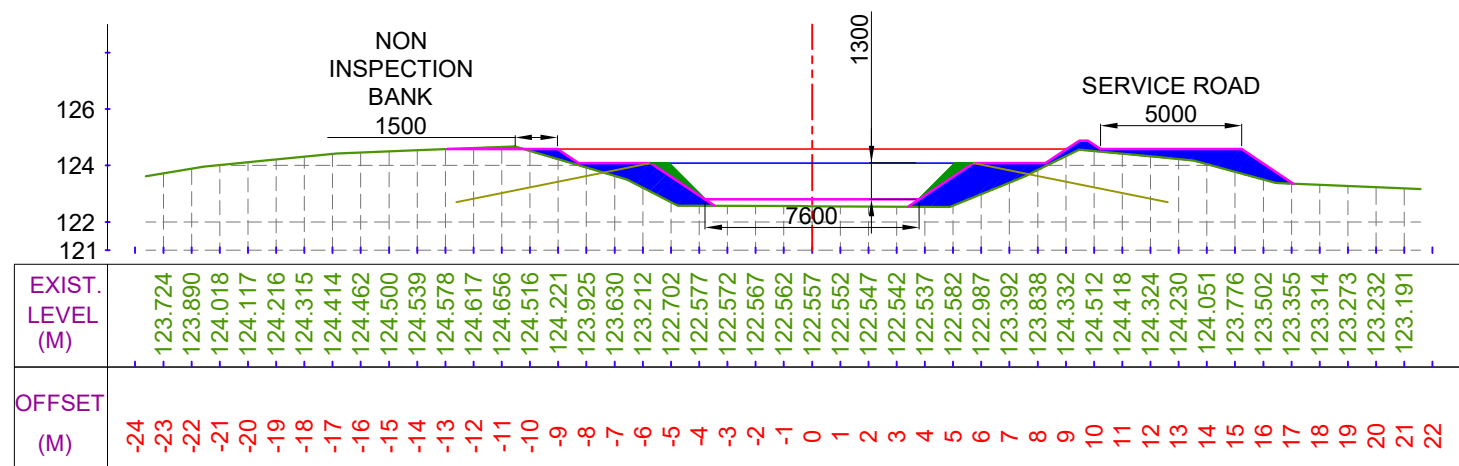


CUTTING AREA (SQ.M) = 0.000

CH. (KM):- 9+100

FILLING AREA (SQ.M) = 15.245

DESIGNED BED LEVEL = 122.781 M

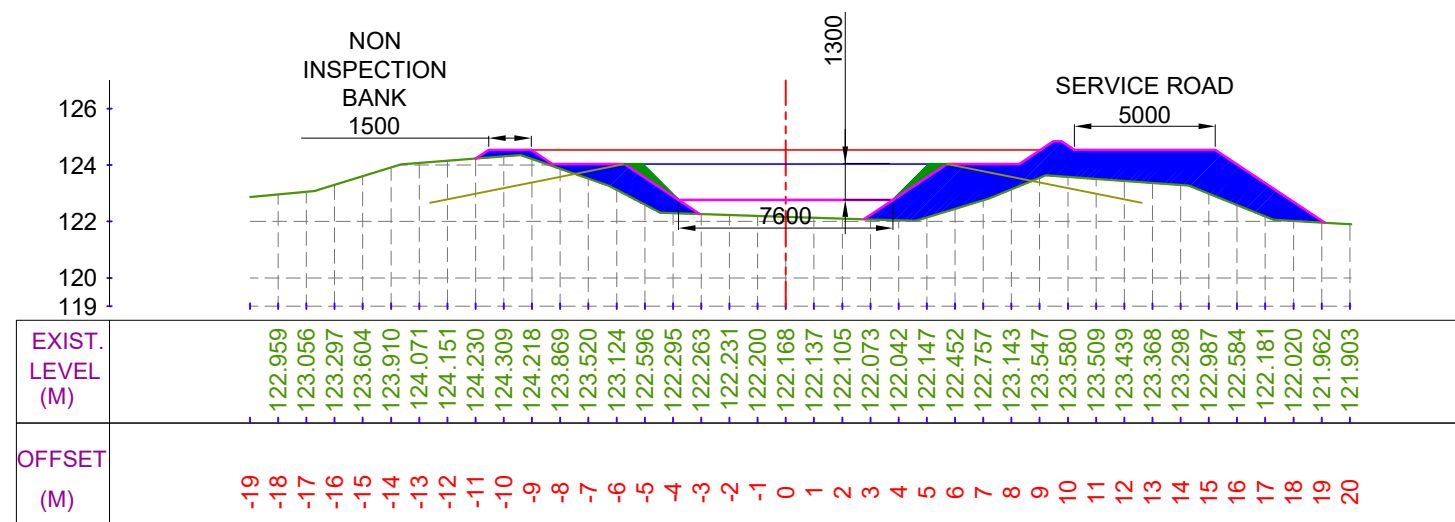


CUTTING AREA (SQ.M) = 0.125

CH. (KM):- 9+000

FILLING AREA (SQ.M) = 9.675

DESIGNED BED LEVEL = 122.801 M



CUTTING AREA (SQ.M) = 0.000

CH. (KM):- 9+200

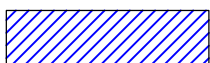
FILLING AREA (SQ.M) = 21.587

DESIGNED BED LEVEL = 122.761 M

LEGEND



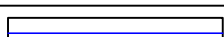
CUT AREA



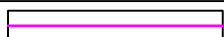
FILL AREA



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

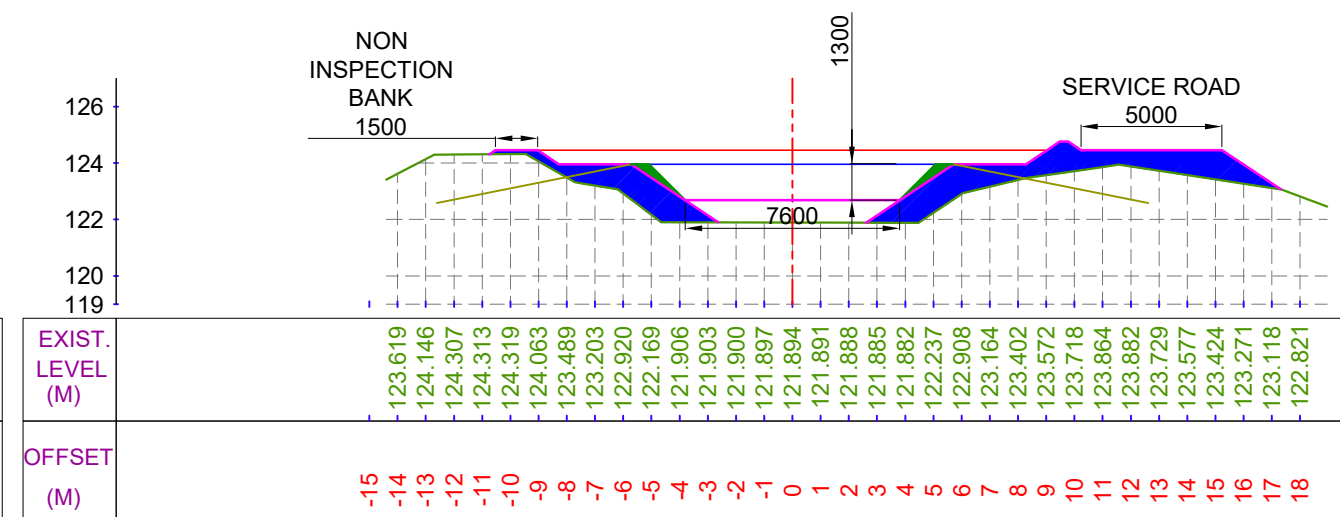
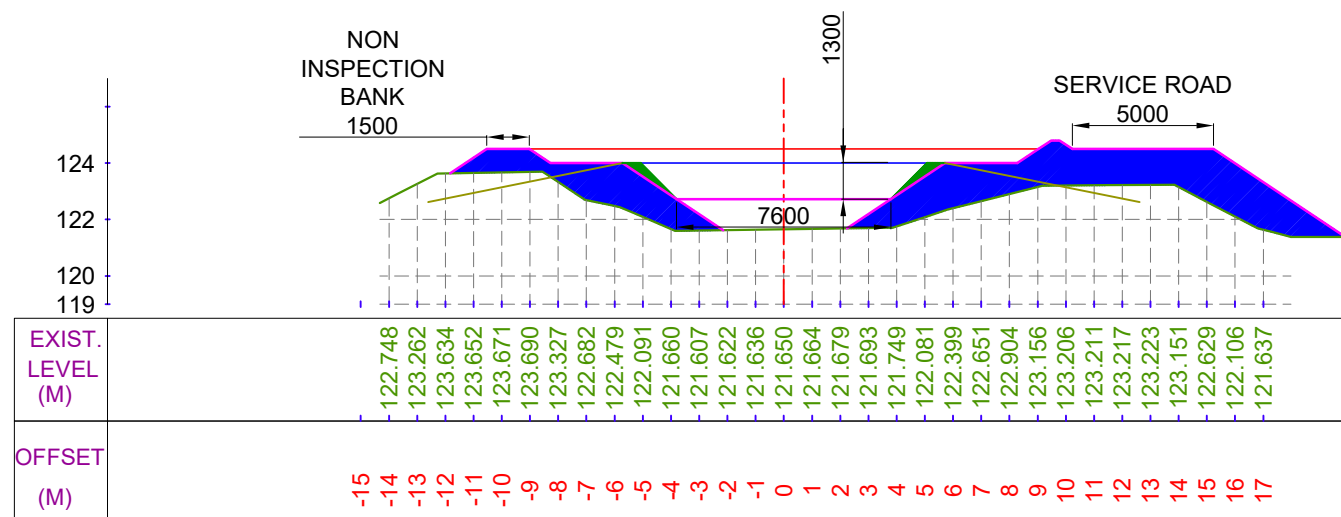
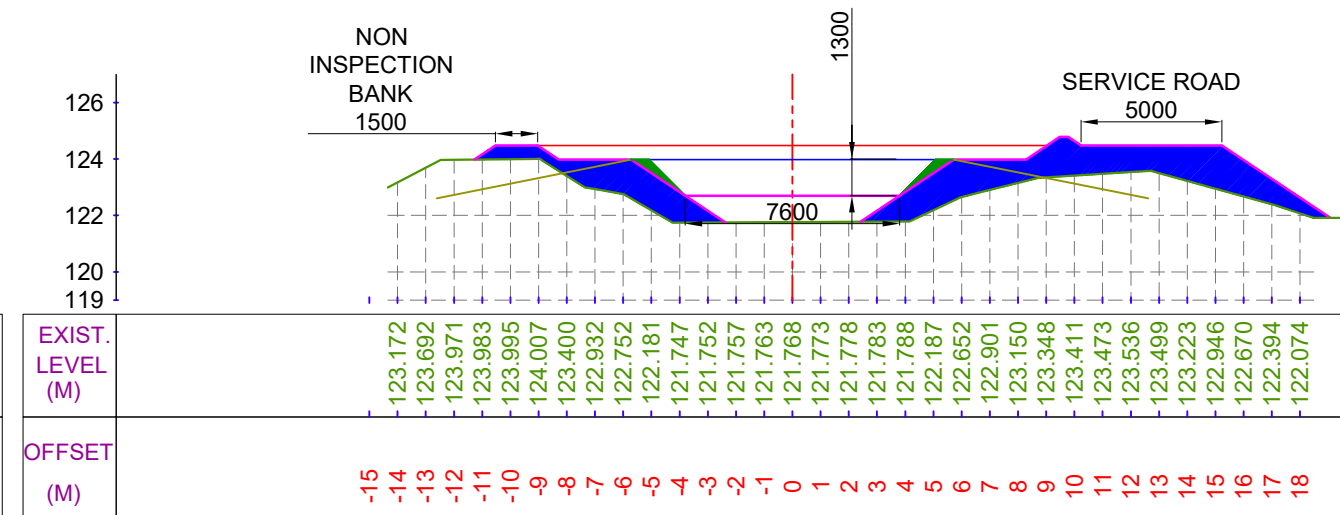
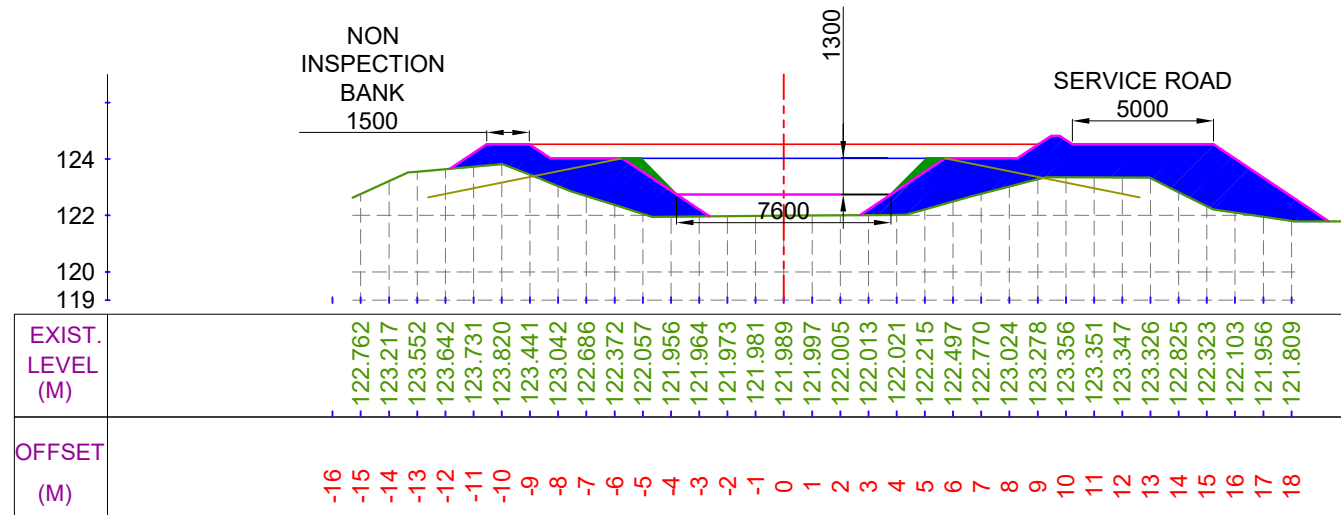
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

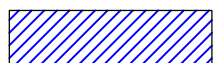
23 of 77



LEGEND



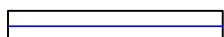
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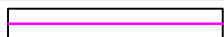
FILL AREA



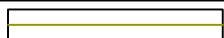
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

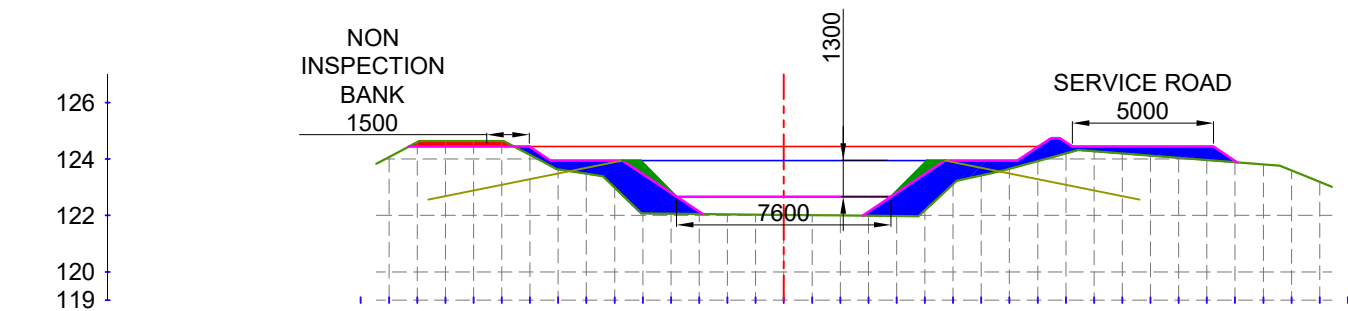
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

24 of 77



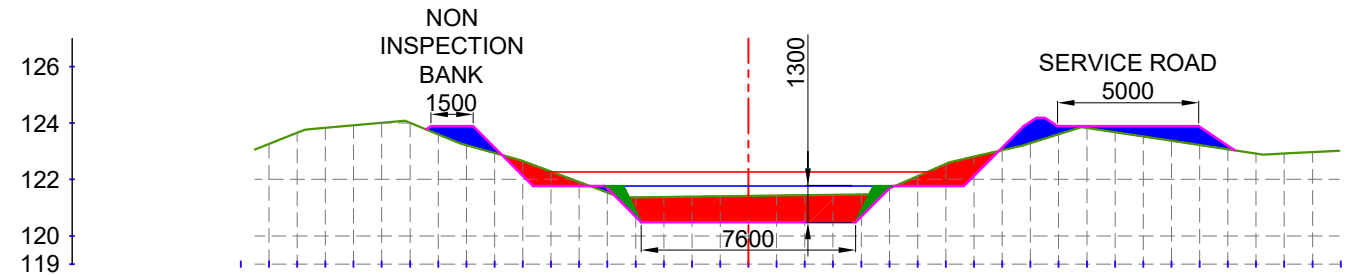
EXIST. LEVEL (M)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CUTTING AREA (SQ.M) = 0.665

CH. (KM):- 9+700

DESIGNED BED LEVEL = 122.661 M

FILLING AREA (SQ.M) = 10.551



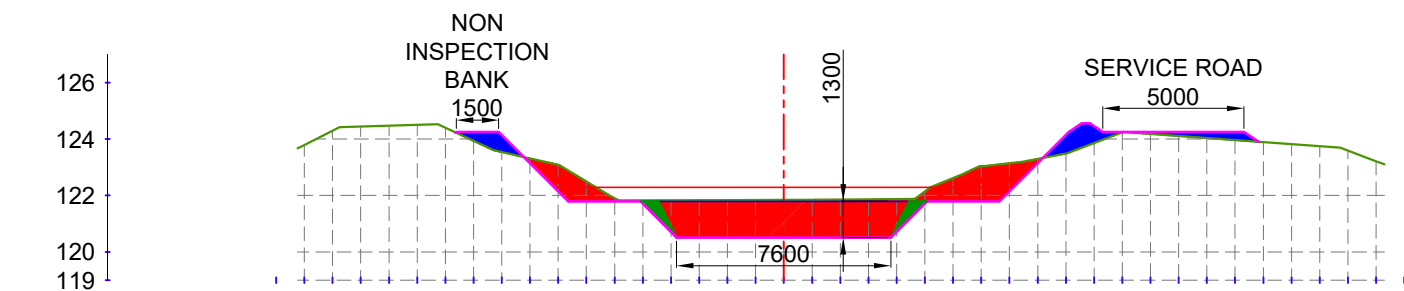
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OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

CUTTING AREA (SQ.M) = 10.571

CH. (KM):- 9+900

DESIGNED BED LEVEL = 120.486 M

FILLING AREA (SQ.M) = 4.297



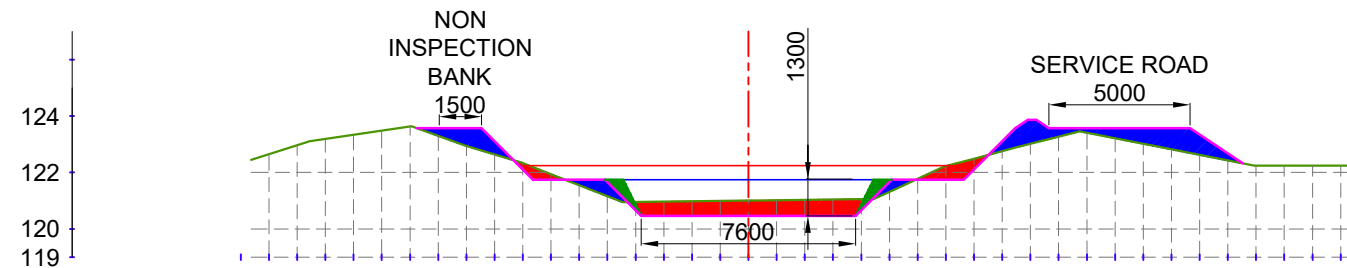
EXIST. LEVEL (M)	123.790	124.296	124.444	124.473	124.503	124.402	123.935	123.537	123.314	123.089	122.493	121.903	121.824	121.827	121.830	121.833	121.839	121.846	121.852	121.856	121.863	121.871	122.139	122.614	123.045	123.145	123.297	123.487	123.860	124.238	124.181	124.108	124.035	123.962	123.889	123.816	123.743	123.589	123.214		
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

CUTTING AREA (SQ.M) = 16.651

CH. (KM):- 9+800

DESIGNED BED LEVEL = 120.506 M

FILLING AREA (SQ.M) = 2.939



EXIST. LEVEL (M)	122.648	122.970	123.193	123.340	123.487	123.634	123.298	122.939	122.637	122.334	121.942	121.549	121.157	120.951	120.964	120.977	120.990	121.003	121.016	121.029	121.042	121.056	121.317	121.777	122.223	122.492	122.760	123.021	123.274	123.412	123.214	123.017	122.819	122.621	122.424	122.238	122.238				
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

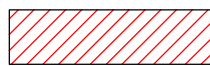
CUTTING AREA (SQ.M) = 5.551

CH. (KM):- 10+000

DESIGNED BED LEVEL = 120.466 M

FILLING AREA (SQ.M) = 6.510

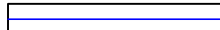
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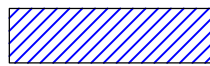
CUT AREA



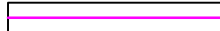
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

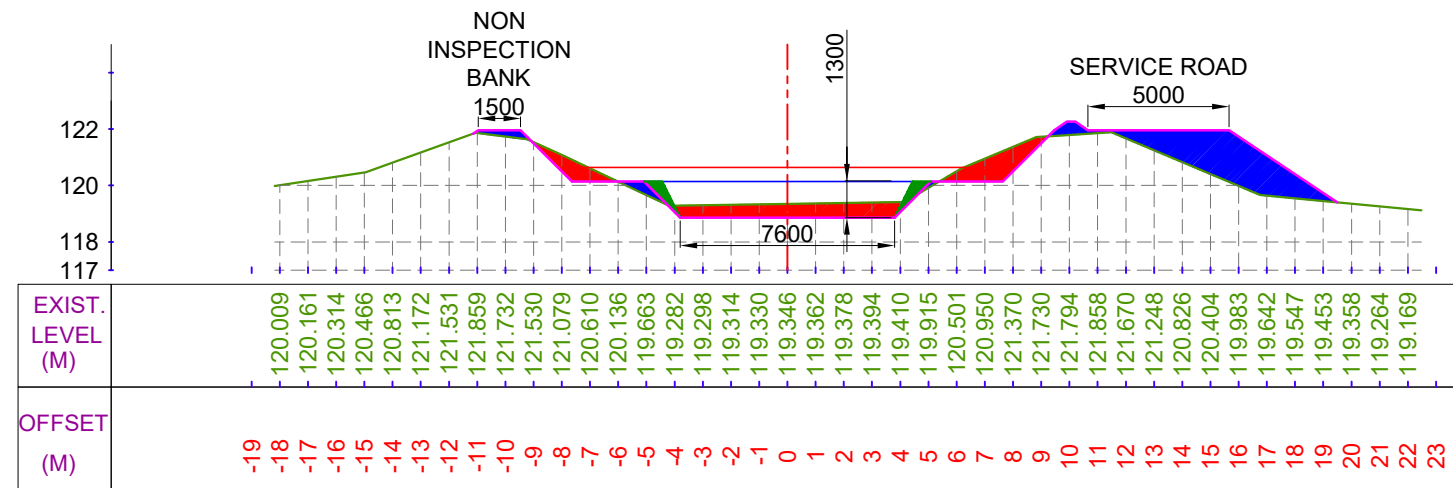
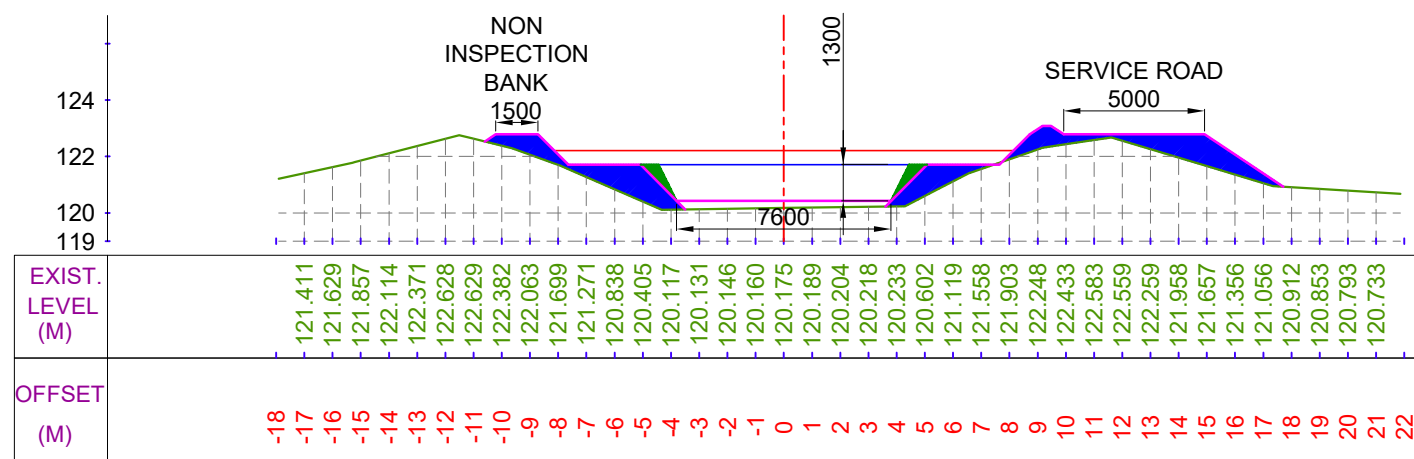
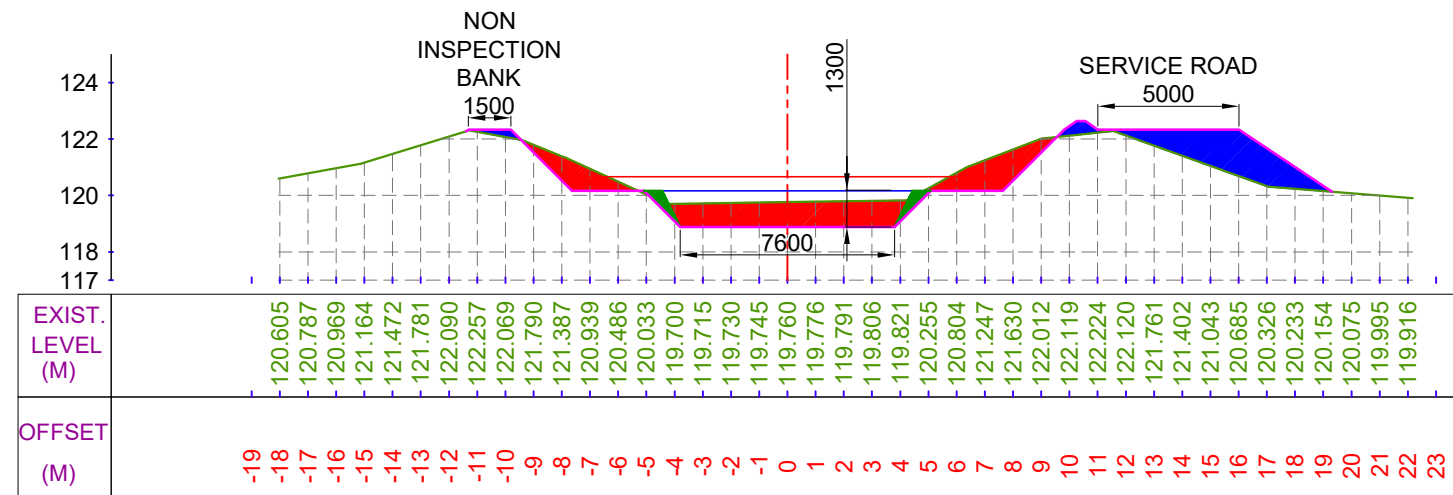
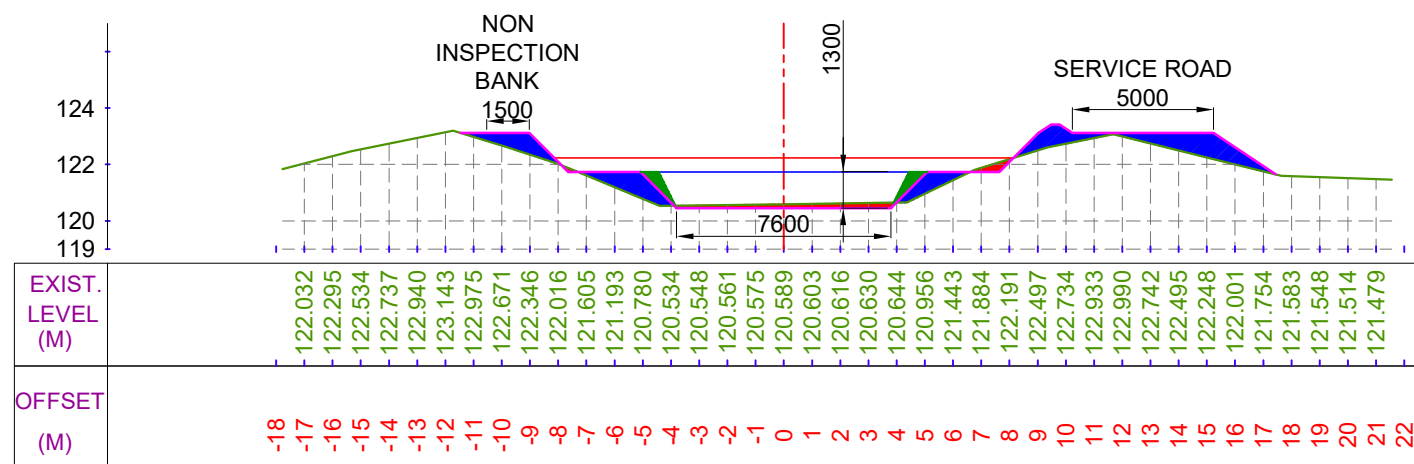
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

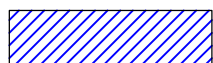
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LEGEND



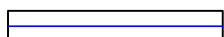
CUT AREA



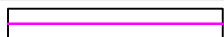
FILL AREA



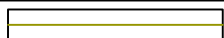
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

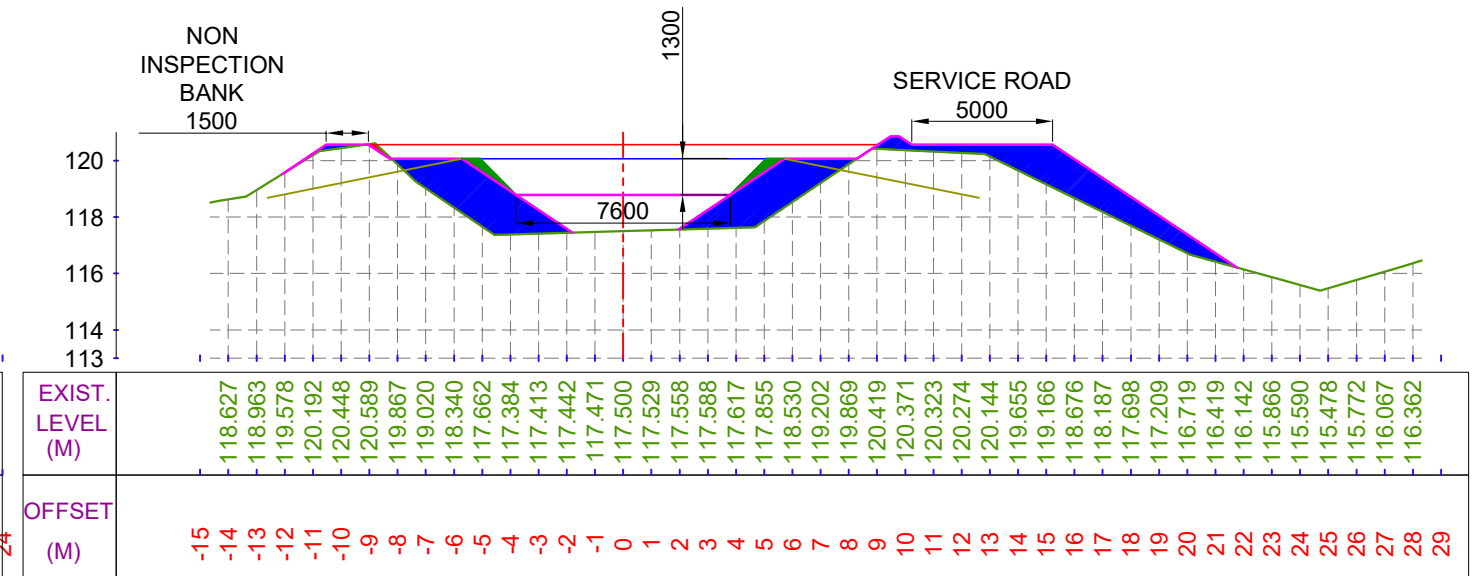
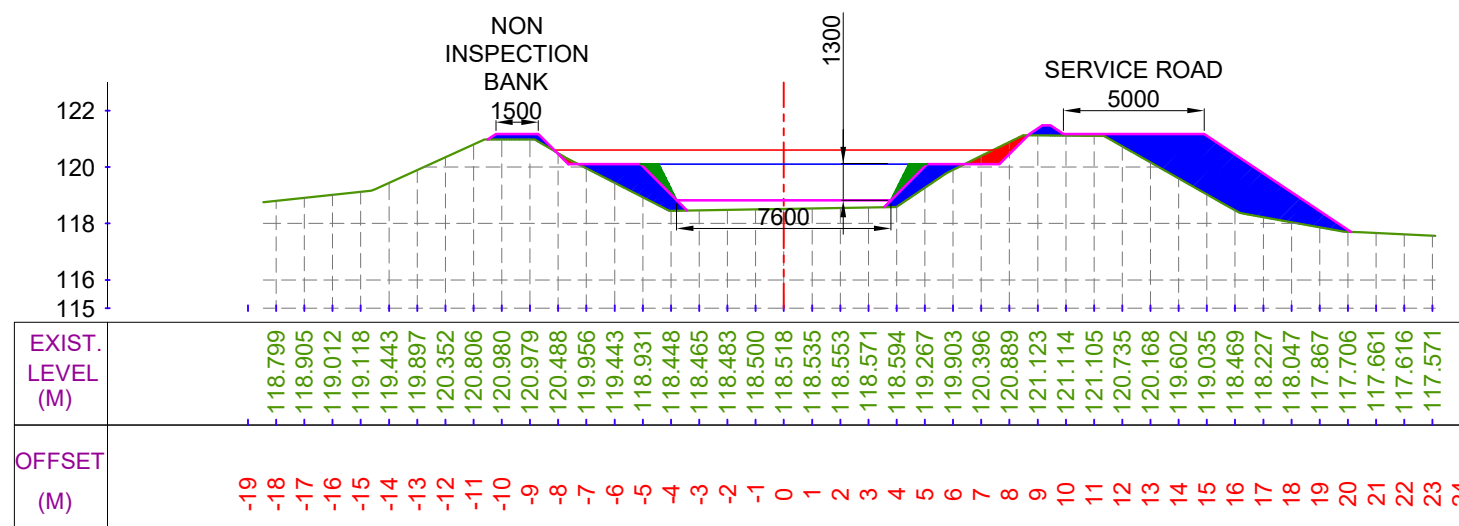
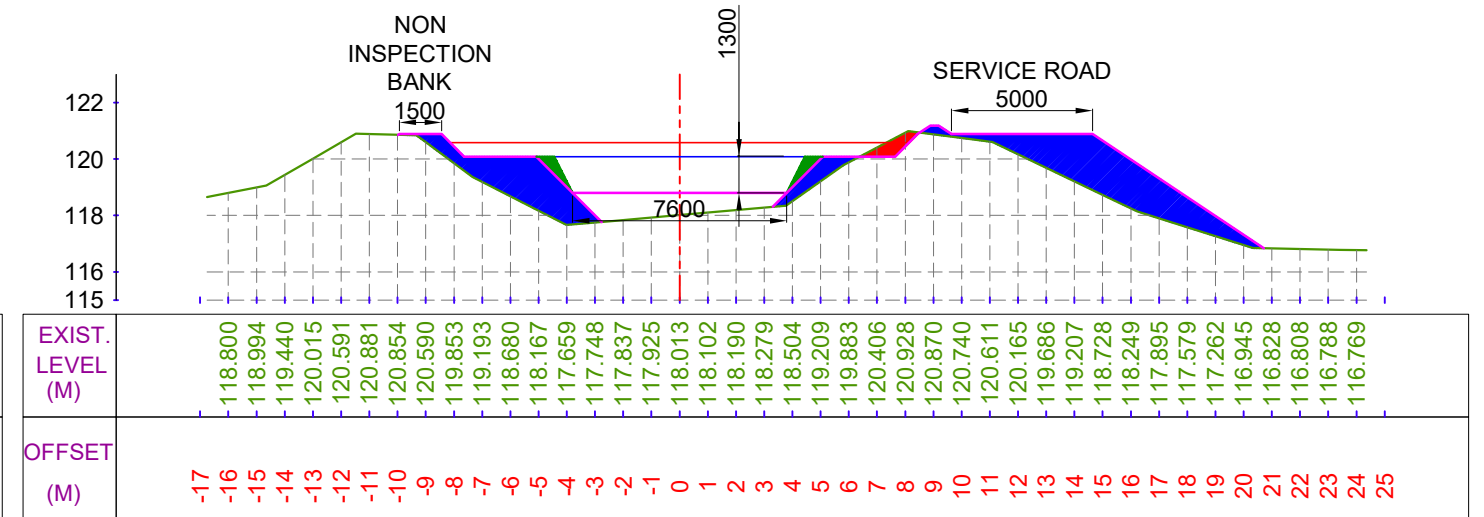
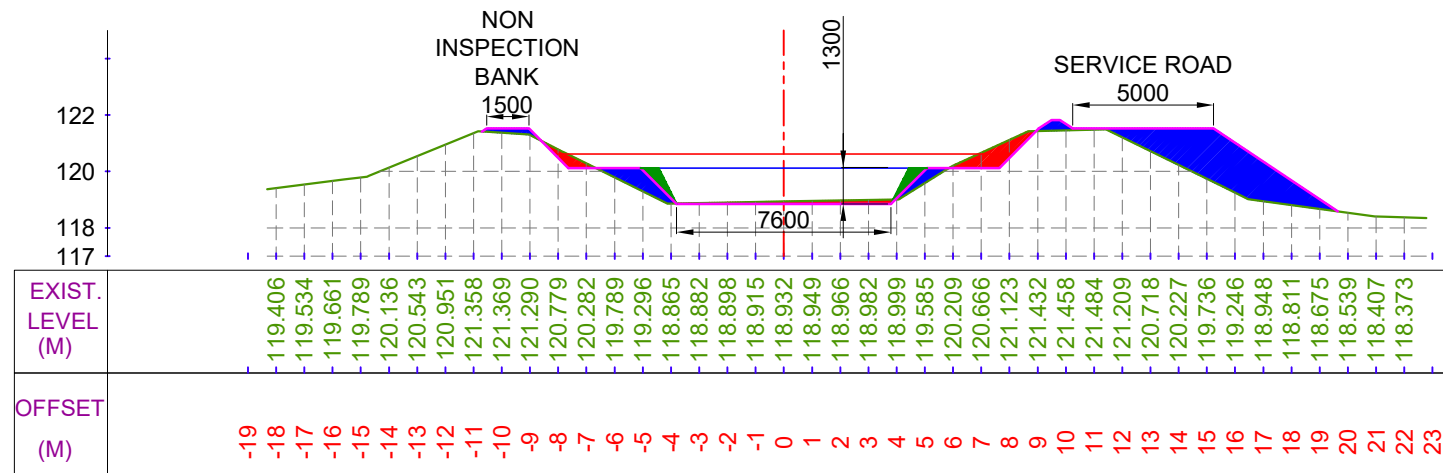
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

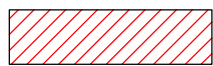
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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LEGEND



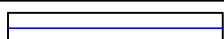
CUT AREA



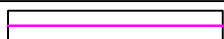
FILL AREA



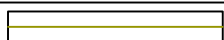
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

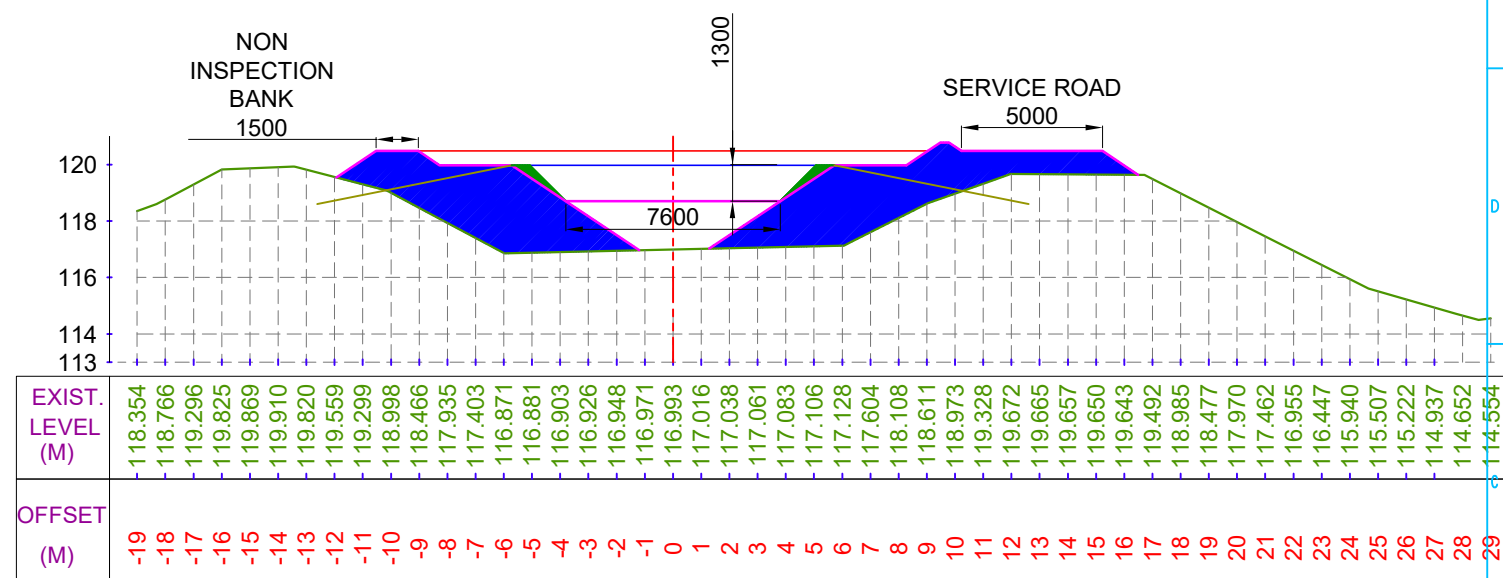
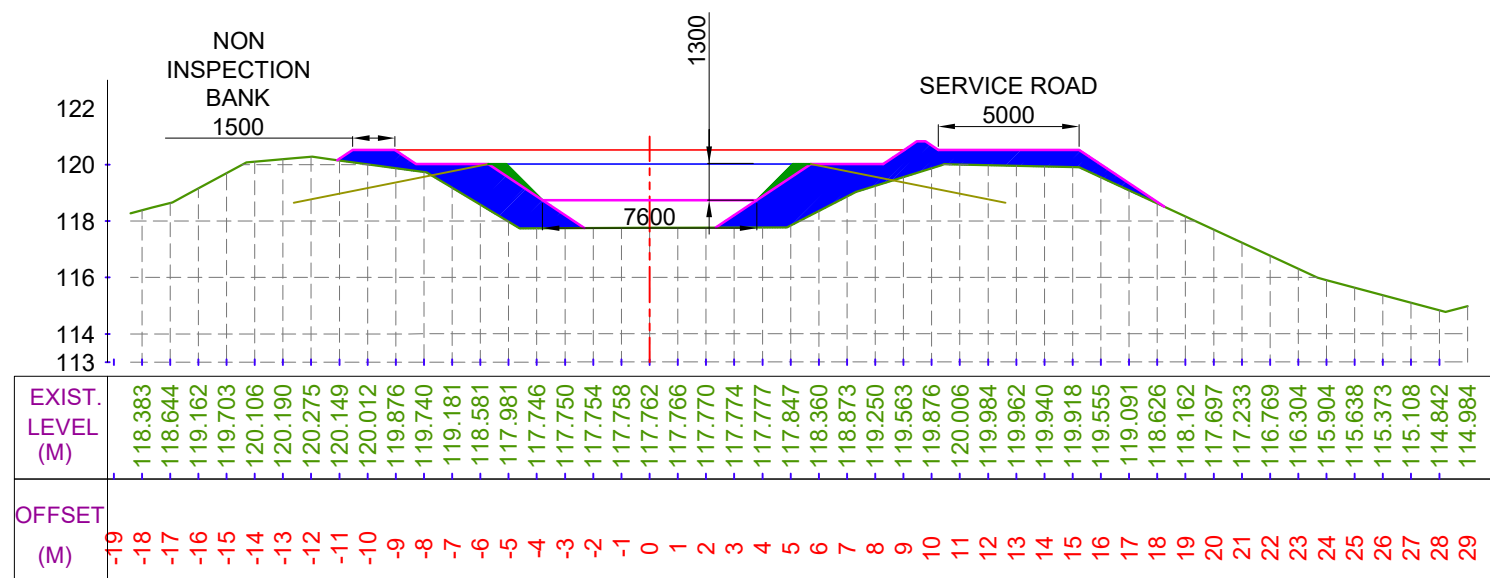
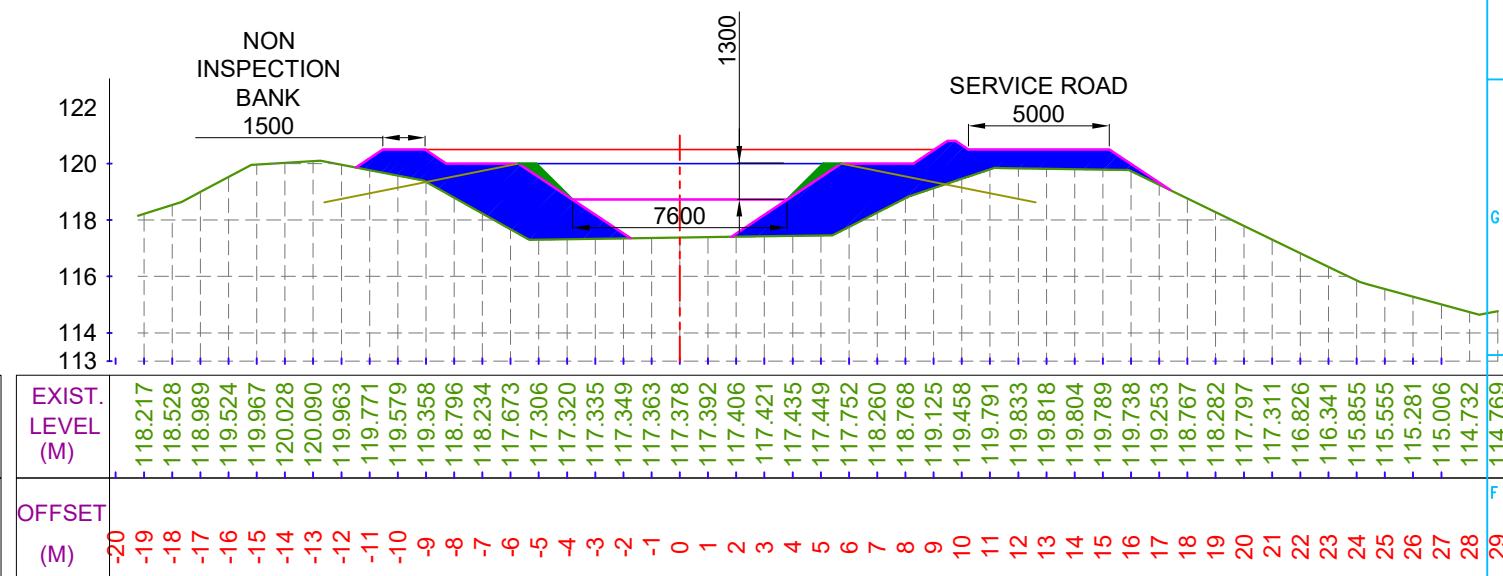
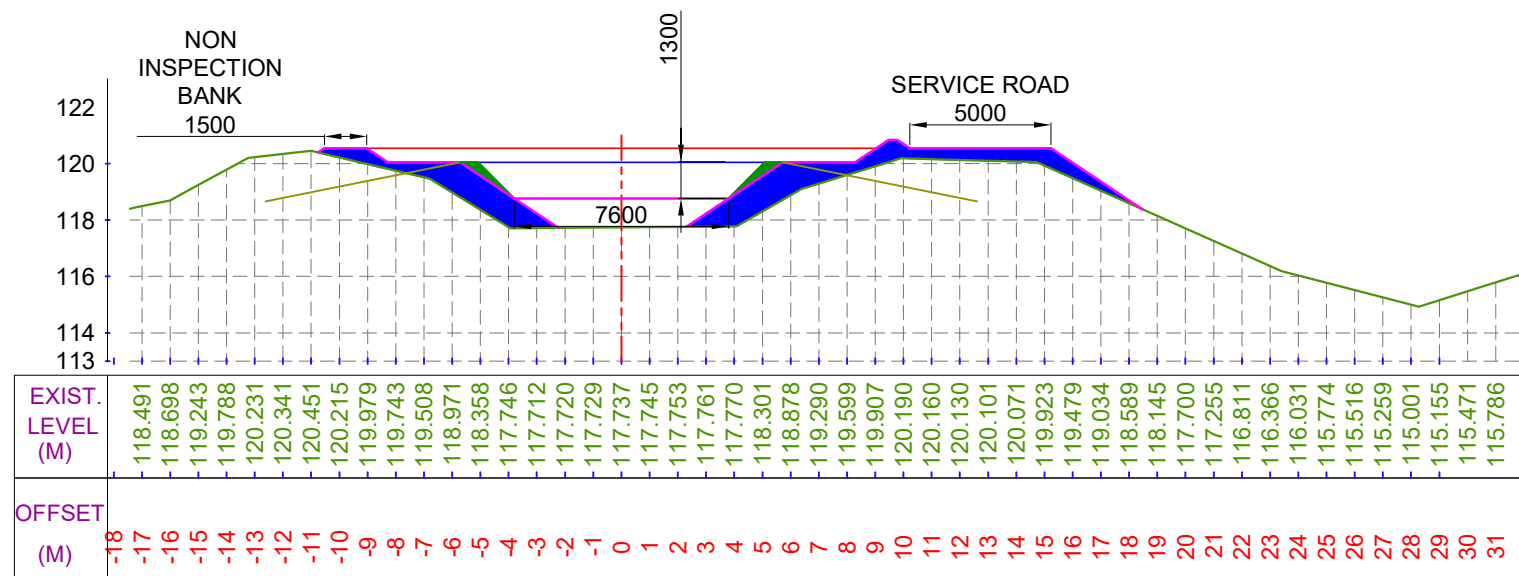
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

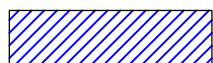
27 of 77



LEGEND



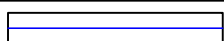
CUT AREA



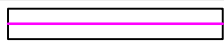
FILL AREA



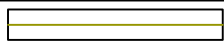
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

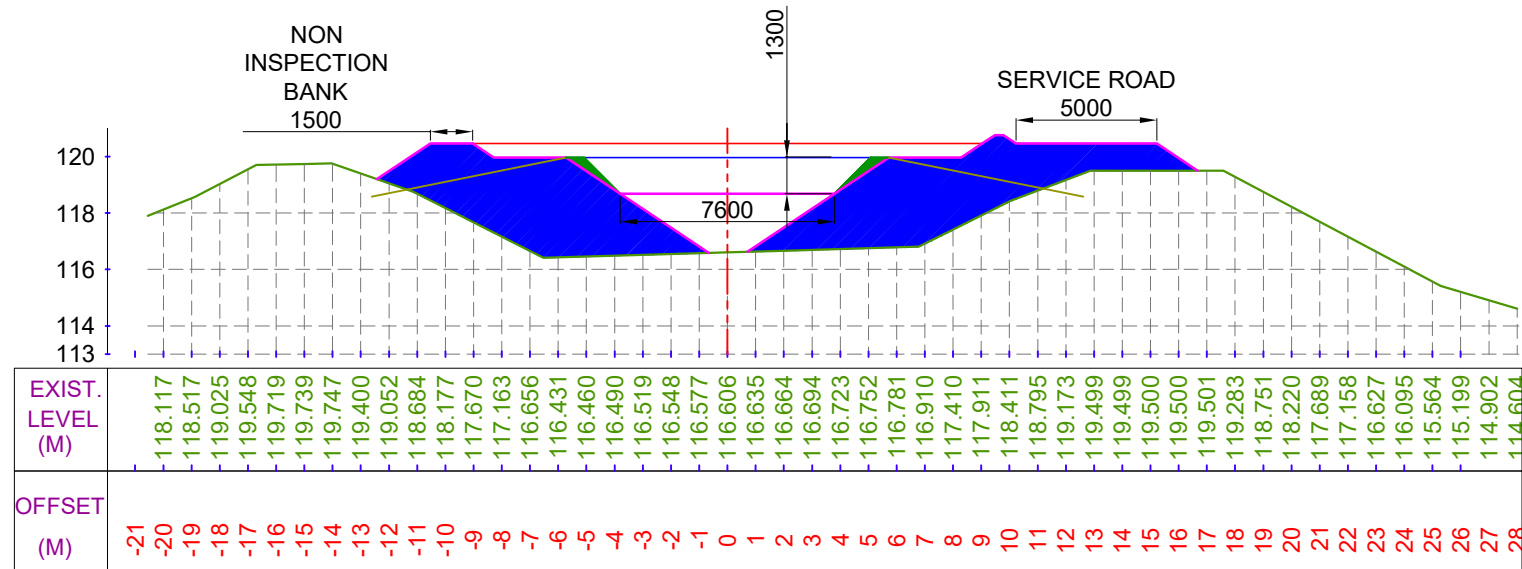
X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

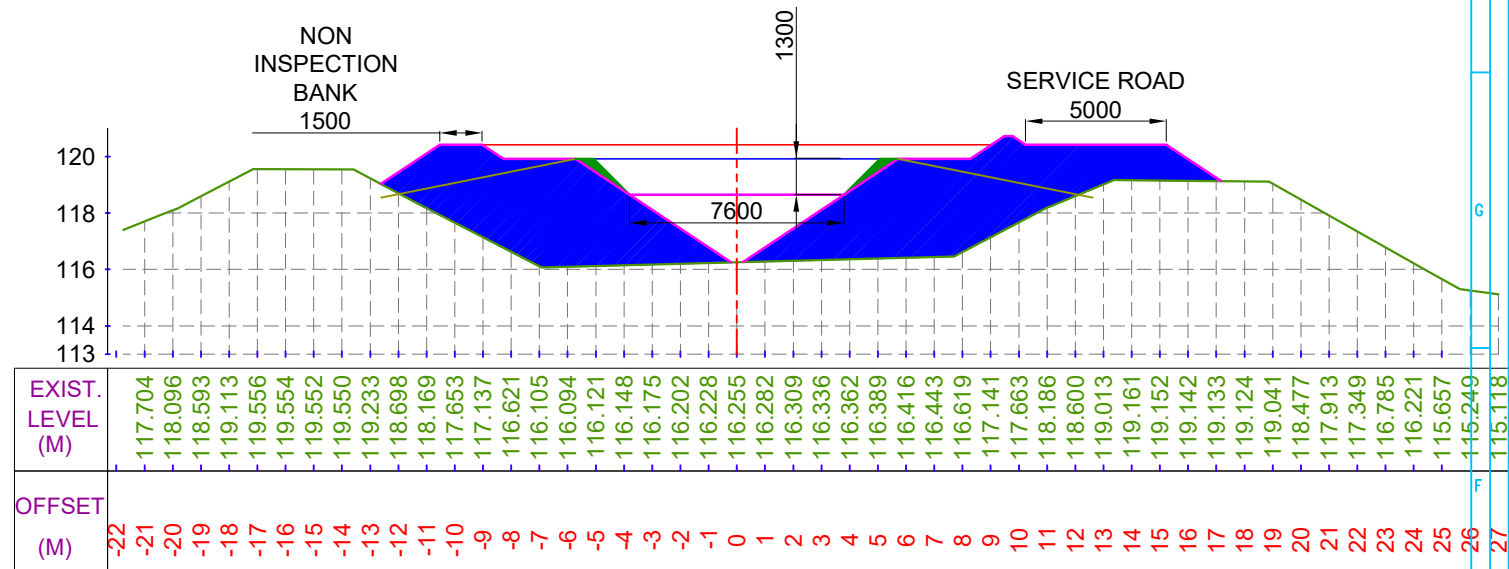
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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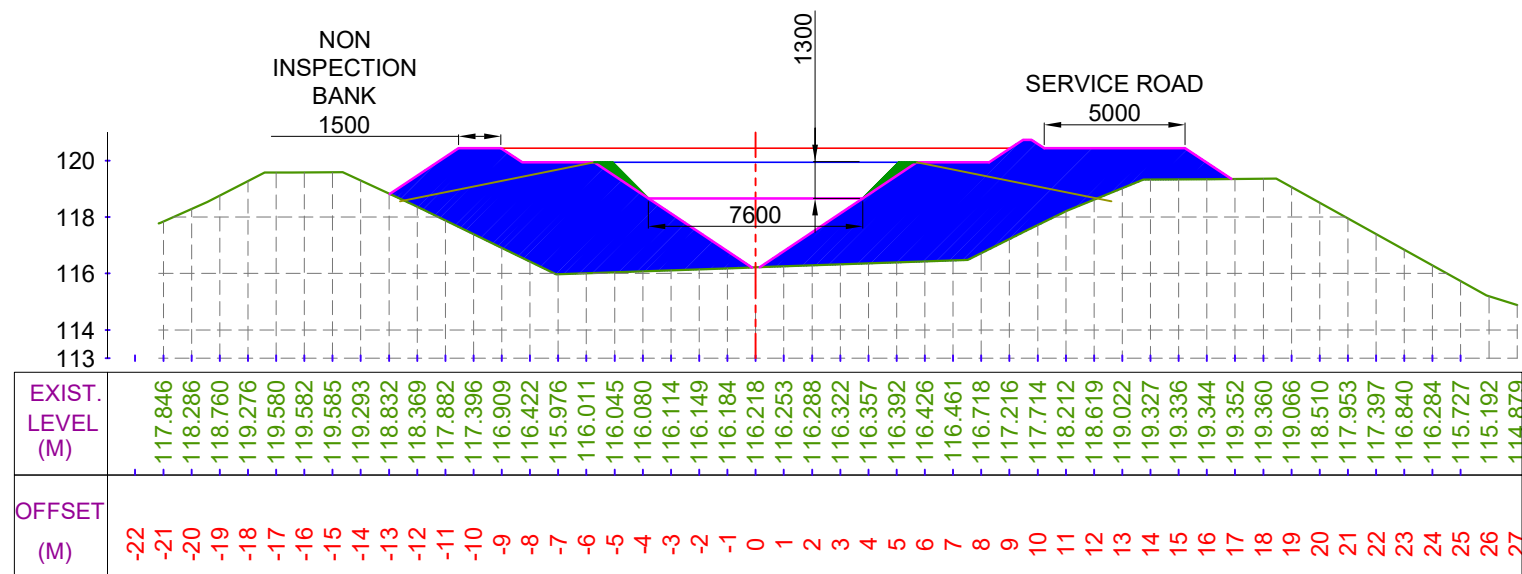
X SECTION OF KOTWARA DY.



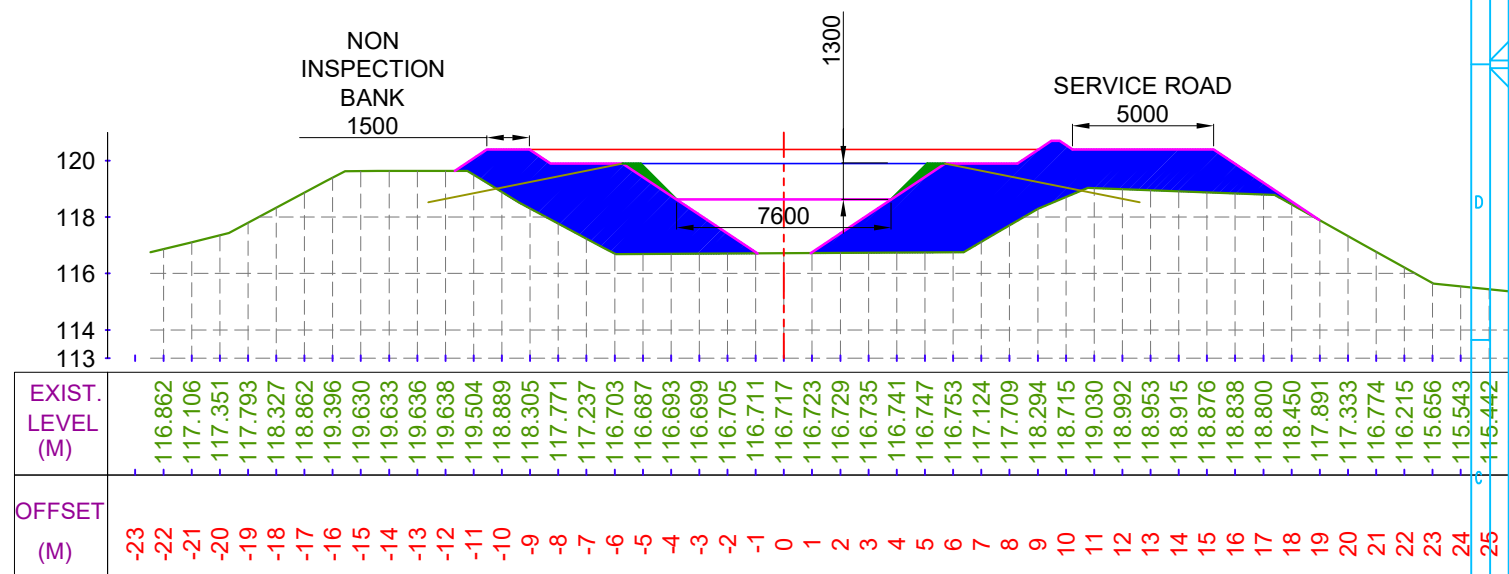
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 51.788
CH. (KM):- 11+300
DESIGNED BED LEVEL = 118.682 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 63.488
CH. (KM):- 11+500
DESIGNED BED LEVEL = 118.642 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 65.142
CH. (KM):- 11+400
DESIGNED BED LEVEL = 118.662 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 46.814
CH. (KM):- 11+600
DESIGNED BED LEVEL = 118.622 M

LEGEND

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

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

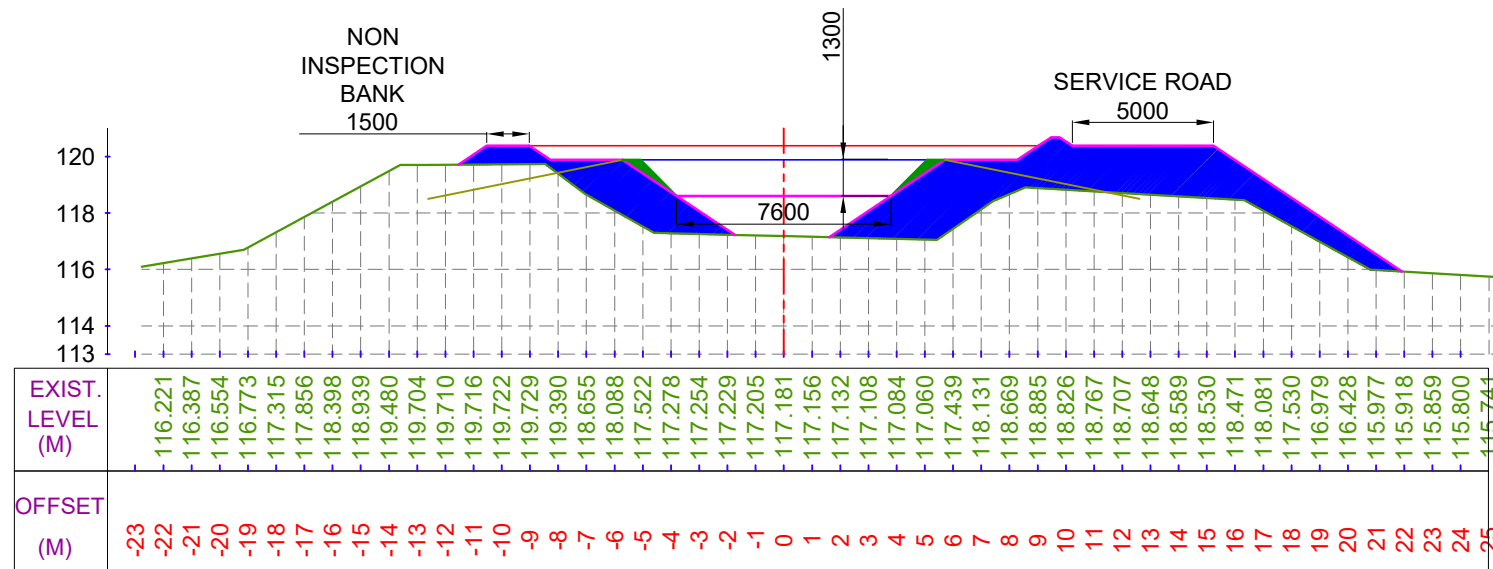
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

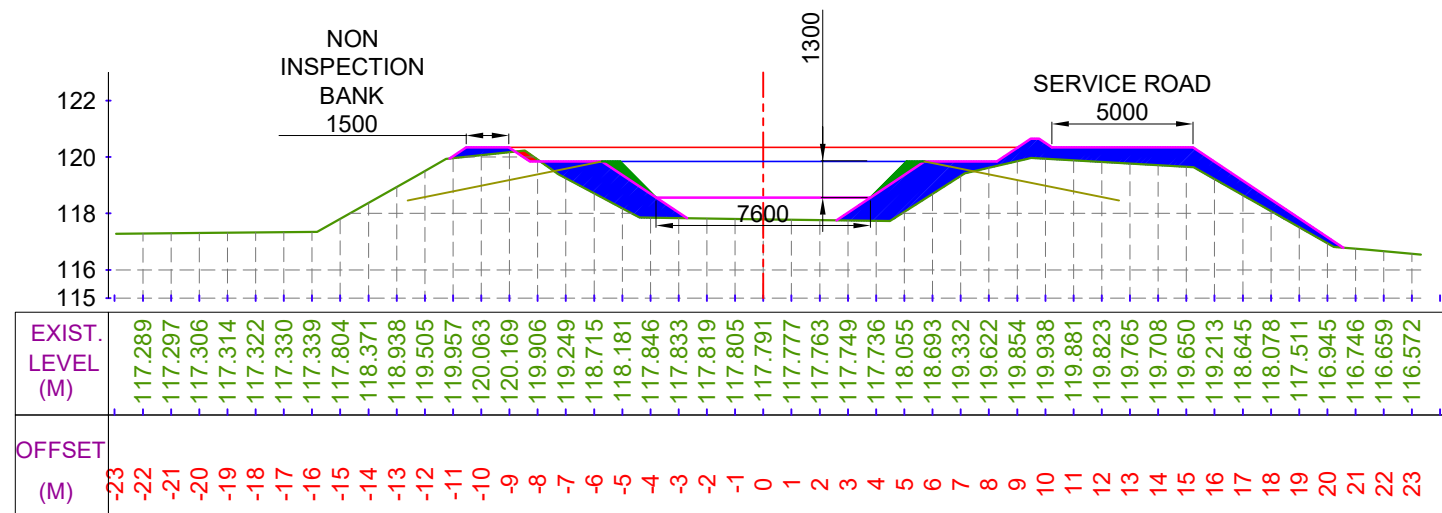
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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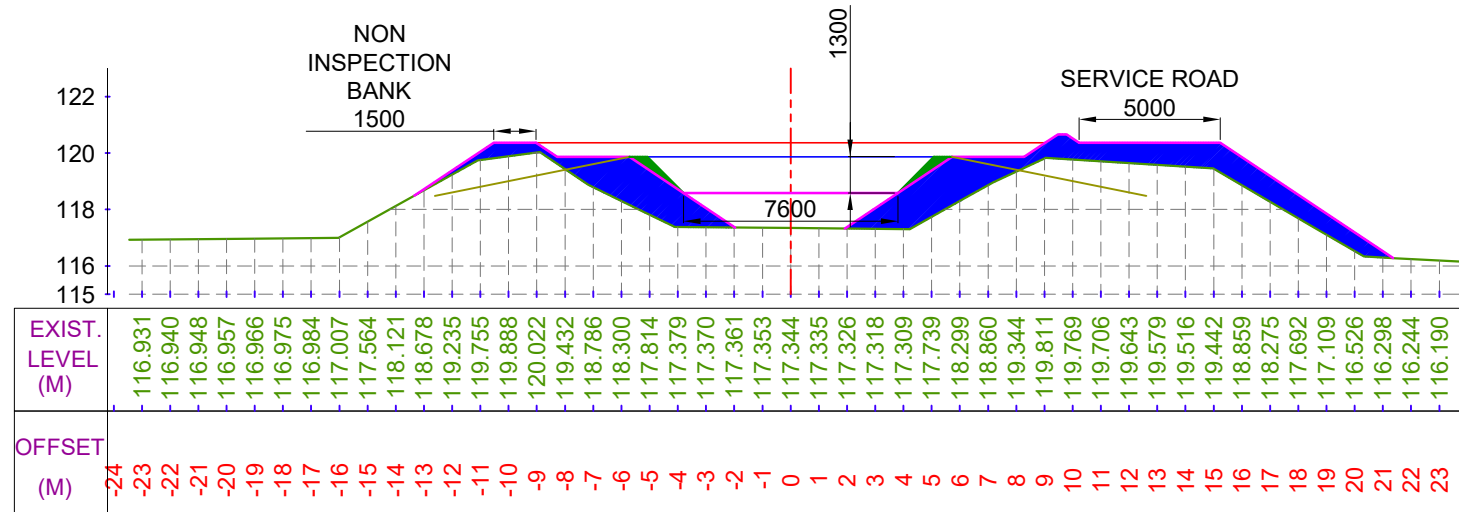
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 37.656

CH. (KM):- 11+700
DESIGNED BED LEVEL = 118.602 M



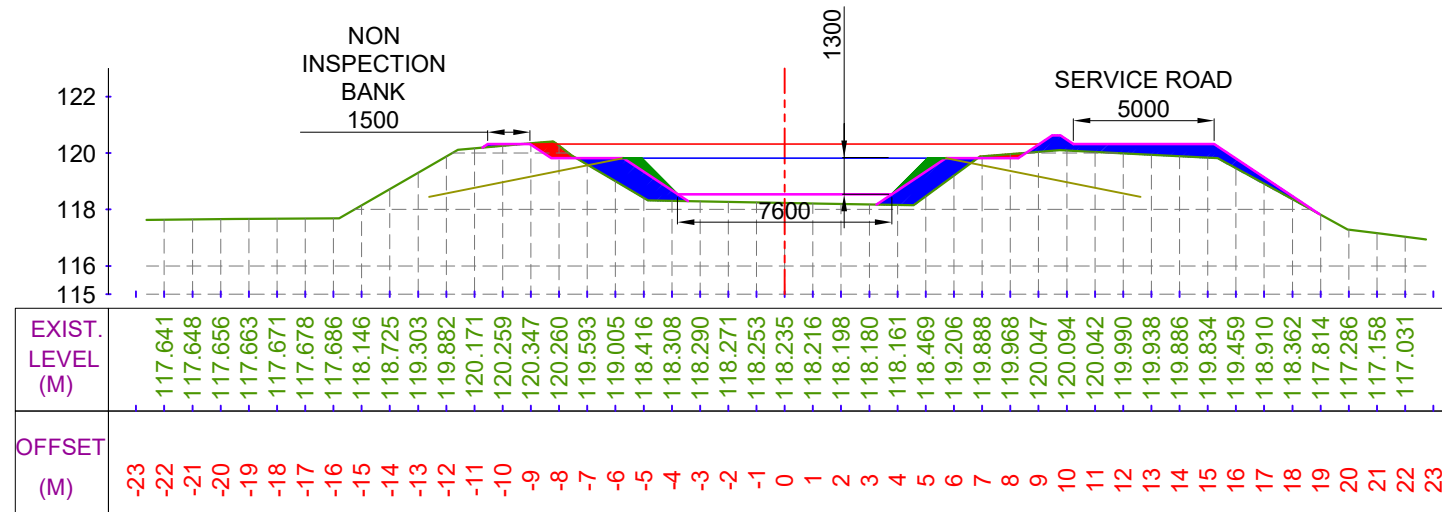
CUTTING AREA (SQ.M) = 0.141
FILLING AREA (SQ.M) = 14.917

CH. (KM):- 11+900
DESIGNED BED LEVEL = 118.562 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 24.576

CH. (KM):- 11+800
DESIGNED BED LEVEL = 118.582 M



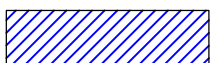
CUTTING AREA (SQ.M) = 0.691
FILLING AREA (SQ.M) = 7.670

CH. (KM):- 12+000
DESIGNED BED LEVEL = 118.542 M

LEGEND



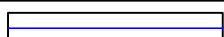
CUT AREA



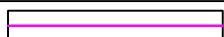
FILL AREA



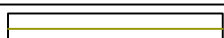
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

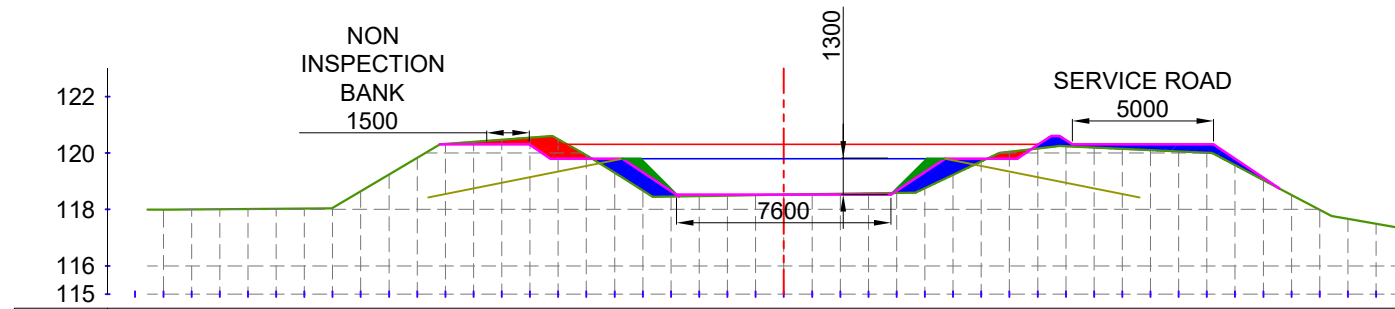
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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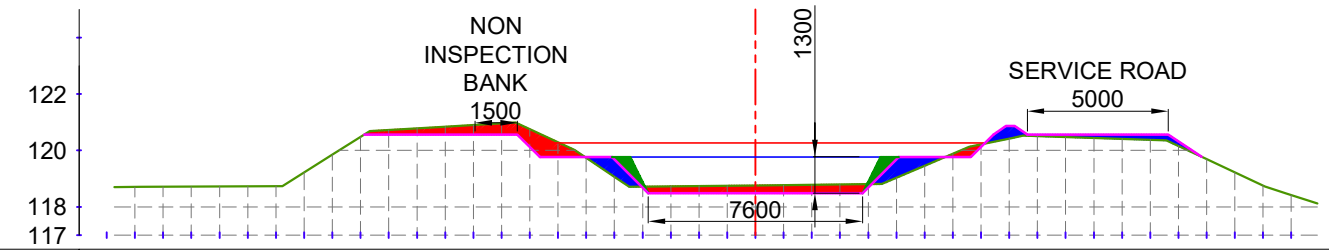
EXIST. LEVEL (M)	117.995	118.002	118.009	118.015	118.022	118.029	118.050	118.643	119.235	119.827	120.322	120.397	120.472	120.547	120.487	119.921	119.300	118.670	118.459	118.474	118.490	118.506	118.522	118.537	118.553	118.569	118.585	118.751	119.225	119.699	120.042	120.157	120.235	120.189	120.143	120.097	120.051	120.005	119.568	119.042	118.515	117.989	117.666	117.489	
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

CUTTING AREA (SQ.M) = 1.788

CH. (KM):- 12+100

FILLING AREA (SQ.M) = 4.431

DESIGNED BED LEVEL = 118.522 M



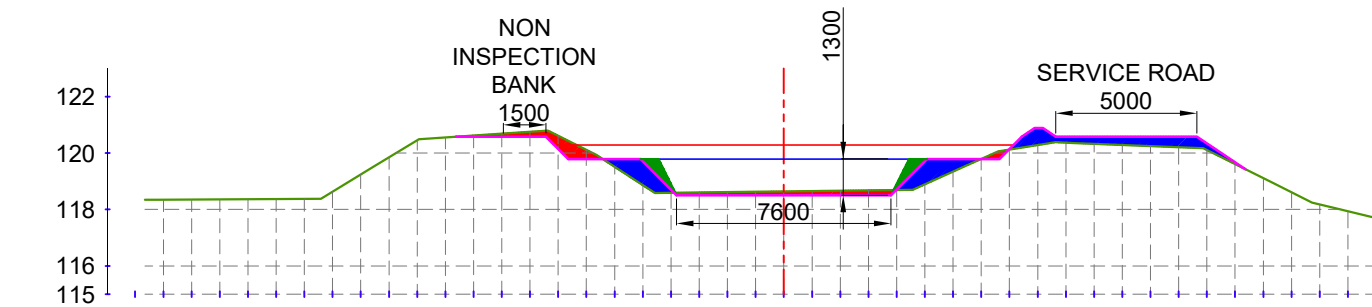
EXIST. LEVEL (M)	118.705	118.709	118.714	118.719	118.724	118.728	119.218	119.848	120.477	120.723	120.782	120.840	120.899	120.957	120.751	120.289	119.741	119.069	118.718	118.728	118.739	118.750	118.760	118.771	118.781	118.792	118.803	119.028	119.454	119.880	120.214	120.420	120.507	120.474	120.442	120.409	120.377	120.159	119.691	119.223	118.754	118.419	
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CUTTING AREA (SQ.M) = 5.067

CH. (KM):- 12+300

FILLING AREA (SQ.M) = 2.876

DESIGNED BED LEVEL = 118.482 M



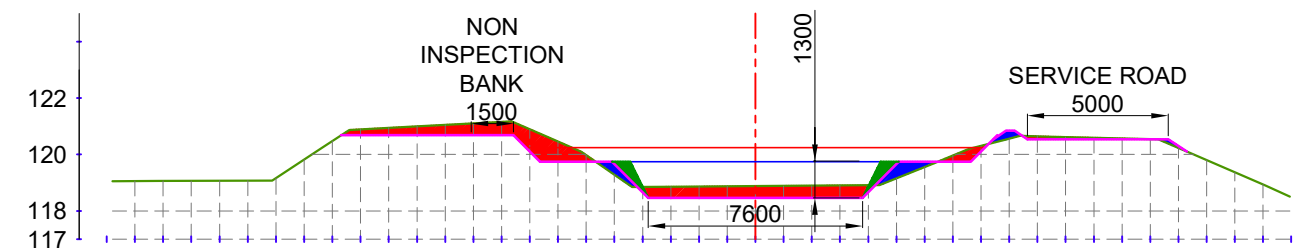
EXIST. LEVEL (M)	118.350	118.356	118.362	118.367	118.373	118.379	118.631	119.240	119.849	120.457	120.557	120.623	120.689	120.755	120.612	120.109	119.512	118.863	118.588	118.601	118.615	118.628	118.641	118.654	118.667	118.681	118.694	118.895	119.344	119.794	120.127	120.285	120.369	120.330	120.291	120.251	120.212	120.114	119.614	119.114	118.614	118.183	117.942	
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

CUTTING AREA (SQ.M) = 2.322

CH. (KM):- 12+200

FILLING AREA (SQ.M) = 4.954

DESIGNED BED LEVEL = 118.502 M



EXIST. LEVEL (M)	119.059	119.063	119.066	119.070	119.074	119.168	119.824	120.479	120.893	120.946	120.999	121.052	121.104	121.157	120.895	120.461	119.983	119.286	118.848	118.856	118.864	118.871	118.879	118.887	118.895	118.903	118.911	119.157	119.560	119.963	120.305	120.563	120.646	120.621	120.596	120.571	120.546	120.231	119.802	119.373	118.934		
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

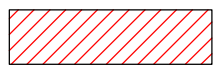
CUTTING AREA (SQ.M) = 7.760

CH. (KM):- 12+400

FILLING AREA (SQ.M) = 1.266

DESIGNED BED LEVEL = 118.462 M

LEGEND



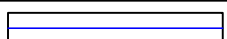
CUT AREA



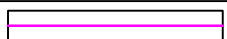
FILL AREA



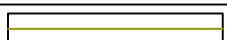
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

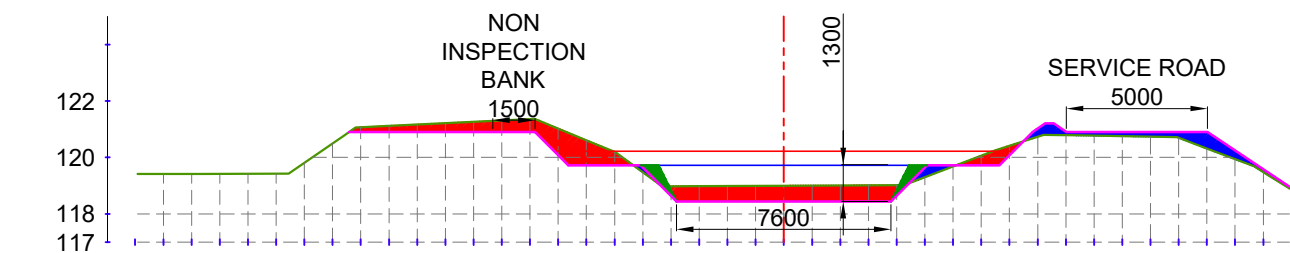
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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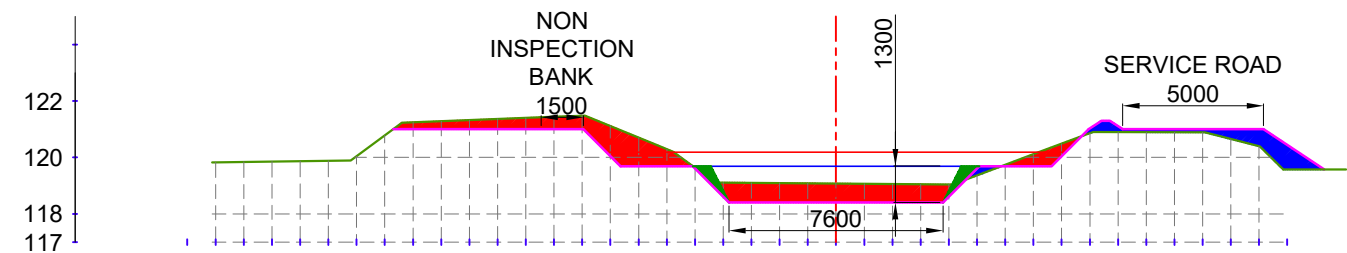
EXIST. LEVEL (M)	119.413	119.416	119.418	119.421	119.423	119.807	120.496	121.069	121.117	121.165	121.213	121.261	121.310	121.358	121.021	120.607	120.193	119.474	118.979	118.984	118.989	118.994	118.999	119.004	119.009	119.014	119.019	119.301	119.683	120.065	120.415	120.734	120.787	120.770	120.752	120.735	120.695	120.317	119.938	119.481	
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 9.517

CH. (KM):- 12+500

FILLING AREA (SQ.M) = 2.530

DESIGNED BED LEVEL = 118.442 M



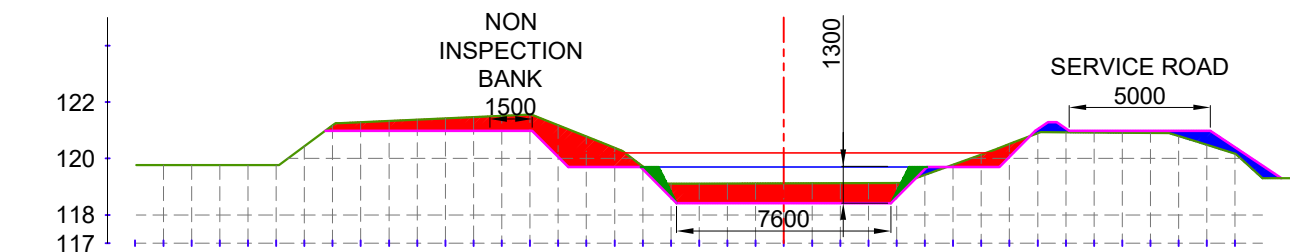
EXIST. LEVEL (M)	119.826	119.839	119.853	119.866	119.880	120.042	120.780	121.244	121.283	121.322	121.360	121.399	121.438	121.477	121.111	120.700	120.290	119.638	119.110	119.100	119.091	119.082	119.073	119.064	119.055	119.046	119.037	119.359	119.736	120.112	120.486	120.858	120.899	120.895	120.891	120.887	120.651	120.397		
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

CUTTING AREA (SQ.M) = 11.614

CH. (KM):- 12+700

FILLING AREA (SQ.M) = 2.978

DESIGNED BED LEVEL = 118.402 M



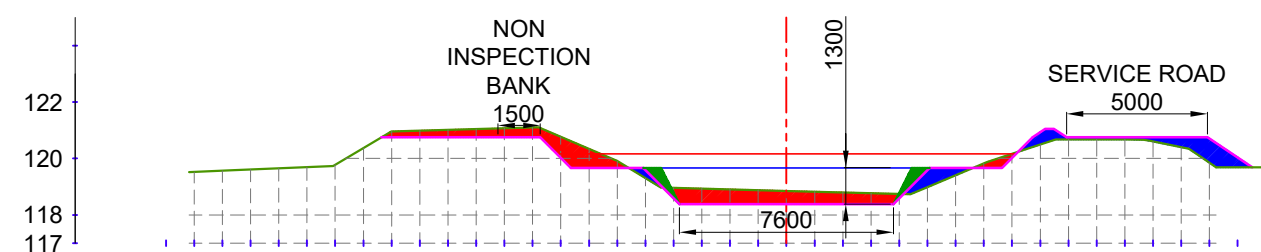
EXIST. LEVEL (M)	119.767	119.768	119.769	119.770	119.771	120.435	121.171	121.288	121.332	121.377	121.421	121.465	121.509	121.554	121.175	120.778	120.380	119.720	119.110	119.112	119.114	119.116	119.118	119.120	119.122	119.124	119.126	119.416	119.778	120.139	120.513	120.899	120.931	120.923	120.914	120.906	120.793	120.481	120.169	
OFFSET (M)	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

CUTTING AREA (SQ.M) = 12.739

CH. (KM):- 12+600

FILLING AREA (SQ.M) = 1.940

DESIGNED BED LEVEL = 118.422 M



EXIST. LEVEL (M)	-119.523	-119.566	-119.610	-119.654	-119.698	-119.780	-120.374	-120.959	-120.987	-121.014	-121.042	-121.069	-121.097	-120.767	-120.342	-119.907	-119.305	-118.961	-118.933	-118.906	-118.879	-118.852	-118.824	-118.797	-118.770	-118.743	-118.986	-119.404	-119.823	-120.164	-120.496	-120.676	-120.673	-120.670	-120.601	-120.399	-119.851		
OFFSET (M)	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

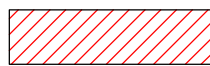
CUTTING AREA (SQ.M) = 7.250

CH. (KM):- 12+800

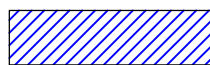
FILLING AREA (SQ.M) = 3.379

DESIGNED BED LEVEL = 118.382 M

LEGEND



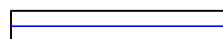
CUT AREA



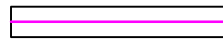
FILL AREA



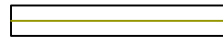
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

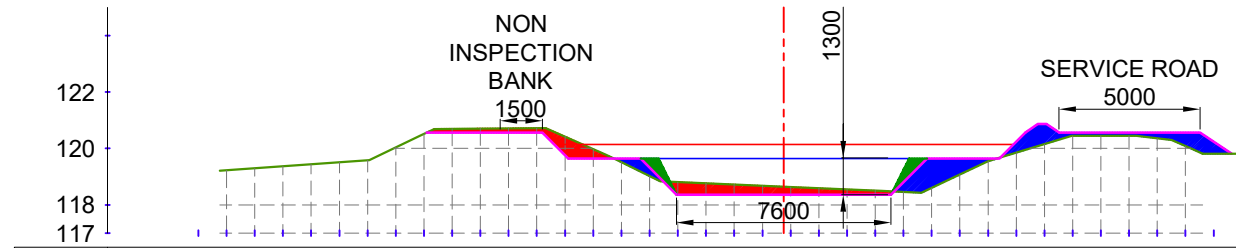
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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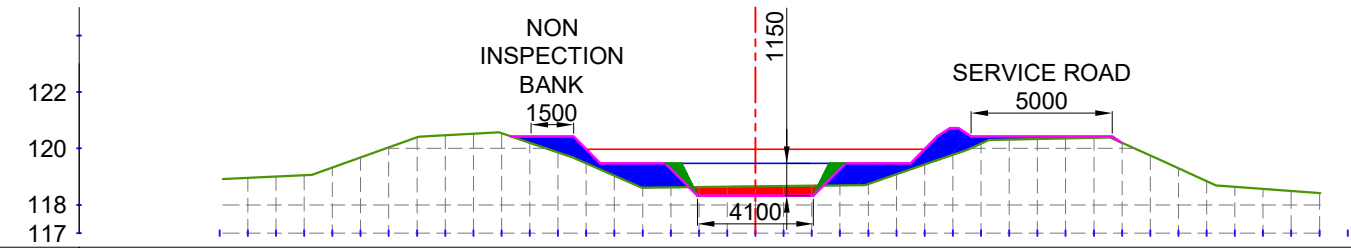
EXIST. LEVEL (M)	119.223	119.294	119.366	119.438	119.510	119.582	120.038	120.517	120.695	120.703	120.712	120.721	120.420	119.974	119.511	119.017	118.806	118.762	118.719	118.675	118.632	118.588	118.544	118.501	118.457	118.600	119.074	119.545	119.851	120.157	120.452	120.451	120.450	120.360	120.082		
OFFSET (M)	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

CUTTING AREA (SQ.M) = 3.772

CH. (KM):- 12+900

FILLING AREA (SQ.M) = 4.950

DESIGNED BED LEVEL = 118.362 M



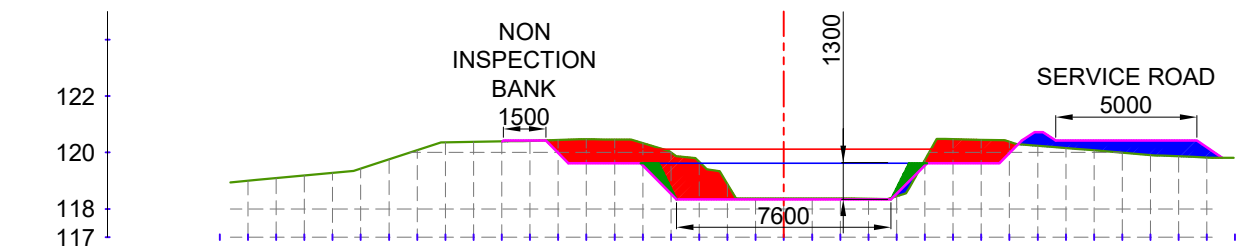
EXIST. LEVEL (M)	118.961	119.008	119.055	119.328	119.685	120.042	120.399	120.467	120.520	120.537	120.199	119.860	119.474	119.037	118.610	118.622	118.634	118.646	118.658	118.670	118.681	118.693	118.740	119.084	119.428	119.772	120.177	120.319	120.339	120.360	120.380	120.200	119.747	119.294	118.841	118.641	118.567	118.492	118.418		
OFFSET (M)	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

CUTTING AREA (SQ.M) = 1.437

CH. (KM):- 13+100

FILLING AREA (SQ.M) = 6.741

DESIGNED BED LEVEL = 118.321 M



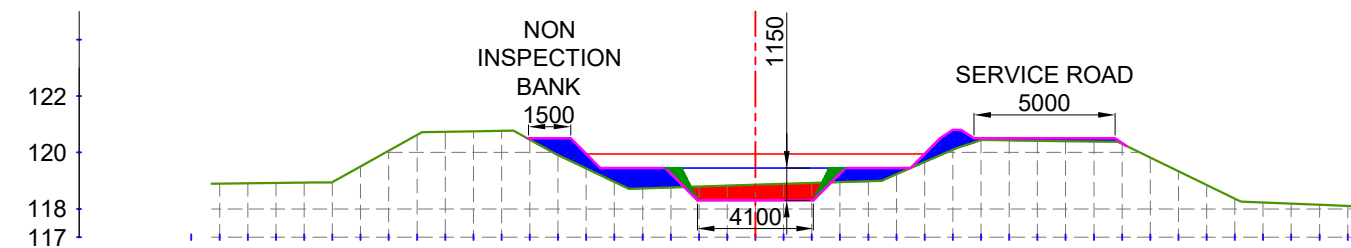
EXIST. LEVEL (M)	118.997	119.092	119.187	119.282	119.435	119.759	120.084	120.362	120.378	120.393	120.411	120.444	120.467	120.461	120.331	120.001	119.666	118.879	118.377	118.377	118.377	118.371	118.359	118.450	119.732	120.473	120.450	120.376	120.237	120.161	120.083	119.998	119.913	119.864	119.825		
OFFSET (M)	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

CUTTING AREA (SQ.M) = 8.336

CH. (KM):- 13+000

FILLING AREA (SQ.M) = 3.032

DESIGNED BED LEVEL = 118.342 M



EXIST. LEVEL (M)	118.894	118.906	118.917	118.929	118.953	119.509	120.066	120.624	120.735	120.752	120.769	120.456	119.910	119.435	118.960	118.728	118.759	118.791	118.822	118.854	118.885	118.917	118.948	118.980	119.228	119.663	120.099	120.436	120.430	120.418	120.406	120.394	120.307	119.820	119.332	118.846	118.361	118.233	118.192	118.151	118.108	118.064		
OFFSET (M)	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

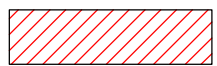
CUTTING AREA (SQ.M) = 2.422

CH. (KM):- 13+200

FILLING AREA (SQ.M) = 5.247

DESIGNED BED LEVEL = 118.301 M

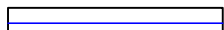
LEGEND



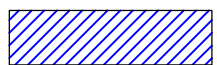
CUT AREA



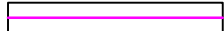
EXISTING BED LINE



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 :-

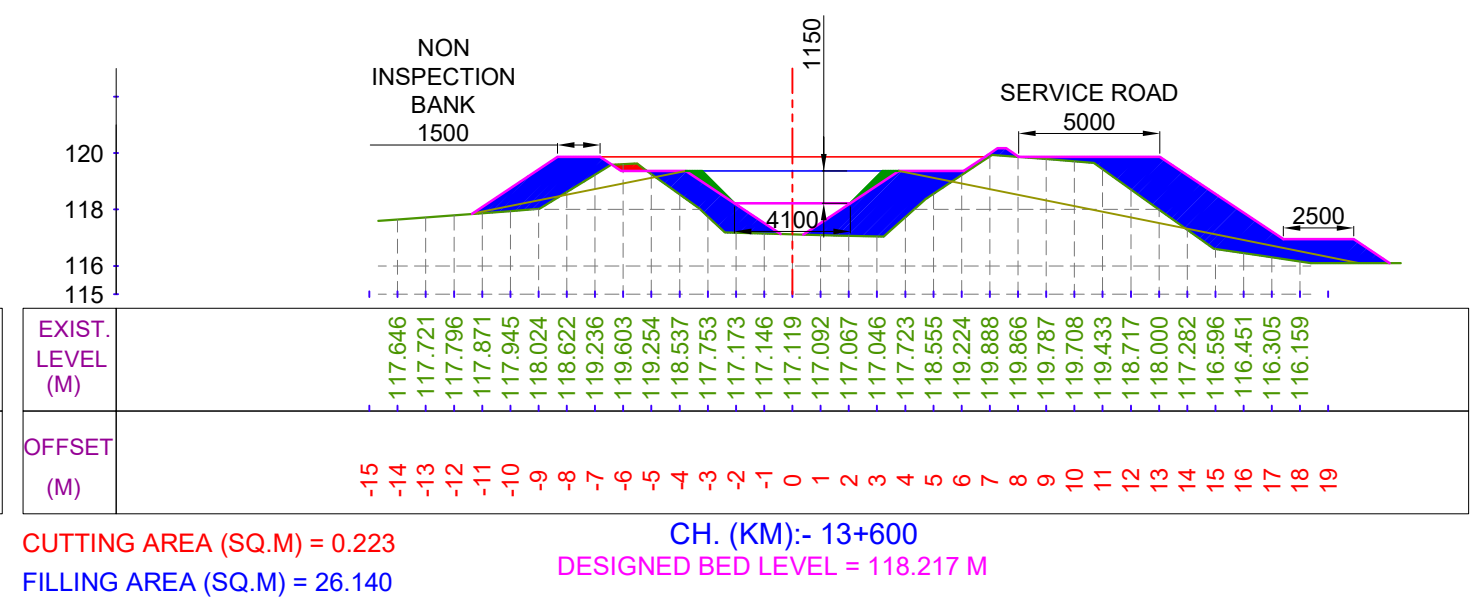
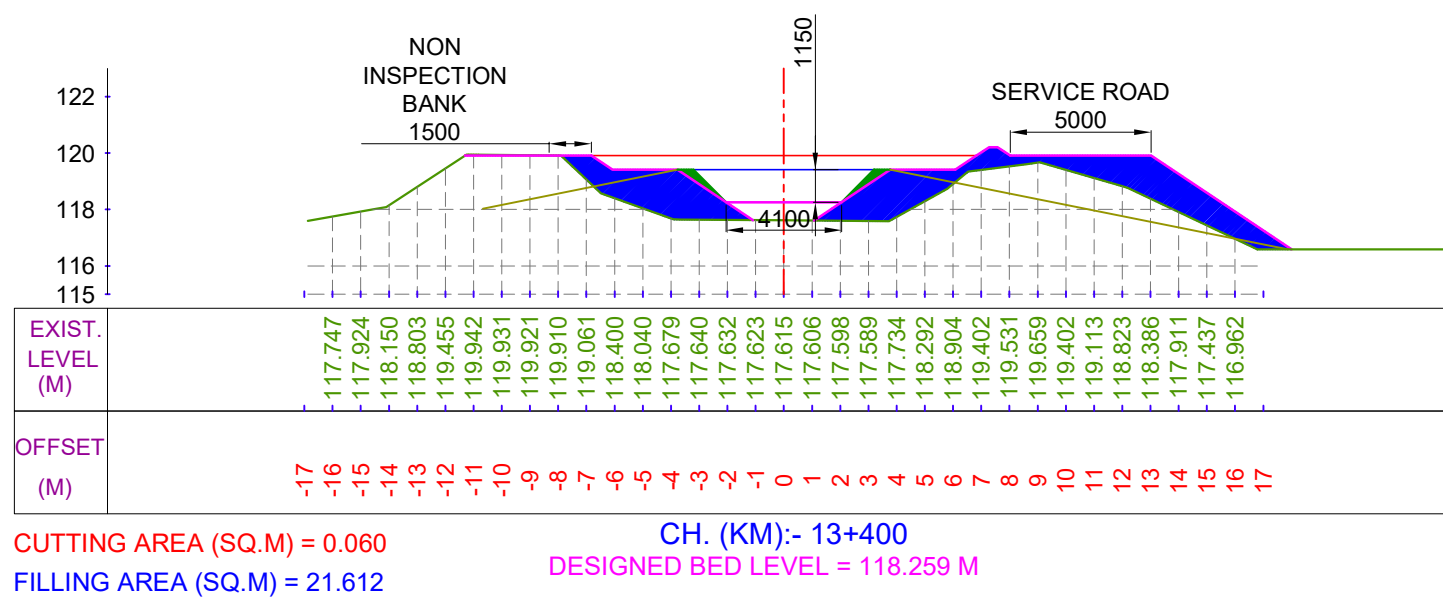
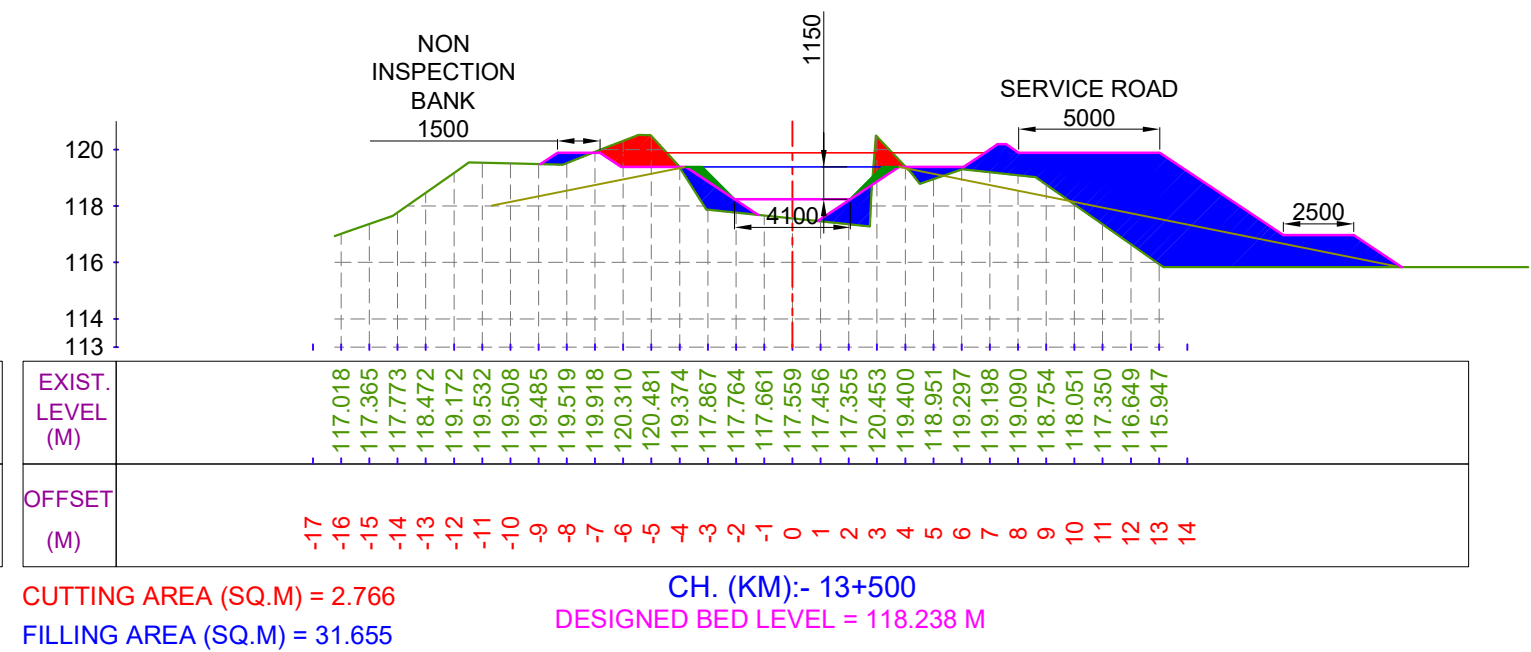
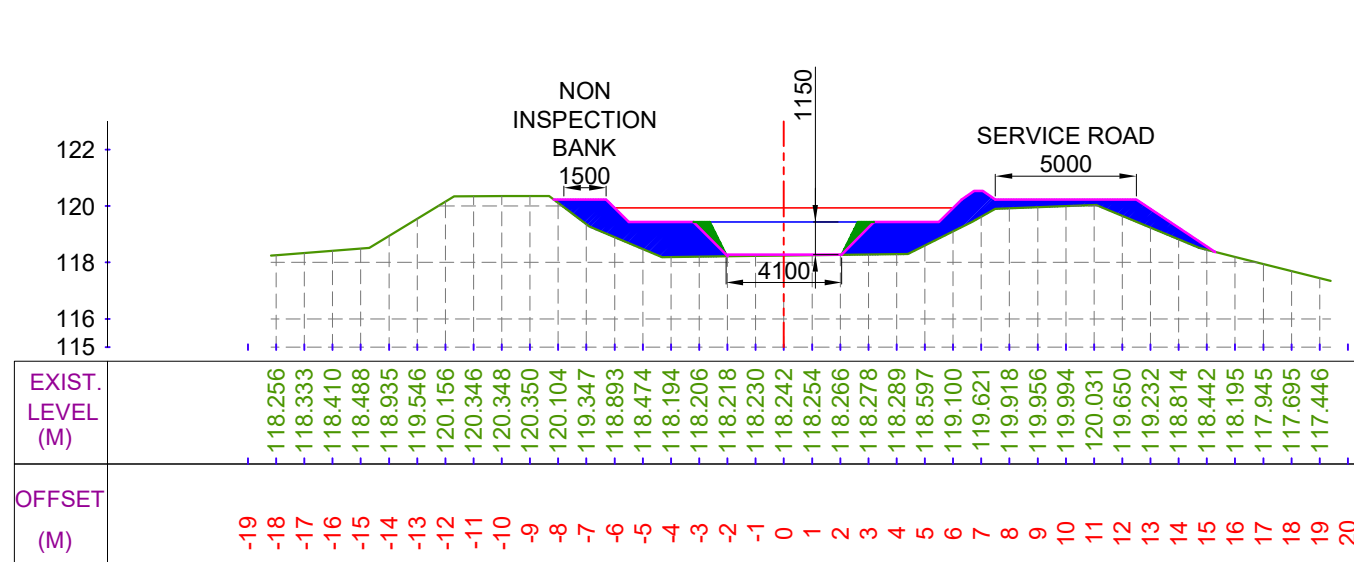
X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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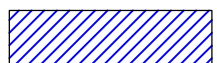
X SECTION OF KOTWARA DY.



LEGEND



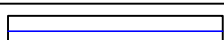
CUT AREA



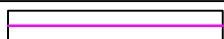
FILL AREA



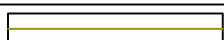
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

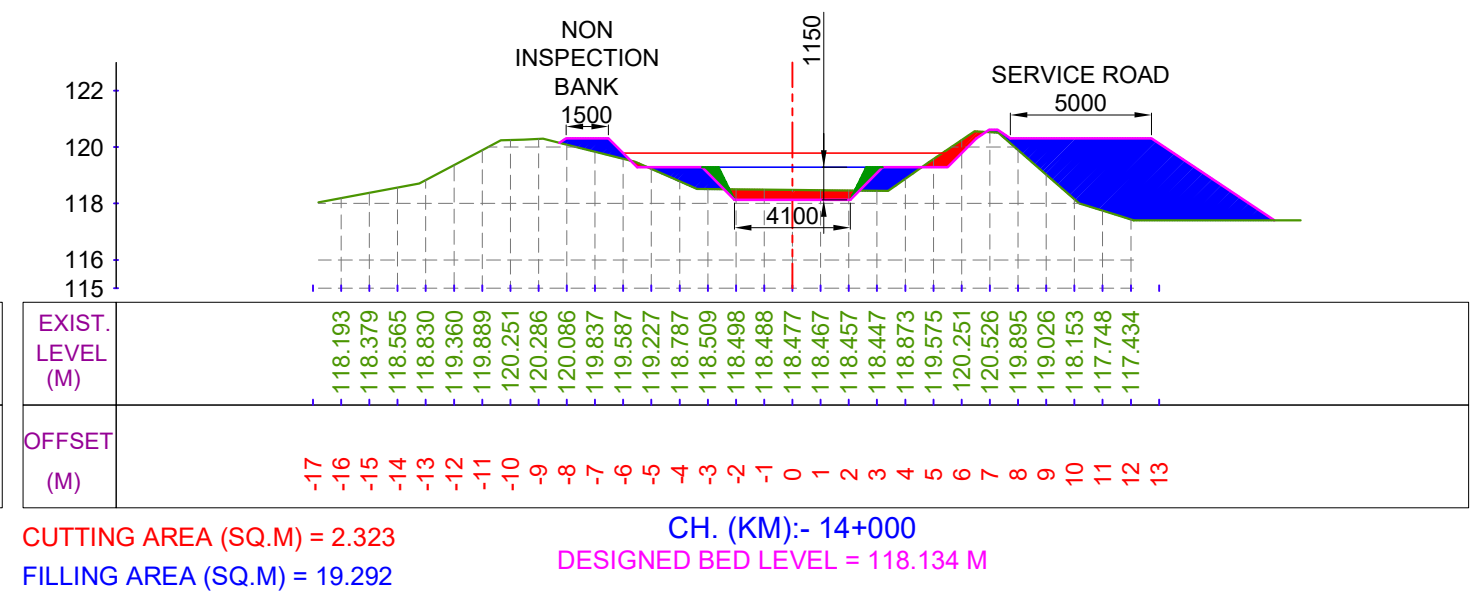
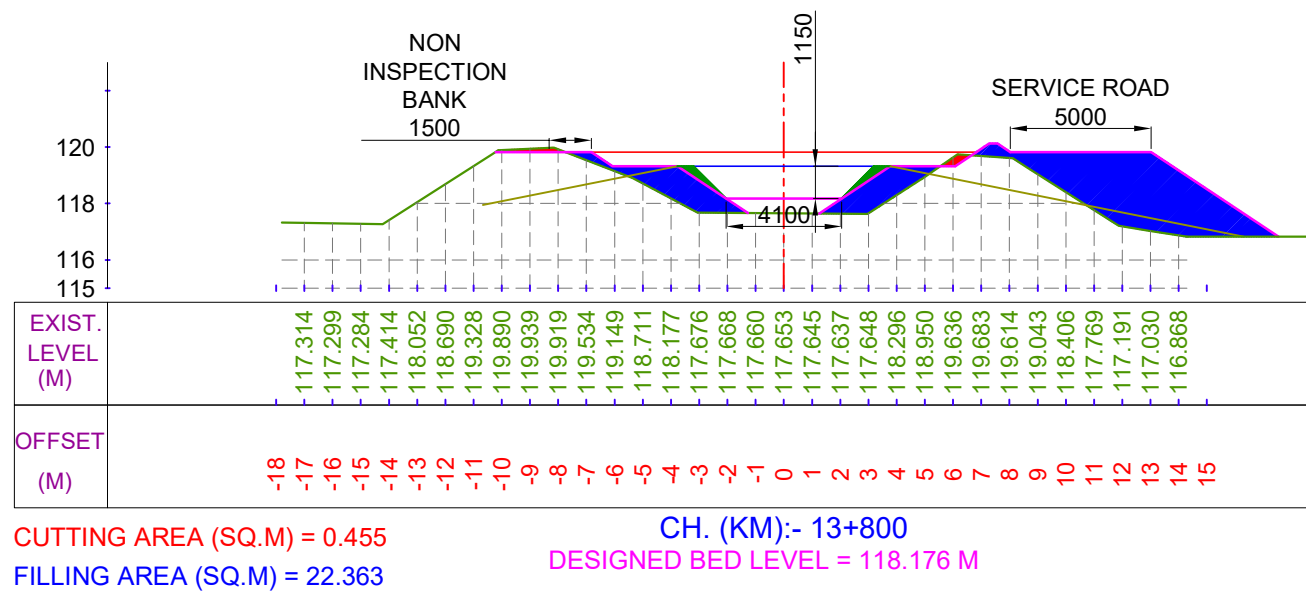
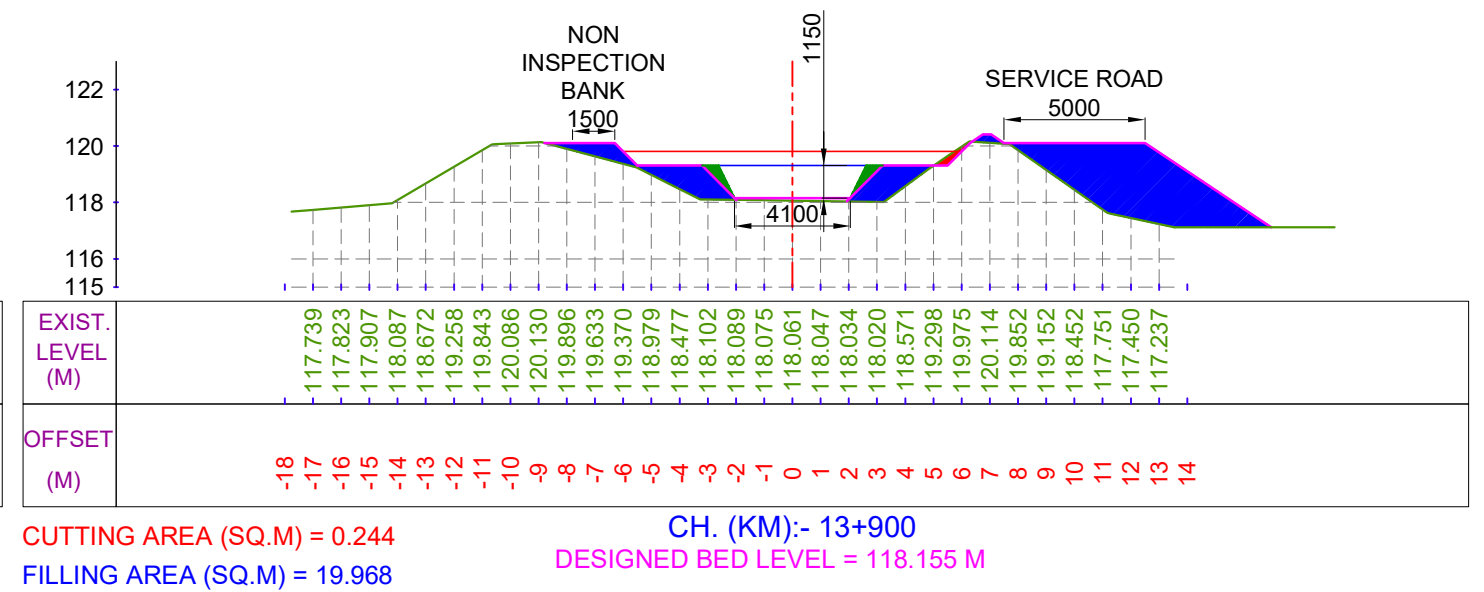
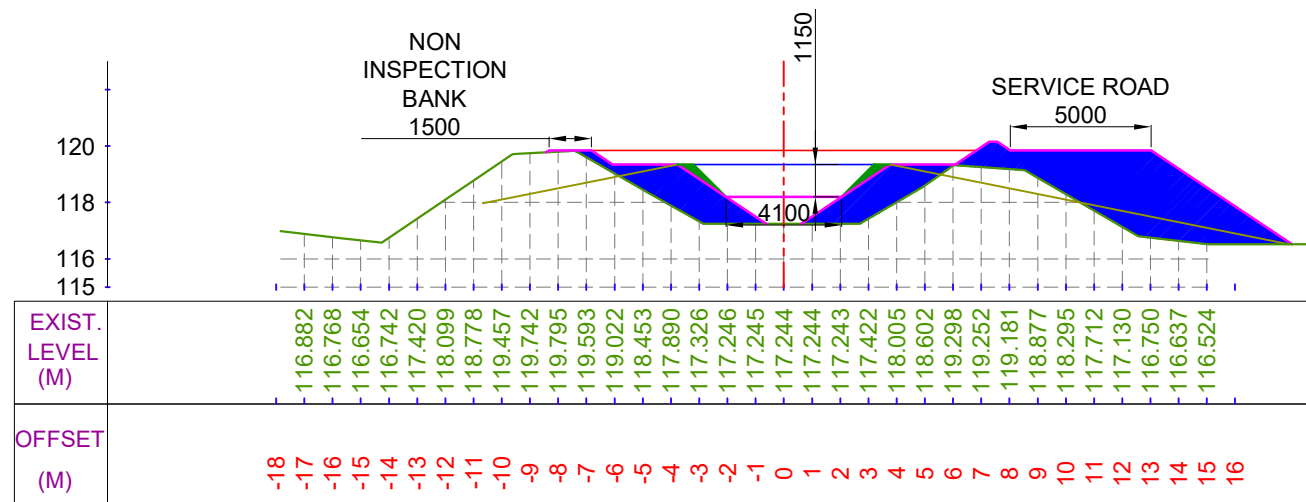
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

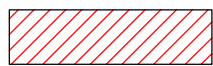
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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LEGEND



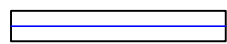
CUT AREA



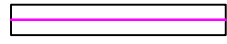
FILL AREA



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

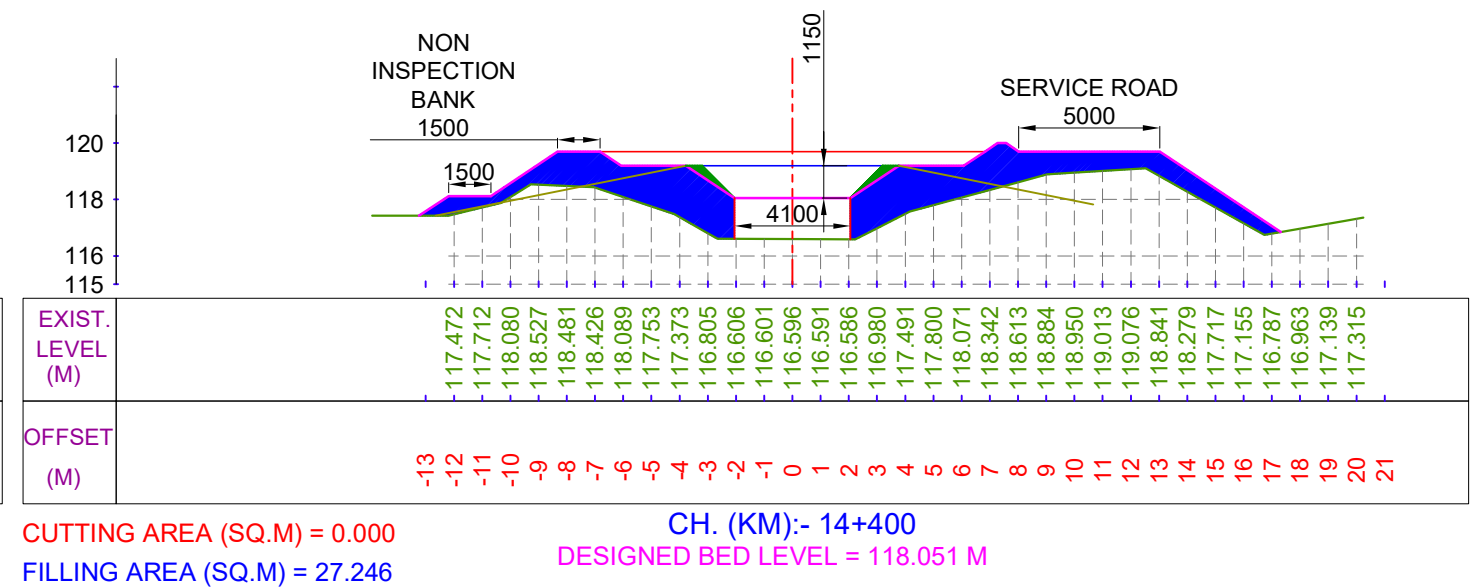
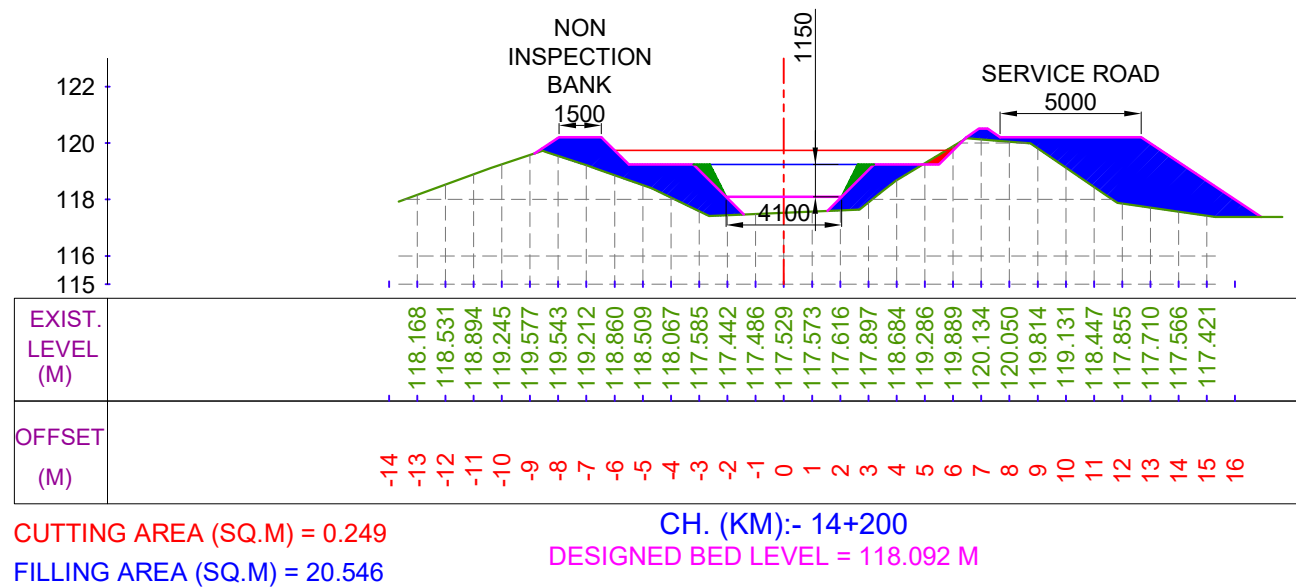
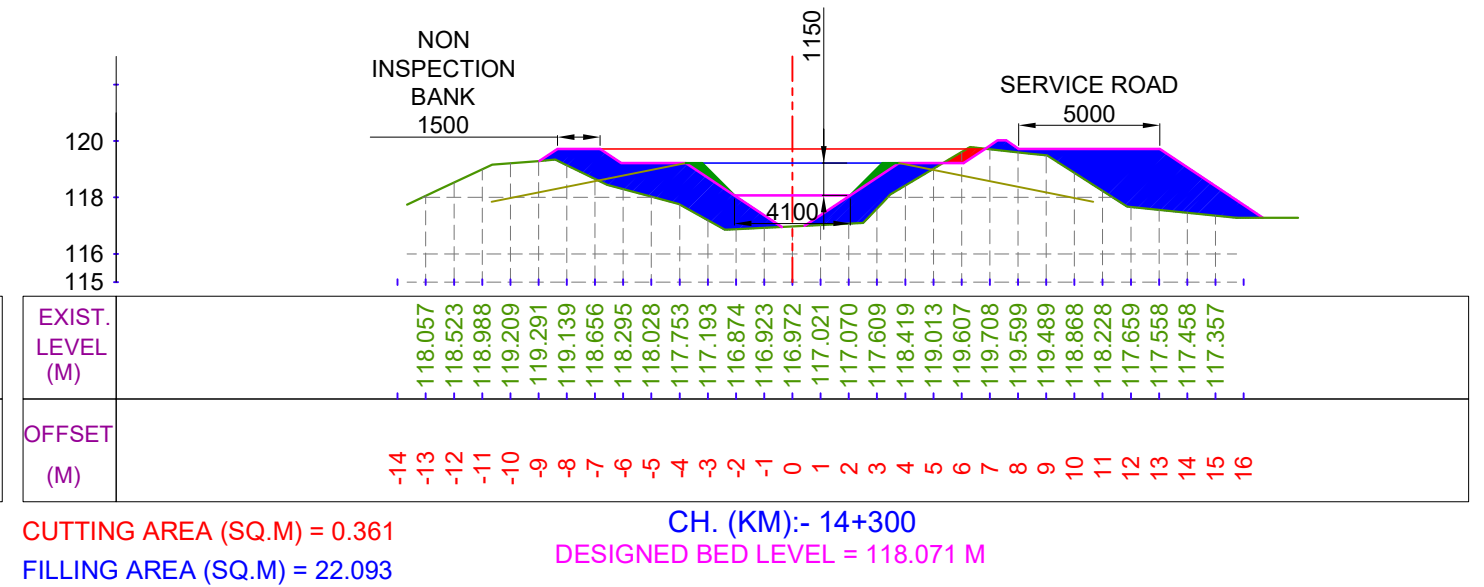
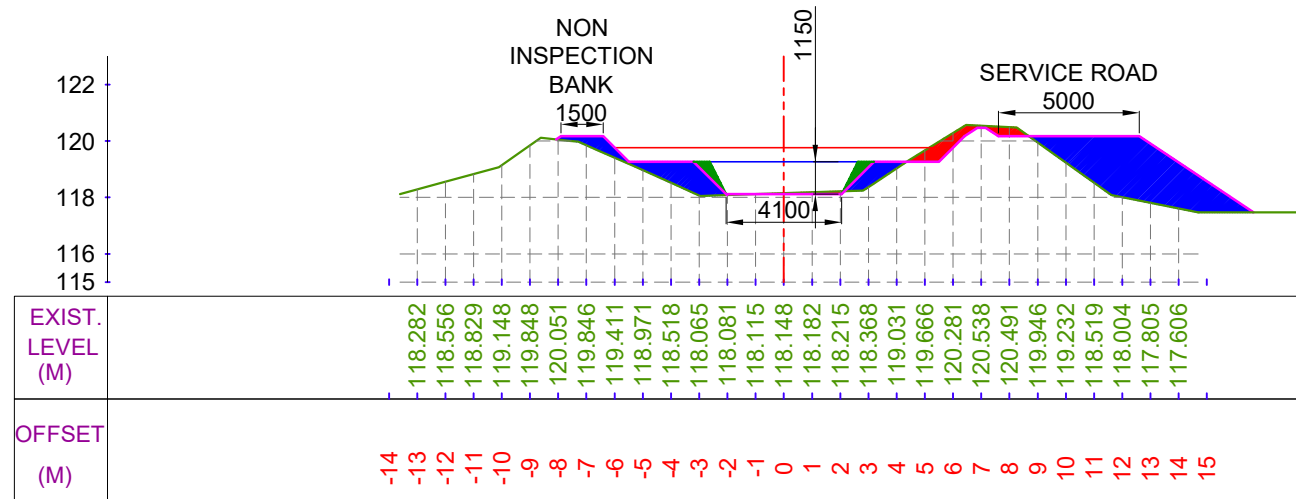
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

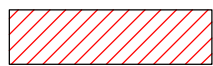
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

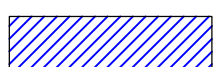
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LEGEND



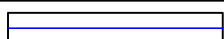
CUT AREA



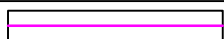
FILL AREA



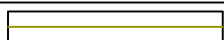
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

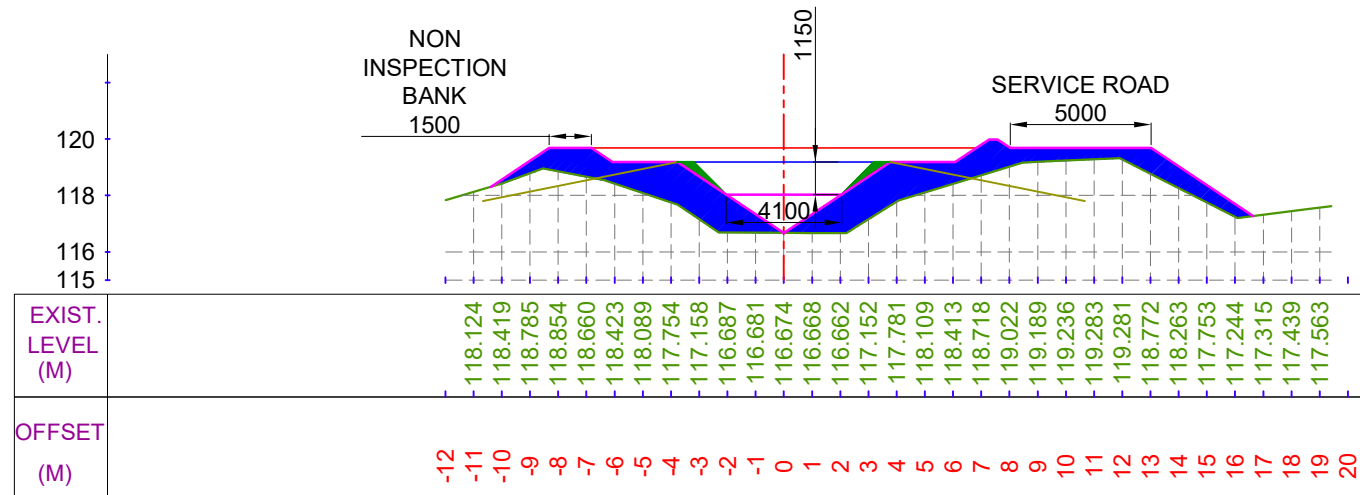
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

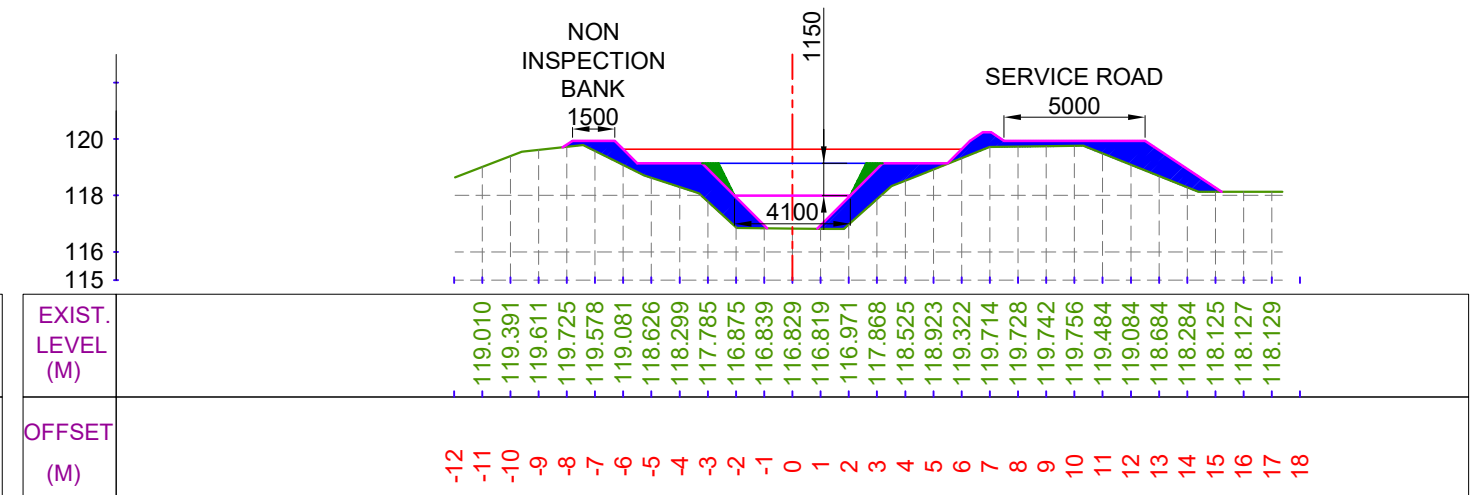
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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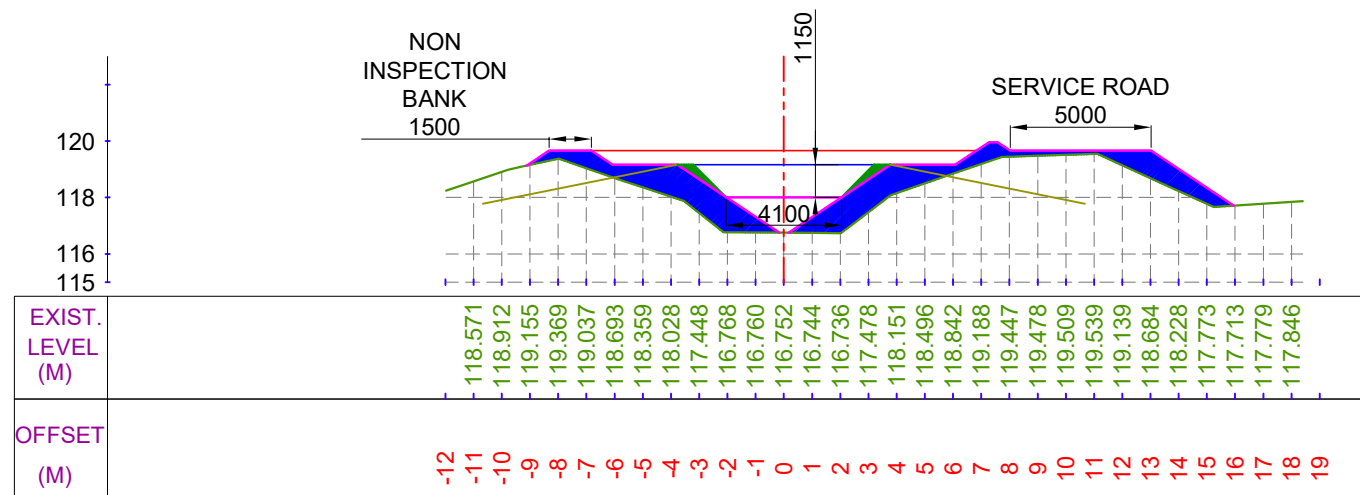
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 22.304

CH. (KM):- 14+500
DESIGNED BED LEVEL = 118.030 M



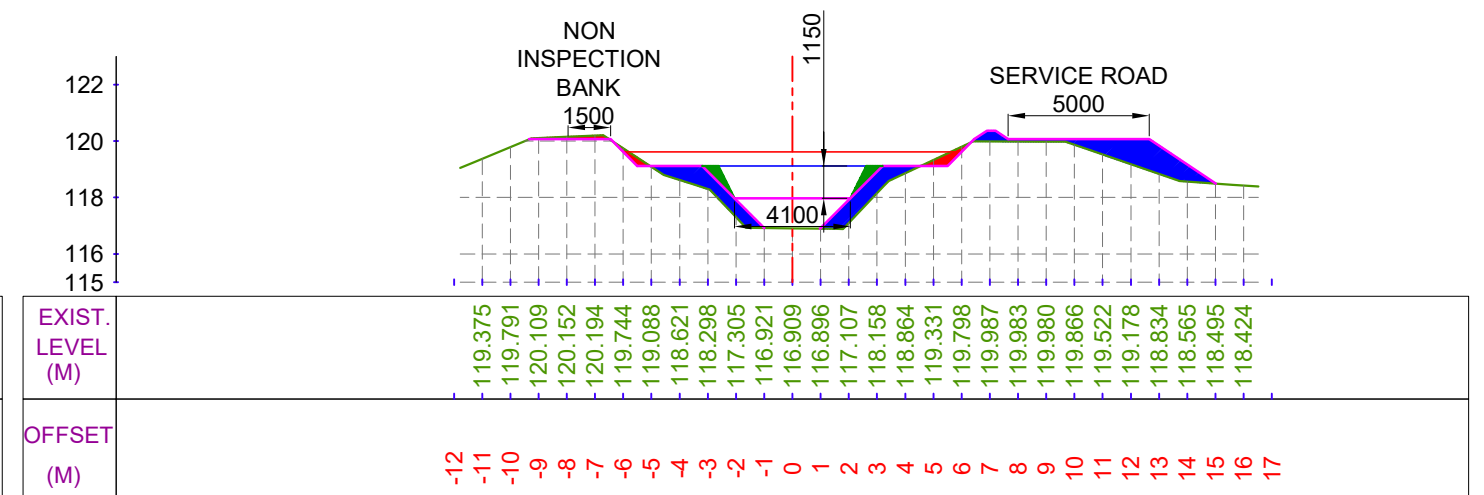
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 11.993

CH. (KM):- 14+700
DESIGNED BED LEVEL = 117.988 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 15.543

CH. (KM):- 14+600
DESIGNED BED LEVEL = 118.009 M



CUTTING AREA (SQ.M) = 0.834
FILLING AREA (SQ.M) = 7.619

CH. (KM):- 14+800
DESIGNED BED LEVEL = 117.967 M

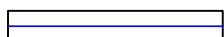
LEGEND



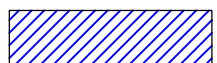
CUT AREA



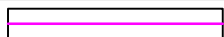
EXISTING BED LINE



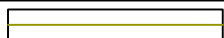
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

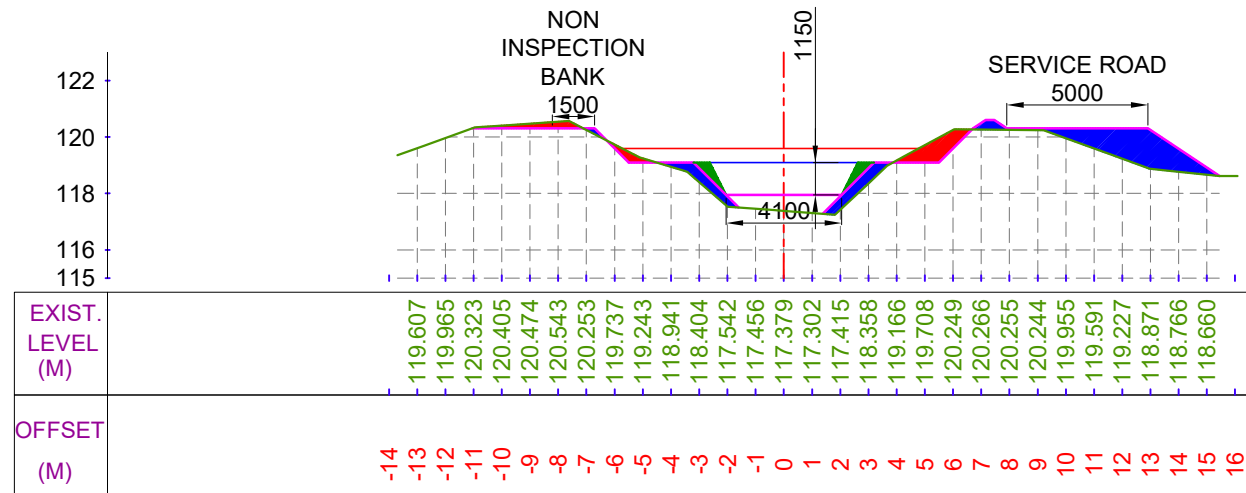
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

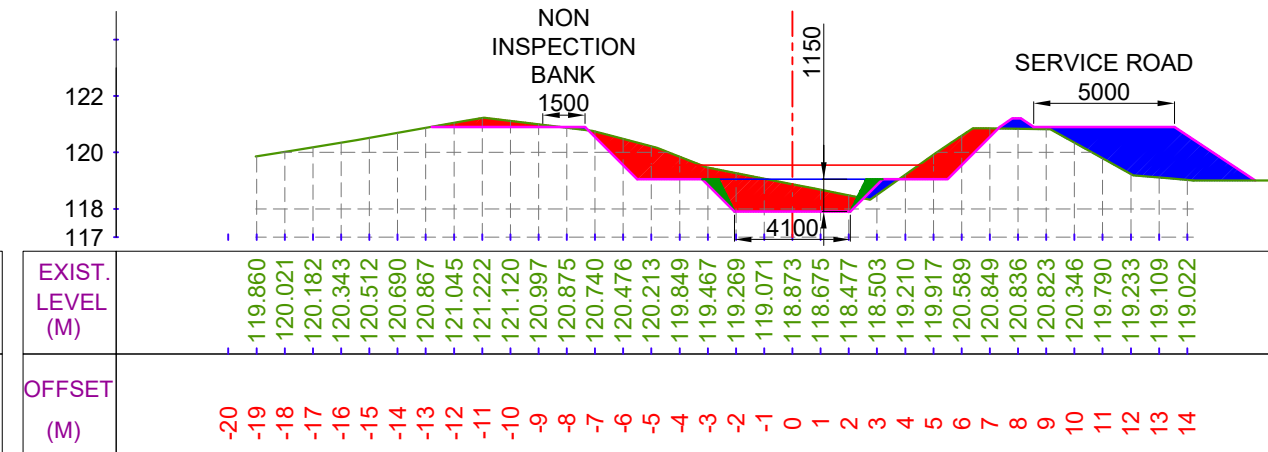
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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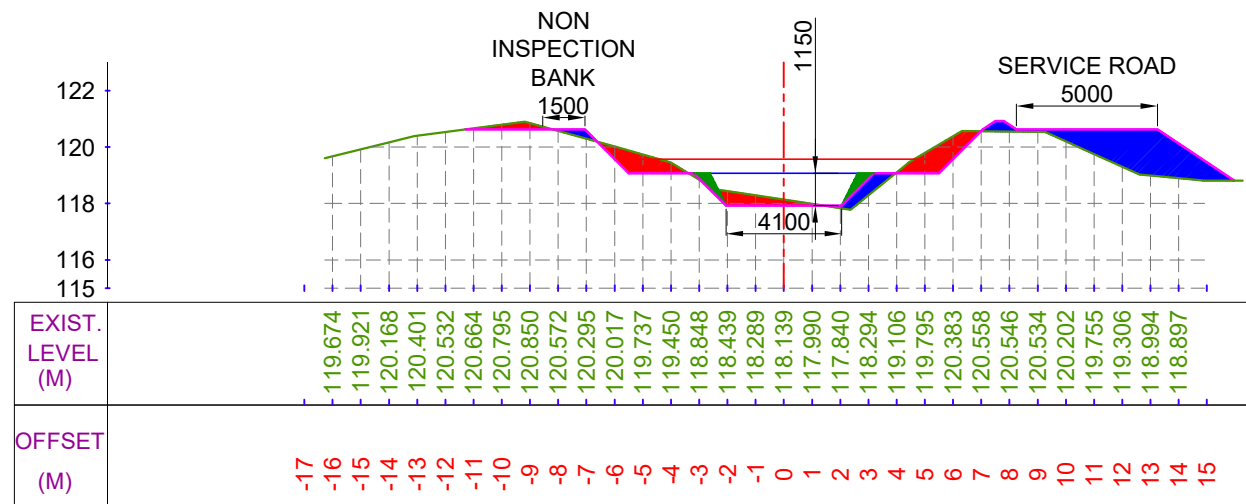
CUTTING AREA (SQ.M) = 2.211
FILLING AREA (SQ.M) = 2.814

CH. (KM):- 14+900
DESIGNED BED LEVEL = 117.946 M



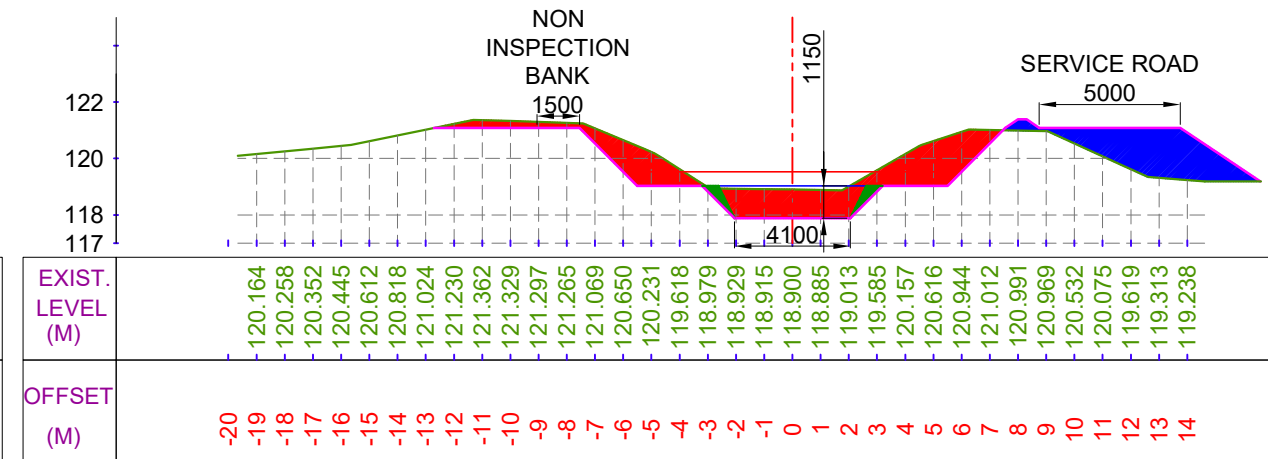
CUTTING AREA (SQ.M) = 11.134
FILLING AREA (SQ.M) = 8.668

CH. (KM):- 15+100
DESIGNED BED LEVEL = 117.905 M



CUTTING AREA (SQ.M) = 4.602
FILLING AREA (SQ.M) = 7.668

CH. (KM):- 15+000
DESIGNED BED LEVEL = 117.926 M



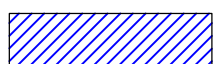
CUTTING AREA (SQ.M) = 14.528
FILLING AREA (SQ.M) = 8.382

CH. (KM):- 15+200
DESIGNED BED LEVEL = 117.884 M

LEGEND



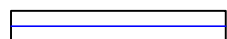
CUT AREA



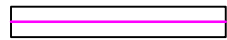
FILL AREA



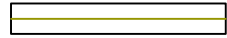
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

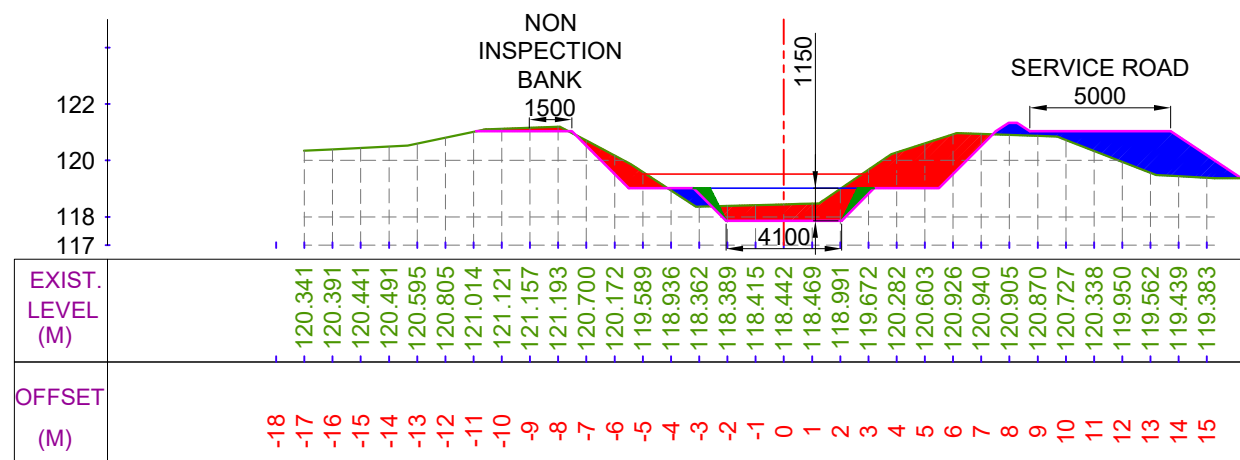
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

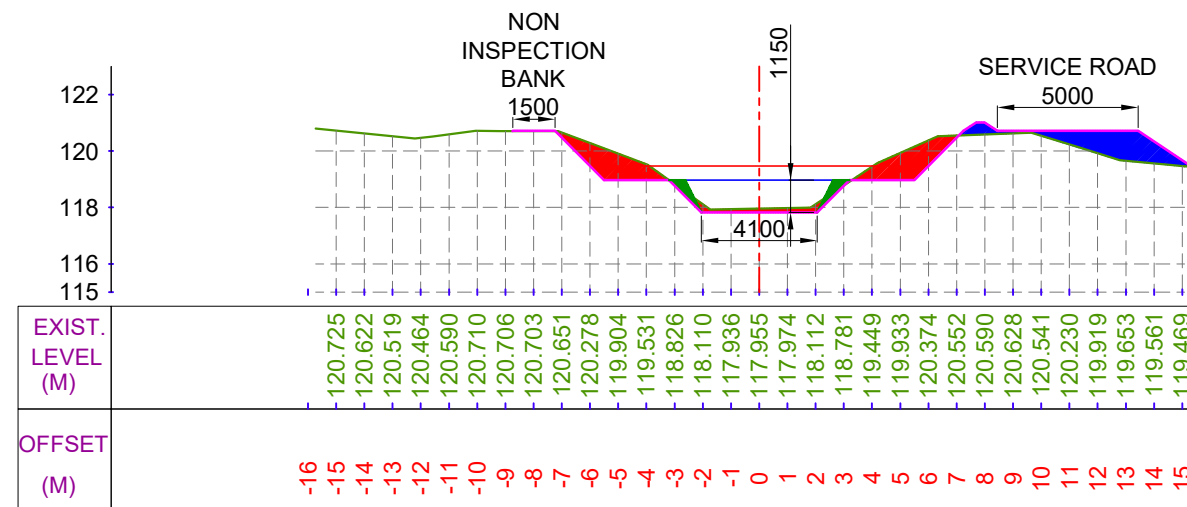
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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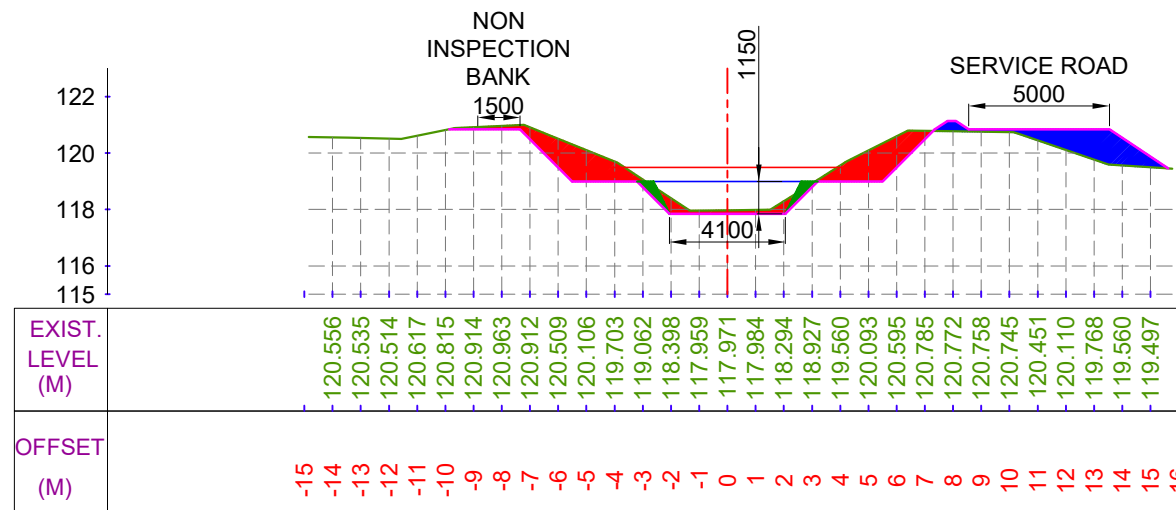
CUTTING AREA (SQ.M) = 10.193
FILLING AREA (SQ.M) = 6.916

CH. (KM):- 15+300
DESIGNED BED LEVEL = 117.863 M



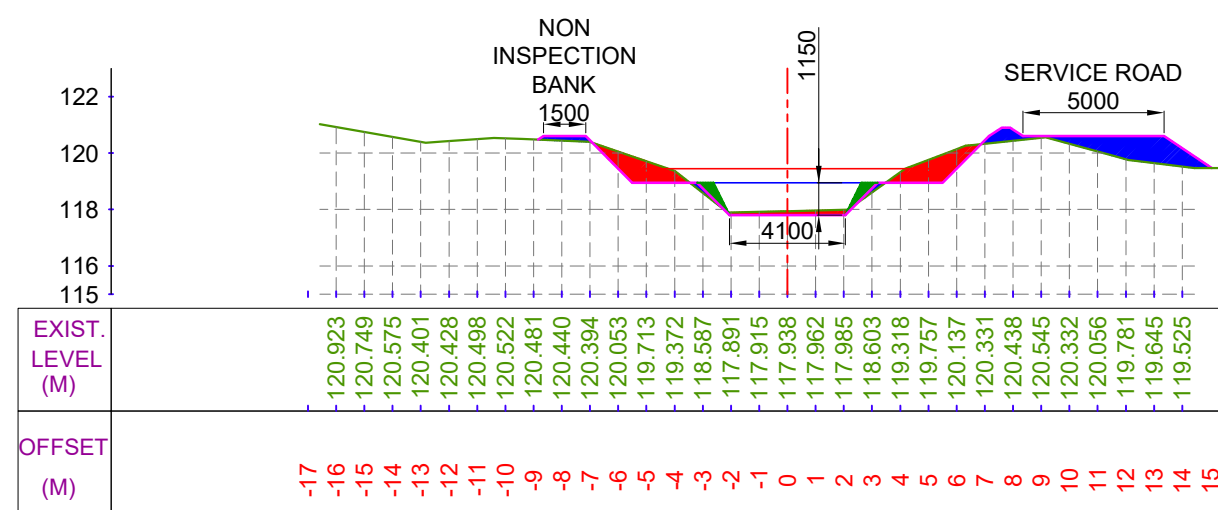
CUTTING AREA (SQ.M) = 5.675
FILLING AREA (SQ.M) = 3.967

CH. (KM):- 15+500
DESIGNED BED LEVEL = 117.821 M



CUTTING AREA (SQ.M) = 7.698
FILLING AREA (SQ.M) = 4.070

CH. (KM):- 15+400
DESIGNED BED LEVEL = 117.842 M



CUTTING AREA (SQ.M) = 4.258
FILLING AREA (SQ.M) = 4.406

CH. (KM):- 15+600
DESIGNED BED LEVEL = 117.801 M

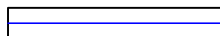
LEGEND



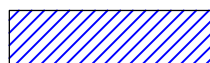
CUT AREA



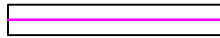
EXISTING BED LINE



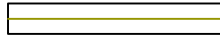
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

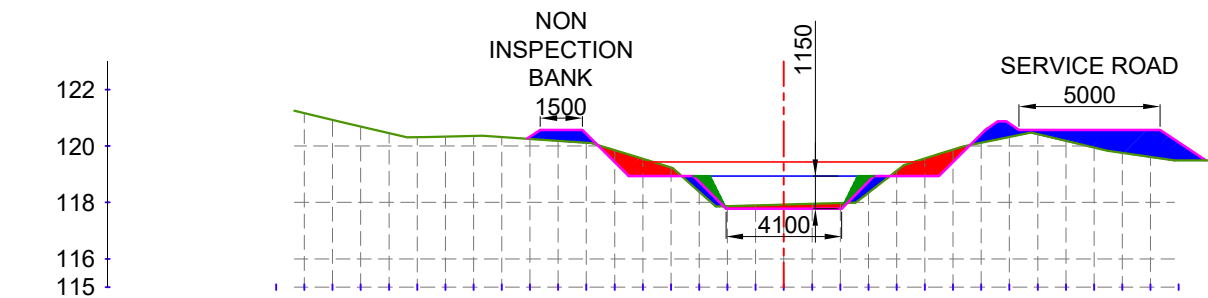
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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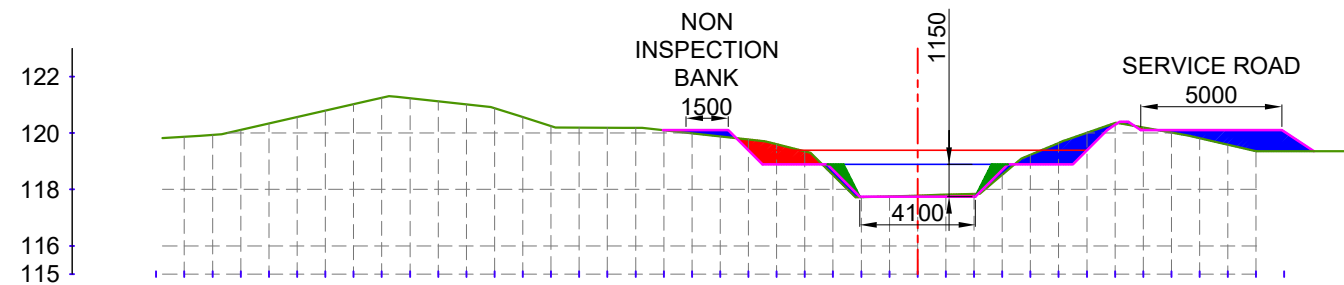
EXIST. LEVEL (M)	121.165	120.929	120.692	120.455	120.312	120.336	120.360	120.319	120.250	120.180	120.110	119.849	119.544	119.240	118.382	117.866	117.893	117.920	117.946	117.973	118.343	119.123	119.554	119.871	120.117	120.318	120.417	120.183	119.949	119.759	119.612		
OFFSET (M)	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 3.151

CH. (KM):- 15+700

FILLING AREA (SQ.M) = 5.936

DESIGNED BED LEVEL = 117.780 M



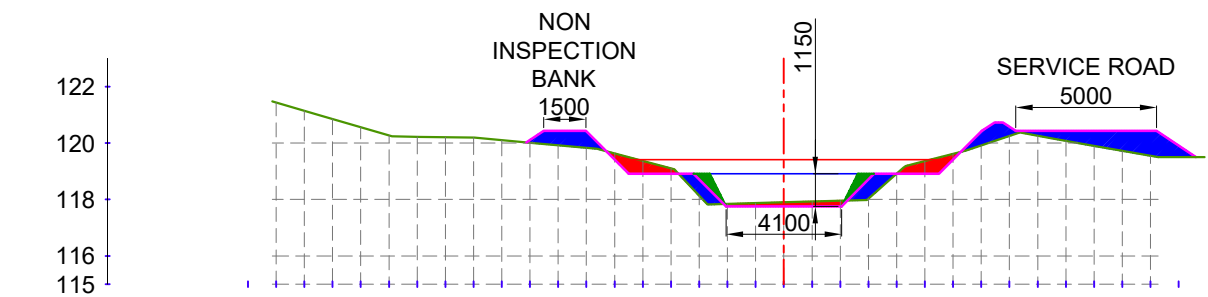
EXIST. LEVEL (M)	119.867	119.932	120.107	120.335	120.563	120.791	121.020	121.248	121.228	121.120	121.013	120.878	120.563	120.248	120.194	120.189	120.185	120.100	119.991	119.883	119.774	119.604	119.349	118.507	117.722	117.752	117.782	117.813	117.843	118.522	119.228	119.649	120.009	120.357	120.192	120.013	119.813	119.583	119.352		
OFFSET (M)	-27	-26	-25	-24	-23	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13

CUTTING AREA (SQ.M) = 1.770

CH. (KM):- 15+900

FILLING AREA (SQ.M) = 4.883

DESIGNED BED LEVEL = 117.738 M



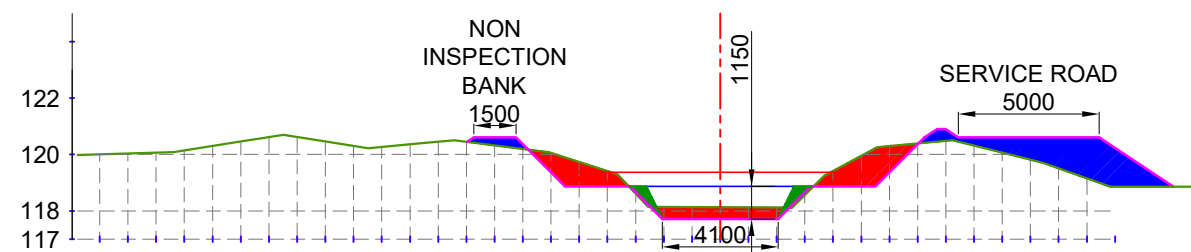
EXIST. LEVEL (M)	121.436	121.144	120.852	120.560	120.267	120.223	120.210	120.197	120.107	120.015	119.923	119.831	119.632	119.368	119.103	118.134	117.843	117.872	117.901	117.930	117.959	118.031	118.909	119.359	119.613	119.916	120.258	120.264	120.078	119.894	119.720	119.546		
OFFSET (M)	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 2.225

CH. (KM):- 15+800

FILLING AREA (SQ.M) = 6.246

DESIGNED BED LEVEL = 117.759 M



EXIST. LEVEL (M)	120.007	120.038	120.069	120.149	120.306	120.462	120.618	120.622	120.465	120.307	120.269	120.361	120.453	120.451	120.325	120.200	120.058	119.736	119.413	118.615	118.138	118.133	118.128	118.123	118.119	118.565	119.416	119.953	120.297	120.392	120.487	120.319	120.067	119.815	119.507	119.151	
OFFSET (M)	-22	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

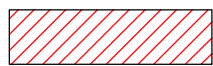
CUTTING AREA (SQ.M) = 6.629

CH. (KM):- 16+000

FILLING AREA (SQ.M) = 7.422

DESIGNED BED LEVEL = 117.717 M

LEGEND



CUT AREA



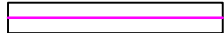
EXISTING BED LINE



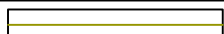
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

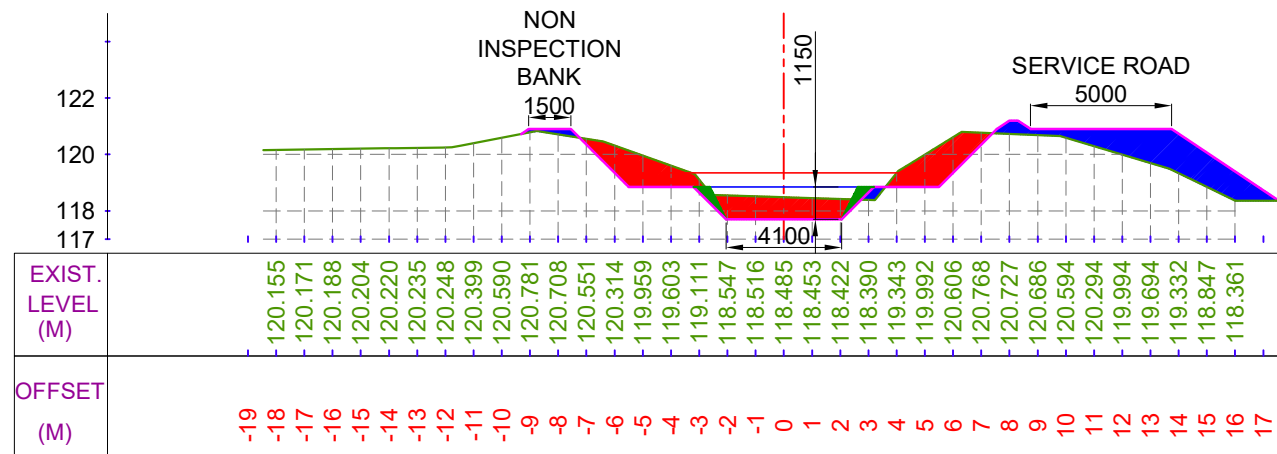
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

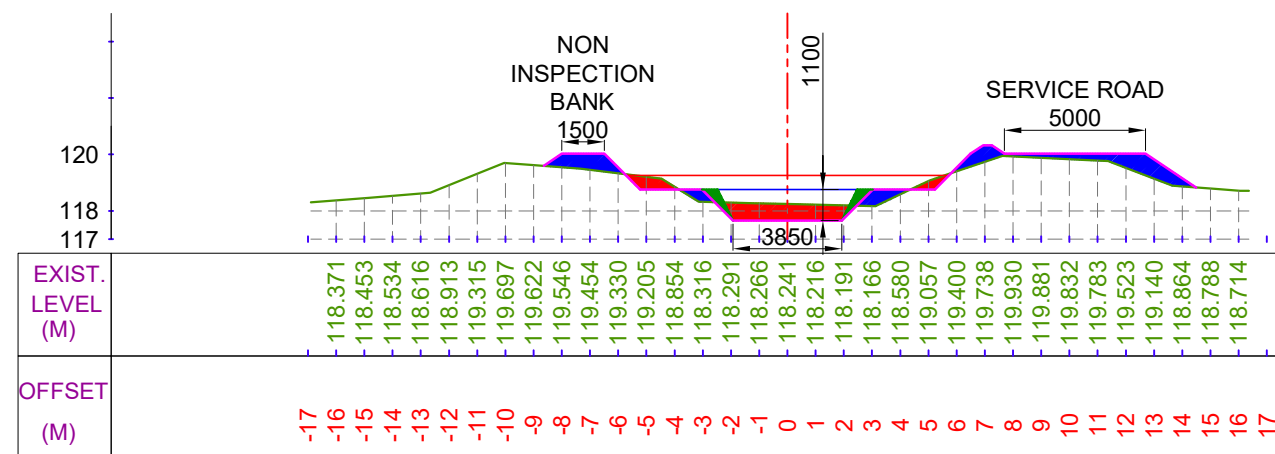
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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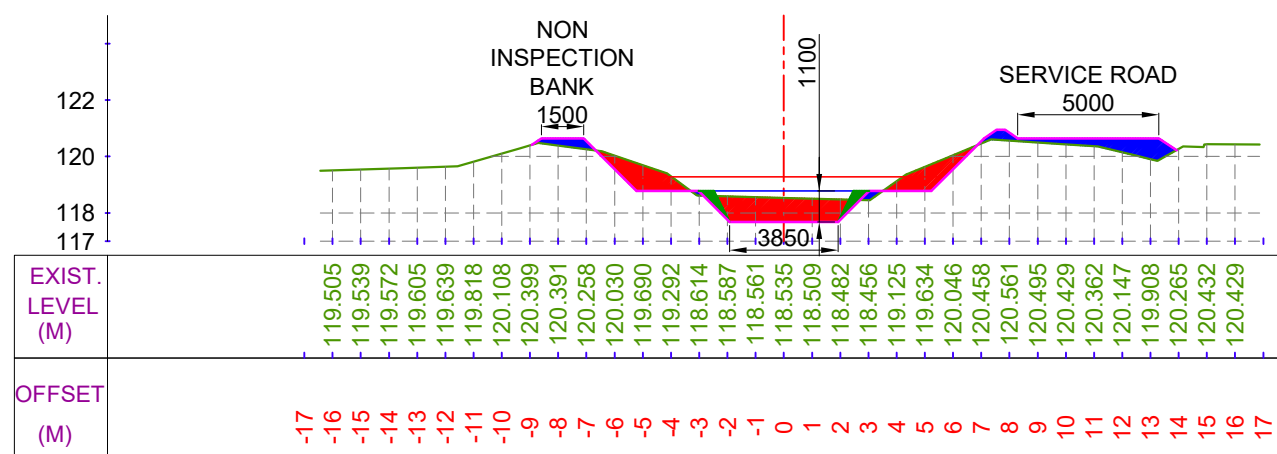
CUTTING AREA (SQ.M) = 10.141
FILLING AREA (SQ.M) = 8.054

CH. (KM):- 16+100
DESIGNED BED LEVEL = 117.696 M



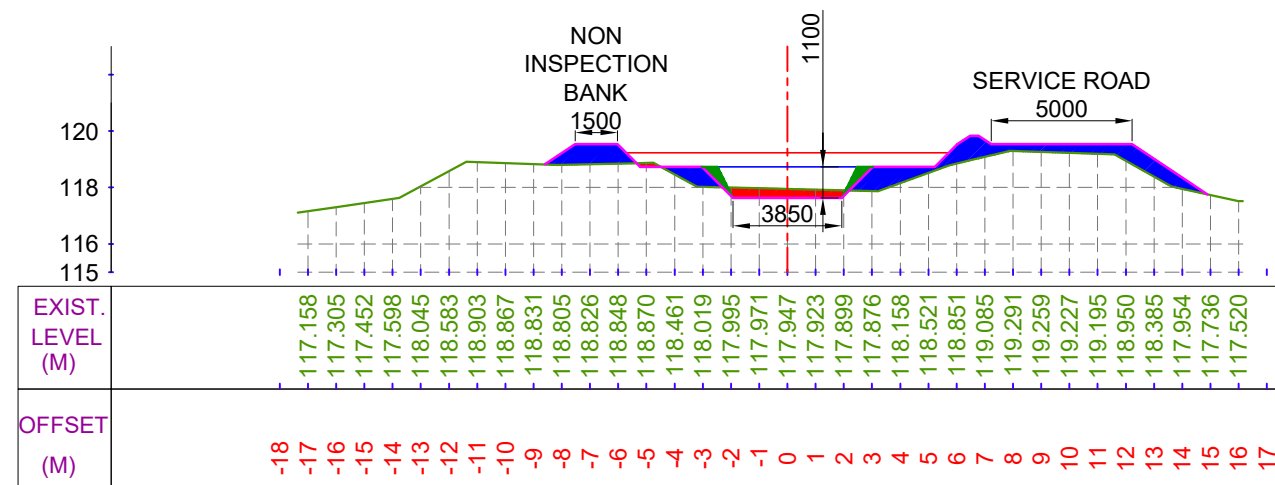
CUTTING AREA (SQ.M) = 3.301
FILLING AREA (SQ.M) = 4.900

CH. (KM):- 16+300
DESIGNED BED LEVEL = 117.654 M



CUTTING AREA (SQ.M) = 7.244
FILLING AREA (SQ.M) = 3.022

CH. (KM):- 16+200
DESIGNED BED LEVEL = 117.676 M



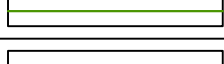
CUTTING AREA (SQ.M) = 1.352
FILLING AREA (SQ.M) = 8.122

CH. (KM):- 16+400
DESIGNED BED LEVEL = 117.633 M

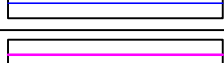
LEGEND



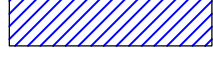
CUT AREA



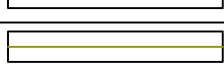
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

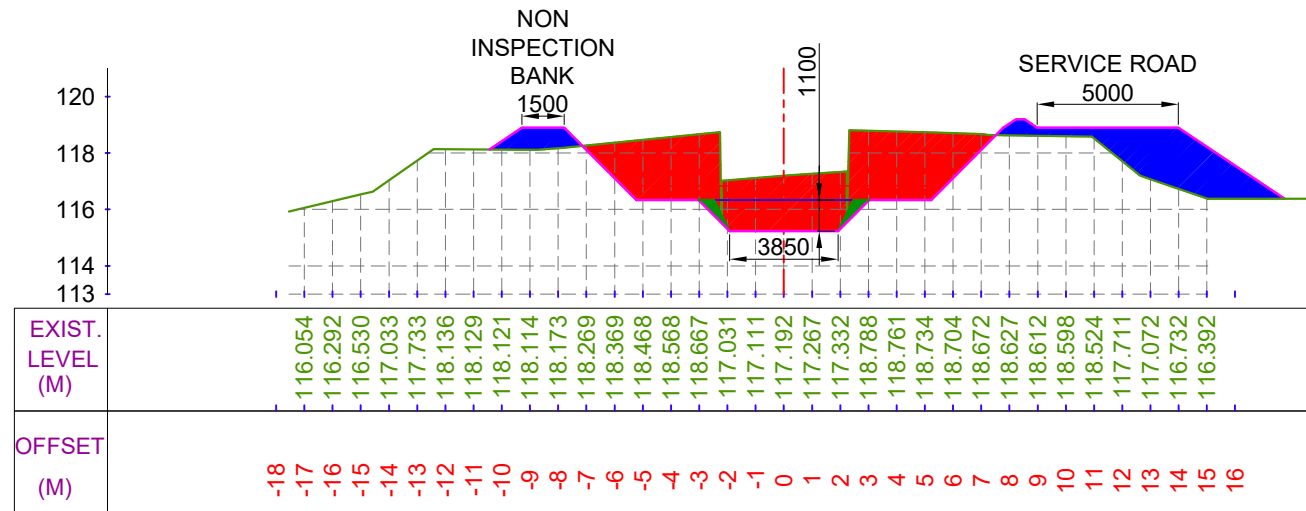
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

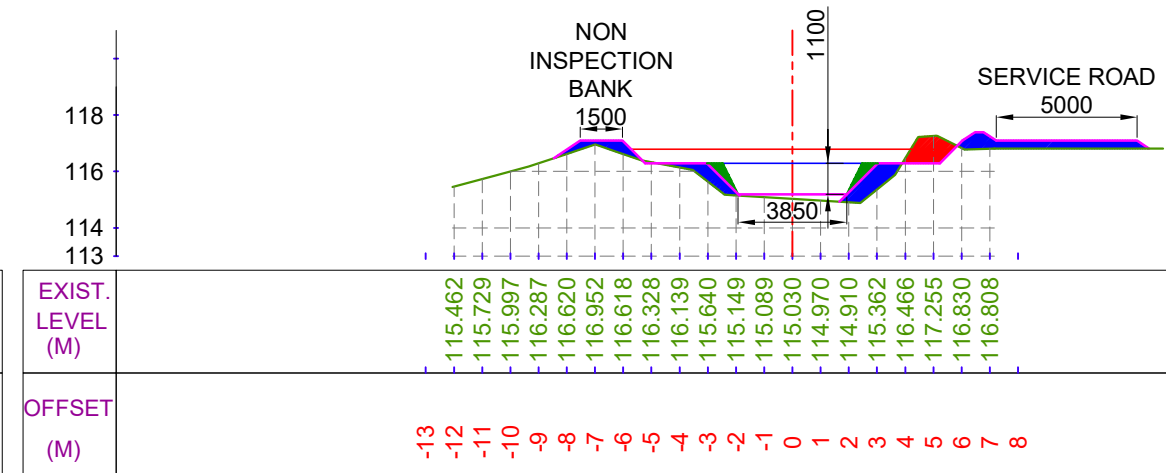
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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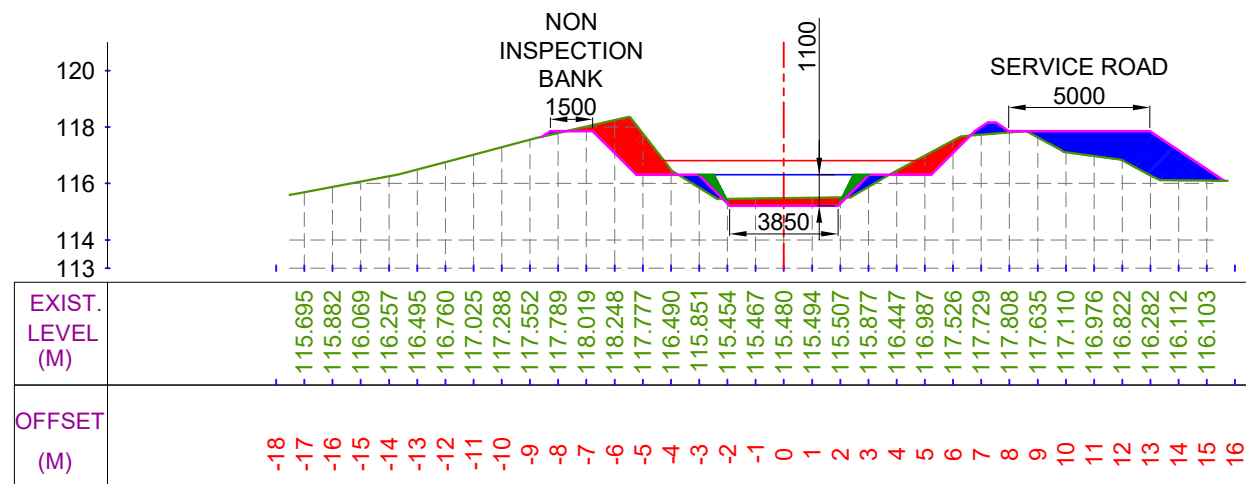
CUTTING AREA (SQ.M) = 27.335
FILLING AREA (SQ.M) = 11.812

CH. (KM):- 16+500
DESIGNED BED LEVEL = 115.232 M



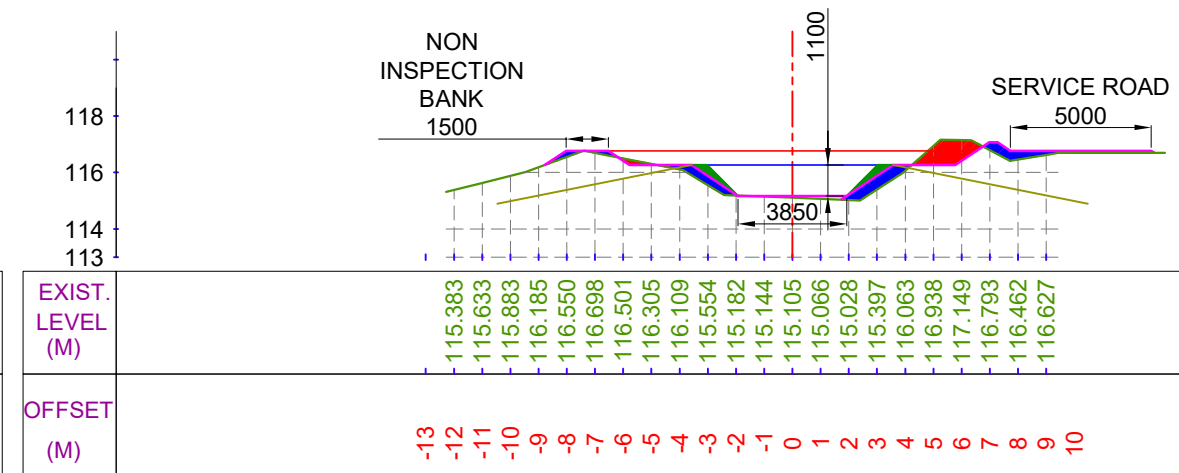
CUTTING AREA (SQ.M) = 1.301
FILLING AREA (SQ.M) = 4.874

CH. (KM):- 16+700
DESIGNED BED LEVEL = 115.189 M



CUTTING AREA (SQ.M) = 5.367
FILLING AREA (SQ.M) = 7.020

CH. (KM):- 16+600
DESIGNED BED LEVEL = 115.210 M



CUTTING AREA (SQ.M) = 1.542
FILLING AREA (SQ.M) = 2.687

CH. (KM):- 16+800
DESIGNED BED LEVEL = 115.168 M

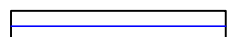
LEGEND



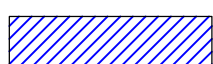
CUT AREA



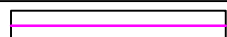
EXISTING BED LINE



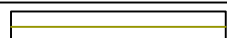
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

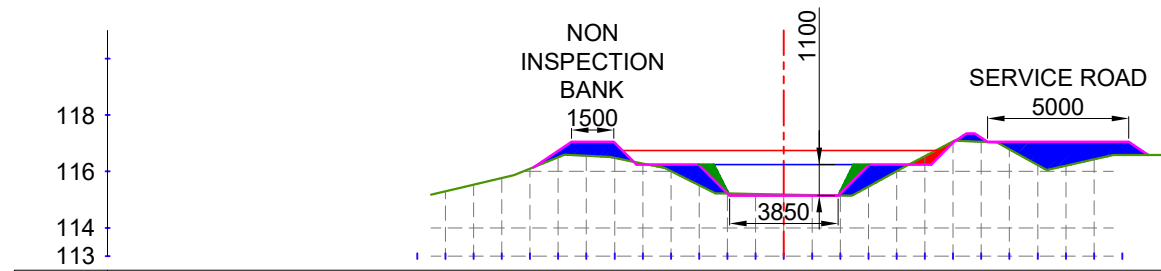
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

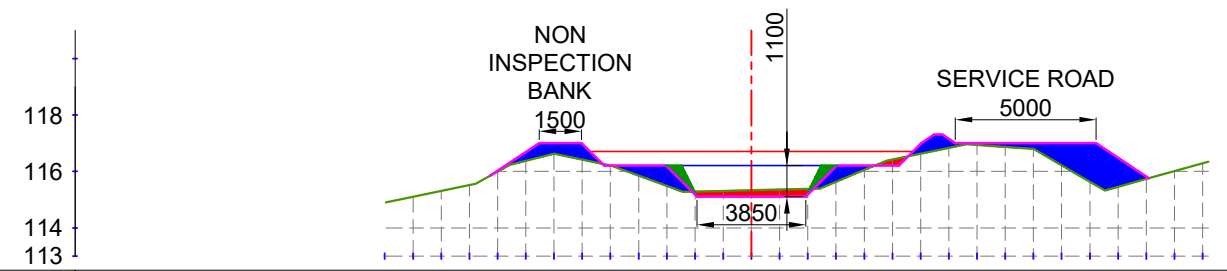
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EXIST. LEVEL (M)	115.297	115.530	115.764	116.095	116.502	116.553	116.478	116.277	116.006	115.512	115.216	115.198	115.181	115.163	115.145	115.459	116.007	116.540	117.068	117.052	116.784	116.229	116.203	116.427		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

CUTTING AREA (SQ.M) = 0.488
FILLING AREA (SQ.M) = 6.496

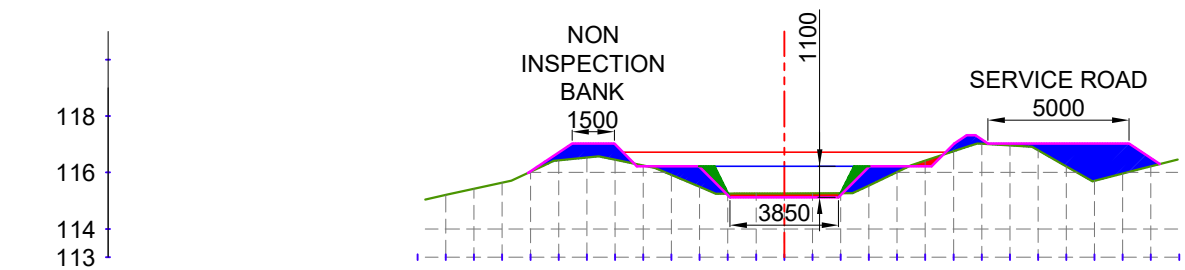
CH. (KM):- 16+900
DESIGNED BED LEVEL = 115.147 M



EXIST. LEVEL (M)	115.105	115.309	115.514	115.990	116.372	116.625	116.421	116.209	115.850	115.483	115.284	115.308	115.332	115.355	115.379	115.628	116.047	116.419	116.625	116.832	116.939	116.866	116.794	116.217	115.636	115.453	115.732	116.011	116.290		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 1.086
FILLING AREA (SQ.M) = 7.389

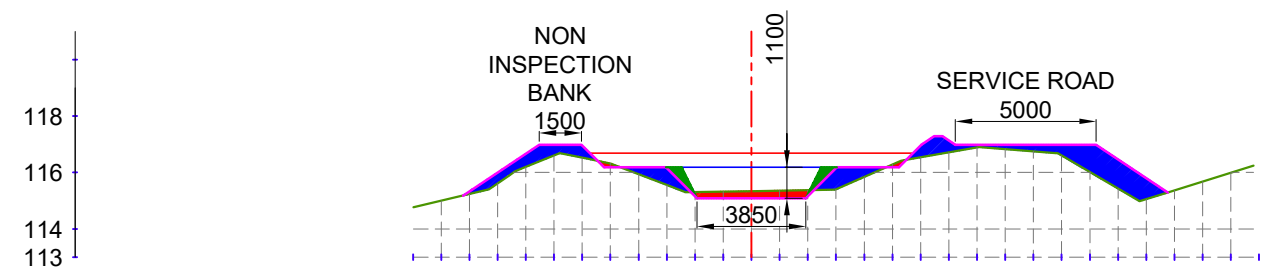
CH. (KM):- 17+100
DESIGNED BED LEVEL = 115.104 M



EXIST. LEVEL (M)	115.204	115.422	115.641	116.025	116.427	116.528	116.452	116.245	115.911	115.491	115.250	115.253	115.256	115.259	115.262	115.538	116.012	116.416	116.748	117.020	116.959	116.788	116.217	115.706	115.963	116.221		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 0.686
FILLING AREA (SQ.M) = 7.280

CH. (KM):- 17+000
DESIGNED BED LEVEL = 115.125 M

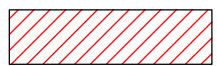


EXIST. LEVEL (M)	114.998	115.236	115.613	116.199	116.608	116.527	116.322	115.940	115.555	115.303	115.321	115.338	115.356	115.375	115.403	115.844	116.284	116.539	116.715	116.890	116.829	116.750	116.598	116.014	115.430	115.056	115.367	115.678	115.989		
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

CUTTING AREA (SQ.M) = 1.176
FILLING AREA (SQ.M) = 7.911

CH. (KM):- 17+200
DESIGNED BED LEVEL = 115.083 M

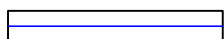
LEGEND



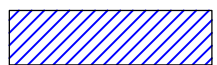
CUT AREA



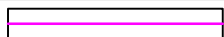
EXISTING BED LINE



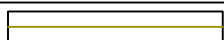
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

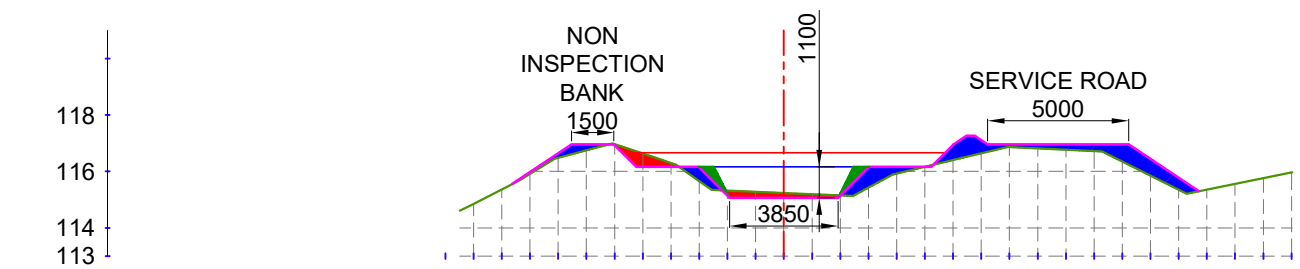
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

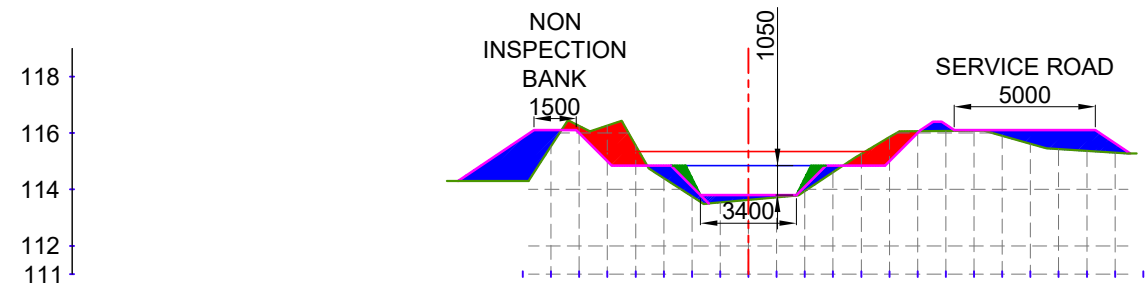
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EXIST. LEVEL (M)	114.854 115.368 115.917 116.483 116.747 116.966 116.632 116.298 115.659 115.318 115.277 115.236 115.194 115.153 115.425 115.919 116.160 116.400 116.641 116.865 116.817 116.769 116.721 116.350 115.851 115.353 115.358 115.561 115.764 115.968
OFFSET (M)	-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

CUTTING AREA (SQ.M) = 1.368
FILLING AREA (SQ.M) = 5.214

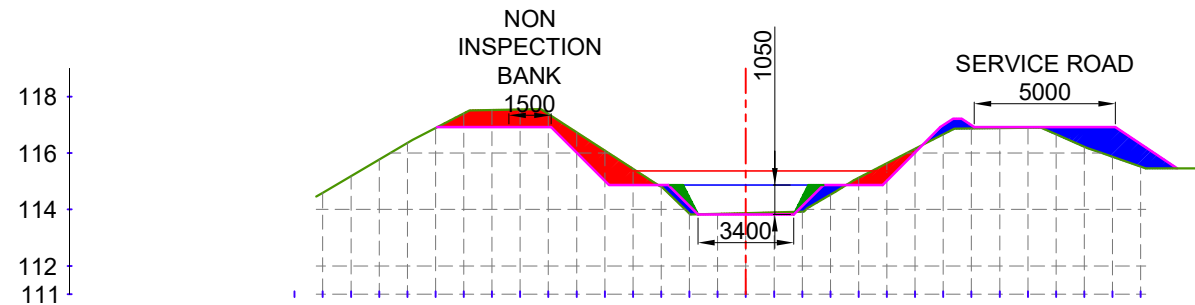
CH. (KM):- 17+300
DESIGNED BED LEVEL = 115.061 M



EXIST. LEVEL (M)	115.532 116.249 116.260 115.562 114.396 113.751 113.539 113.630 113.721 113.945 114.614 115.262 115.851 116.062 116.071 116.080 115.902 115.619 115.429 115.364 115.300
OFFSET (M)	-9 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

CUTTING AREA (SQ.M) = 3.625
FILLING AREA (SQ.M) = 7.440

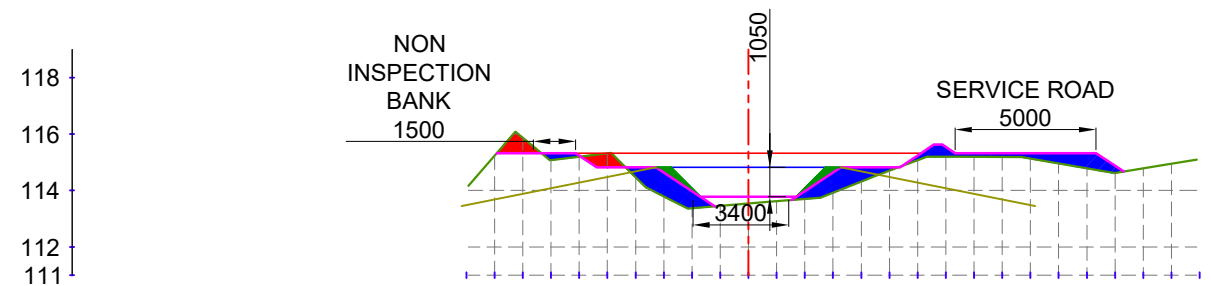
CH. (KM):- 17+500
DESIGNED BED LEVEL = 113.798 M



EXIST. LEVEL (M)	114.593 115.183 115.183 115.772 116.362 116.893 117.411 117.529 117.544 117.381 116.735 116.089 115.442 114.823 113.855 113.850 113.873 113.897 113.920 114.525 115.126 115.639 116.152 116.661 116.870 116.883 116.895 116.664 116.220 115.867 115.520
OFFSET (M)	-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

CUTTING AREA (SQ.M) = 5.757
FILLING AREA (SQ.M) = 4.245

CH. (KM):- 17+400
DESIGNED BED LEVEL = 113.820 M

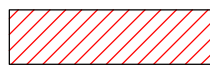


EXIST. LEVEL (M)	115.236 115.867 115.079 115.196 115.312 114.472 113.794 113.376 113.457 113.538 113.619 113.700 113.922 114.317 114.706 115.078 115.198 115.194 115.191 115.135 114.960 114.786 114.621 114.783 114.946
OFFSET (M)	-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

CUTTING AREA (SQ.M) = 1.092
FILLING AREA (SQ.M) = 5.702

CH. (KM):- 17+600
DESIGNED BED LEVEL = 113.776 M

LEGEND



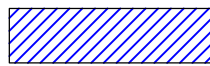
CUT AREA



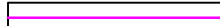
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

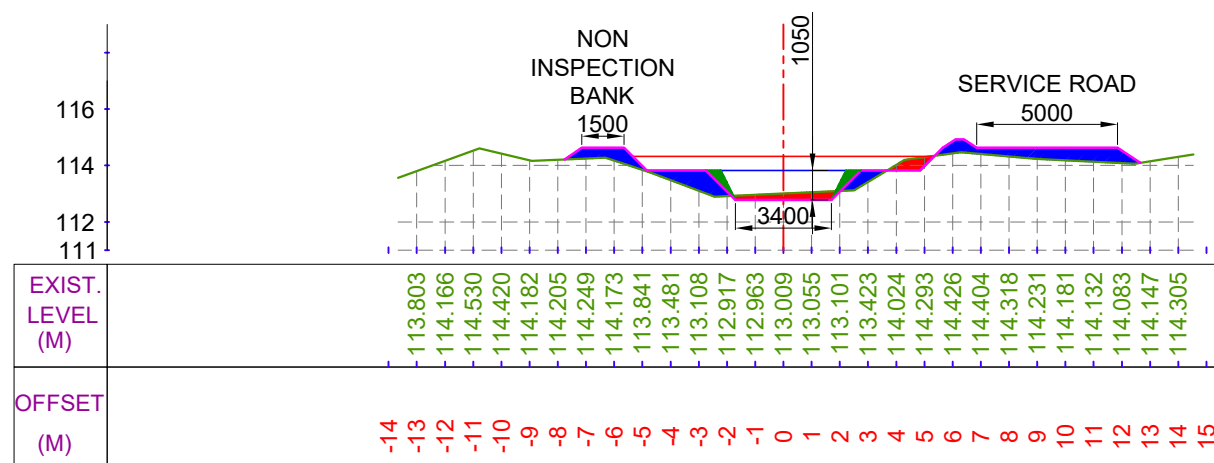
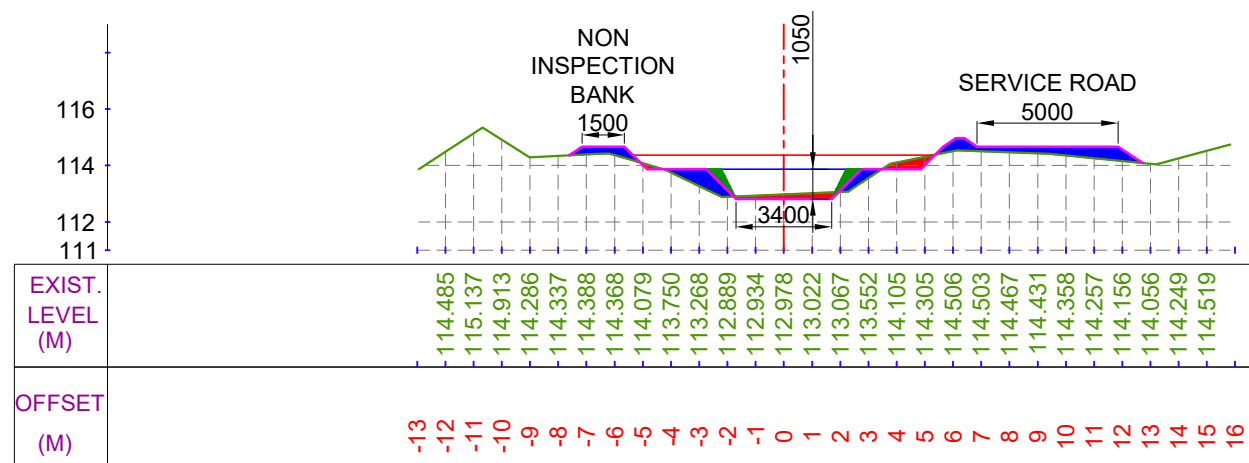
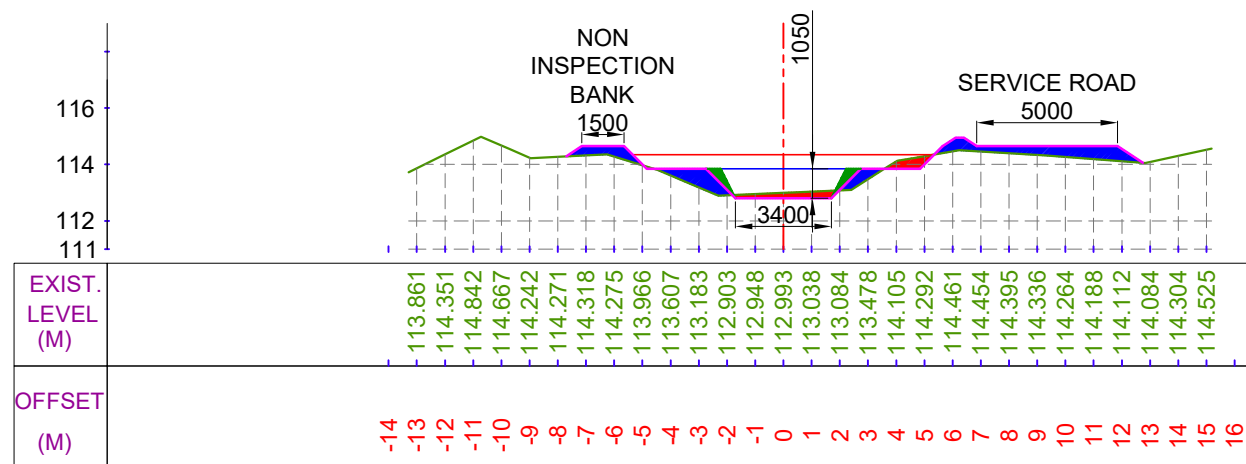
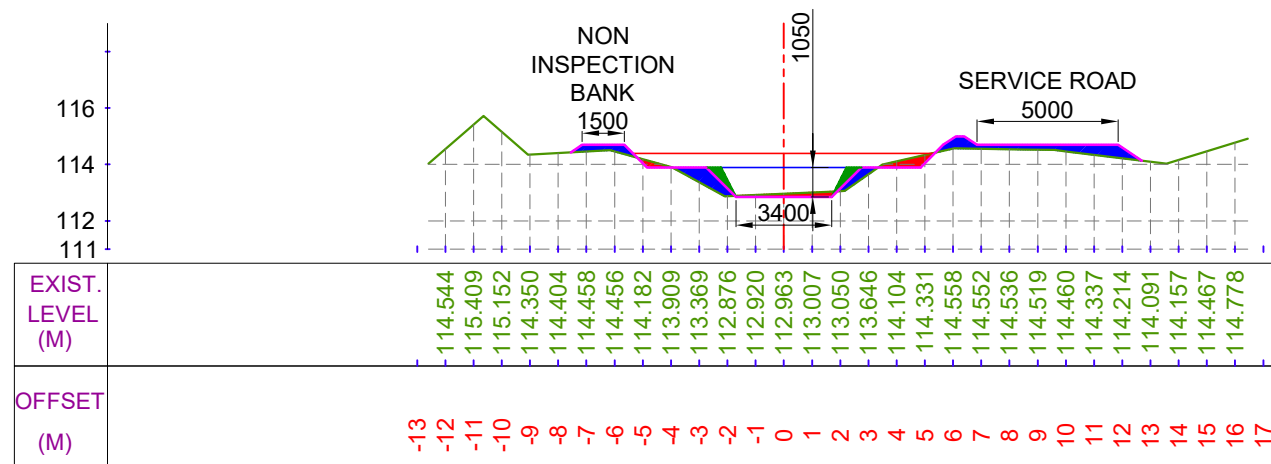
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

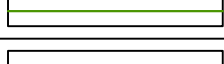
44 of 77



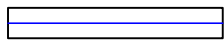
LEGEND



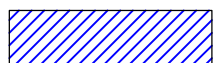
CUT AREA



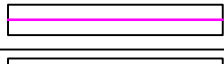
EXISTING BED LINE



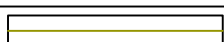
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

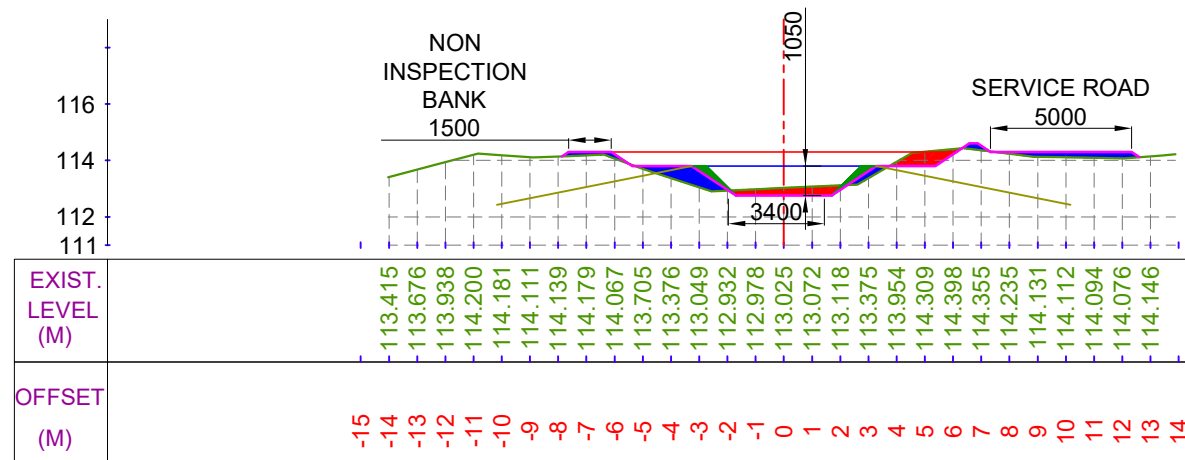
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

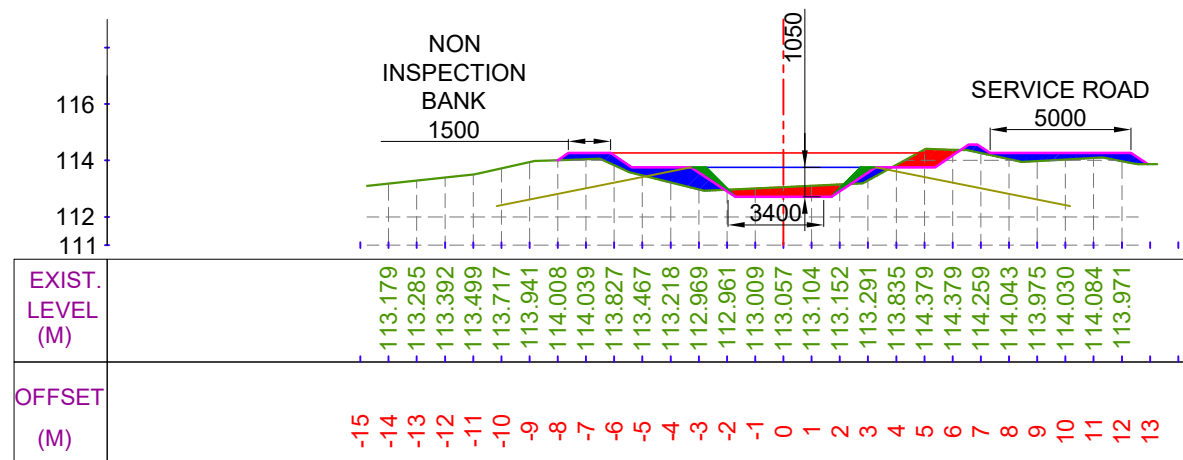
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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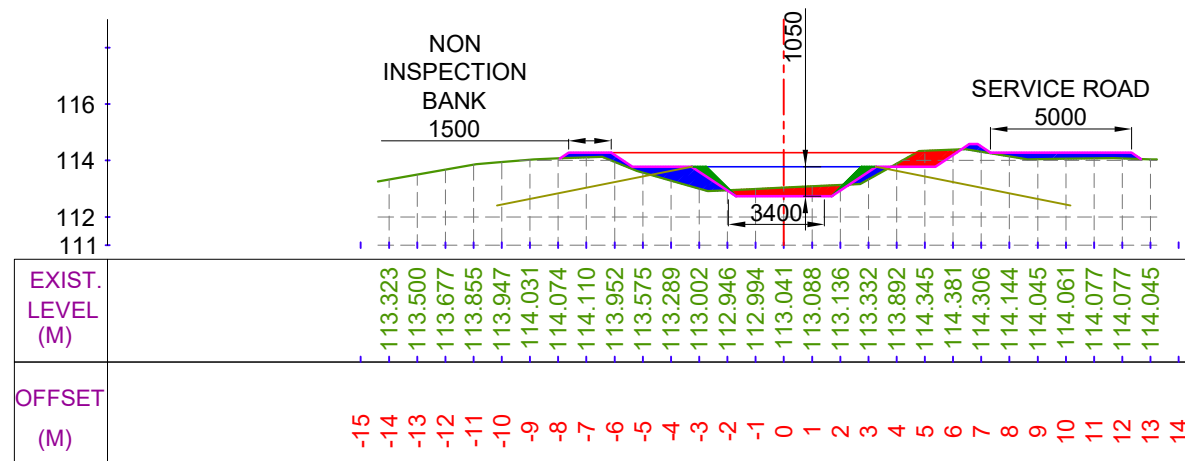
CUTTING AREA (SQ.M) = 1.861
FILLING AREA (SQ.M) = 2.711

CH. (KM):- 18+100
DESIGNED BED LEVEL = 112.754 M



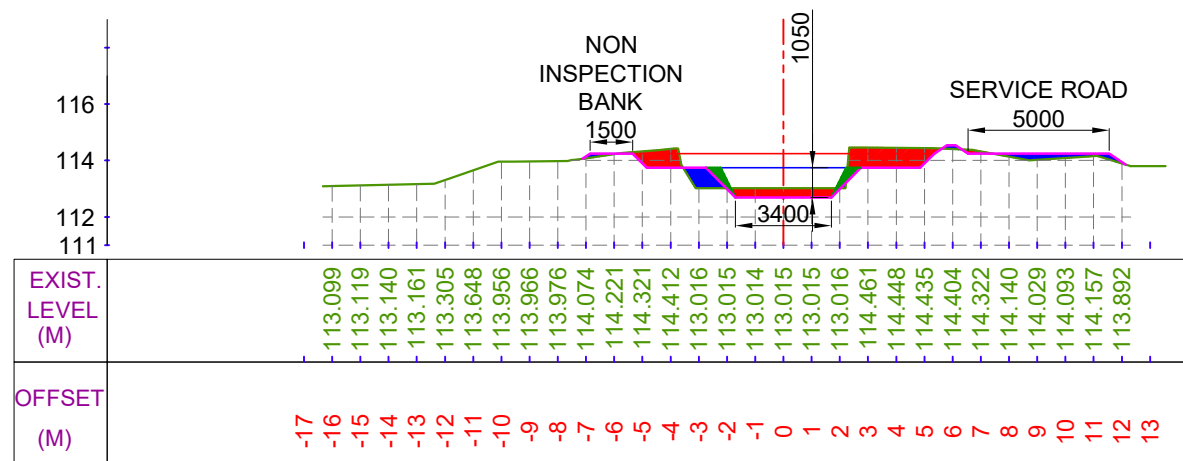
CUTTING AREA (SQ.M) = 2.192
FILLING AREA (SQ.M) = 3.808

CH. (KM):- 18+300
DESIGNED BED LEVEL = 112.710 M



CUTTING AREA (SQ.M) = 2.022
FILLING AREA (SQ.M) = 3.228

CH. (KM):- 18+200
DESIGNED BED LEVEL = 112.732 M



CUTTING AREA (SQ.M) = 4.260
FILLING AREA (SQ.M) = 1.480

CH. (KM):- 18+400
DESIGNED BED LEVEL = 112.689 M

LEGEND



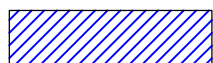
CUT AREA



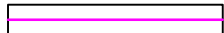
EXISTING BED LINE



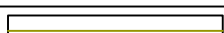
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

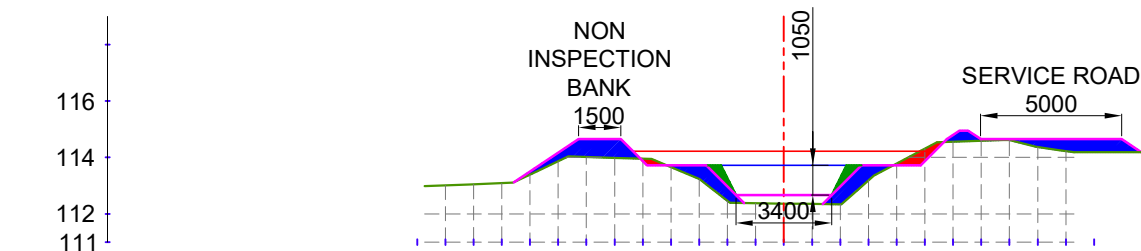
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

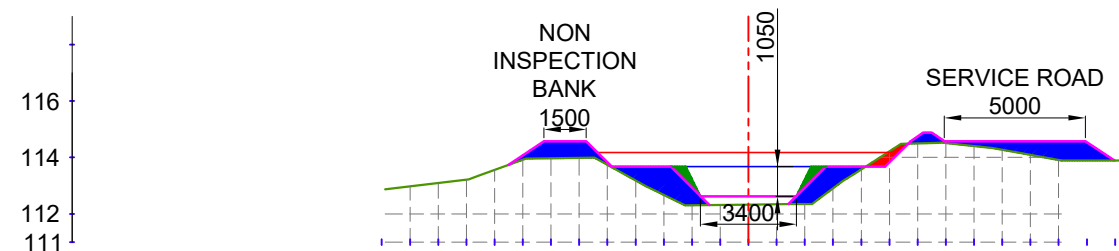
46 of 77



EXIST. LEVEL (M)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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CUTTING AREA (SQ.M) = 0.624
FILLING AREA (SQ.M) = 5.813

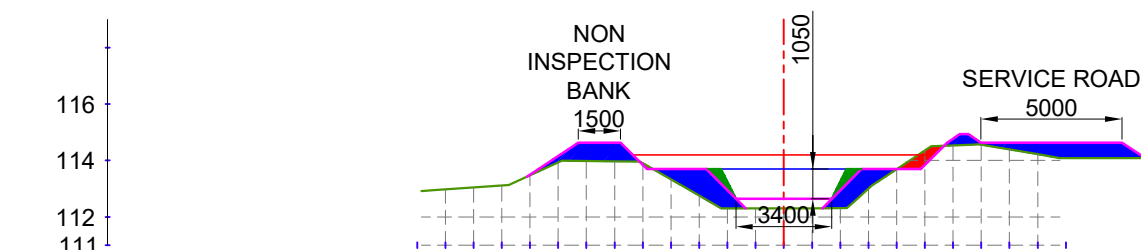
CH. (KM):- 18+500
DESIGNED BED LEVEL = 112.667 M



EXIST. LEVEL (M)	112.976	113.095	113.215	113.557	113.918	113.971	113.981	113.737	113.186	112.672	112.306	112.317	112.327	112.337	112.348	112.903	113.578	114.215	114.495	114.510	114.405	114.272	114.089	113.905		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12

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FILLING AREA (SQ.M) = 7.590

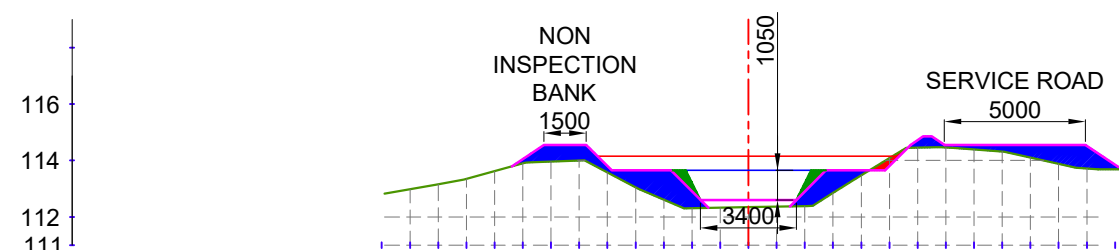
CH. (KM):- 18+700
DESIGNED BED LEVEL = 112.623 M



EXIST. LEVEL (M)	112.974	113.042	113.111	113.472	113.932	113.983	113.973	113.909	113.332	112.755	112.301	112.303	112.306	112.308	112.310	113.001	113.693	114.356	114.538	114.560	114.395	114.223		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10

CUTTING AREA (SQ.M) = 0.557
FILLING AREA (SQ.M) = 7.542

CH. (KM):- 18+600
DESIGNED BED LEVEL = 112.645 M



EXIST. LEVEL (M)	112.985	113.161	113.345	113.623	113.901	113.965	114.002	113.581	113.052	112.613	112.312	112.330	112.349	112.367	112.385	112.847	113.474	114.085	114.454	114.461	114.391	114.321	114.107	113.883	113.719		
OFFSET (M)	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13

CUTTING AREA (SQ.M) = 0.243
FILLING AREA (SQ.M) = 8.049

CH. (KM):- 18+800
DESIGNED BED LEVEL = 112.602 M

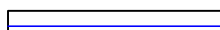
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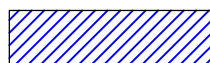
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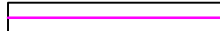
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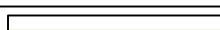
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

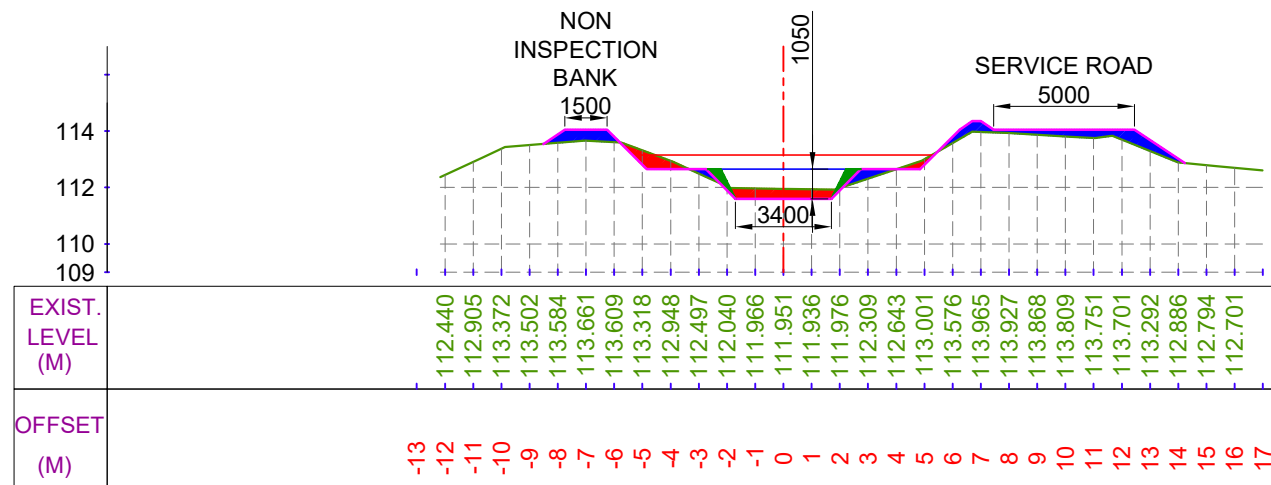
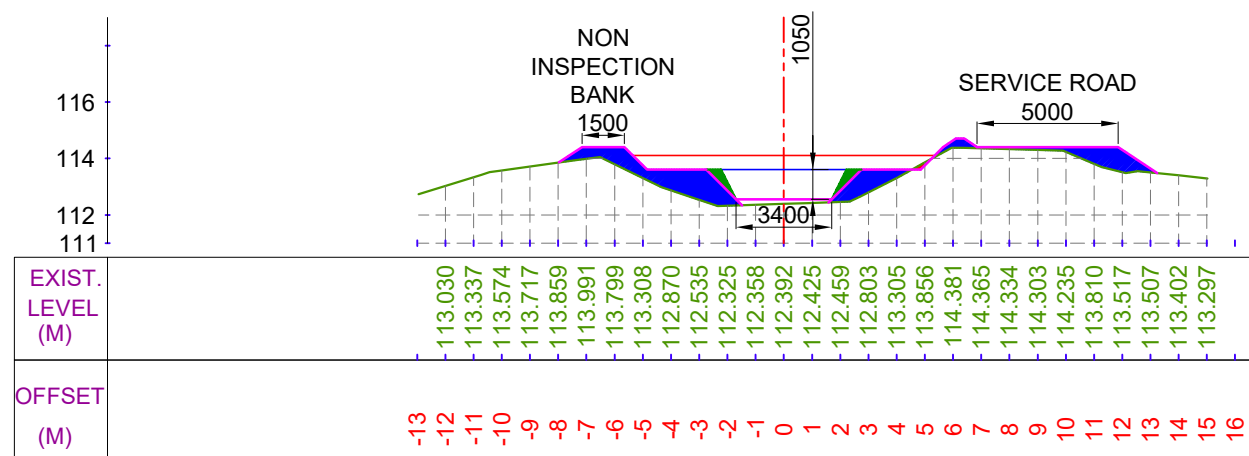
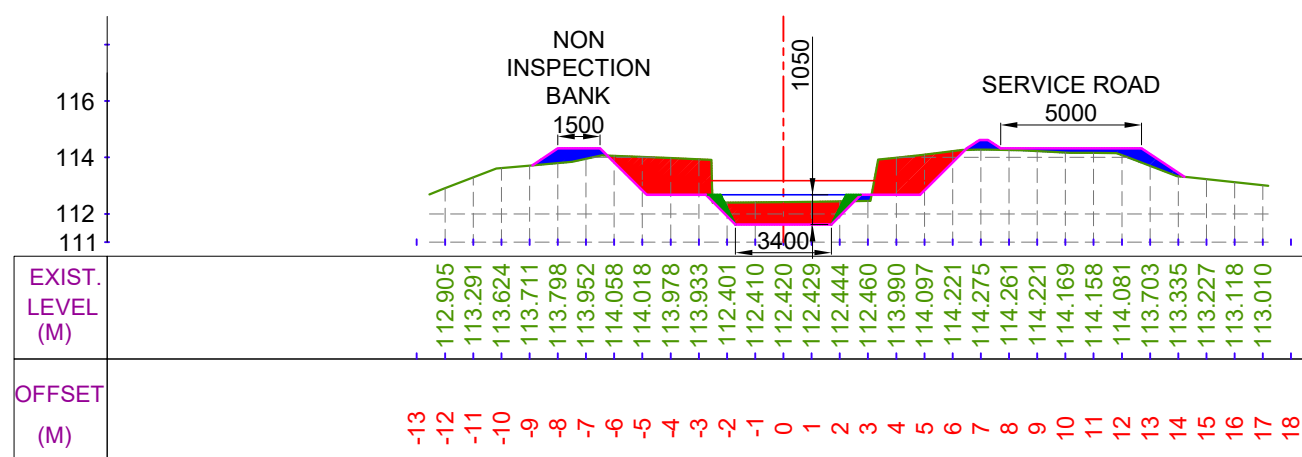
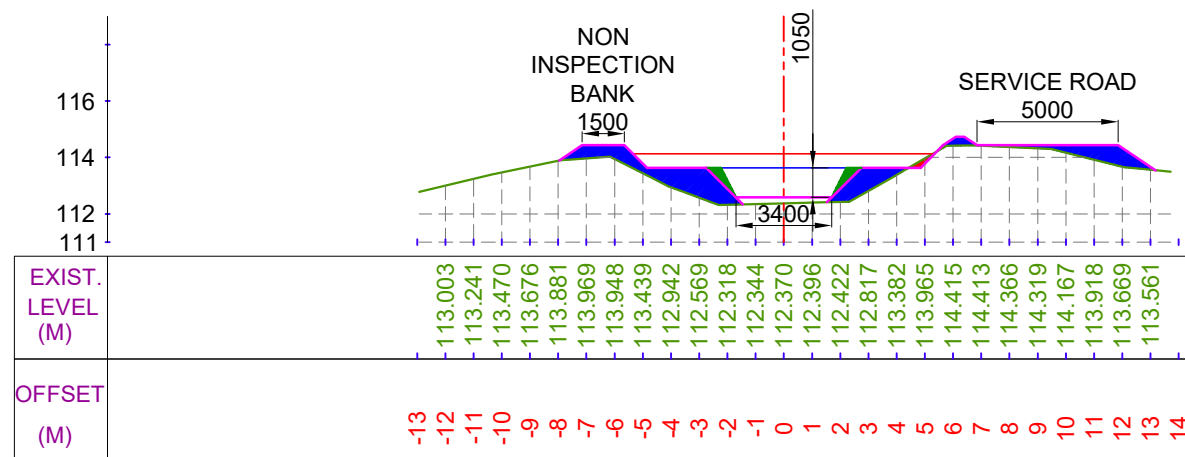
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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LEGEND



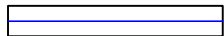
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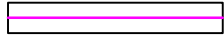
FILL AREA



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

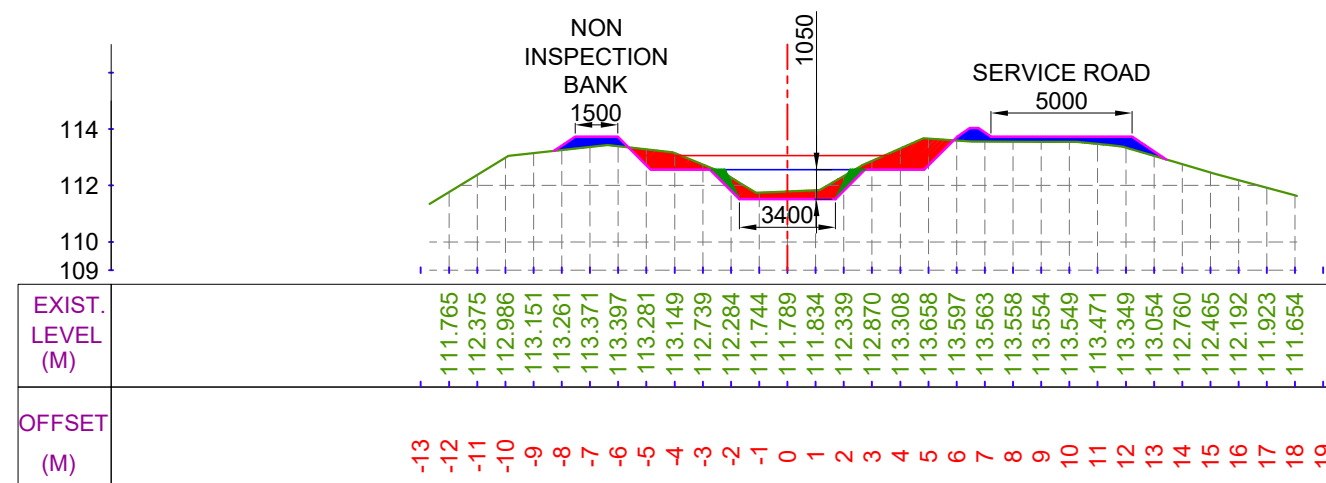
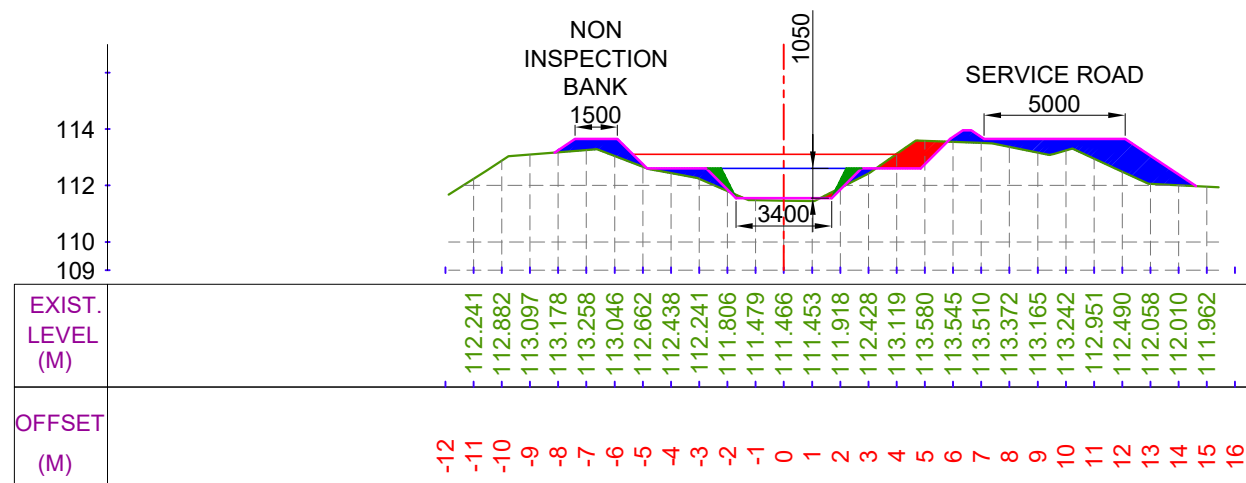
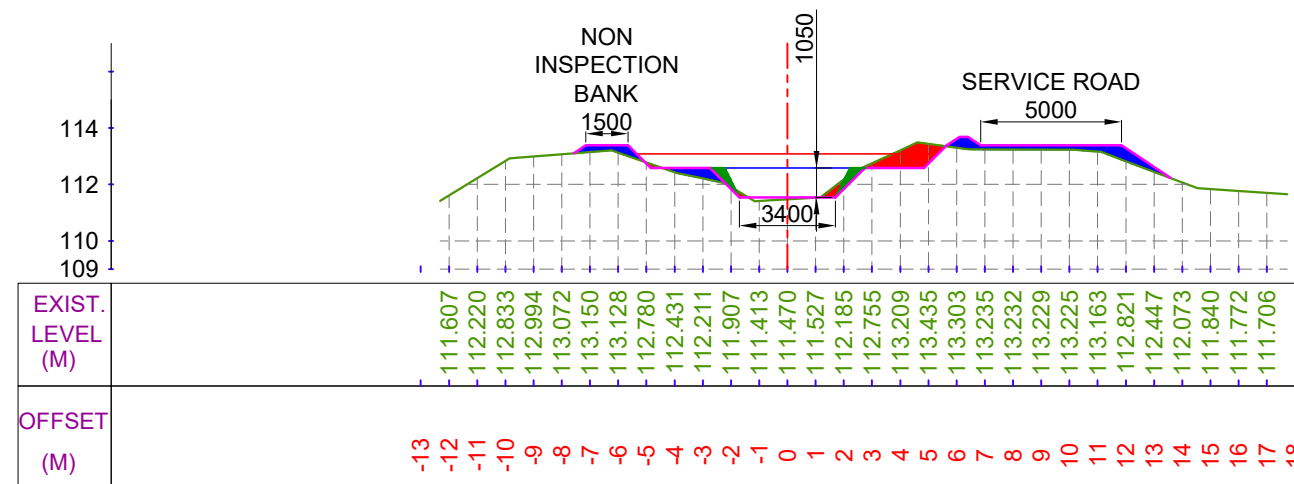
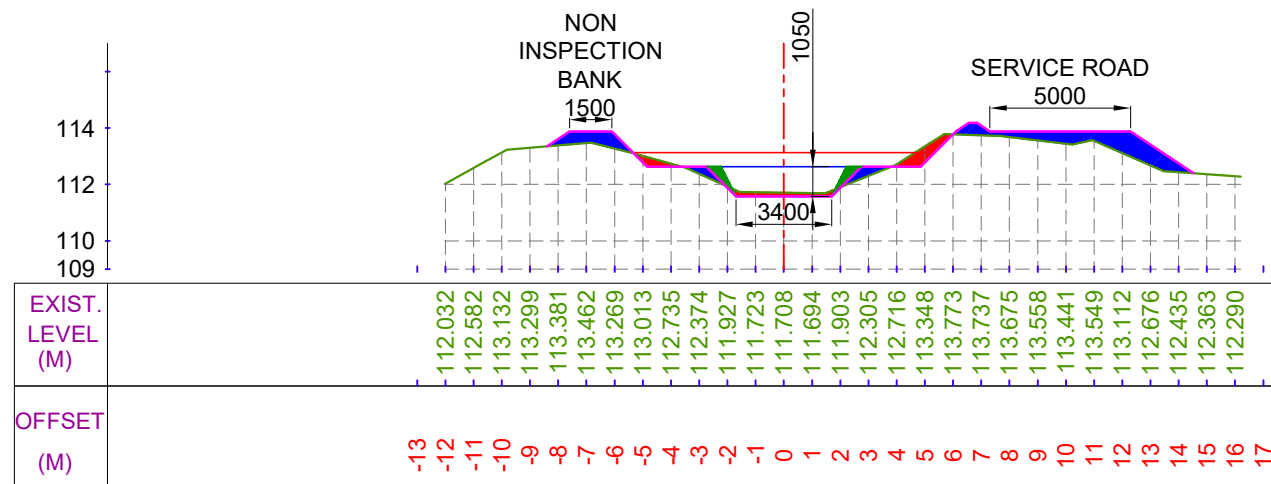
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

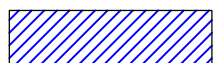
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LEGEND



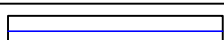
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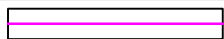
FILL AREA



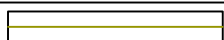
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

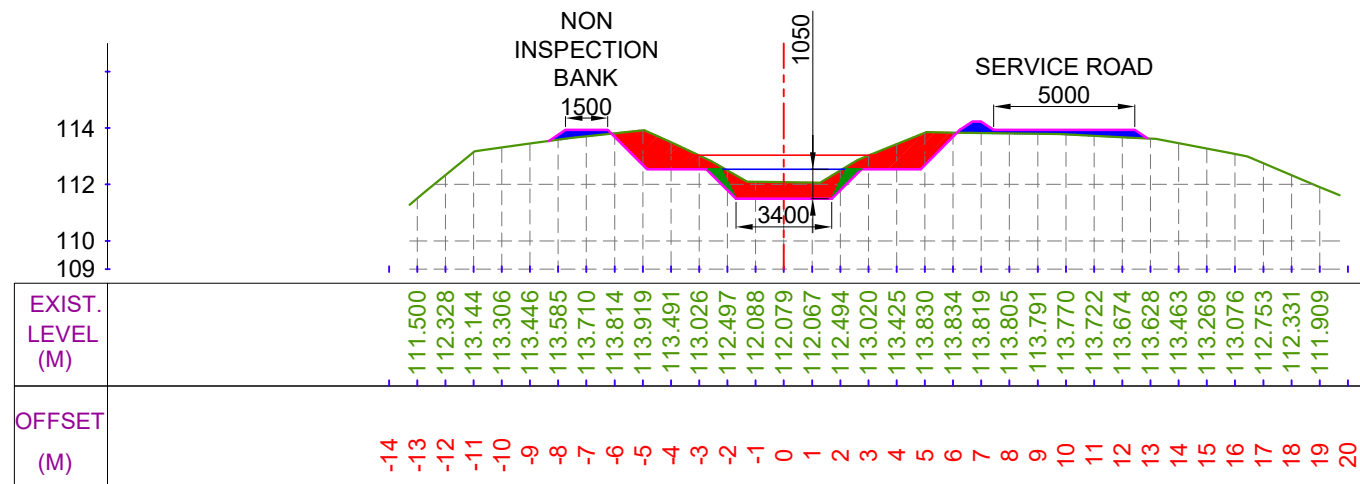
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

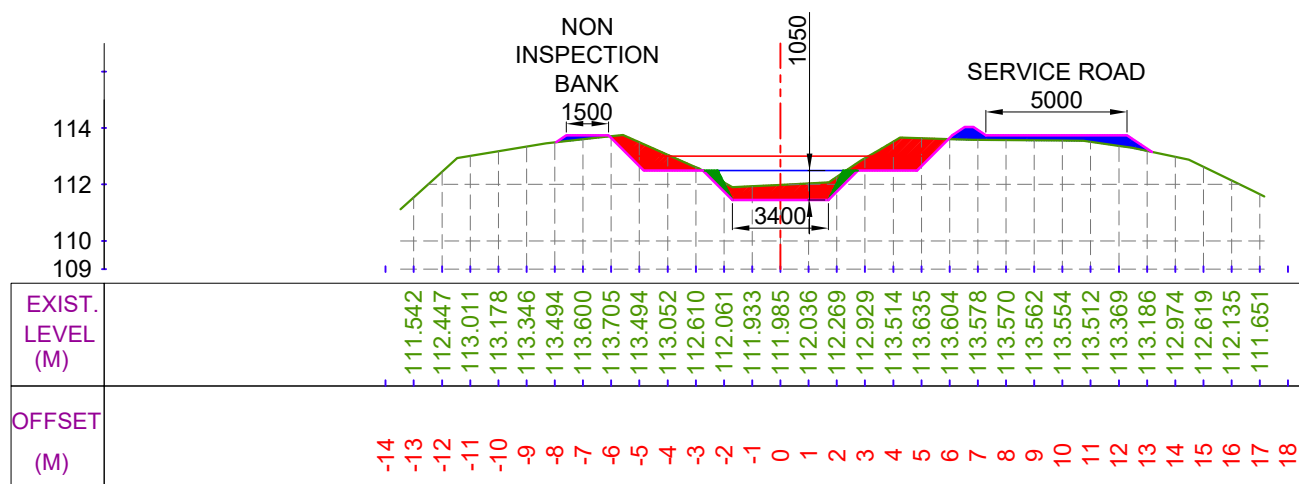
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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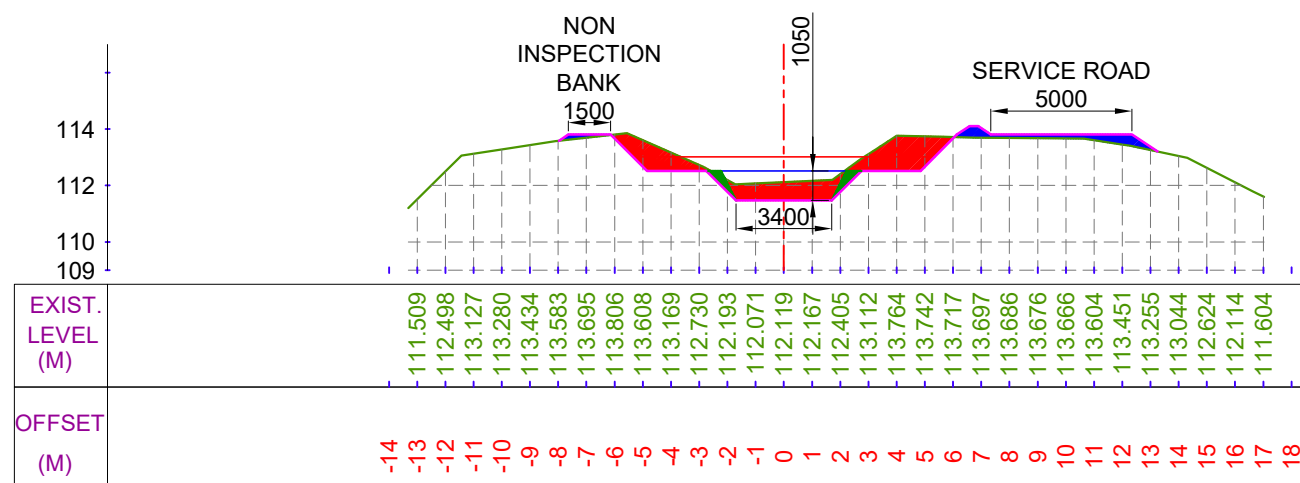
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FILLING AREA (SQ.M) = 1.740

CH. (KM):- 19+700
DESIGNED BED LEVEL = 111.491 M



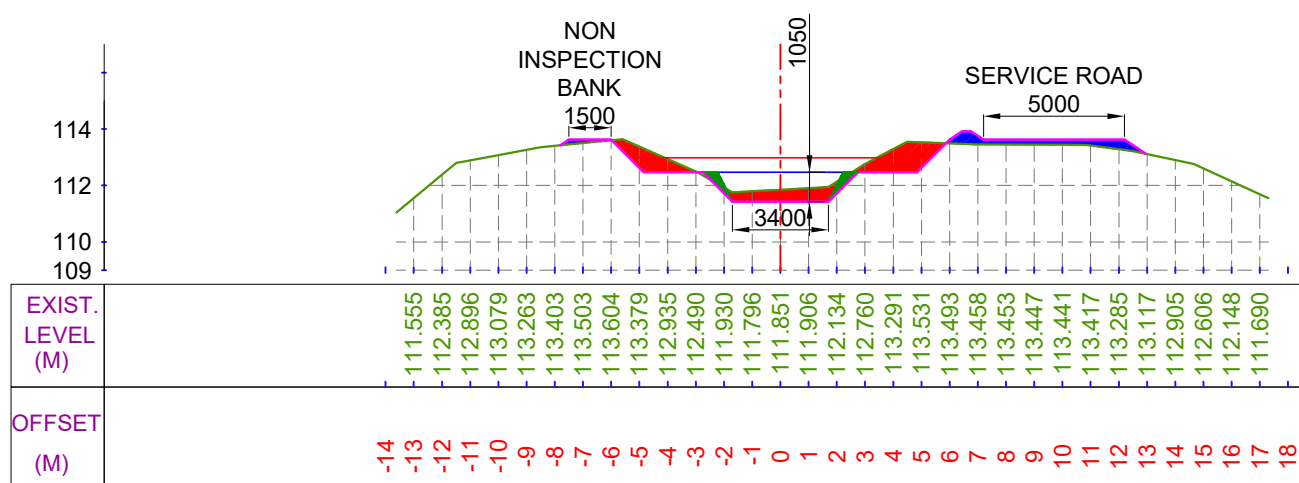
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CH. (KM):- 19+900
DESIGNED BED LEVEL = 111.447 M



CUTTING AREA (SQ.M) = 7.426
FILLING AREA (SQ.M) = 1.646

CH. (KM):- 19+800
DESIGNED BED LEVEL = 111.469 M



CUTTING AREA (SQ.M) = 4.924
FILLING AREA (SQ.M) = 1.752

CH. (KM):- 20+000
DESIGNED BED LEVEL = 111.426 M

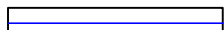
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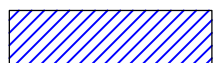
CUT AREA



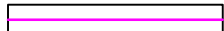
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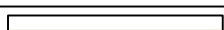
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

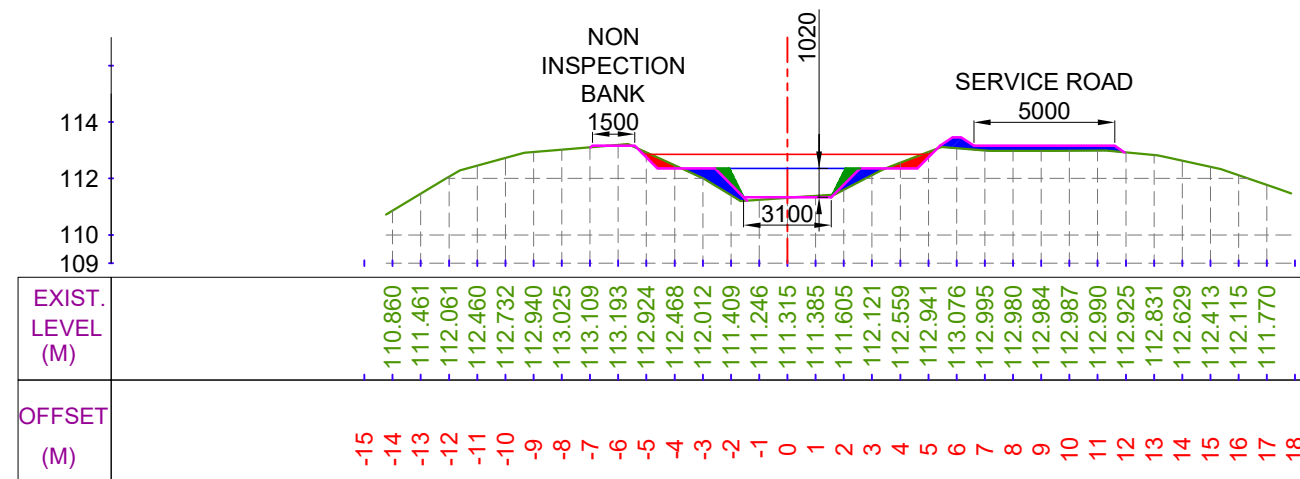
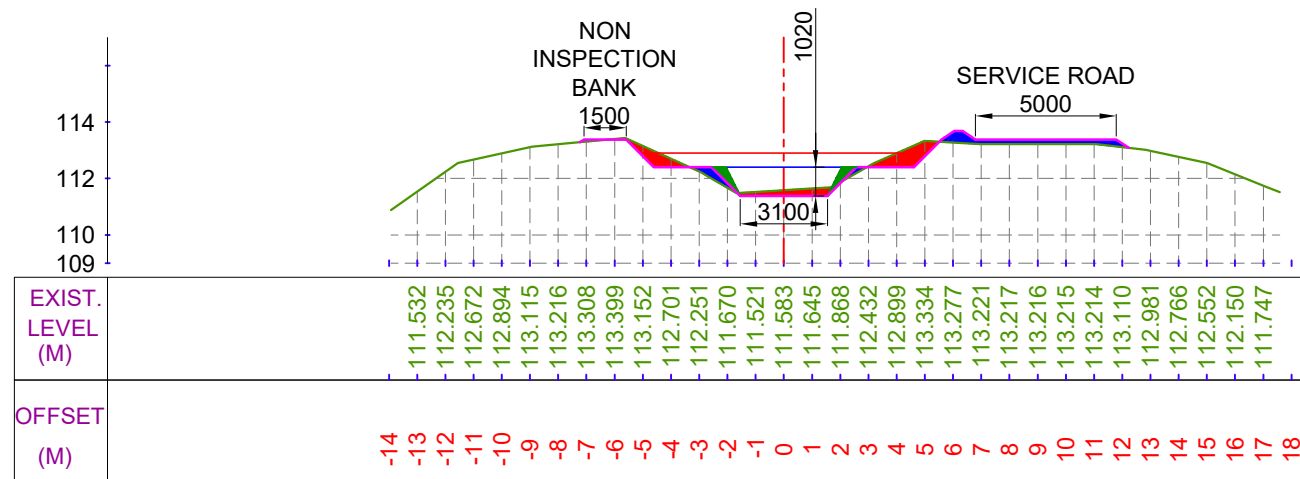
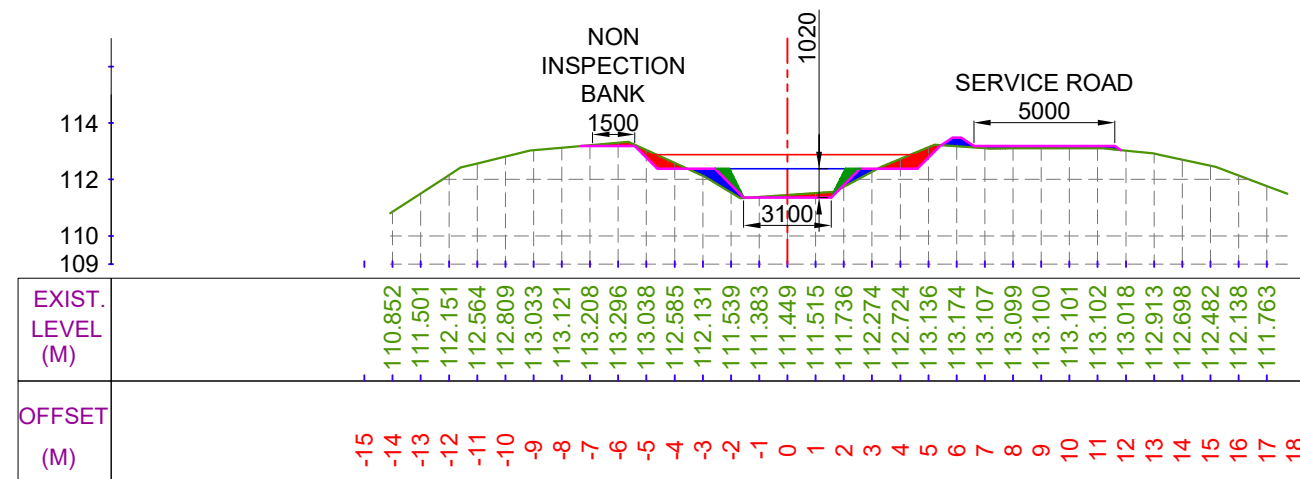
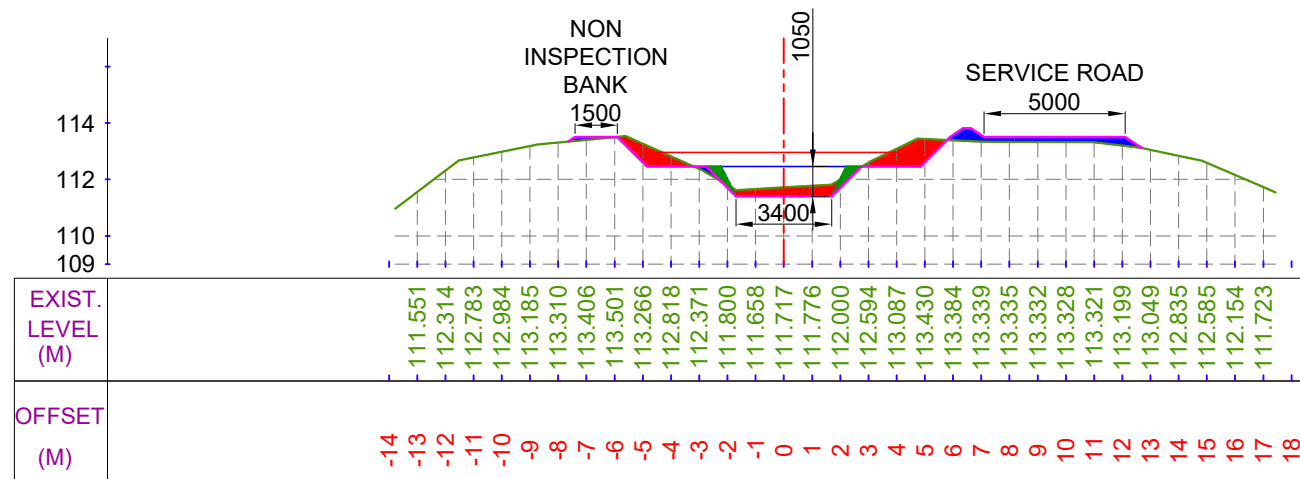
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

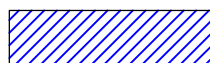
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LEGEND



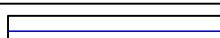
CUT AREA



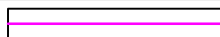
FILL AREA



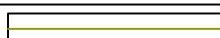
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

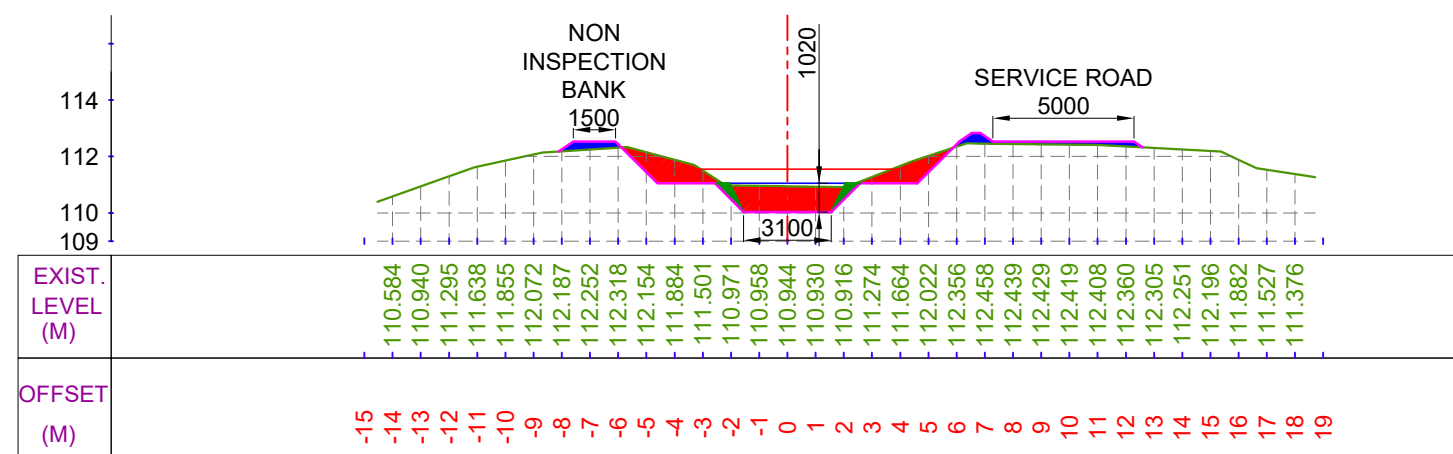
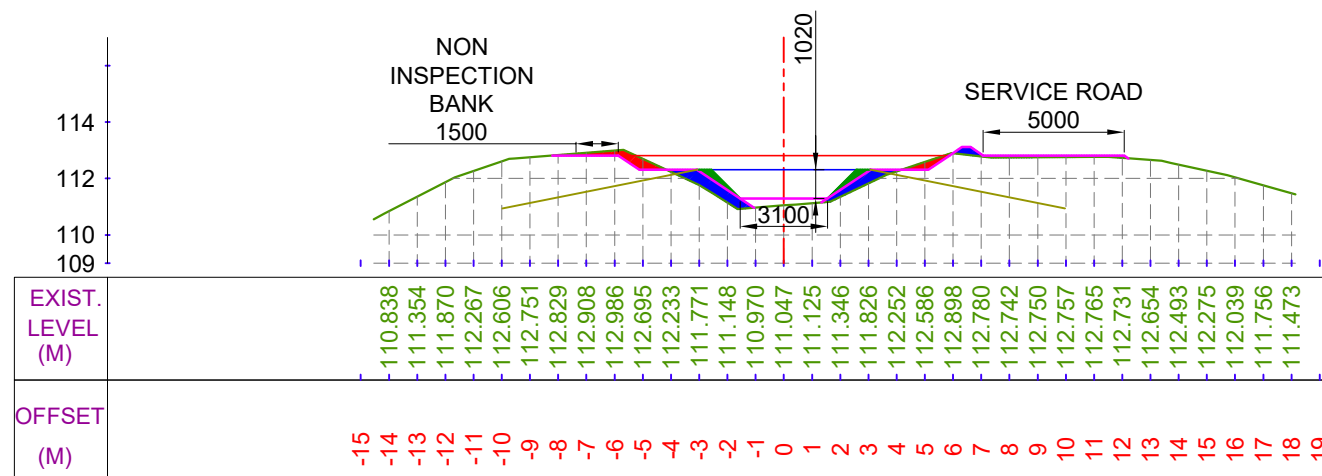
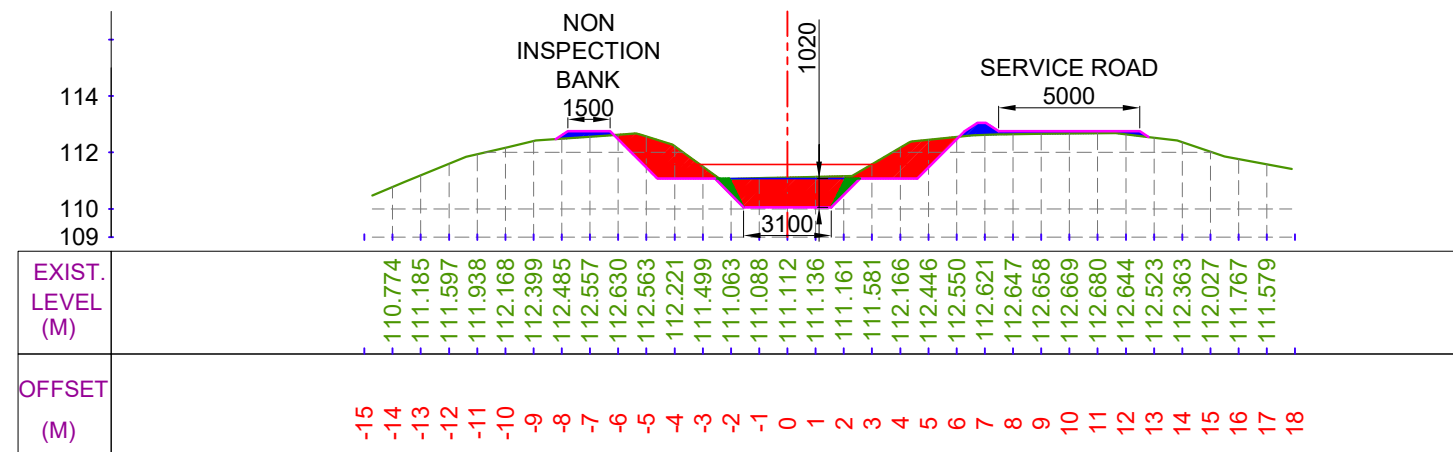
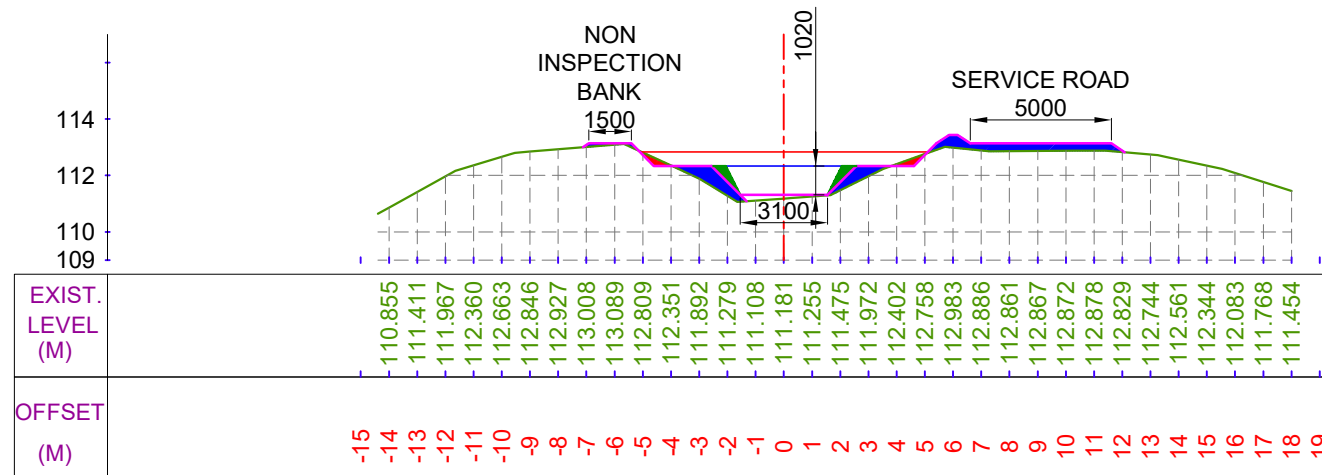
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

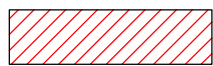
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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LEGEND



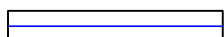
CUT AREA



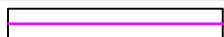
FILL AREA



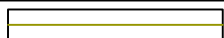
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

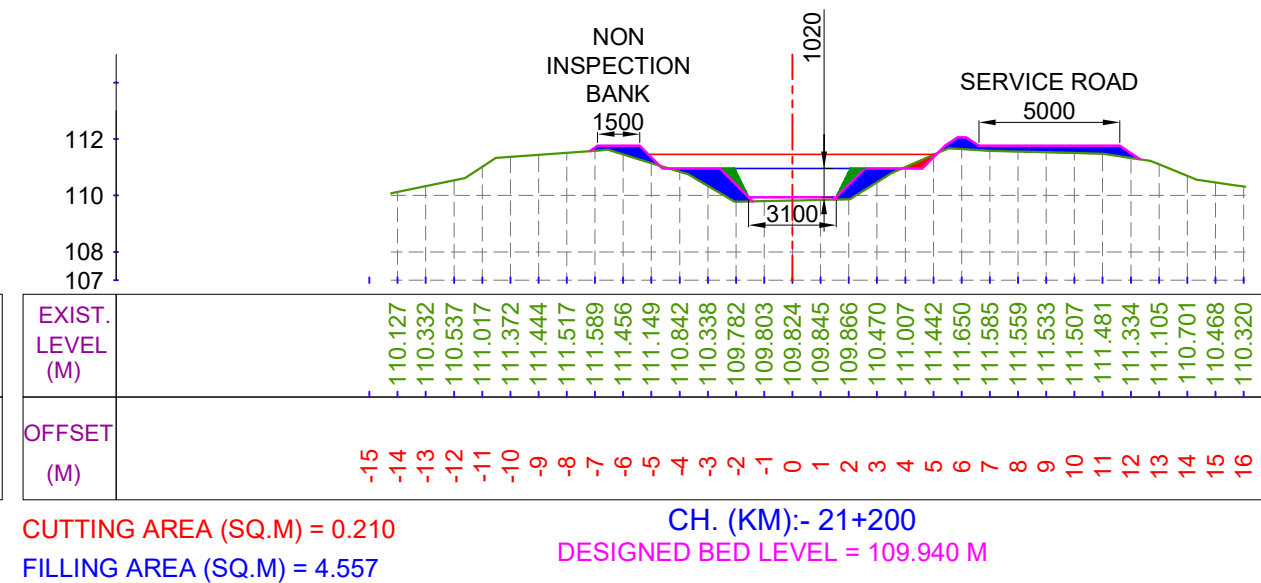
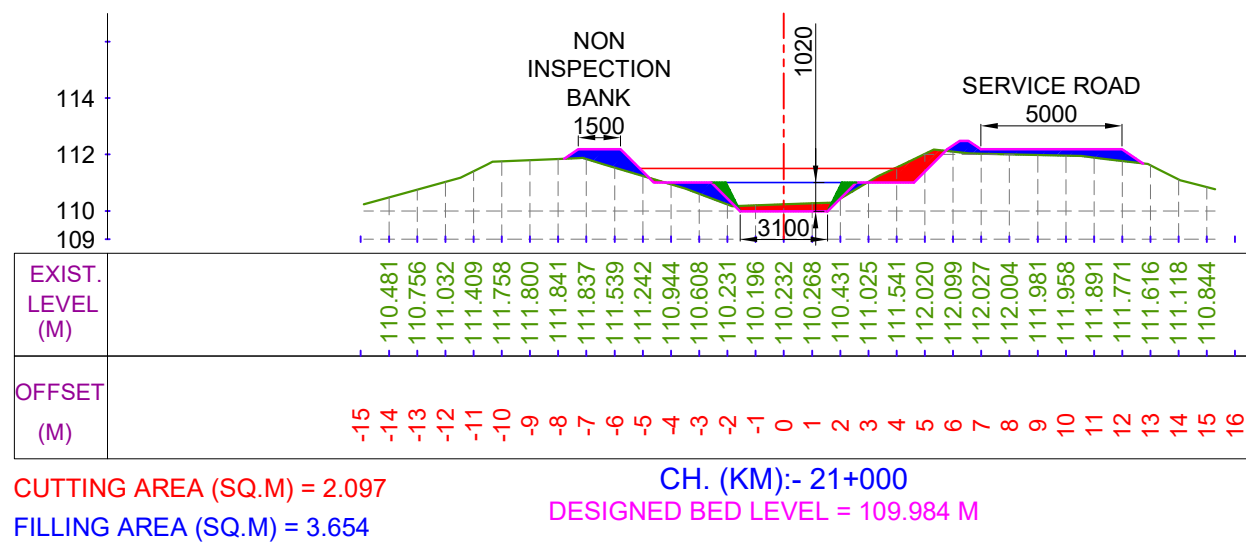
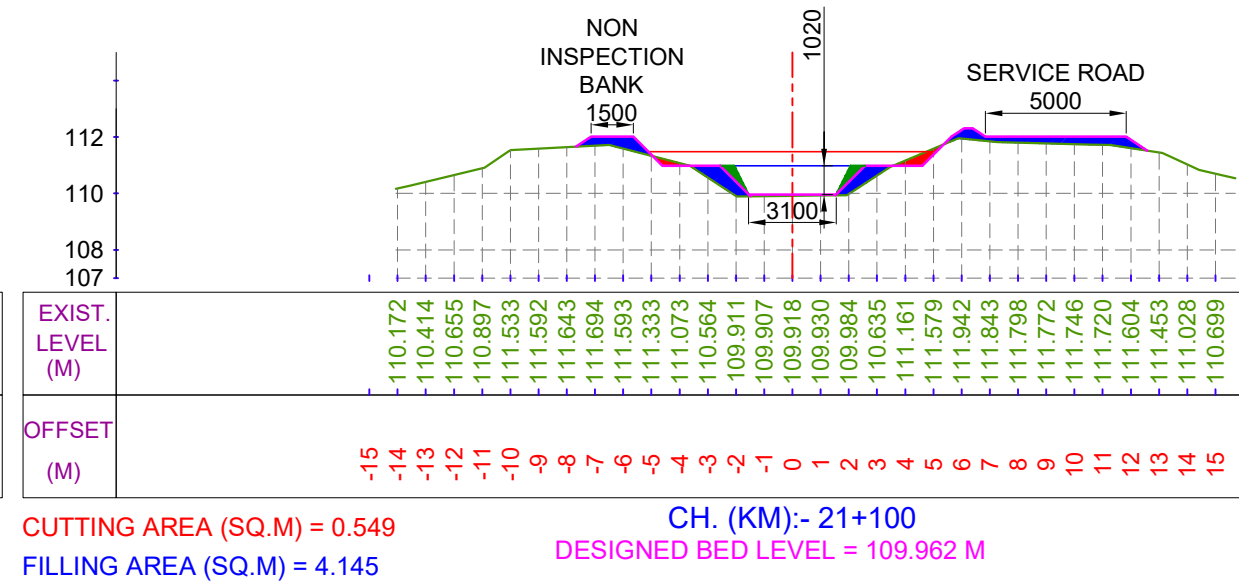
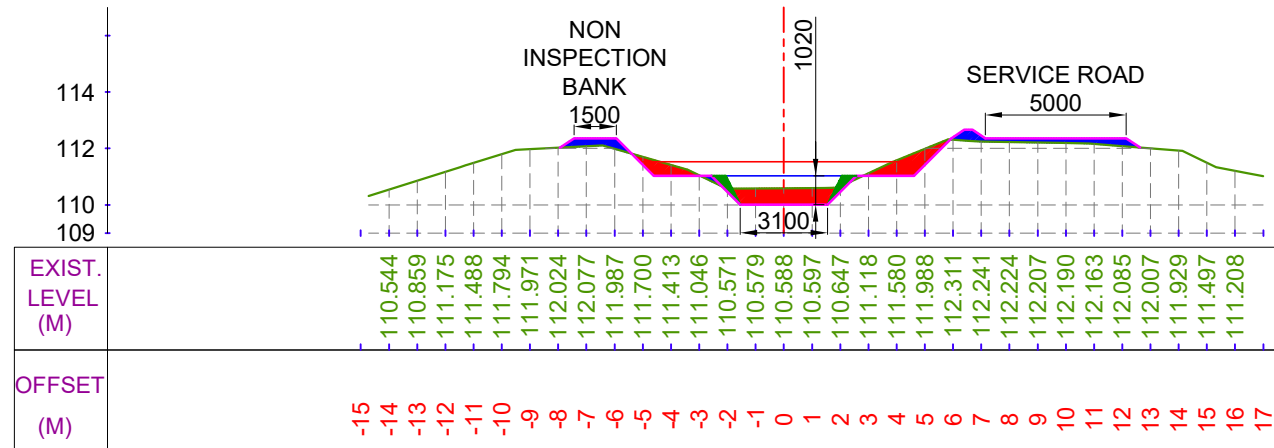
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

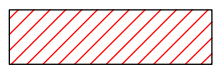
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

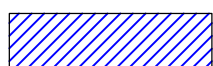
52 of 77



LEGEND



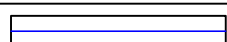
CUT AREA



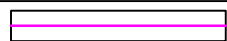
FILL AREA



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

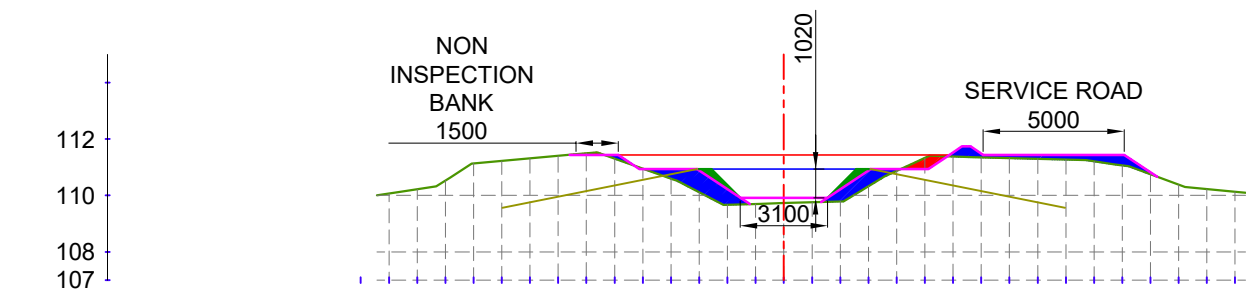
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

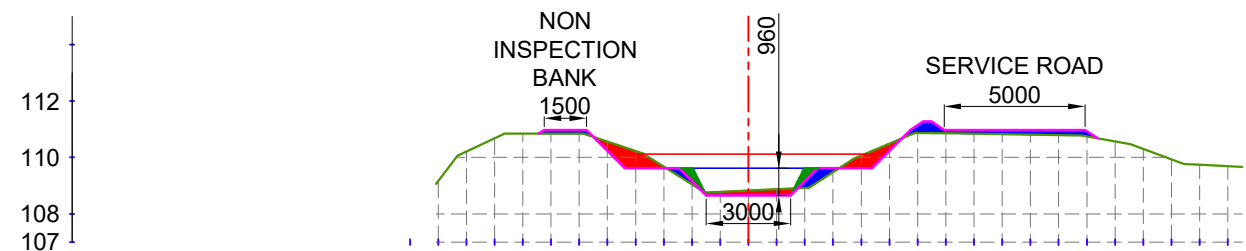
53 of 77



EXIST. LEVEL (M)	110.064	110.215	110.526	111.133	111.223	111.312	111.402	111.492	111.305	110.950	110.596	110.110	109.669	109.699	109.729	109.760	109.790	110.323	110.864	111.325	111.378	111.346	111.319	111.293	111.267	111.207	111.064	110.748	110.381	110.225	110.129	
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

CUTTING AREA (SQ.M) = 0.432
FILLING AREA (SQ.M) = 4.173

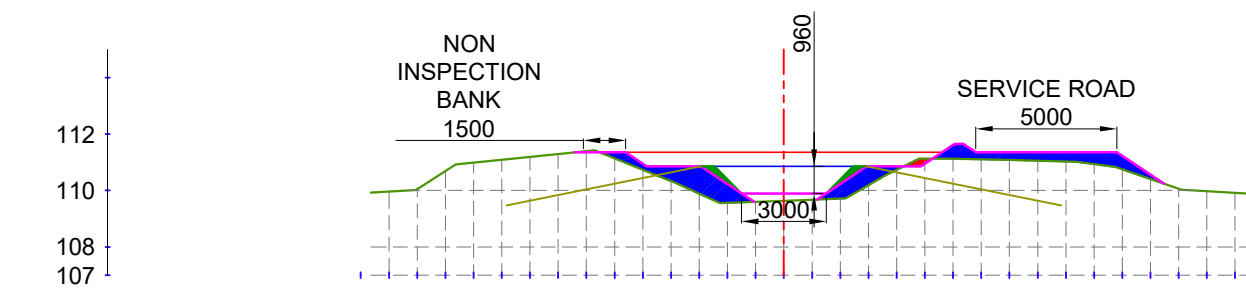
CH. (KM):- 21+300
DESIGNED BED LEVEL = 109.918 M



EXIST. LEVEL (M)	109.156	110.212	110.679	110.839	110.841	110.842	110.559	110.224	109.673	109.046	108.781	108.828	108.875	108.923	109.479	110.070	110.489	110.865	110.854	110.843	110.827	110.811	110.795	110.752	110.570	110.303	109.936	109.742	109.691	
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 2.305
FILLING AREA (SQ.M) = 1.990

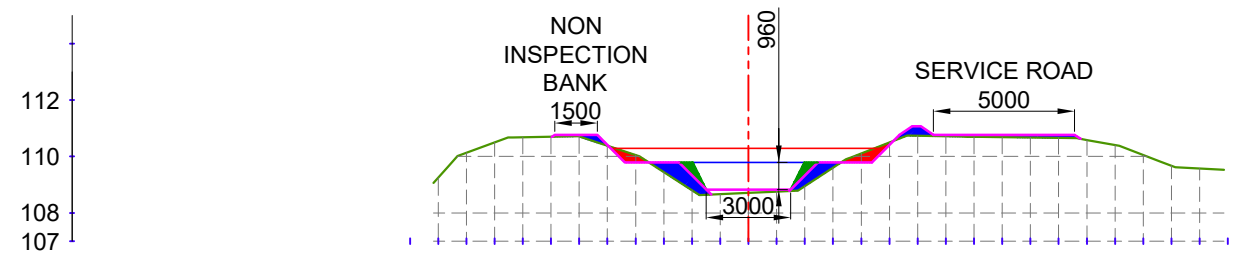
CH. (KM):- 21+500
DESIGNED BED LEVEL = 108.653 M



EXIST. LEVEL (M)	109.959	110.048	110.686	110.986	111.089	111.192	111.295	111.399	111.142	110.739	110.336	109.889	109.559	109.597	109.636	109.674	109.712	110.185	110.733	111.131	111.124	111.106	111.080	111.053	111.026	110.934	110.748	110.407	110.066	109.976	109.915	
OFFSET (M)	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

CUTTING AREA (SQ.M) = 0.183
FILLING AREA (SQ.M) = 6.550

CH. (KM):- 21+400
DESIGNED BED LEVEL = 109.896 M



EXIST. LEVEL (M)	109.244	110.129	110.500	110.685	110.701	110.707	110.378	110.048	109.447	108.800	108.666	108.712	108.758	108.950	109.600	110.108	110.494	110.732	110.716	110.700	110.687	110.674	110.661	110.586	110.404	110.053	109.671	109.572		
OFFSET (M)	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

CUTTING AREA (SQ.M) = 0.744
FILLING AREA (SQ.M) = 2.393

CH. (KM):- 21+600
DESIGNED BED LEVEL = 108.831 M

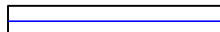
LEGEND



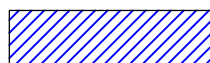
CUT AREA



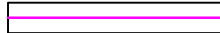
EXISTING BED LINE



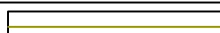
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

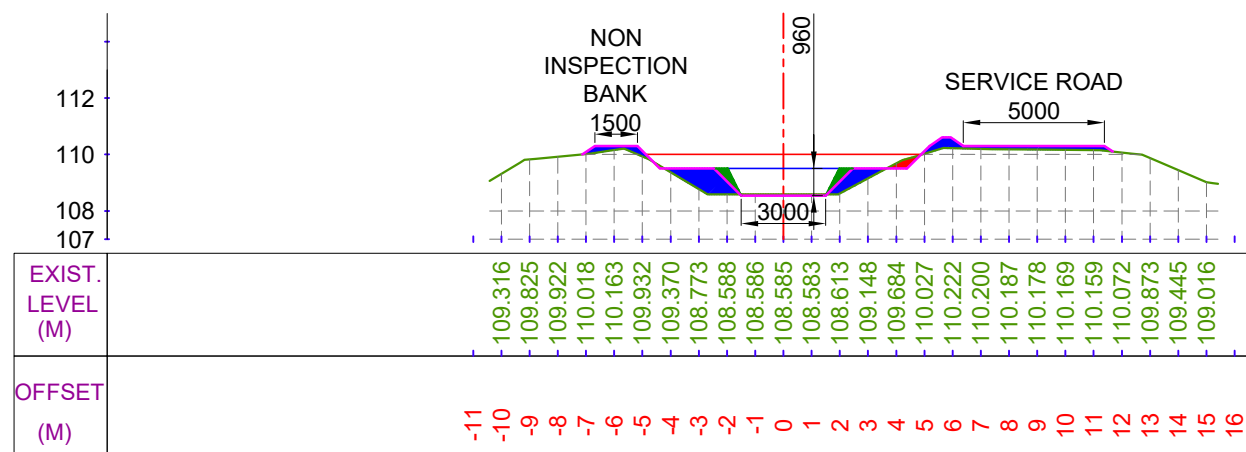
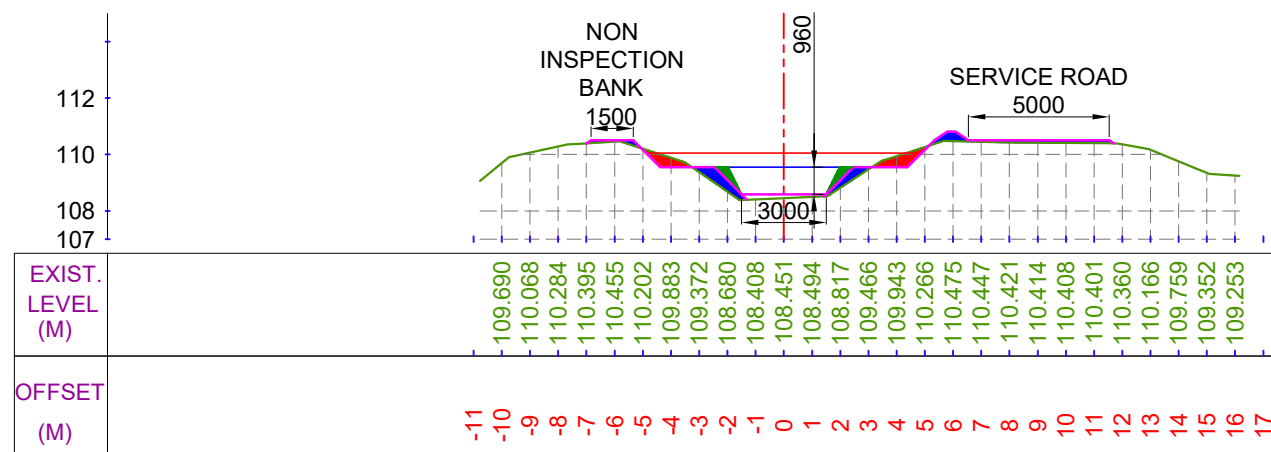
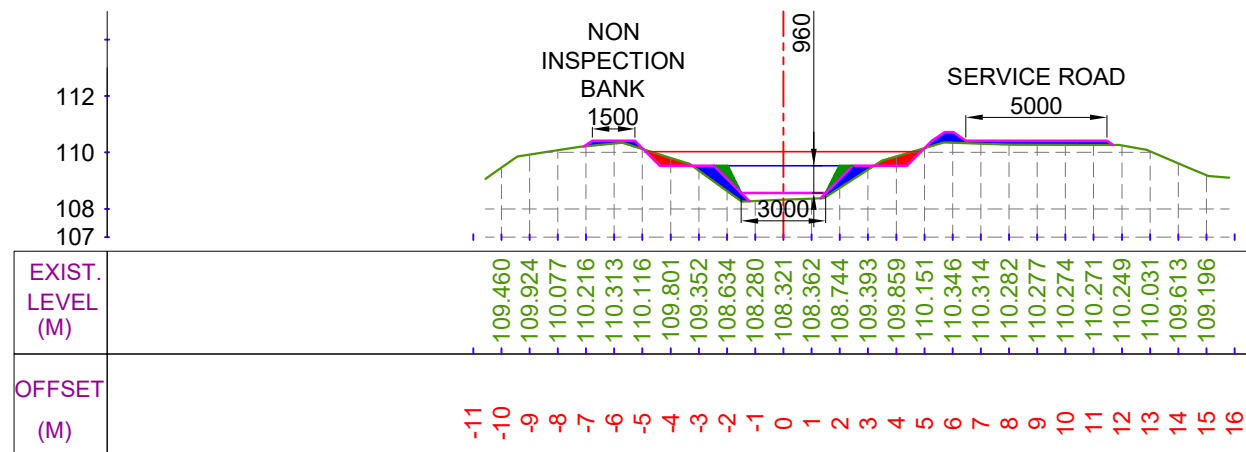
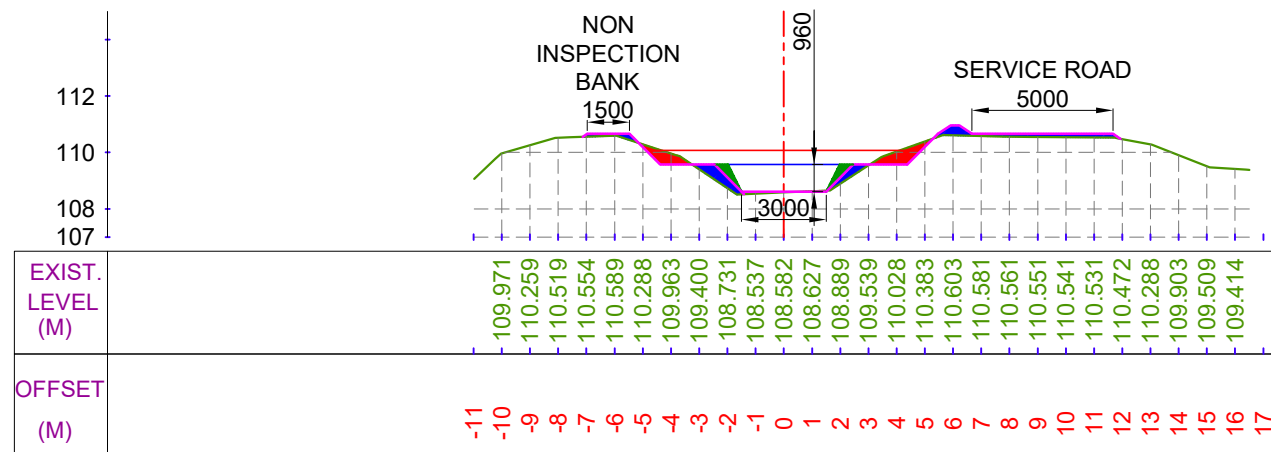
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

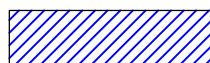
54 of 77



LEGEND



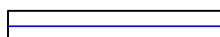
CUT AREA



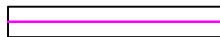
FILL AREA



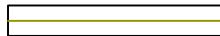
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

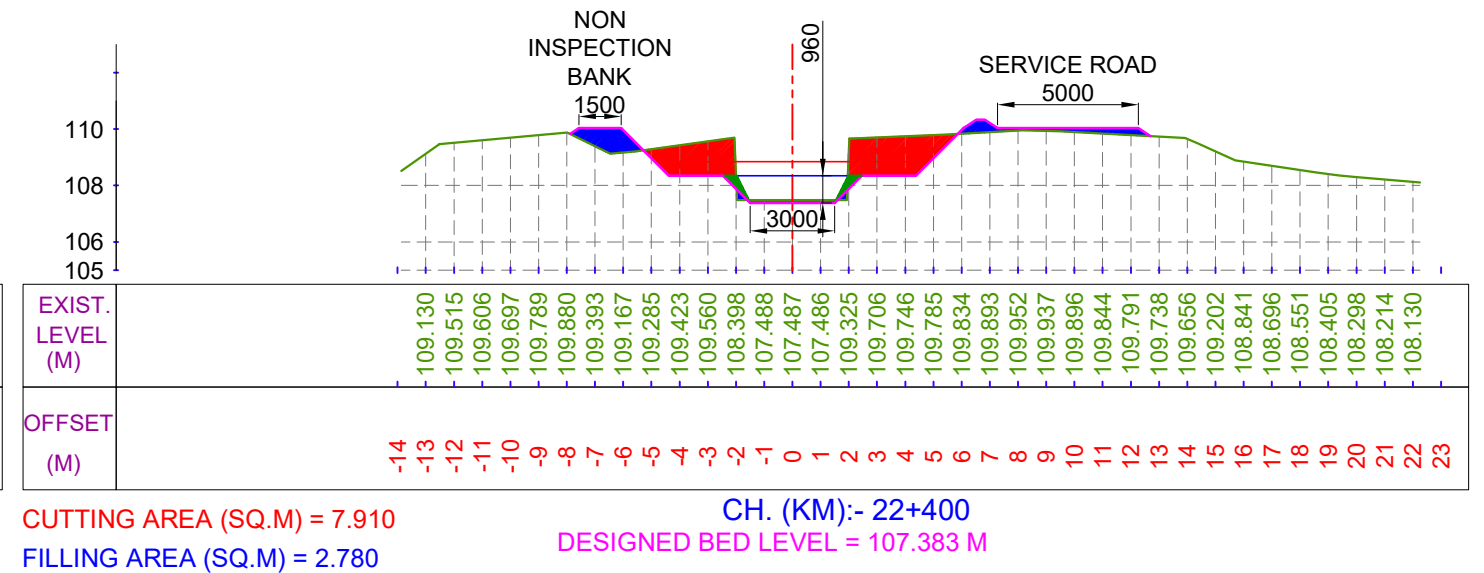
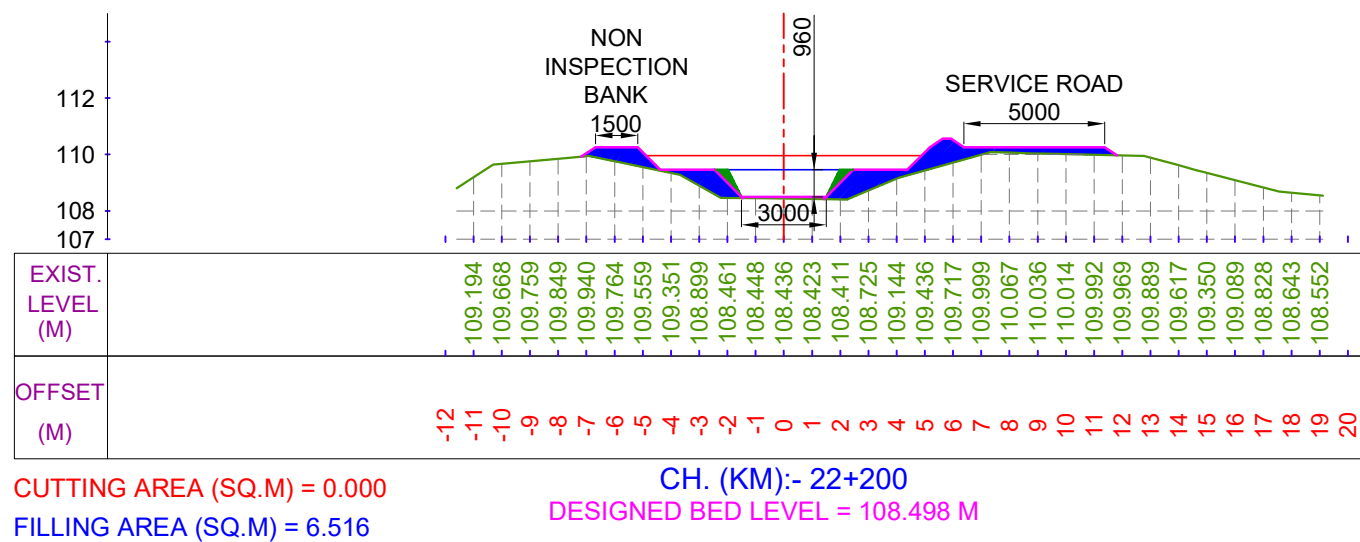
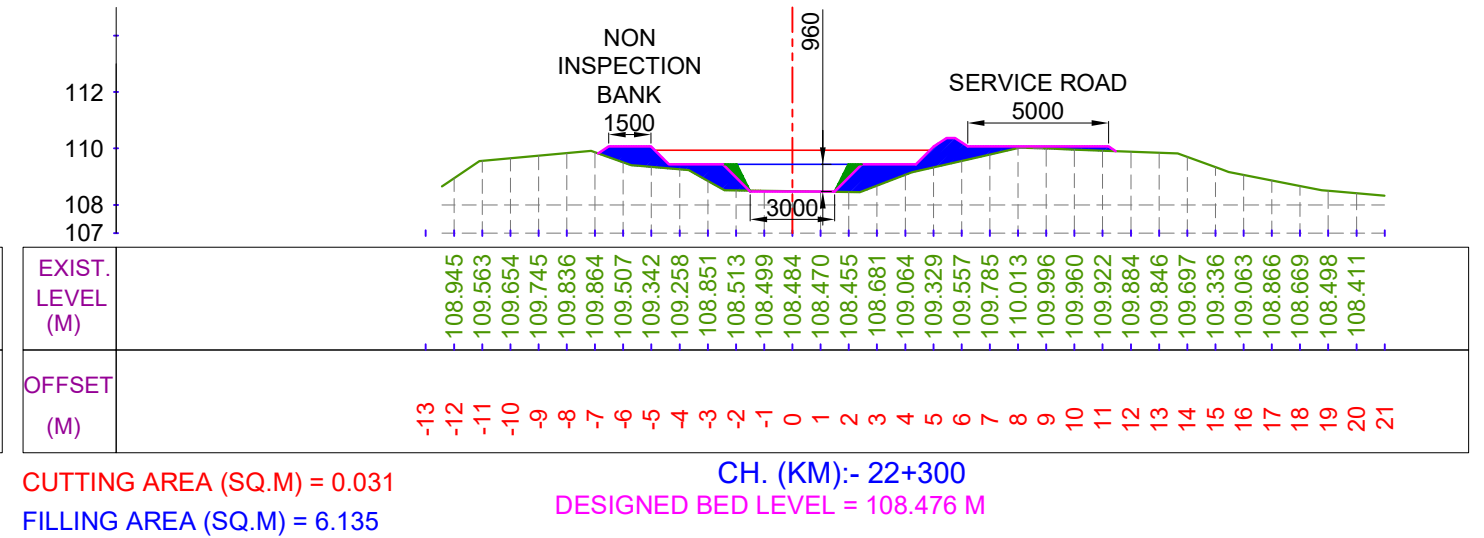
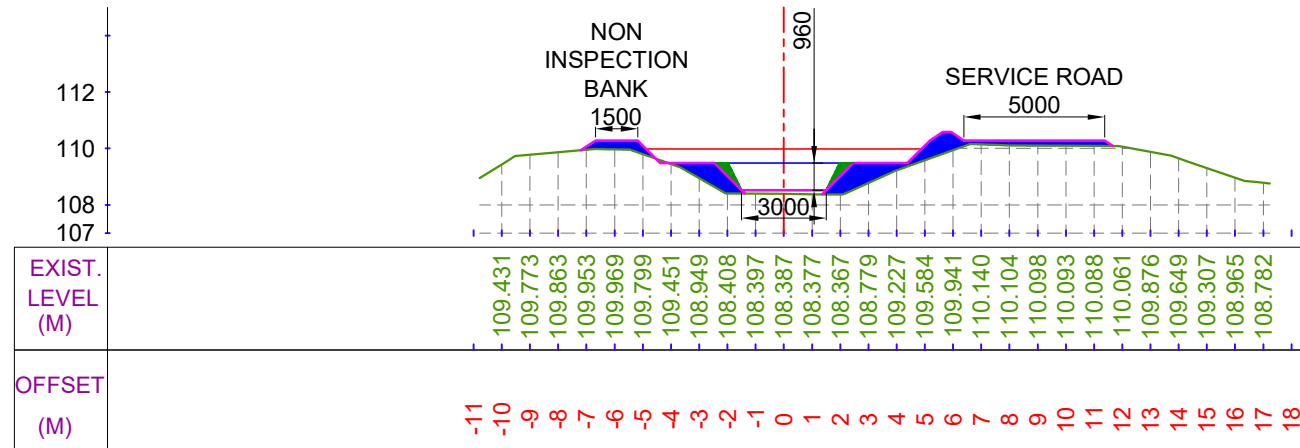
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

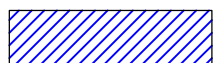
55 of 77



LEGEND



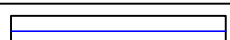
CUT AREA



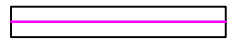
FILL AREA



EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

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Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

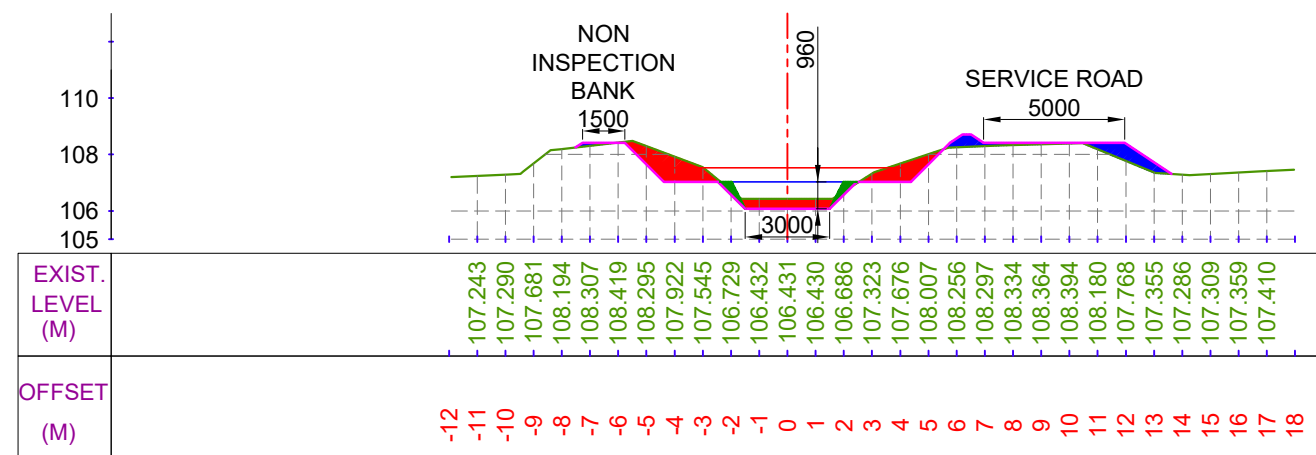
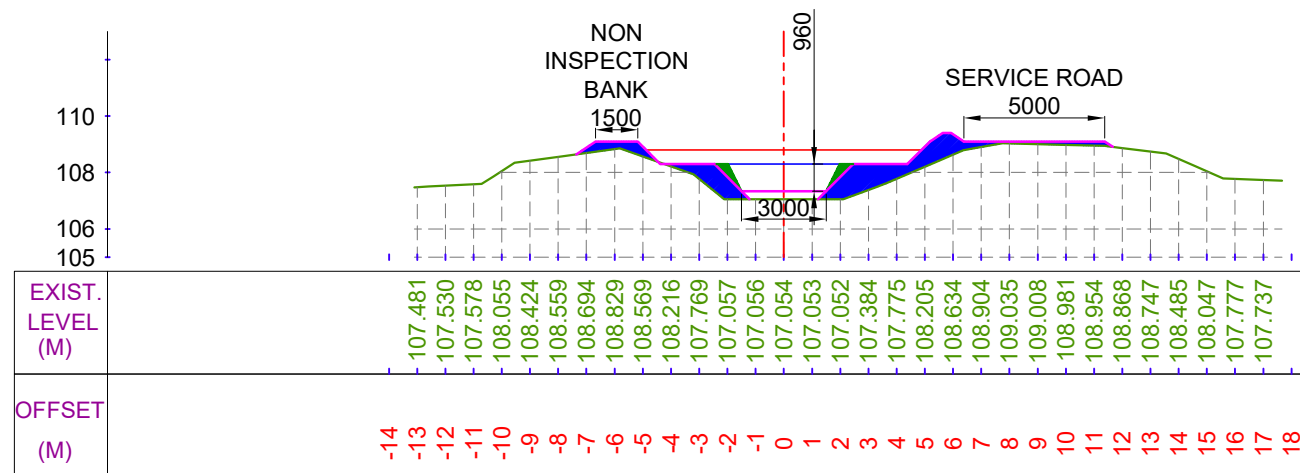
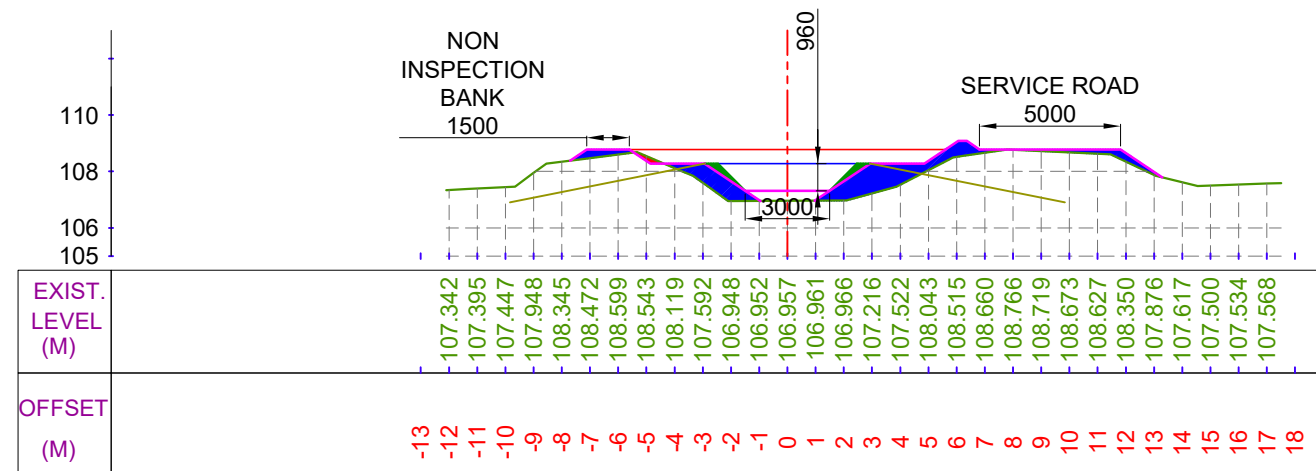
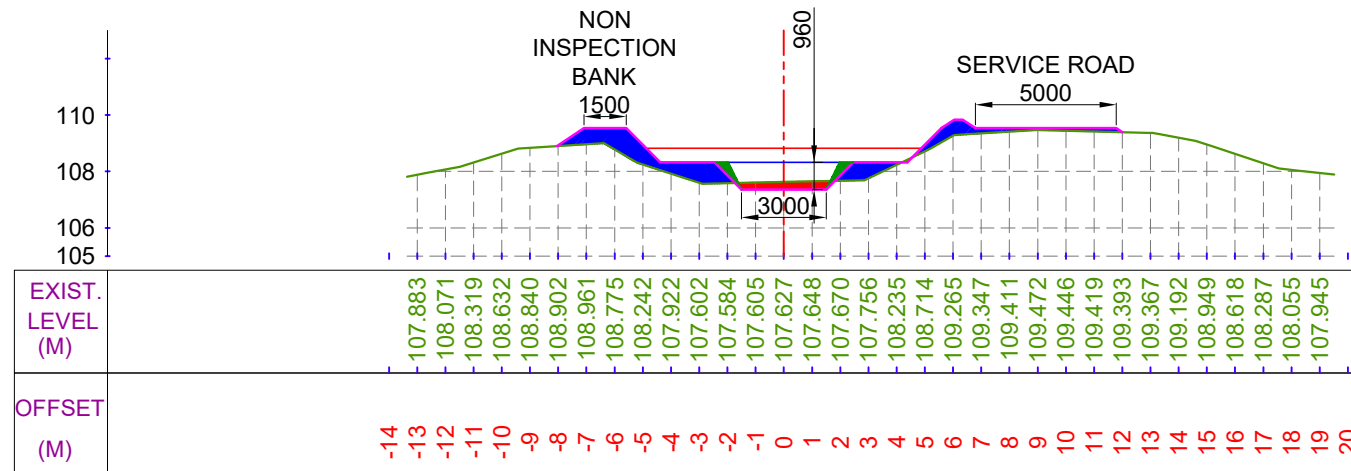
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

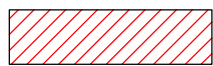
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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LEGEND



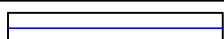
CUT AREA



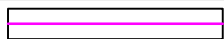
FILL AREA



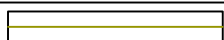
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

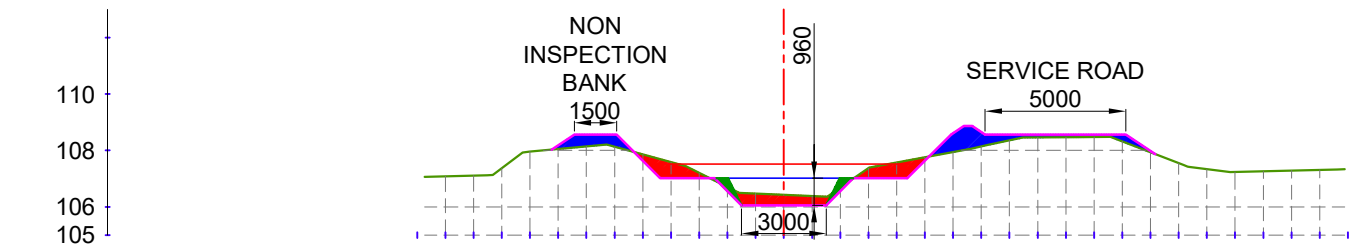
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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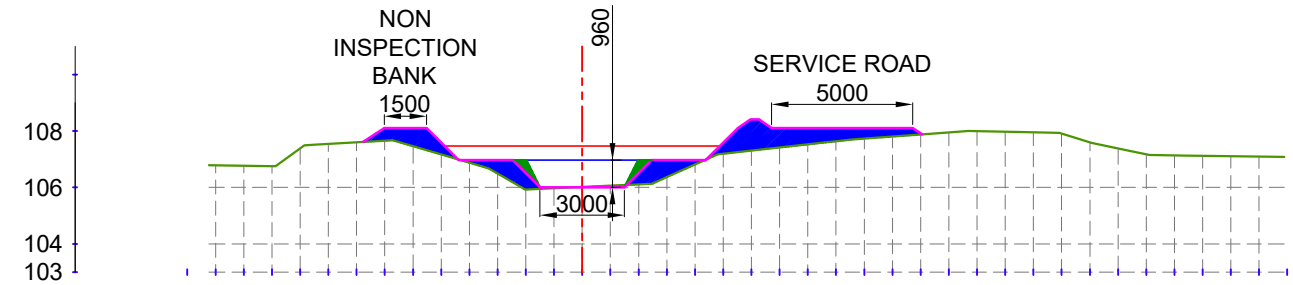
EXIST. LEVEL (M)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CUTTING AREA (SQ.M) = 3.243

FILLING AREA (SQ.M) = 2.900

CH. (KM):- 22+900

DESIGNED BED LEVEL = 106.052 M



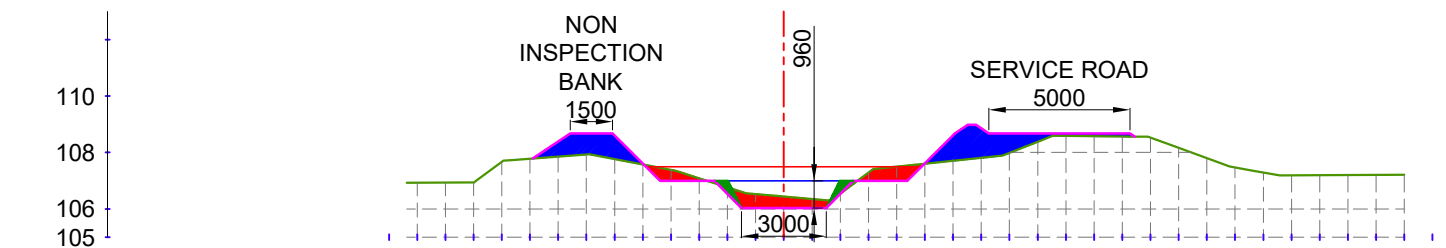
EXIST. LEVEL (M)	106.781	106.769	106.757	107.386	107.543	107.601	107.658	107.464	107.169	106.875	106.494	105.930	105.974	106.018	106.062	106.106	106.362	106.812	107.195	107.305	107.415	107.525	107.636	107.734	107.806	107.877	107.949	107.992	107.973	107.953	107.908	107.599	107.384	107.174	107.138	107.123	107.108	107.093		
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

CUTTING AREA (SQ.M) = 0.069

FILLING AREA (SQ.M) = 7.686

CH. (KM):- 23+100

DESIGNED BED LEVEL = 106.008 M



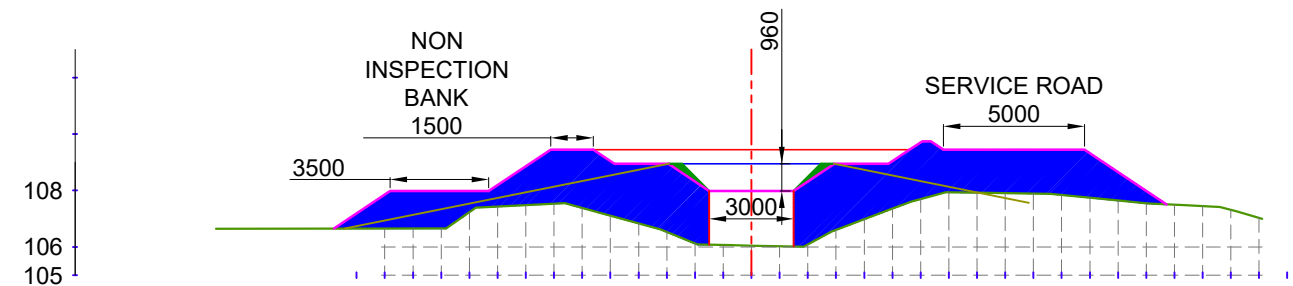
EXIST. LEVEL (M)	106.925	106.934	106.942	107.673	107.783	107.858	107.934	107.772	107.579	107.386	107.089	106.768	106.525	106.439	106.353	106.538	107.289	107.501	107.604	107.707	107.809	107.983	108.381	108.587	108.577	108.567	108.526	108.160	107.794	107.467	107.292	107.192	107.196	107.200	107.203	107.207		
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

CUTTING AREA (SQ.M) = 2.800

FILLING AREA (SQ.M) = 5.554

CH. (KM):- 23+000

DESIGNED BED LEVEL = 106.030 M



EXIST. LEVEL (M)	106.646	106.650	106.655	107.234	107.435	107.485	107.534	107.384	107.111	106.838	106.533	106.119	106.065	106.046	106.027	106.091	106.607	106.983	107.359	107.699	107.937	107.923	107.909	107.895	107.847	107.746	107.645	107.544	107.495	107.449	107.314	107.030		
OFFSET (M)	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CUTTING AREA (SQ.M) = 0.000

FILLING AREA (SQ.M) = 40.636

CH. (KM):- 23+200

DESIGNED BED LEVEL = 105.986 M

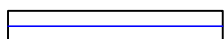
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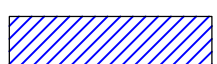
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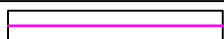
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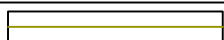
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

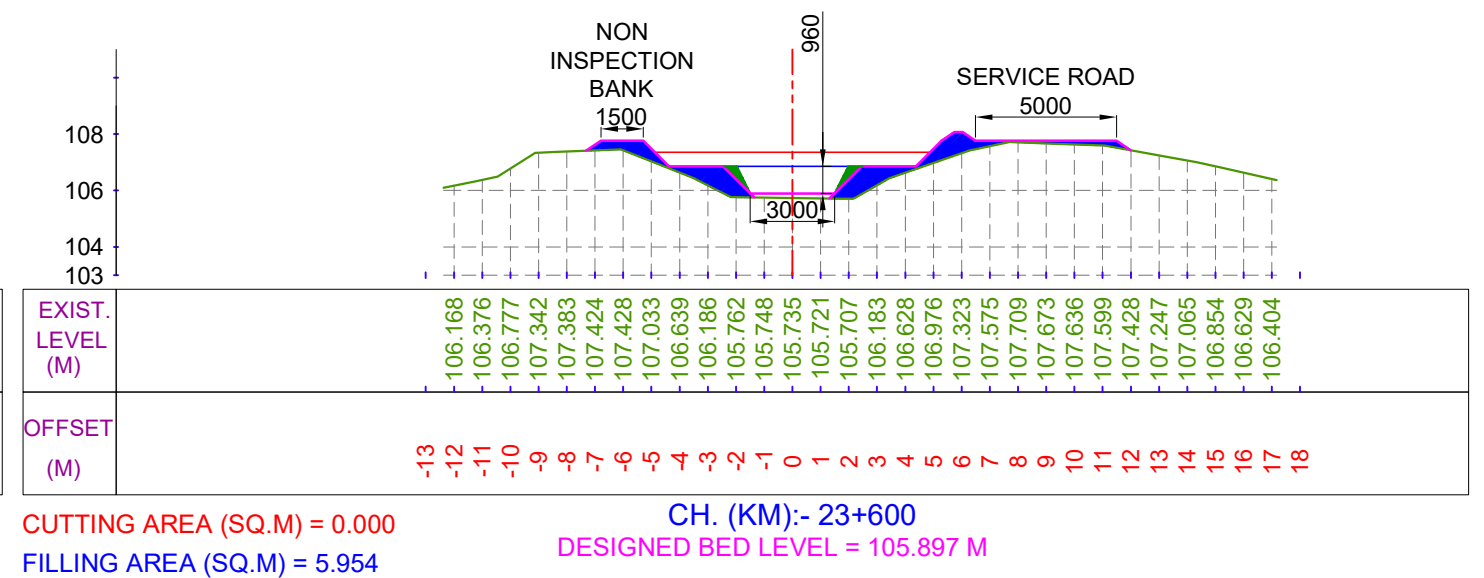
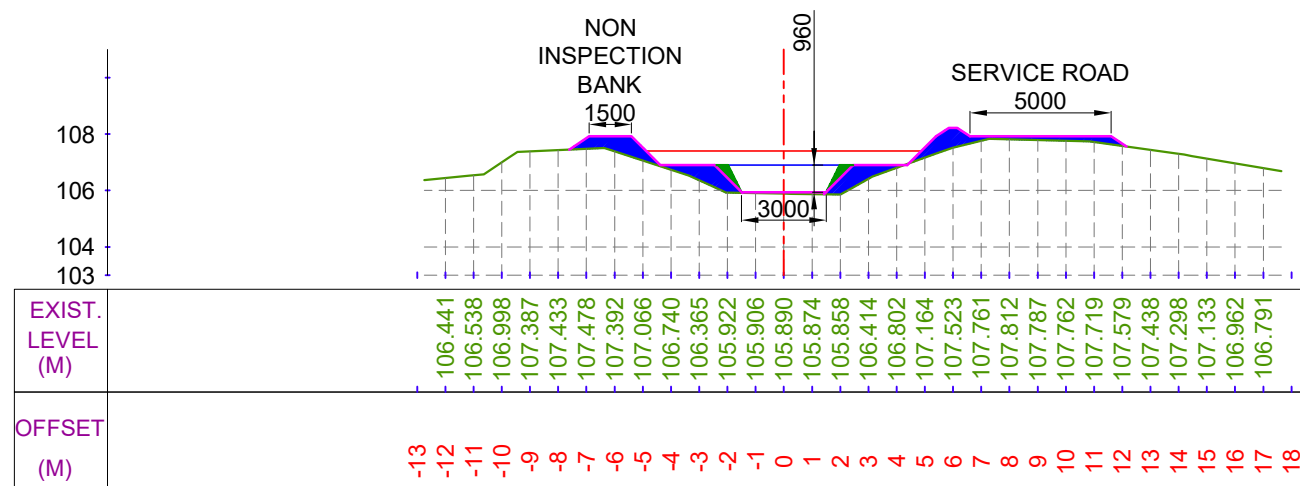
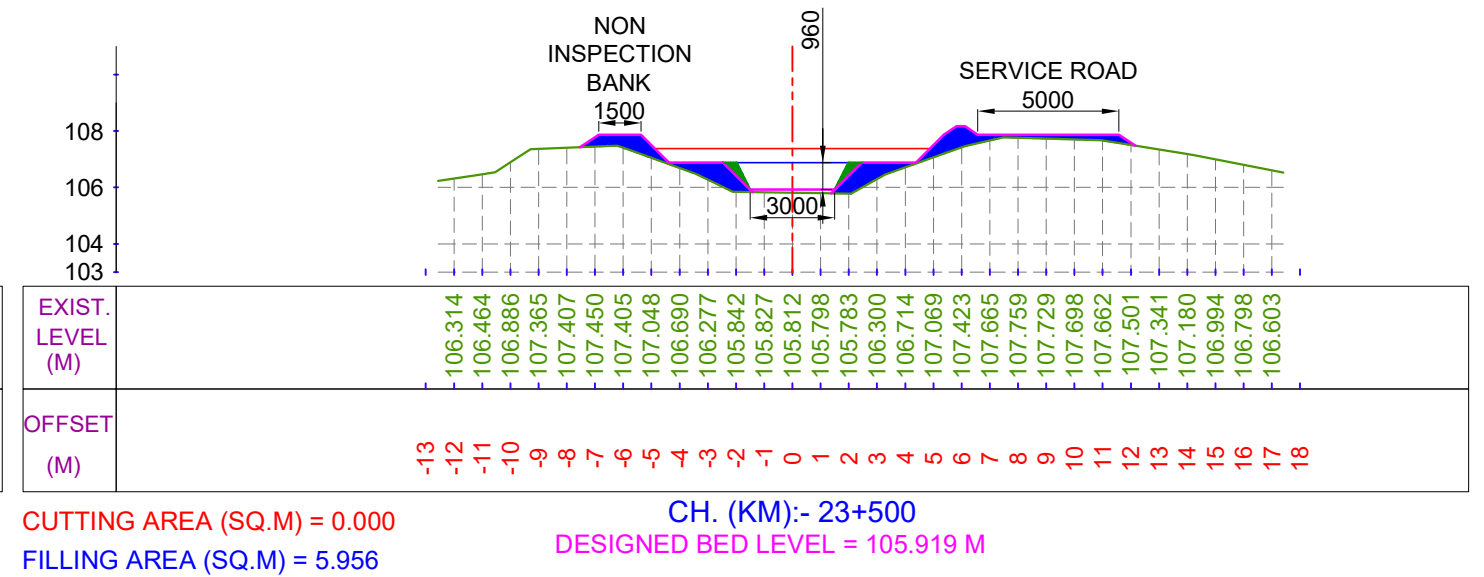
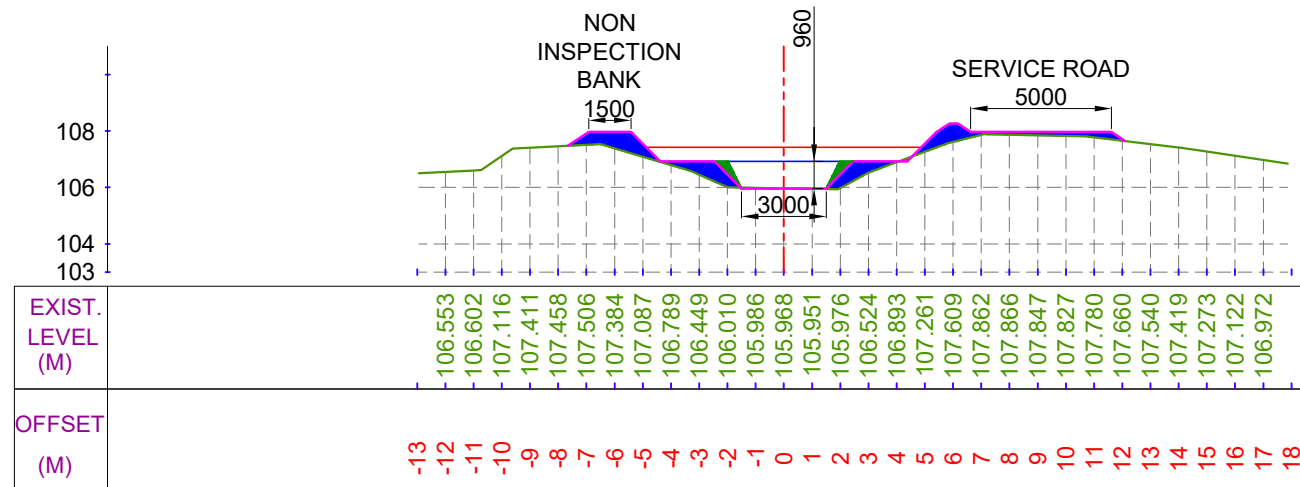
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

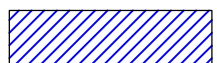
58 of 77



LEGEND



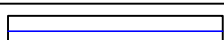
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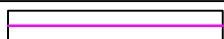
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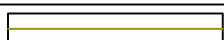
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

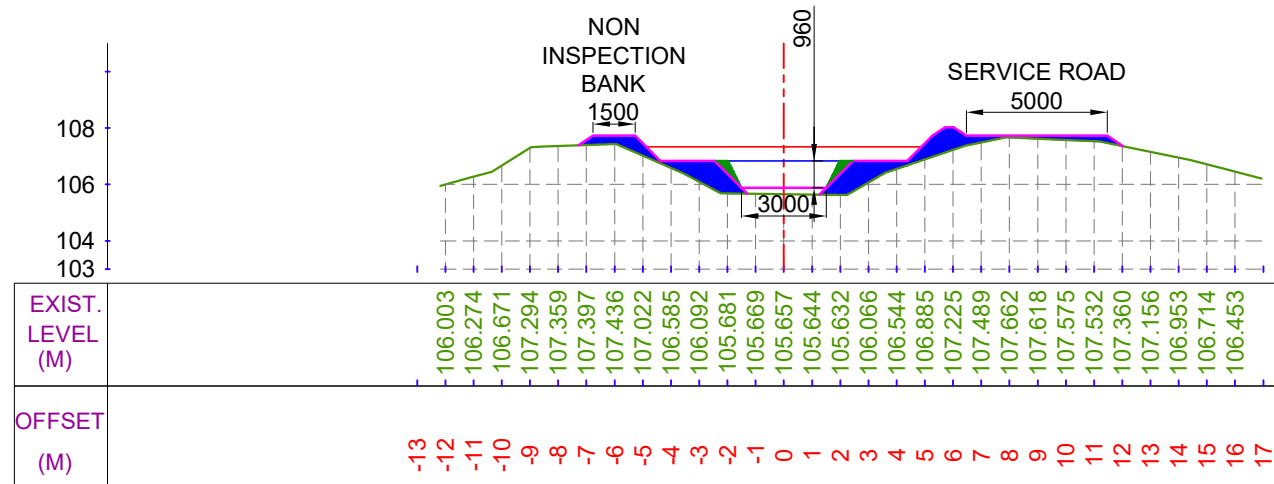
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Drawing No. :-

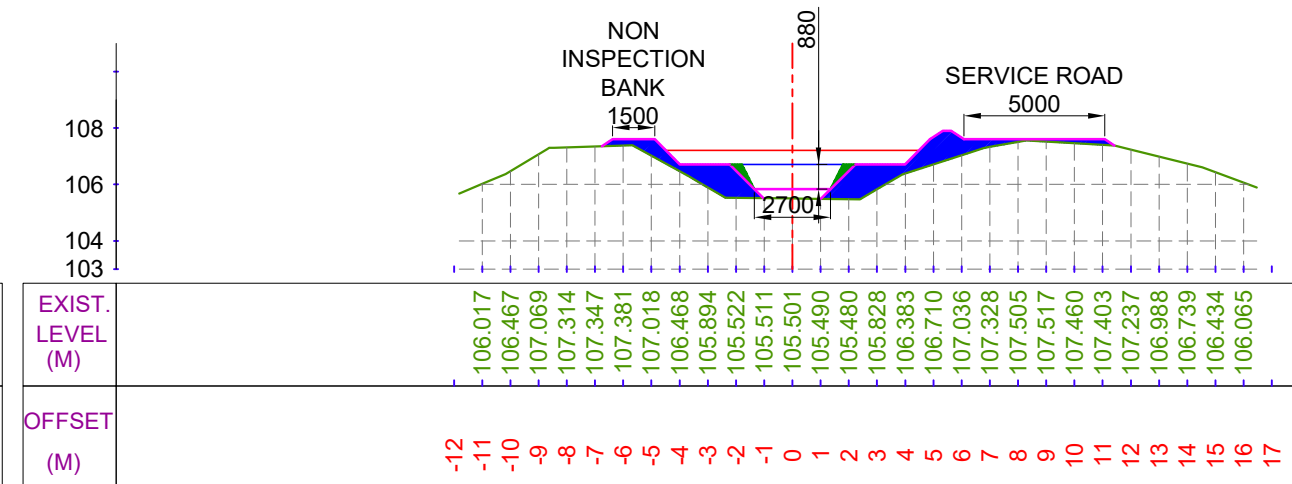
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

59 of 77



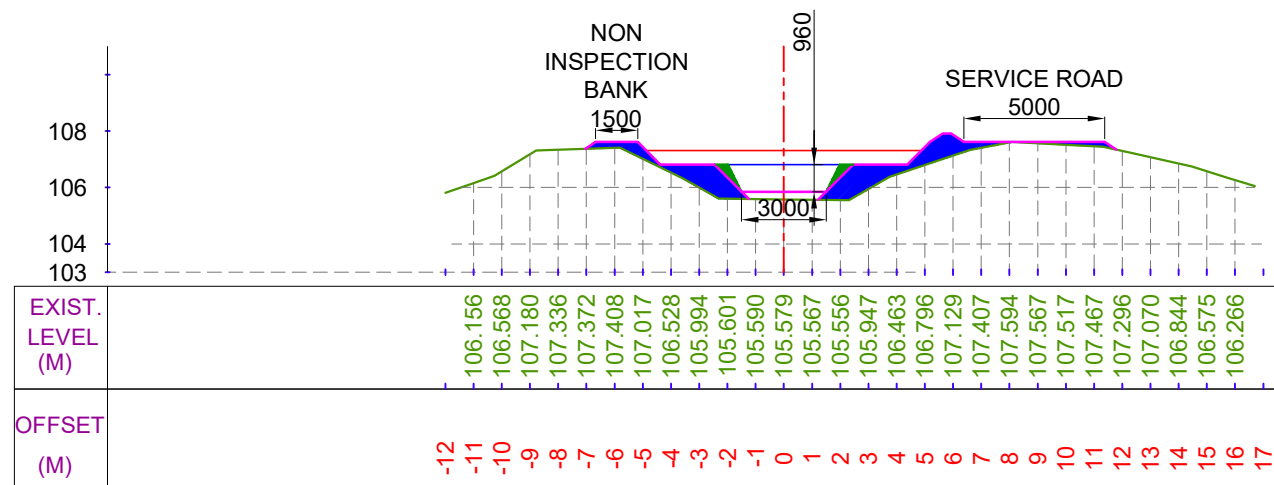
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FILLING AREA (SQ.M) = 6.515

CH. (KM):- 23+700
DESIGNED BED LEVEL = 105.874 M



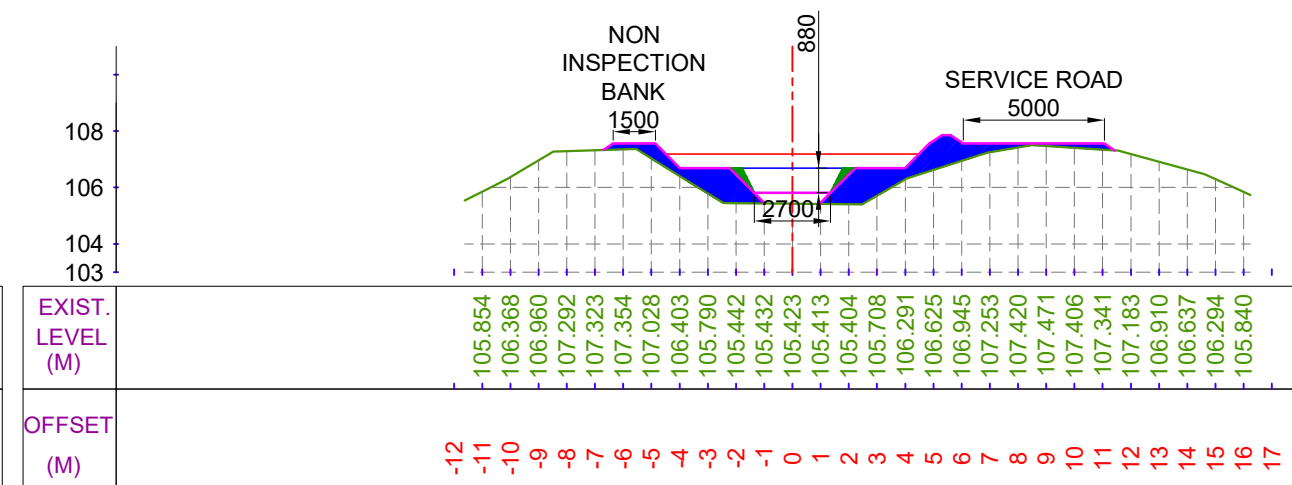
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FILLING AREA (SQ.M) = 7.756

CH. (KM):- 23+900
DESIGNED BED LEVEL = 105.830 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.451

CH. (KM):- 23+800
DESIGNED BED LEVEL = 105.852 M



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CH. (KM):- 24+000
DESIGNED BED LEVEL = 105.808 M

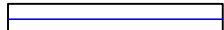
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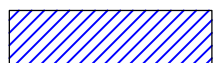
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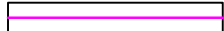
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

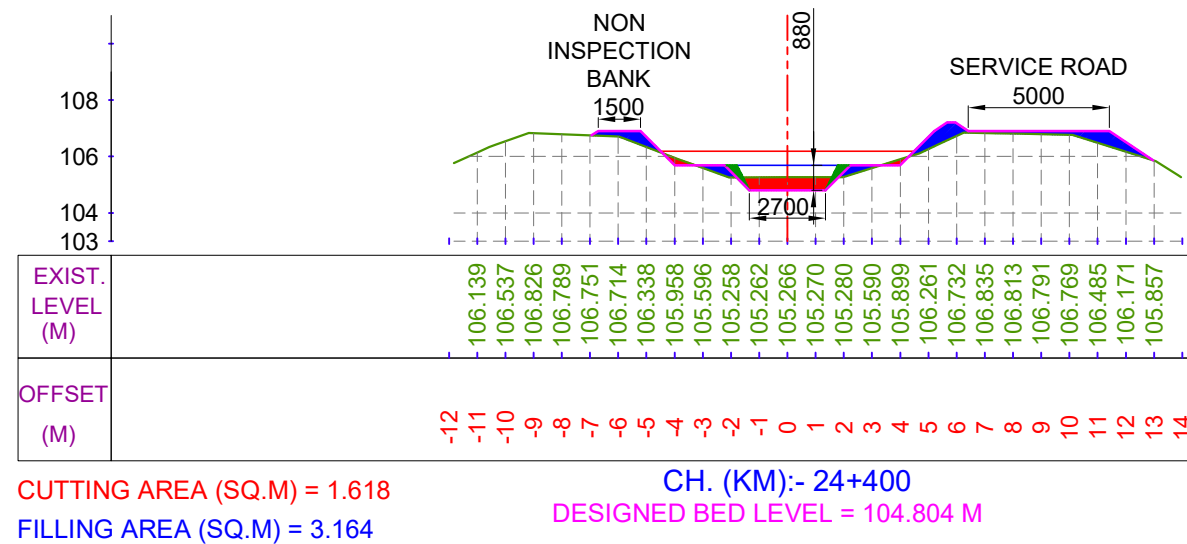
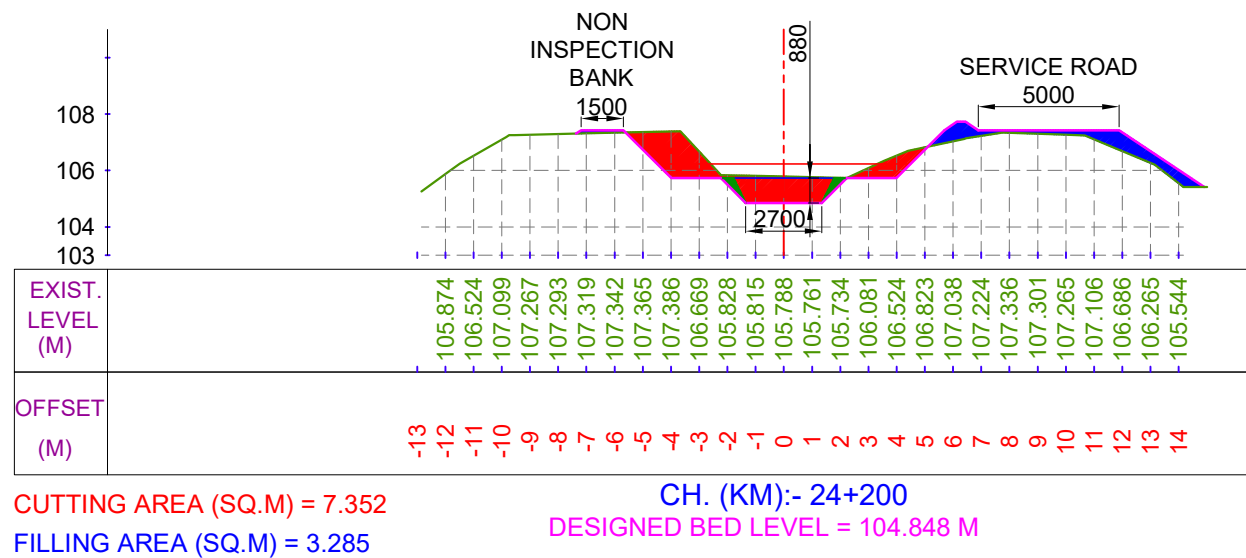
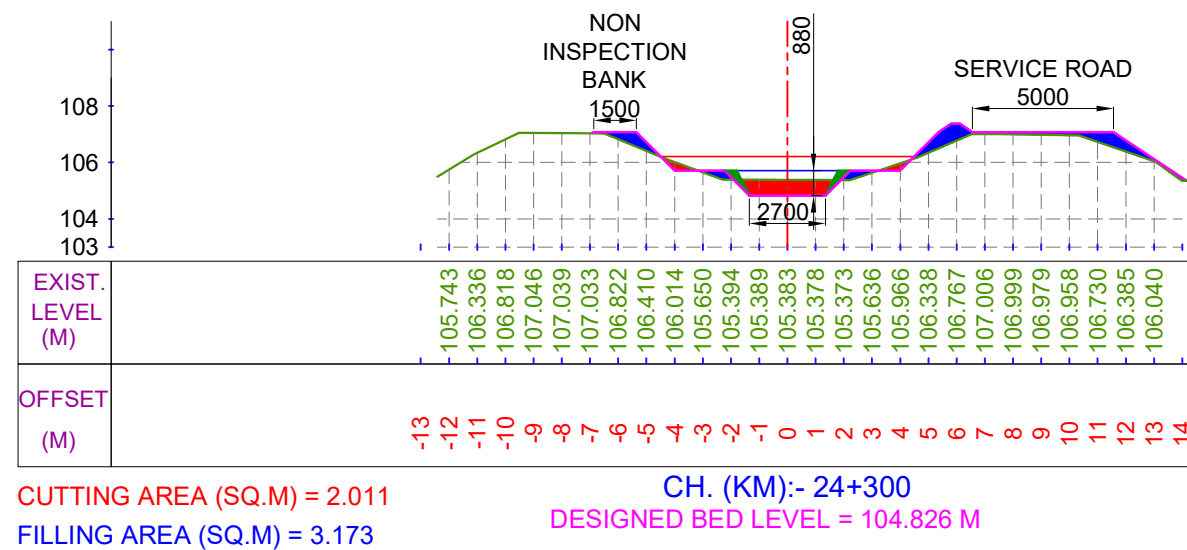
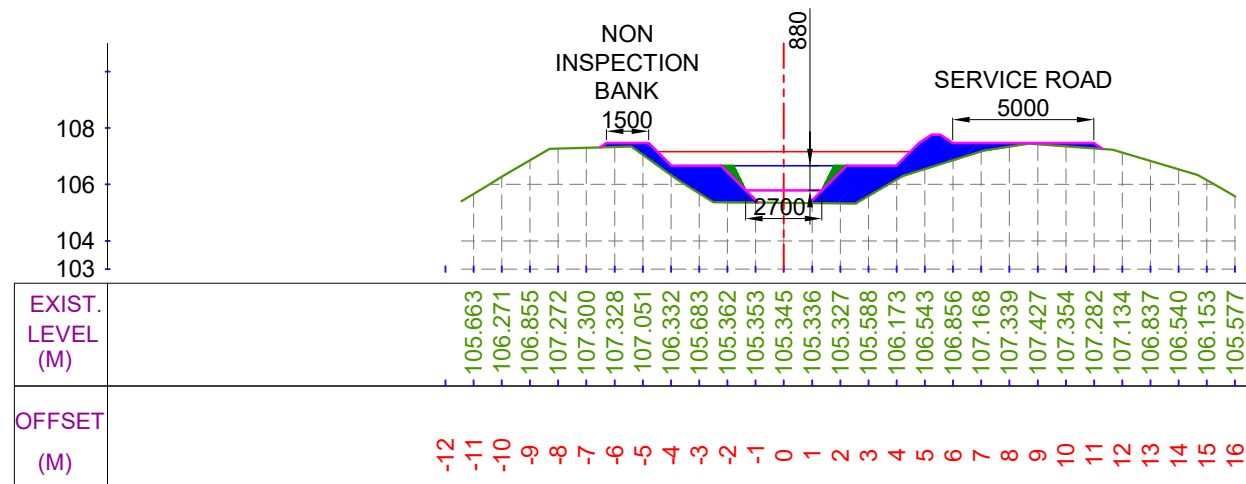
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

60 of 77



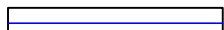
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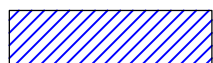
CUT AREA



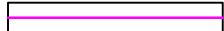
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

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WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

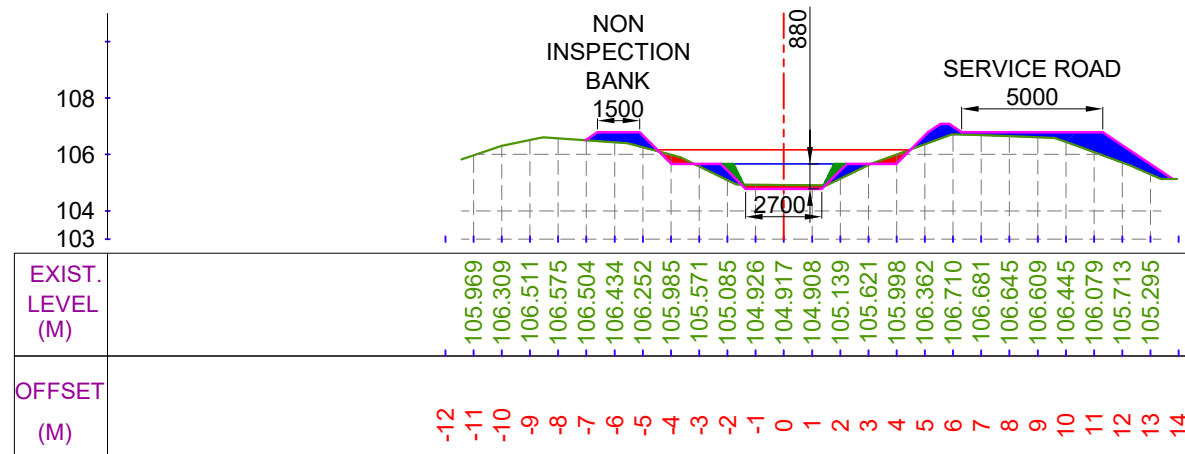
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

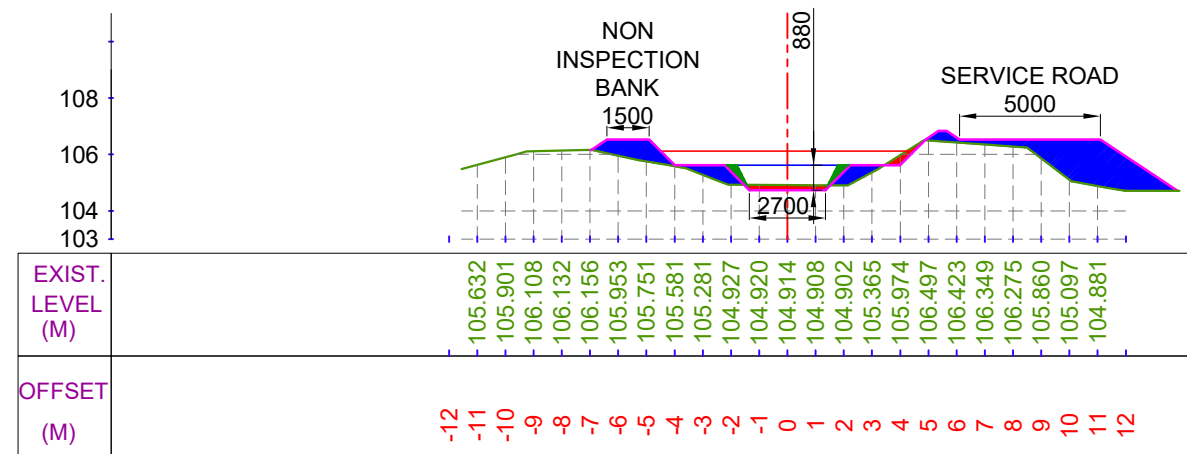
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61 of 77



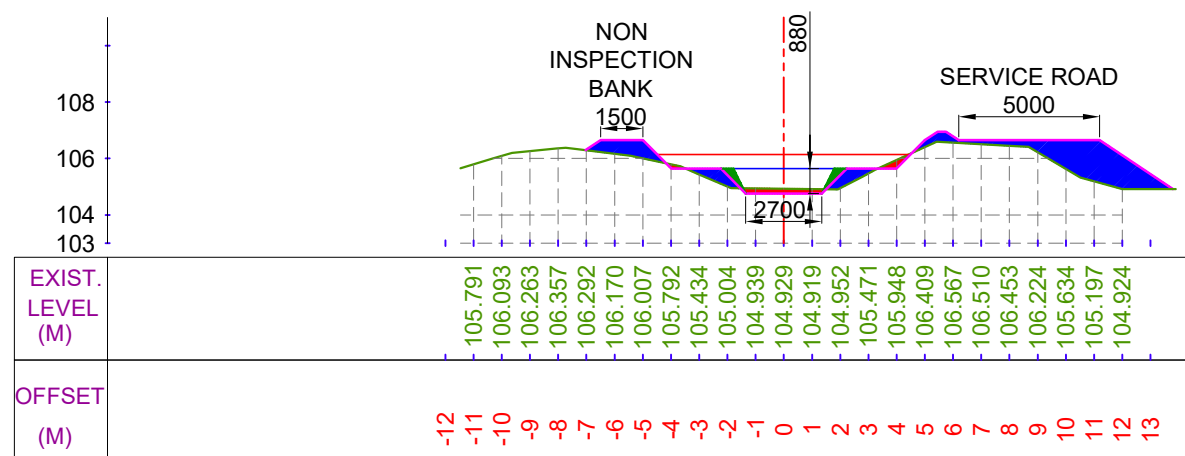
CUTTING AREA (SQ.M) = 0.828
FILLING AREA (SQ.M) = 4.554

CH. (KM):- 24+500
DESIGNED BED LEVEL = 104.782 M



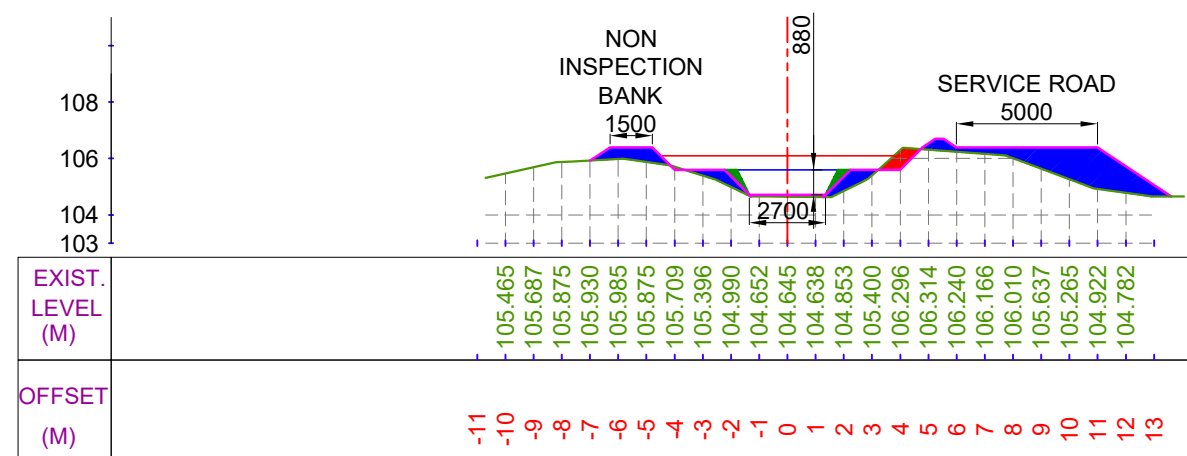
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FILLING AREA (SQ.M) = 9.128

CH. (KM):- 24+700
DESIGNED BED LEVEL = 104.737 M



CUTTING AREA (SQ.M) = 0.719
FILLING AREA (SQ.M) = 7.589

CH. (KM):- 24+600
DESIGNED BED LEVEL = 104.759 M



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DESIGNED BED LEVEL = 104.715 M

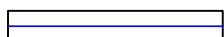
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CUT AREA



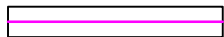
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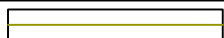
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

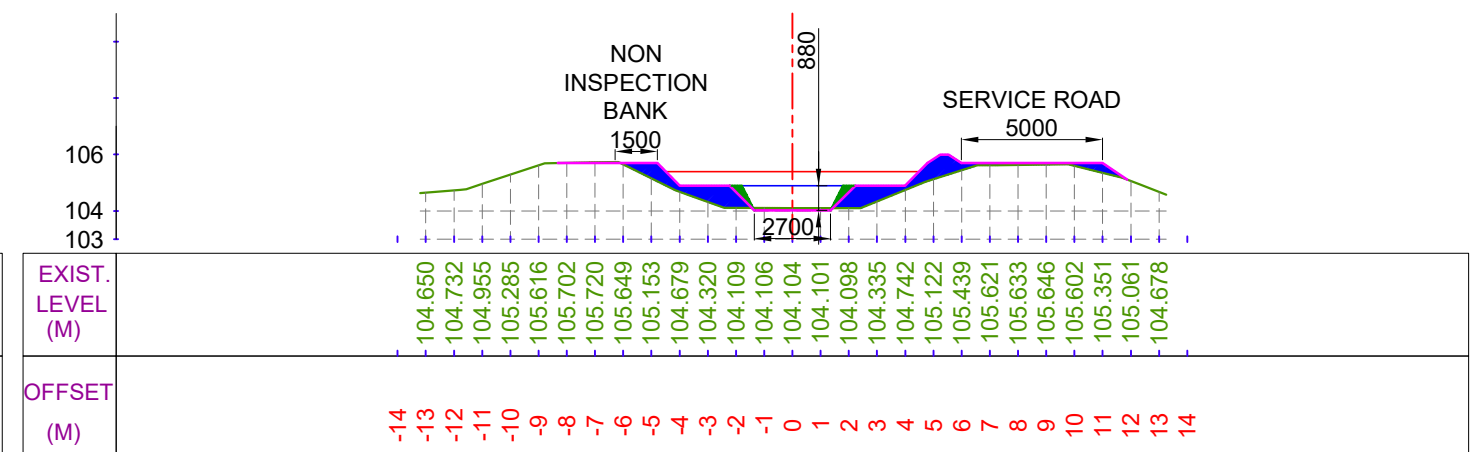
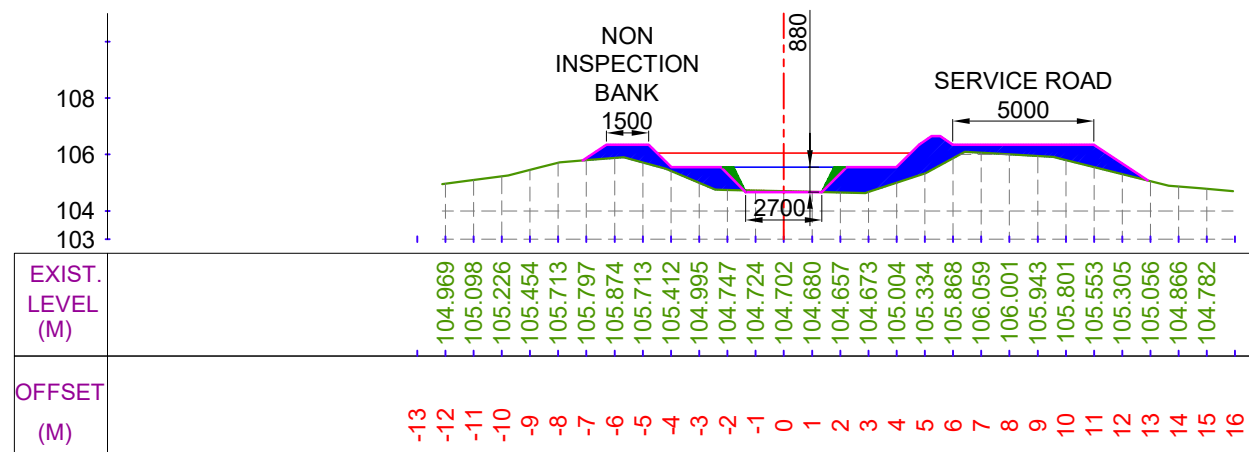
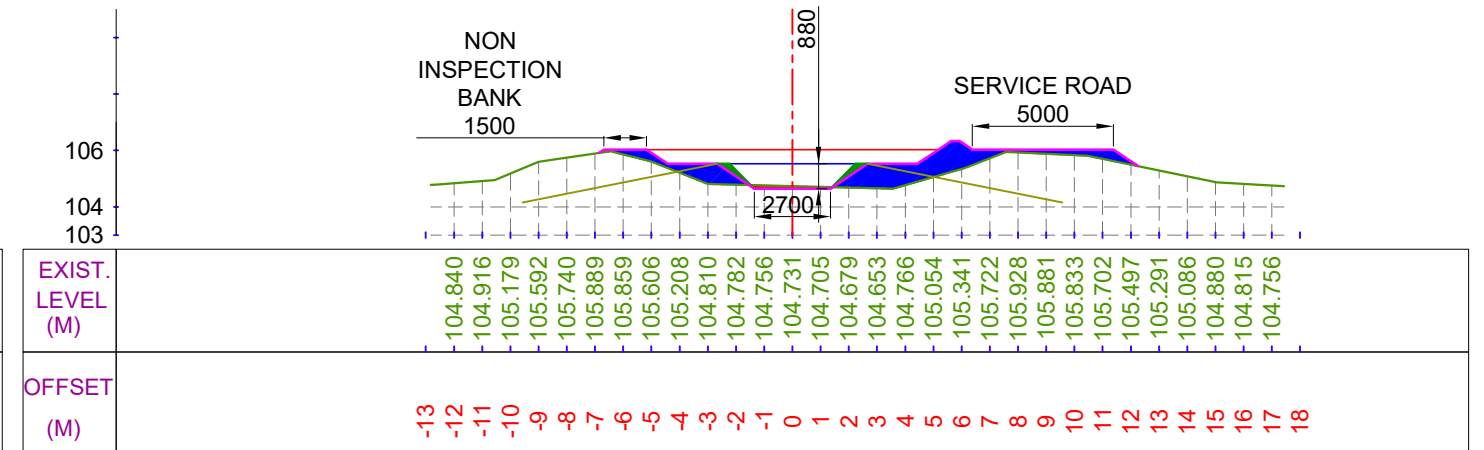
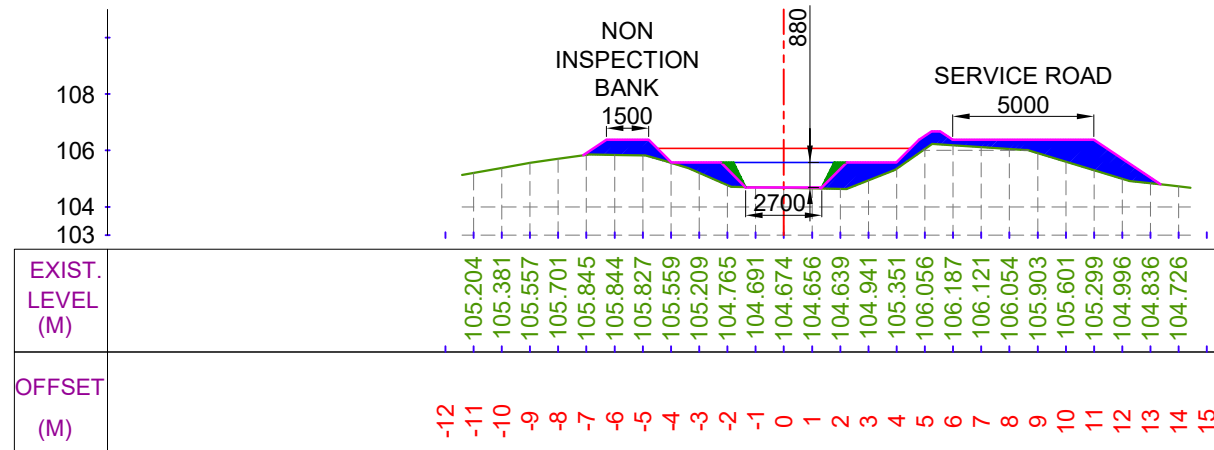
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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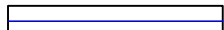
LEGEND



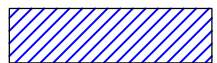
CUT AREA



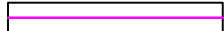
EXISTING BED LINE



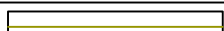
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

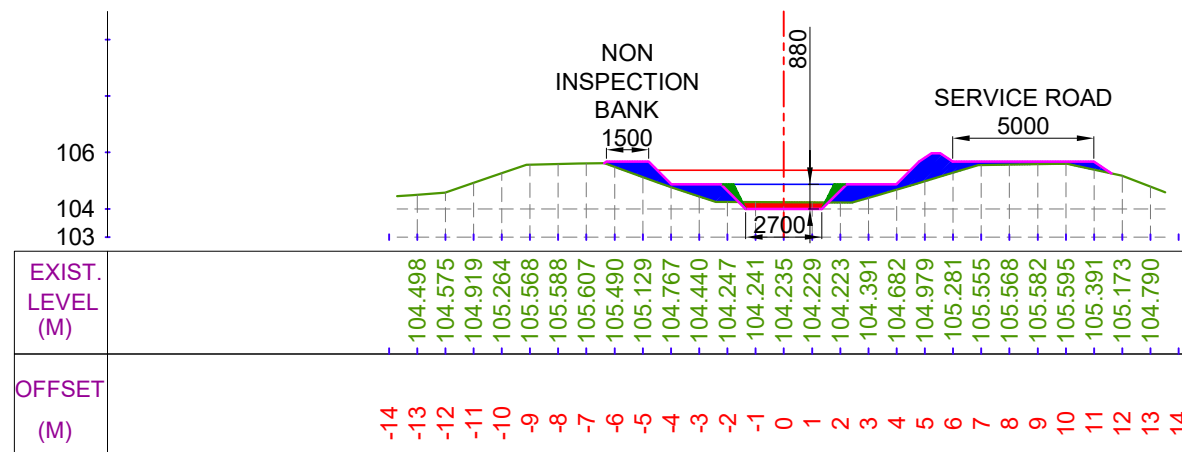
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

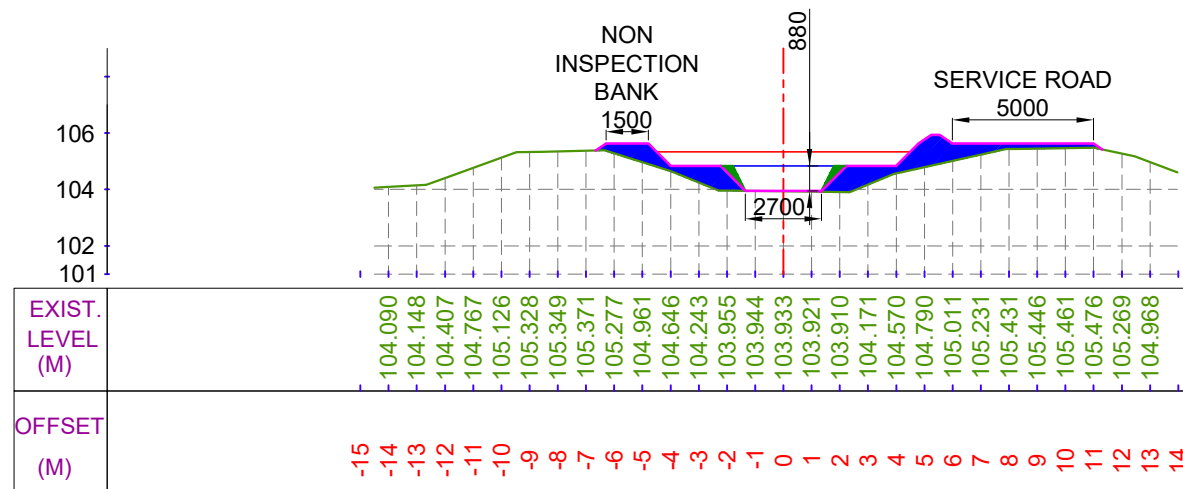
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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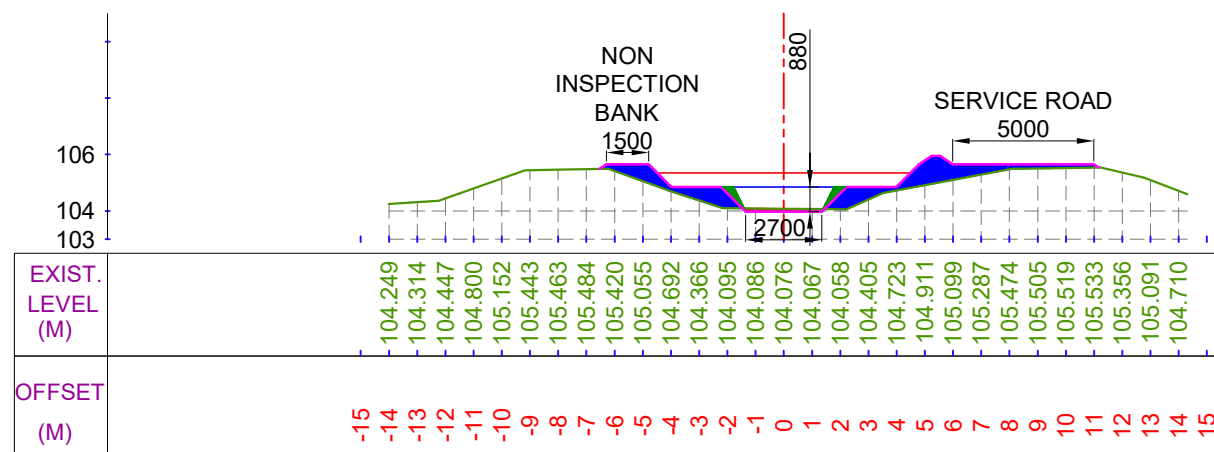
CUTTING AREA (SQ.M) = 0.681
FILLING AREA (SQ.M) = 4.816

CH. (KM):- 25+300
DESIGNED BED LEVEL = 103.994 M



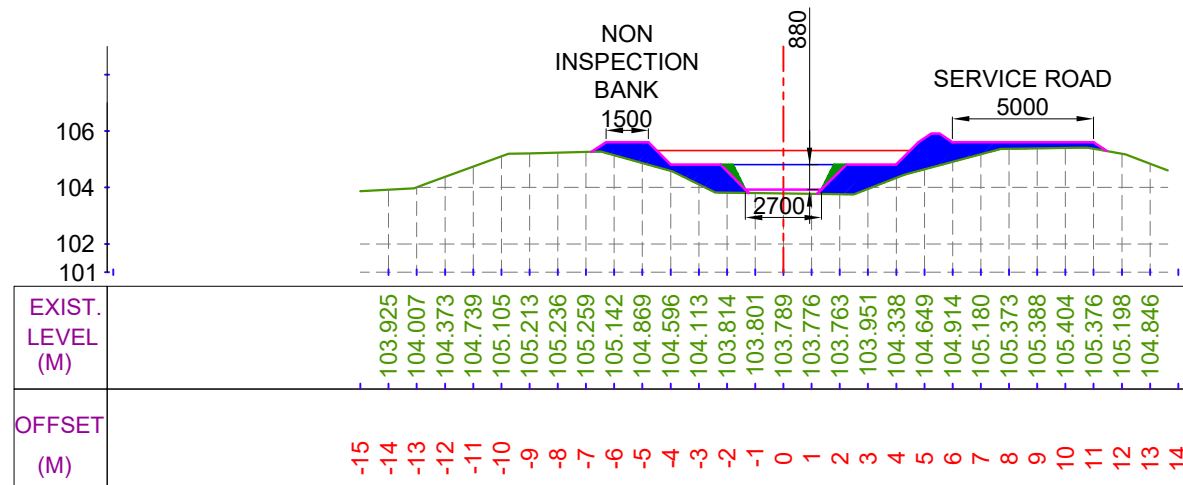
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 6.931

CH. (KM):- 25+500
DESIGNED BED LEVEL = 103.949 M



CUTTING AREA (SQ.M) = 0.287
FILLING AREA (SQ.M) = 5.636

CH. (KM):- 25+400
DESIGNED BED LEVEL = 103.972 M



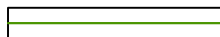
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FILLING AREA (SQ.M) = 8.347

CH. (KM):- 25+600
DESIGNED BED LEVEL = 103.927 M

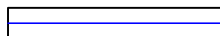
LEGEND



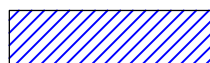
CUT AREA



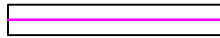
EXISTING BED LINE



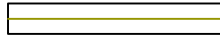
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

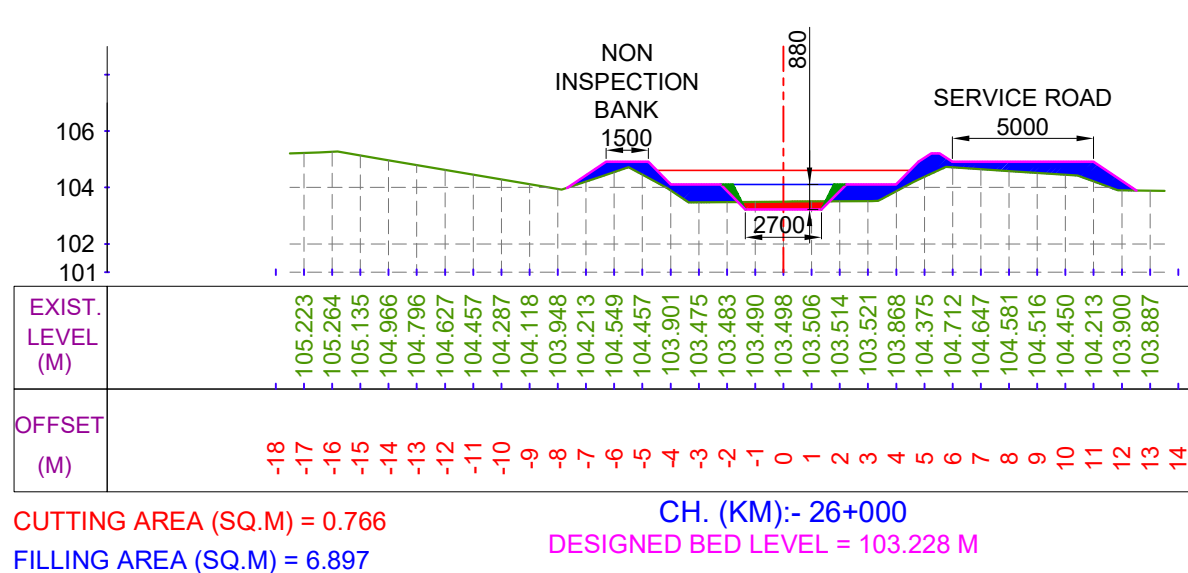
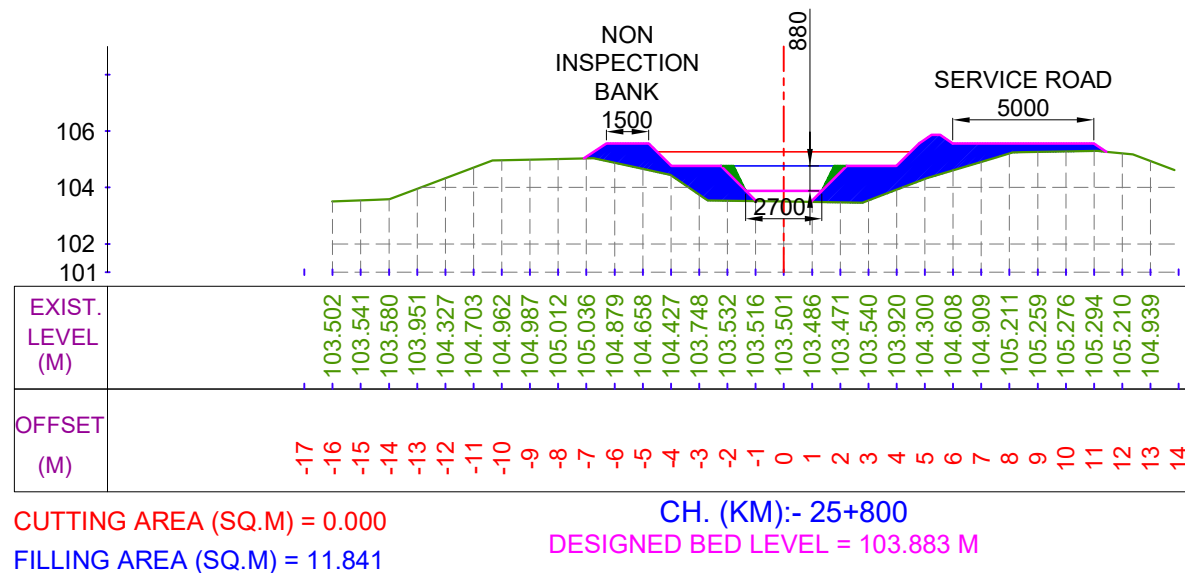
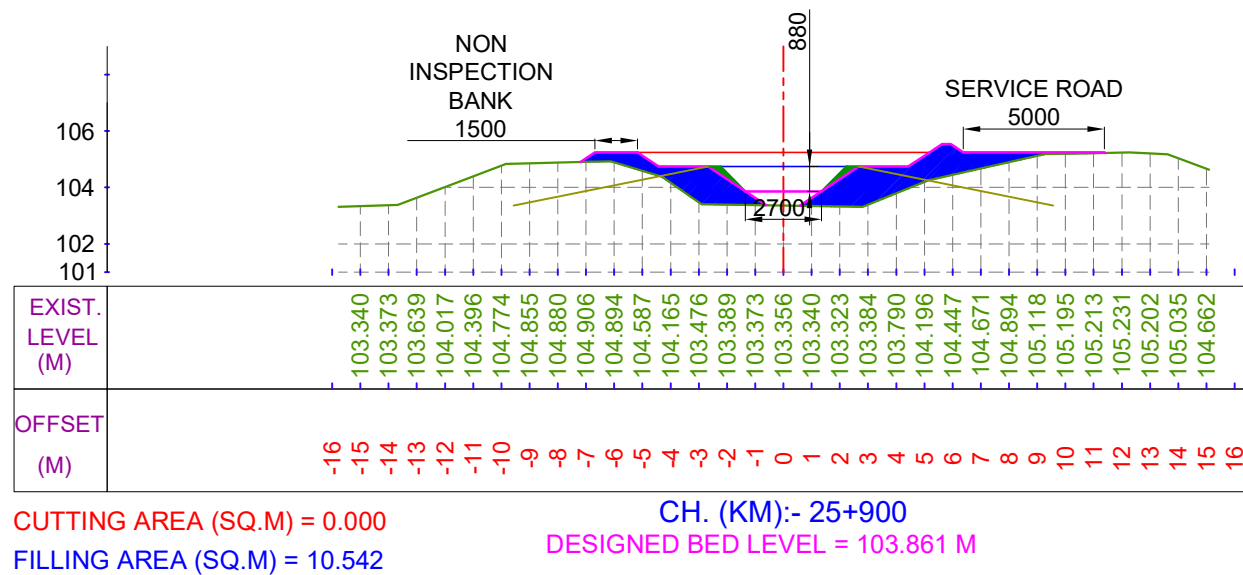
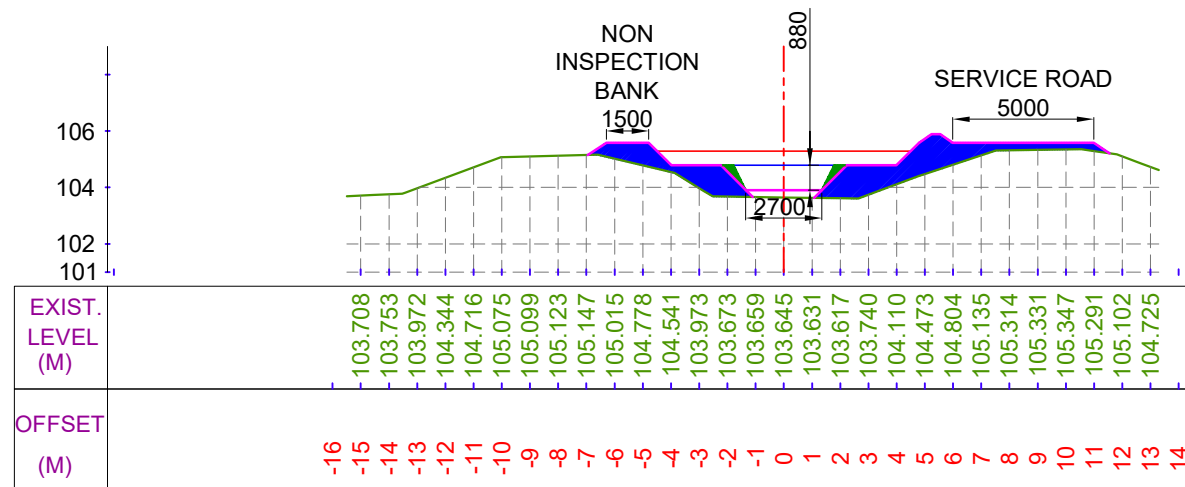
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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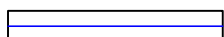
LEGEND



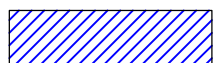
CUT AREA



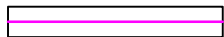
EXISTING BED LINE



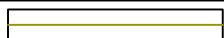
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

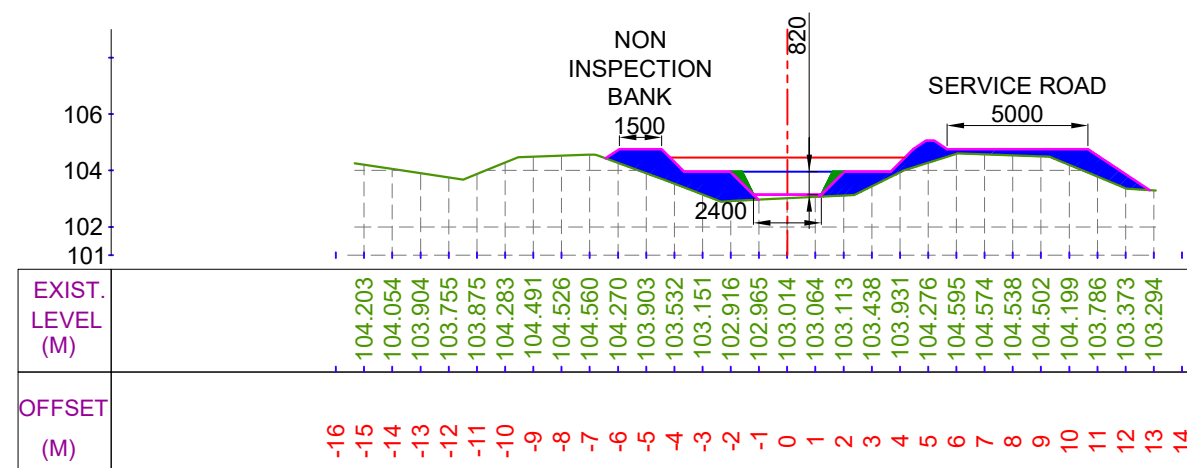
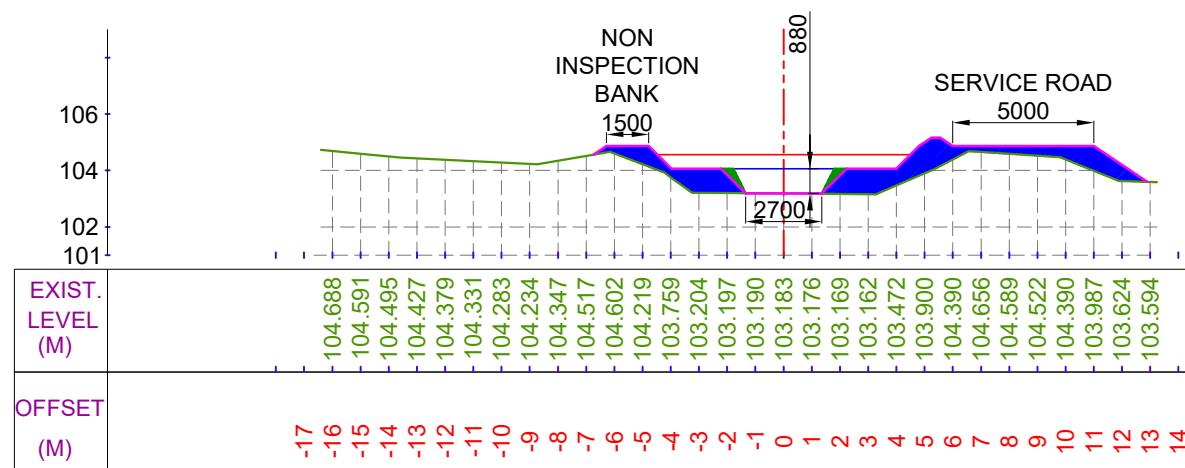
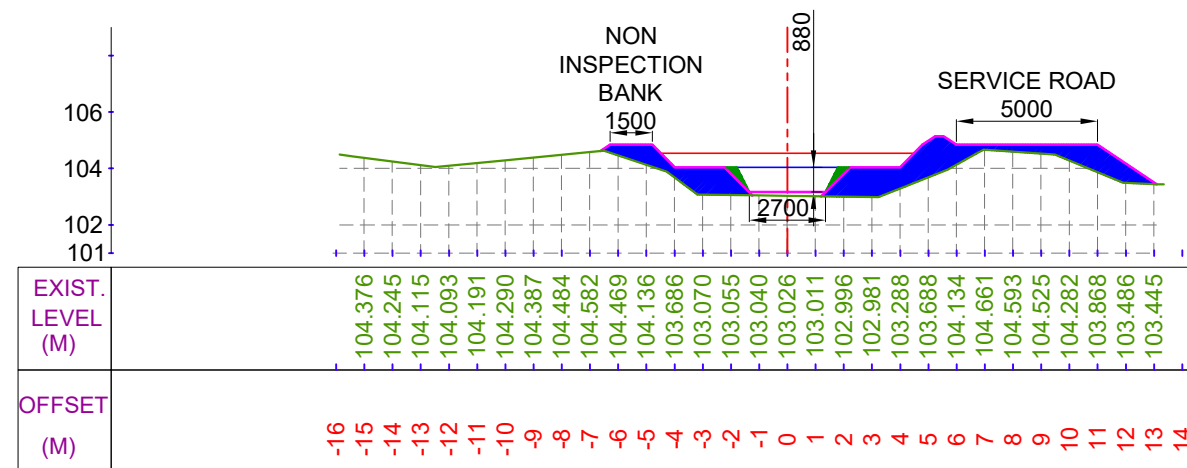
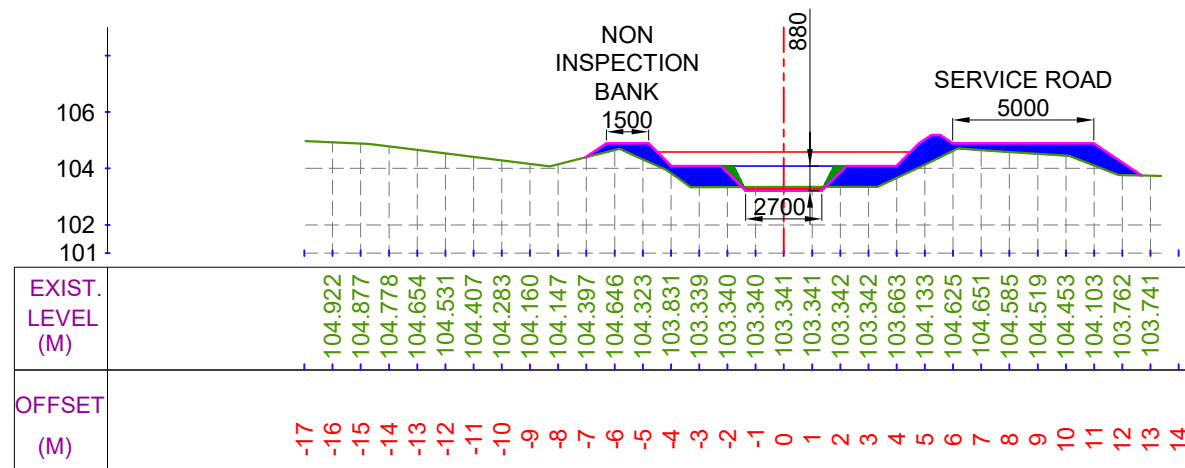
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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LEGEND



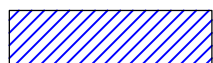
CUT AREA



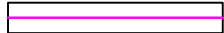
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

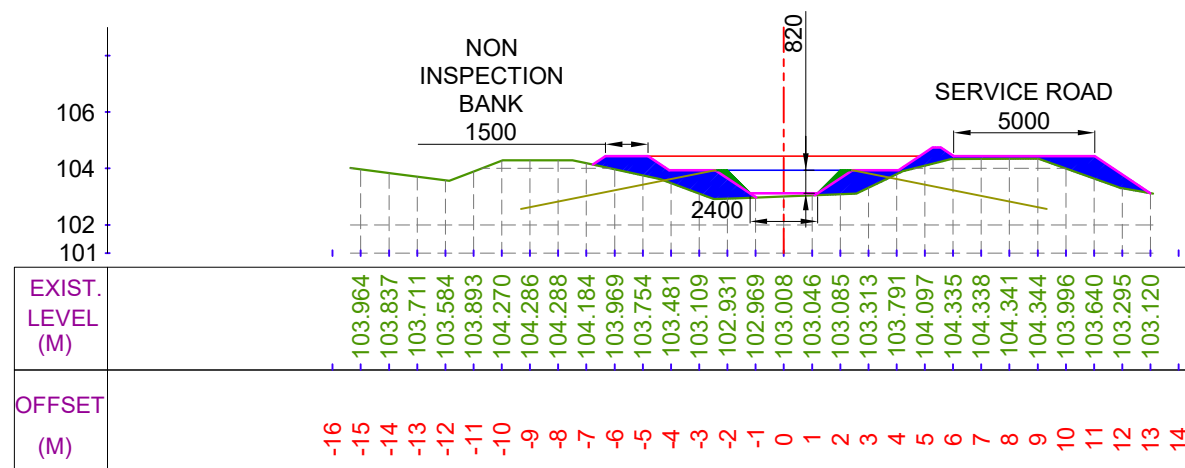
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

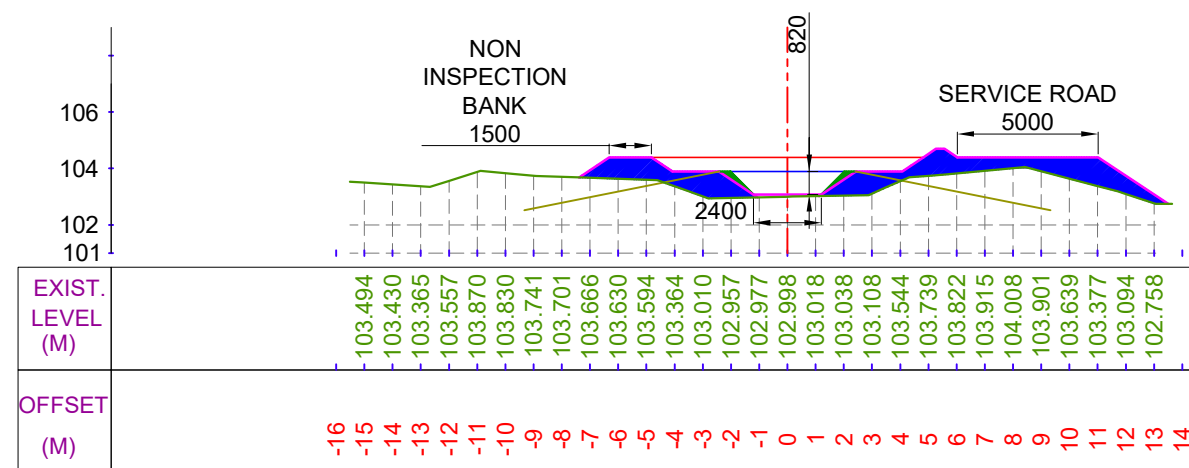
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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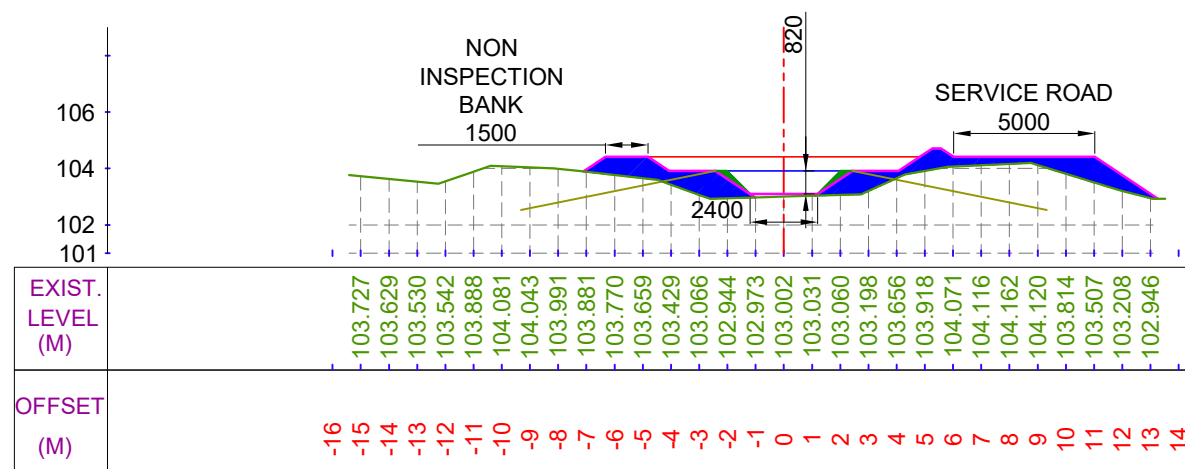
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 7.428

CH. (KM):- 26+500
DESIGNED BED LEVEL = 103.117 M



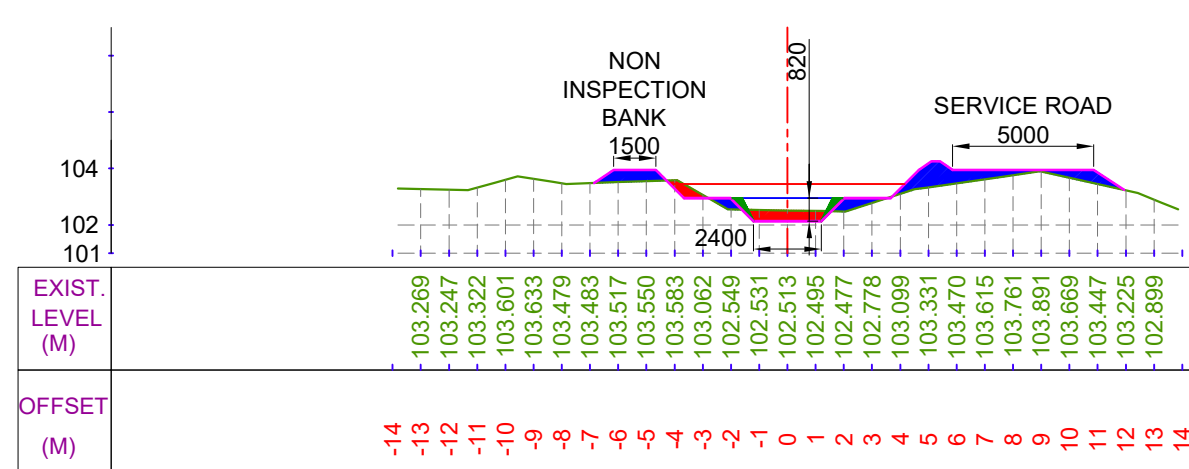
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 11.111

CH. (KM):- 26+700
DESIGNED BED LEVEL = 103.071 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 9.310

CH. (KM):- 26+600
DESIGNED BED LEVEL = 103.094 M



CUTTING AREA (SQ.M) = 1.372
FILLING AREA (SQ.M) = 4.463

CH. (KM):- 26+800
DESIGNED BED LEVEL = 102.134 M

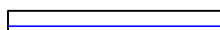
LEGEND



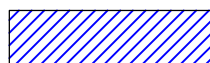
CUT AREA



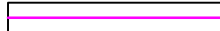
EXISTING BED LINE



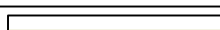
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

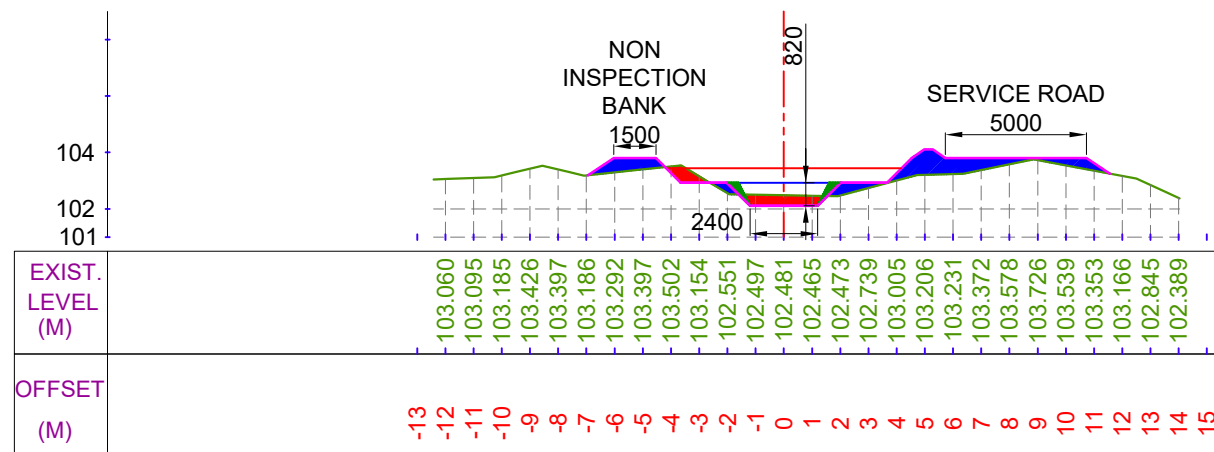
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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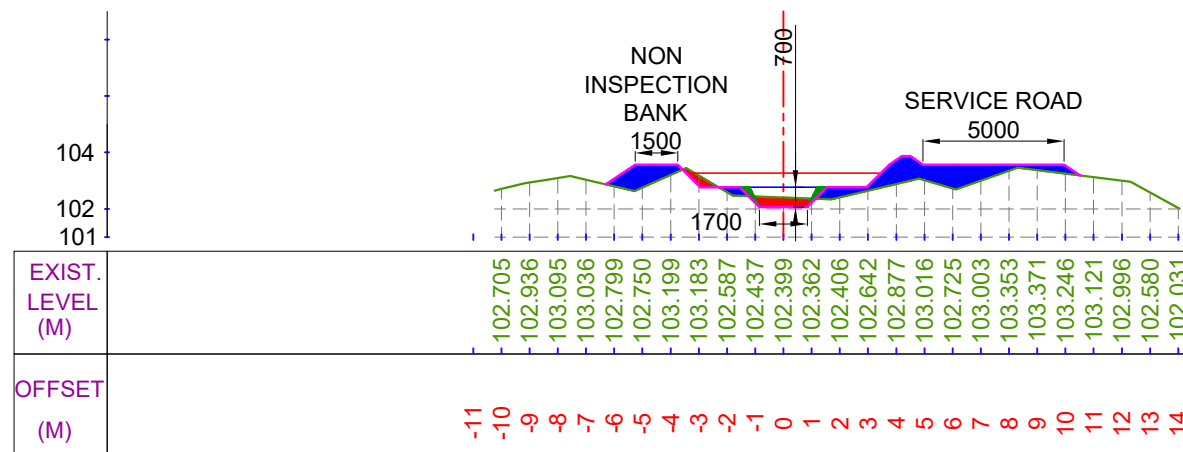


CUTTING AREA (SQ.M) = 1.442

FILLING AREA (SQ.M) = 4.571

CH. (KM):- 26+900

DESIGNED BED LEVEL = 102.111 M

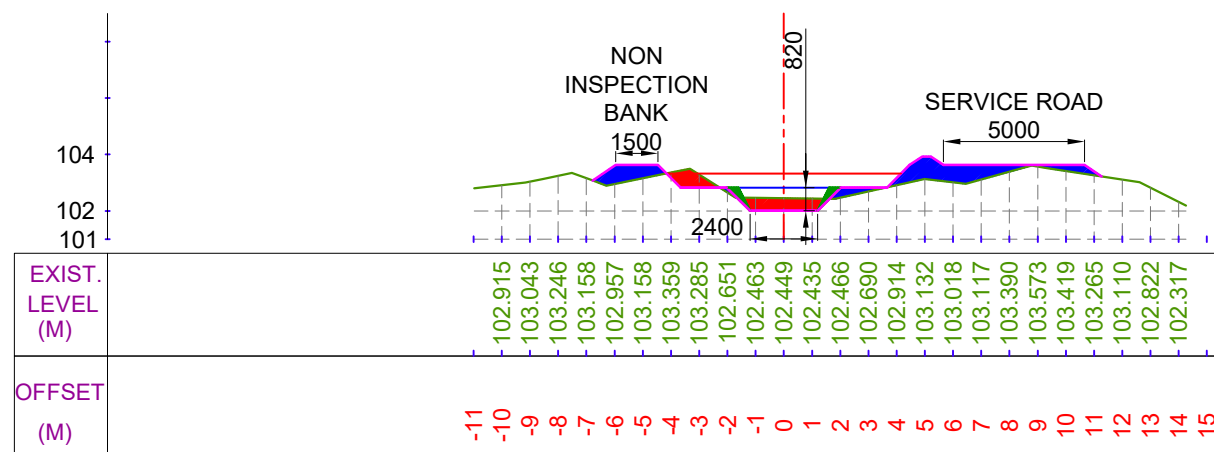


CUTTING AREA (SQ.M) = 0.905

FILLING AREA (SQ.M) = 5.736

CH. (KM):- 27+100

DESIGNED BED LEVEL = 102.065 M

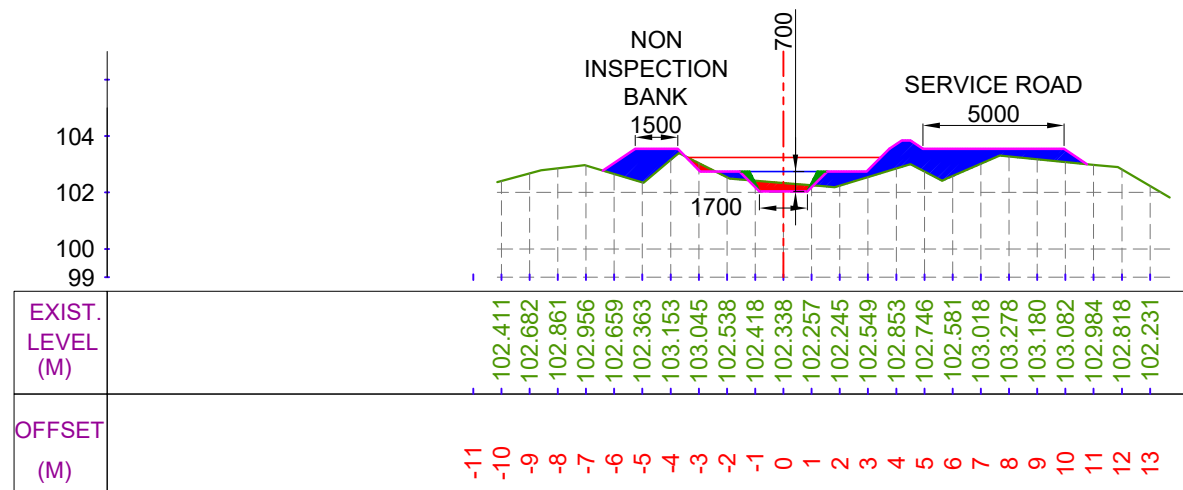


CUTTING AREA (SQ.M) = 1.864

FILLING AREA (SQ.M) = 4.366

CH. (KM):- 27+000

DESIGNED BED LEVEL = 102.088 M



CUTTING AREA (SQ.M) = 0.700

FILLING AREA (SQ.M) = 7.117

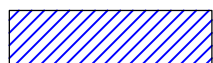
CH. (KM):- 27+200

DESIGNED BED LEVEL = 102.043 M

LEGEND



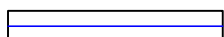
CUT AREA



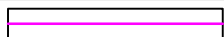
FILL AREA



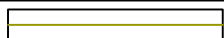
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

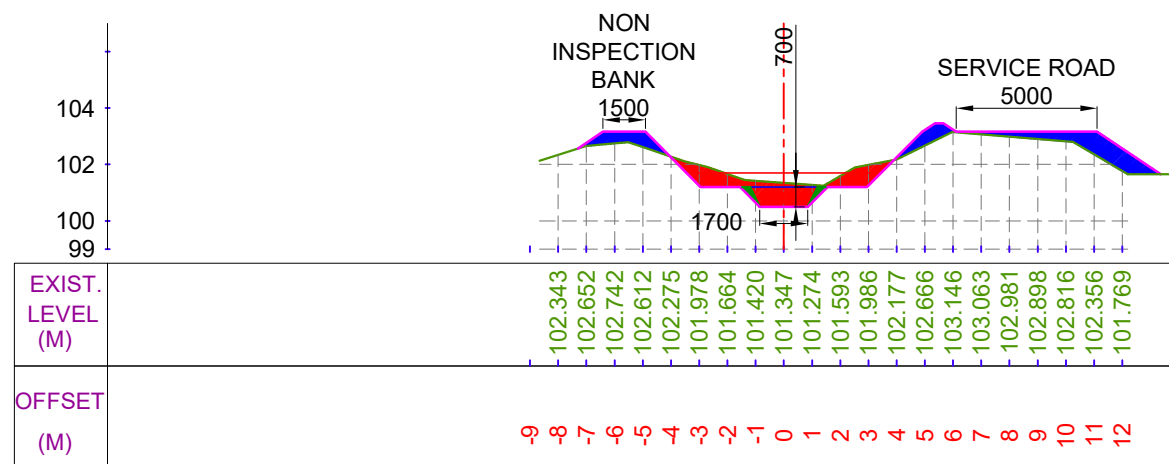
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

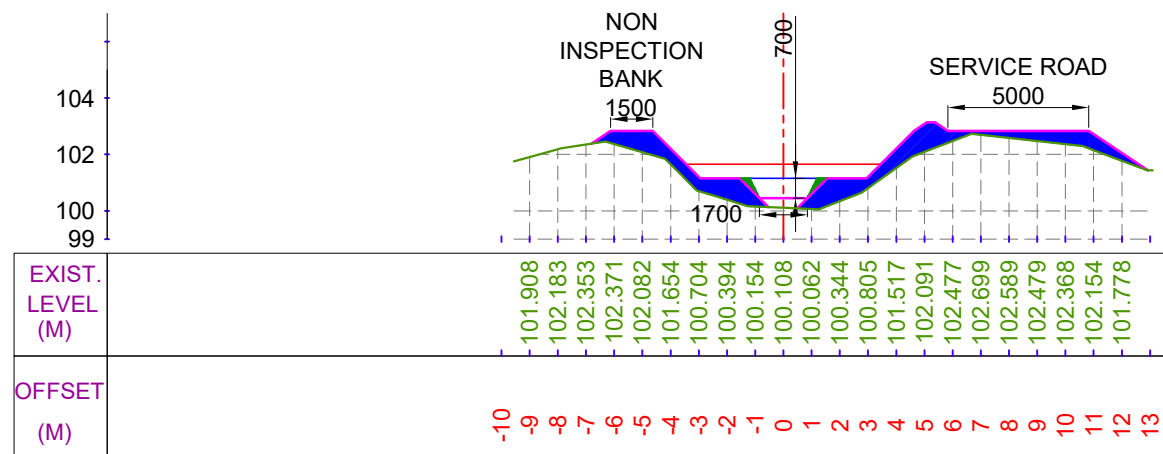
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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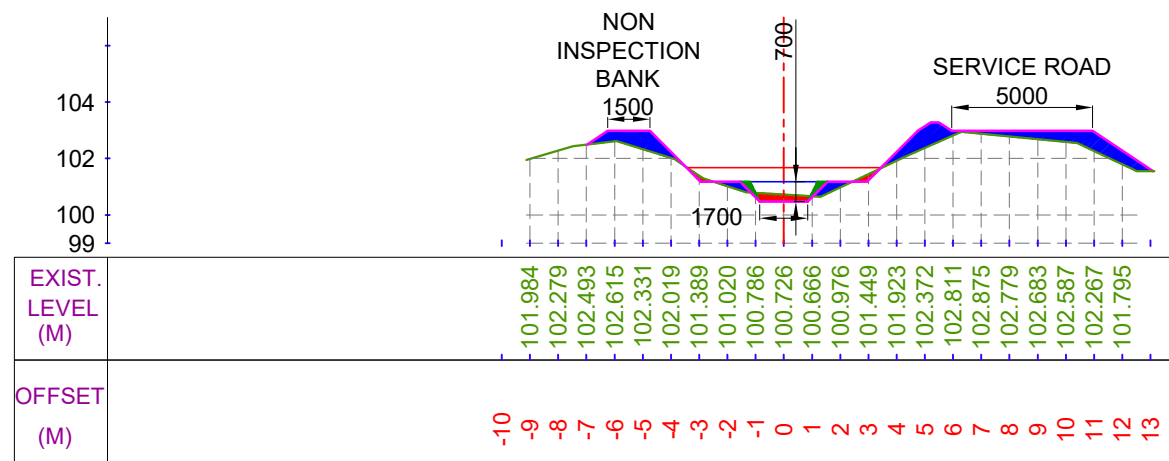
CUTTING AREA (SQ.M) = 4.162
FILLING AREA (SQ.M) = 4.585

CH. (KM):- 27+300
DESIGNED BED LEVEL = 100.500 M



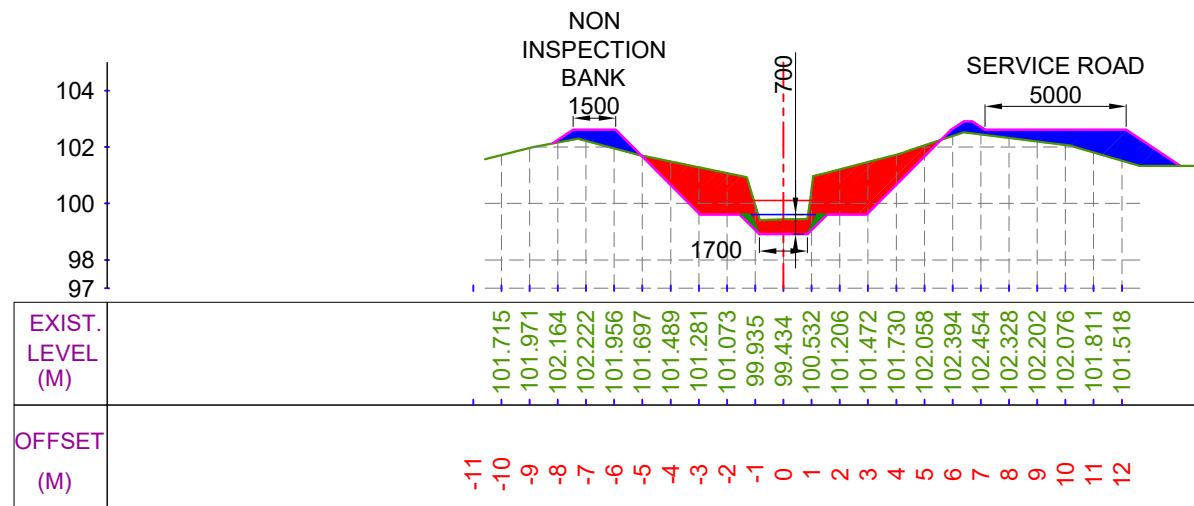
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 9.392

CH. (KM):- 27+500
DESIGNED BED LEVEL = 100.454 M



CUTTING AREA (SQ.M) = 0.665
FILLING AREA (SQ.M) = 5.276

CH. (KM):- 27+400
DESIGNED BED LEVEL = 100.477 M



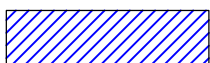
CUTTING AREA (SQ.M) = 11.101
FILLING AREA (SQ.M) = 5.563

CH. (KM):- 27+600
DESIGNED BED LEVEL = 98.912 M

LEGEND



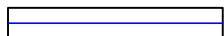
CUT AREA



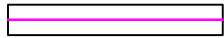
FILL AREA



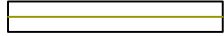
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

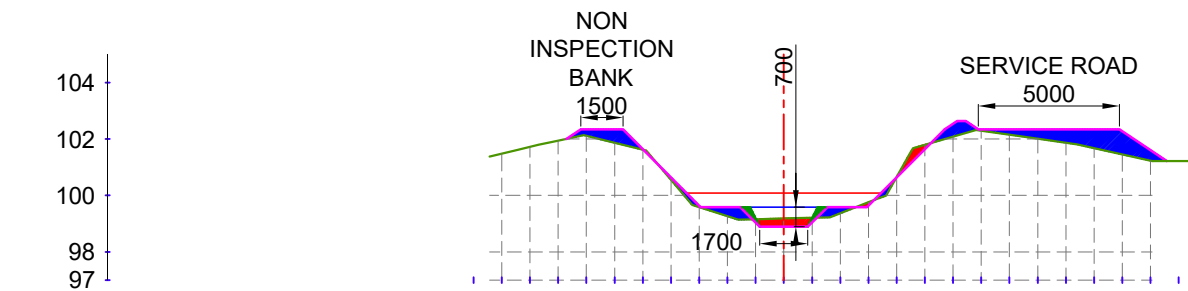
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

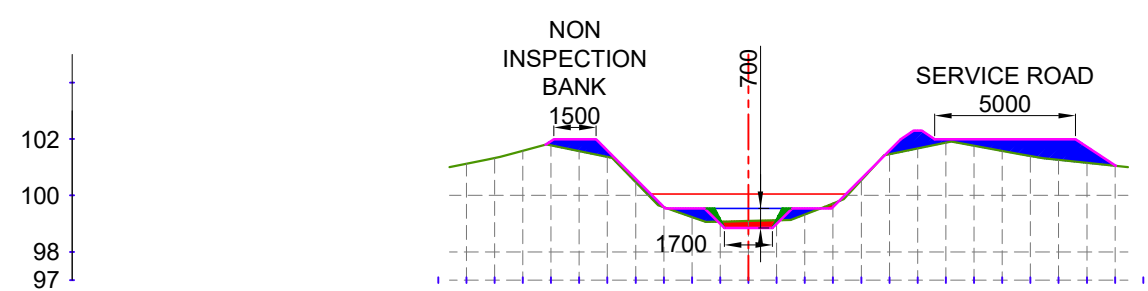
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EXIST. LEVEL (M)	101.482	101.720	101.940	102.110	101.866	101.621	100.553	99.587	99.264	99.157	99.183	99.209	99.369	99.754	100.659	101.798	102.088	102.297	102.153	102.010	101.866	101.676	101.455	101.233		
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 0.895
FILLING AREA (SQ.M) = 5.103

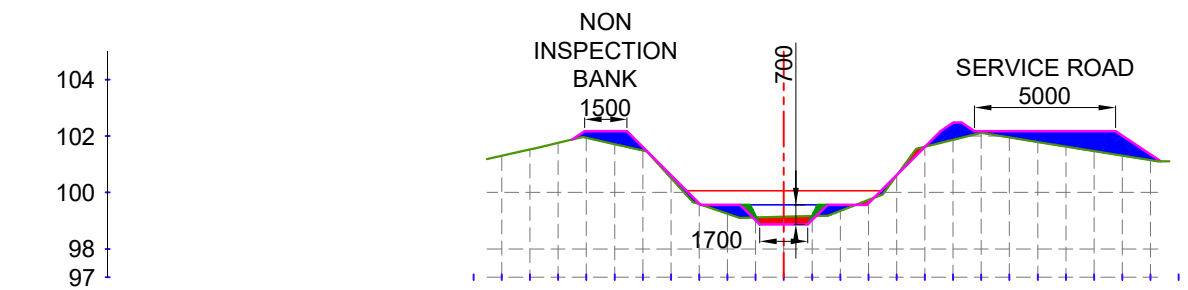
CH. (KM):- 27+700
DESIGNED BED LEVEL = 98.889 M



EXIST. LEVEL (M)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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CUTTING AREA (SQ.M) = 0.507
FILLING AREA (SQ.M) = 5.313

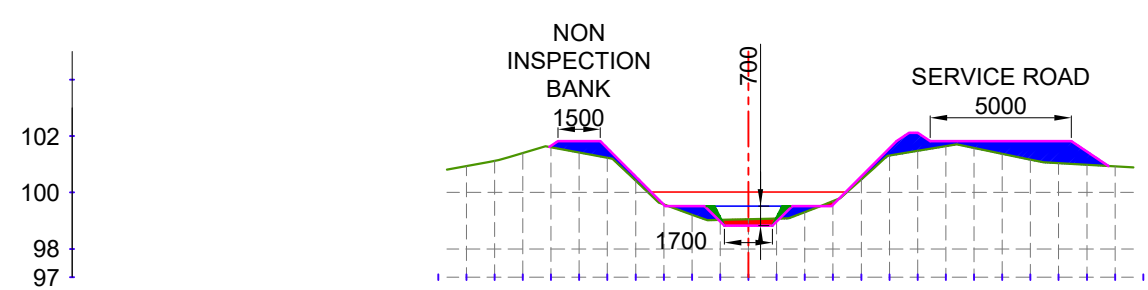
CH. (KM):- 27+900
DESIGNED BED LEVEL = 98.844 M



EXIST. LEVEL (M)	101.303	101.523	101.758	101.942	101.717	101.493	100.515	99.585	99.248	99.113	99.138	99.163	99.347	99.734	100.605	101.623	101.870	102.117	101.955	101.793	101.630	101.469	101.311	101.152		
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 0.664
FILLING AREA (SQ.M) = 5.271

CH. (KM):- 27+800
DESIGNED BED LEVEL = 98.866 M



EXIST. LEVEL (M)	100.938	101.123	101.403	101.608	101.422	101.235	100.427	99.583	99.218	99.027	99.049	99.072	99.304	99.694	100.461	101.306	101.473	101.641	101.577	101.370	101.163	101.038	100.983	100.928		
OFFSET (M)	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

CUTTING AREA (SQ.M) = 0.468
FILLING AREA (SQ.M) = 5.562

CH. (KM):- 28+000
DESIGNED BED LEVEL = 98.821 M

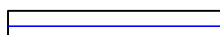
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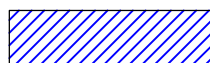
CUT AREA



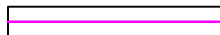
EXISTING BED LINE



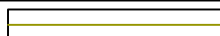
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

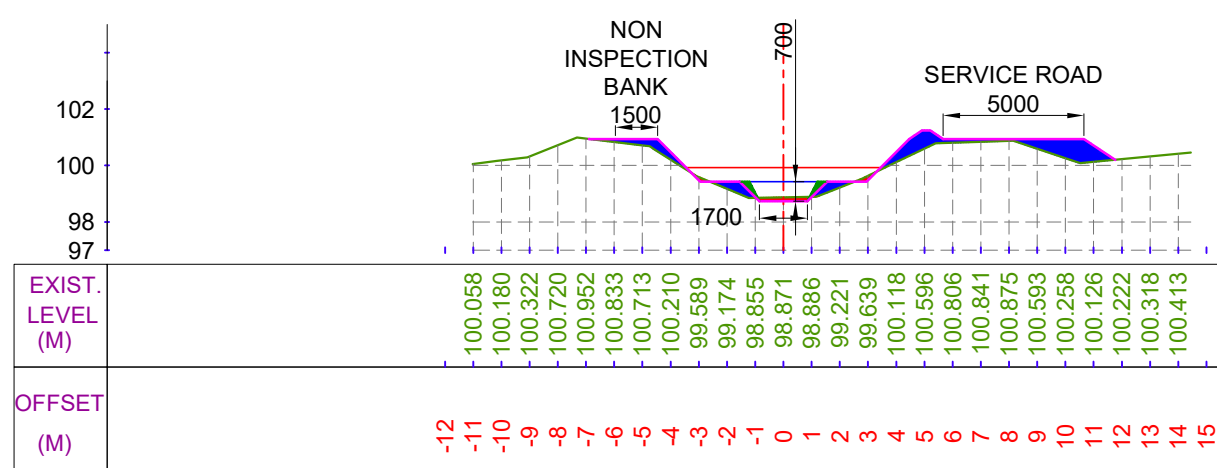
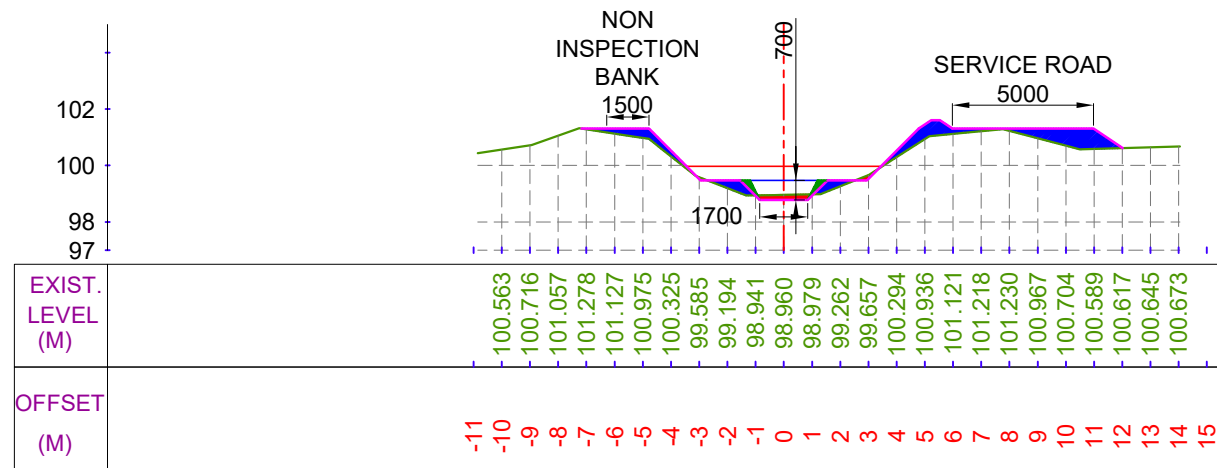
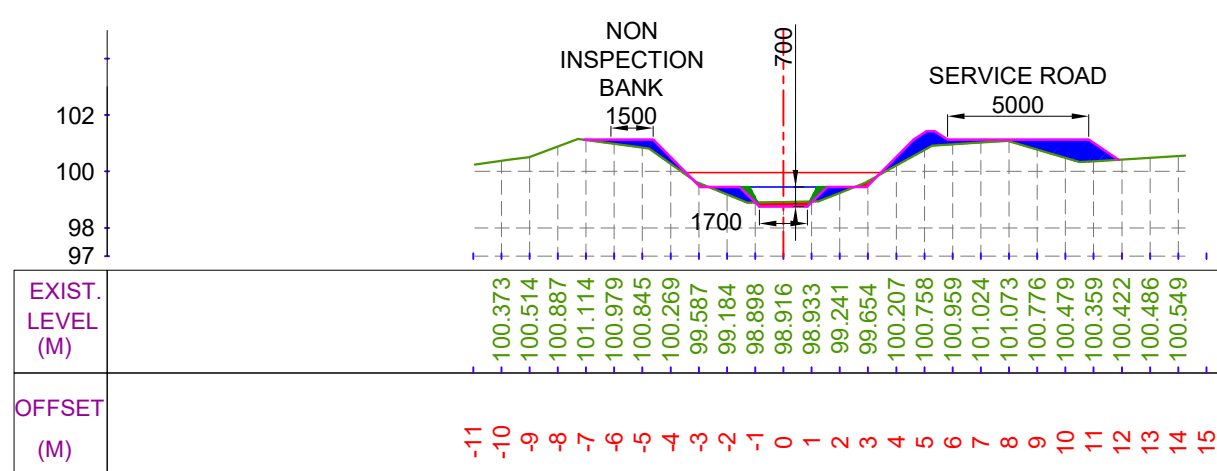
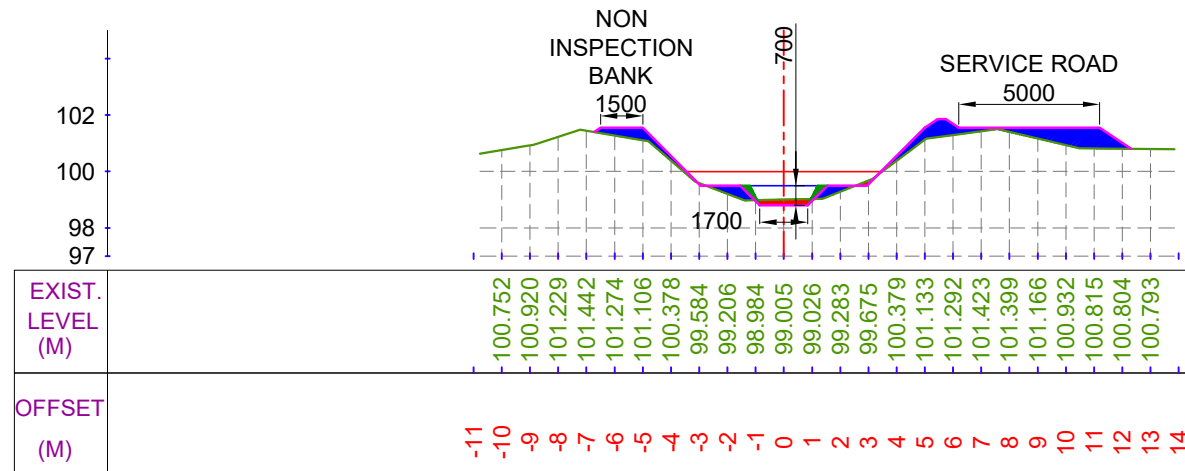
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

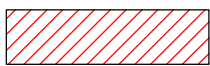
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

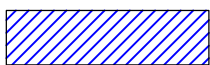
70 of 77



LEGEND



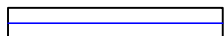
CUT AREA



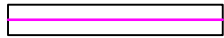
FILL AREA



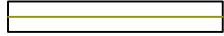
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

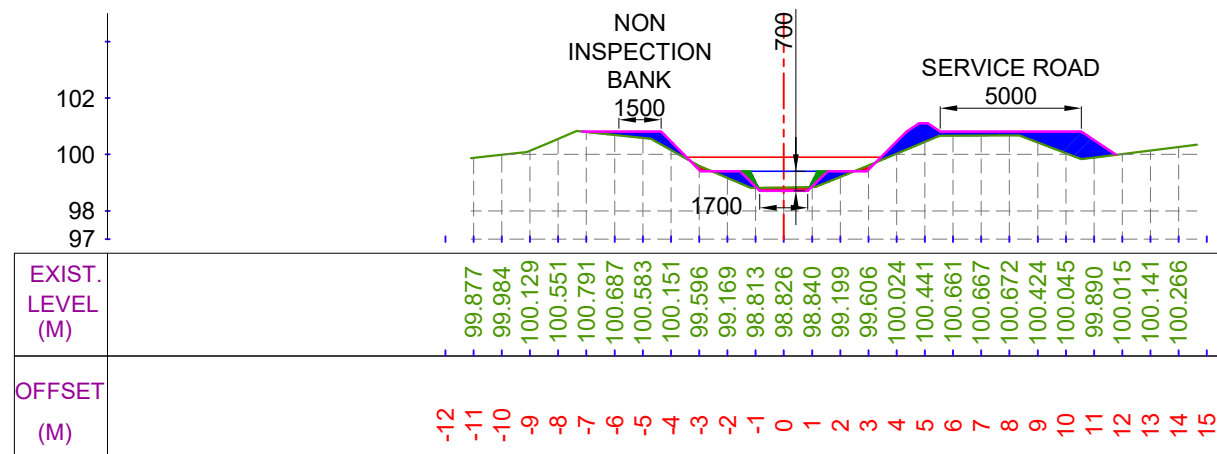
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

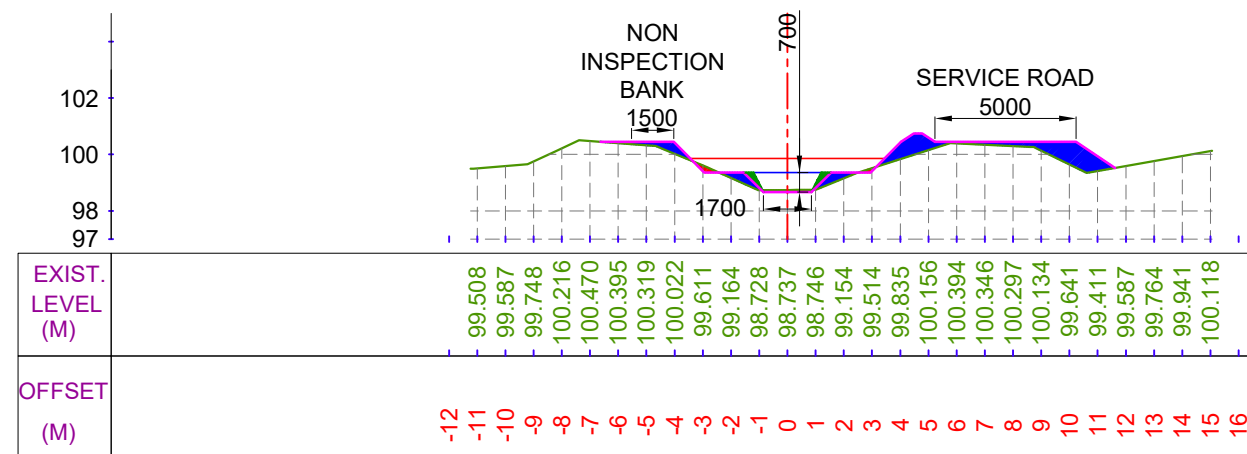
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

71 of 77



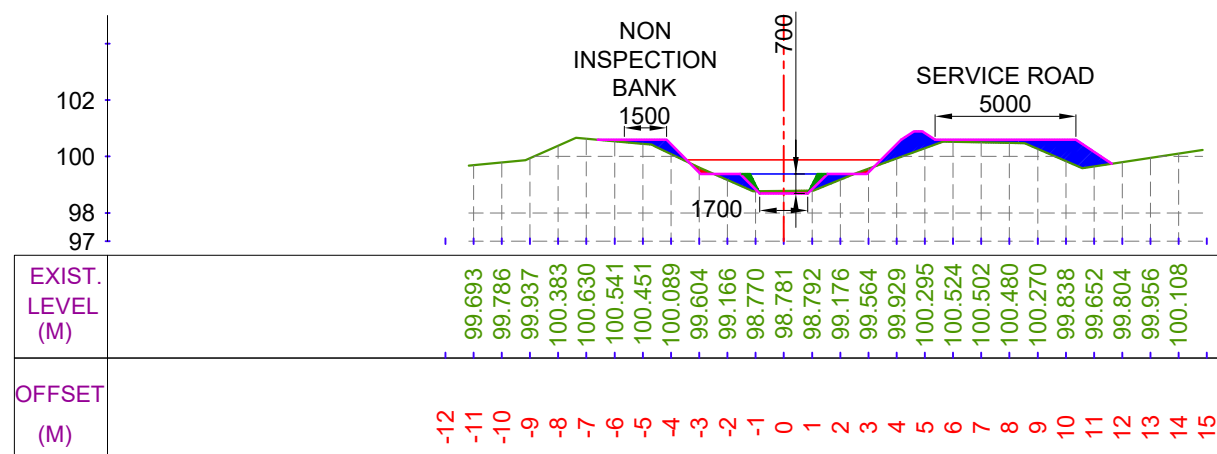
CUTTING AREA (SQ.M) = 0.337
FILLING AREA (SQ.M) = 4.598

CH. (KM):- 28+500
DESIGNED BED LEVEL = 98.707 M



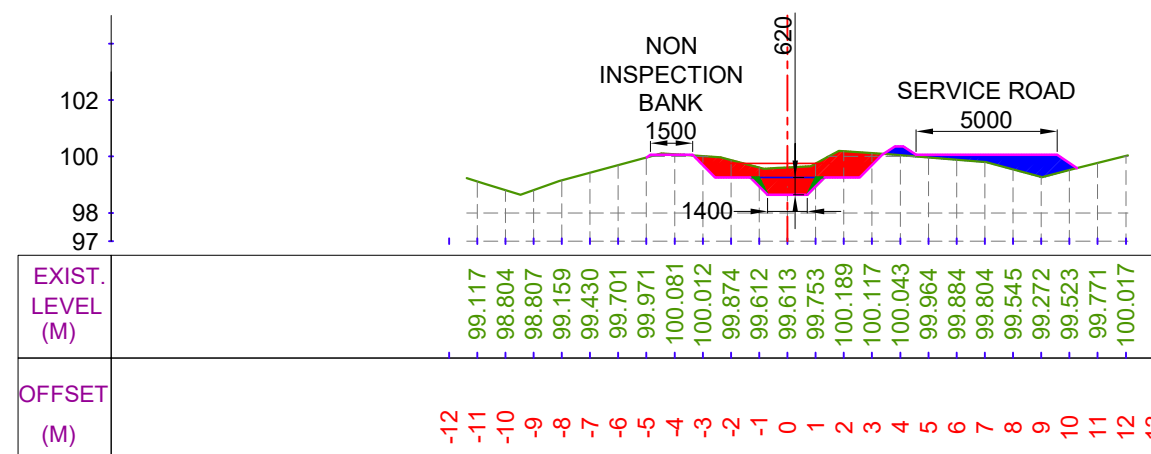
CUTTING AREA (SQ.M) = 0.274
FILLING AREA (SQ.M) = 4.036

CH. (KM):- 28+700
DESIGNED BED LEVEL = 98.662 M



CUTTING AREA (SQ.M) = 0.309
FILLING AREA (SQ.M) = 4.024

CH. (KM):- 28+600
DESIGNED BED LEVEL = 98.684 M



CUTTING AREA (SQ.M) = 4.588
FILLING AREA (SQ.M) = 2.302

CH. (KM):- 28+800
DESIGNED BED LEVEL = 98.639 M

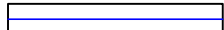
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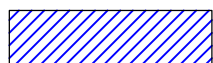
CUT AREA



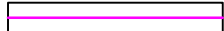
EXISTING BED LINE



F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

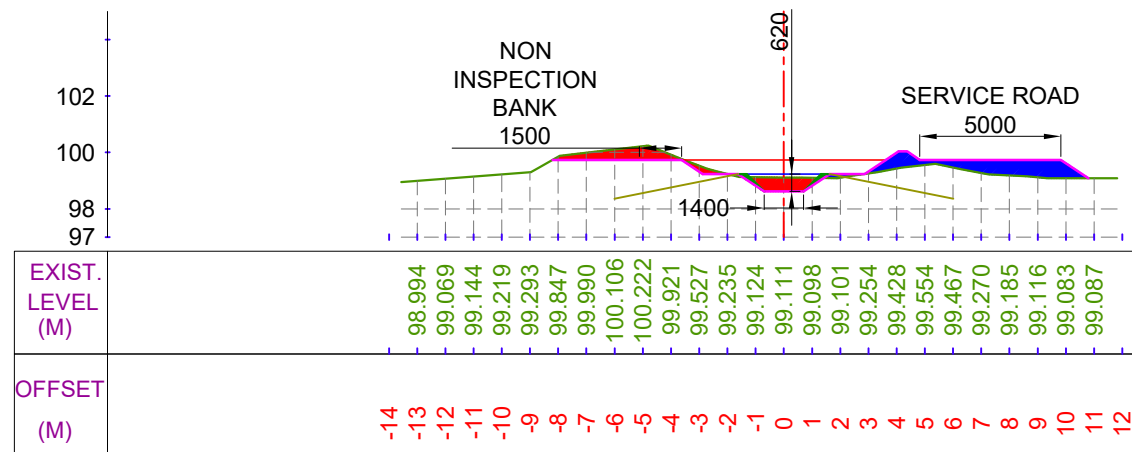
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

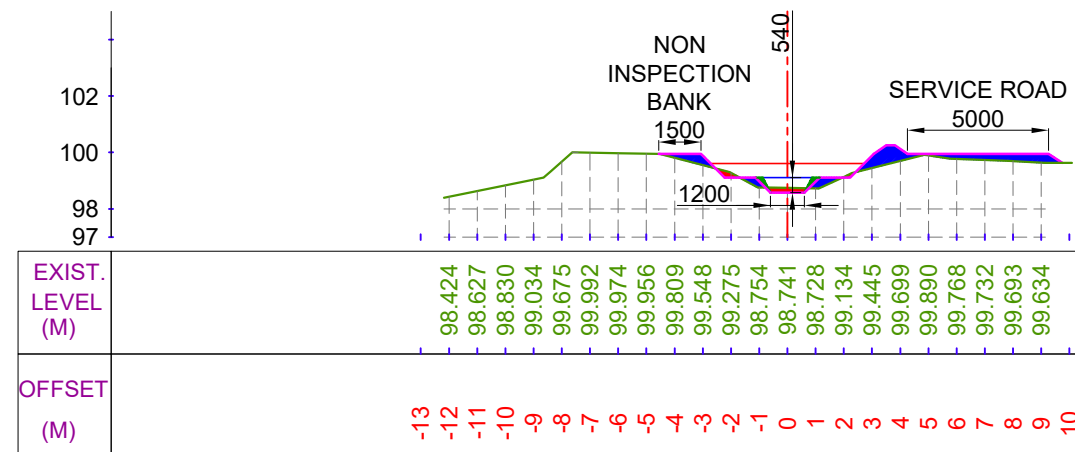
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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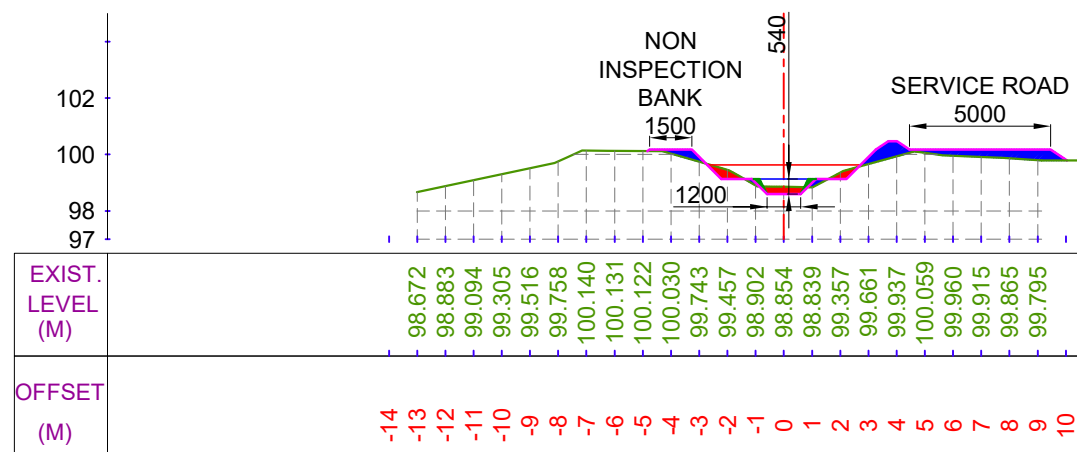
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FILLING AREA (SQ.M) = 3.398

CH. (KM):- 28+900
DESIGNED BED LEVEL = 98.616 M



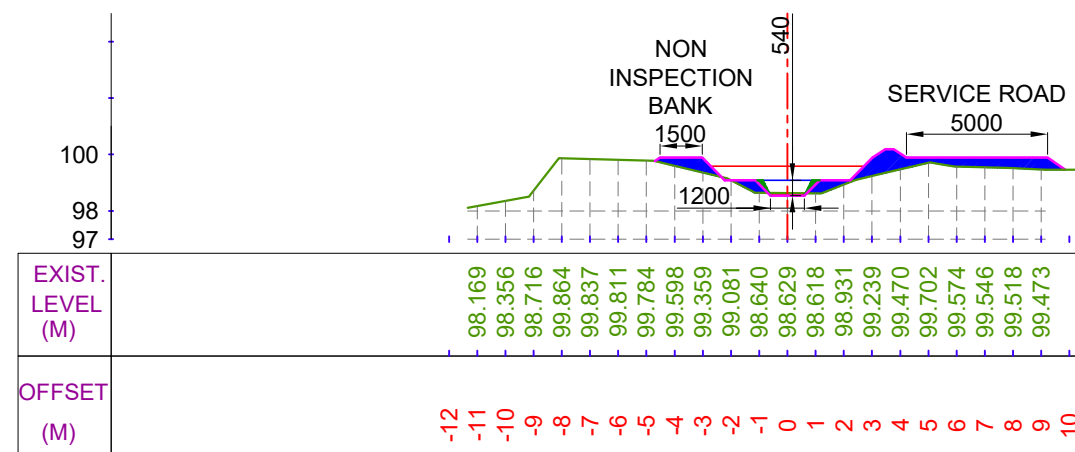
CUTTING AREA (SQ.M) = 0.356
FILLING AREA (SQ.M) = 2.633

CH. (KM):- 29+100
DESIGNED BED LEVEL = 98.570 M



CUTTING AREA (SQ.M) = 0.803
FILLING AREA (SQ.M) = 2.535

CH. (KM):- 29+000
DESIGNED BED LEVEL = 98.594 M



CUTTING AREA (SQ.M) = 0.117
FILLING AREA (SQ.M) = 4.280

CH. (KM):- 29+200
DESIGNED BED LEVEL = 98.547 M

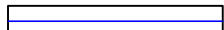
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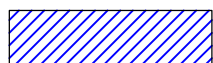
CUT AREA



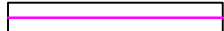
EXISTING BED LINE



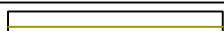
F.S.L.



FILL AREA



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

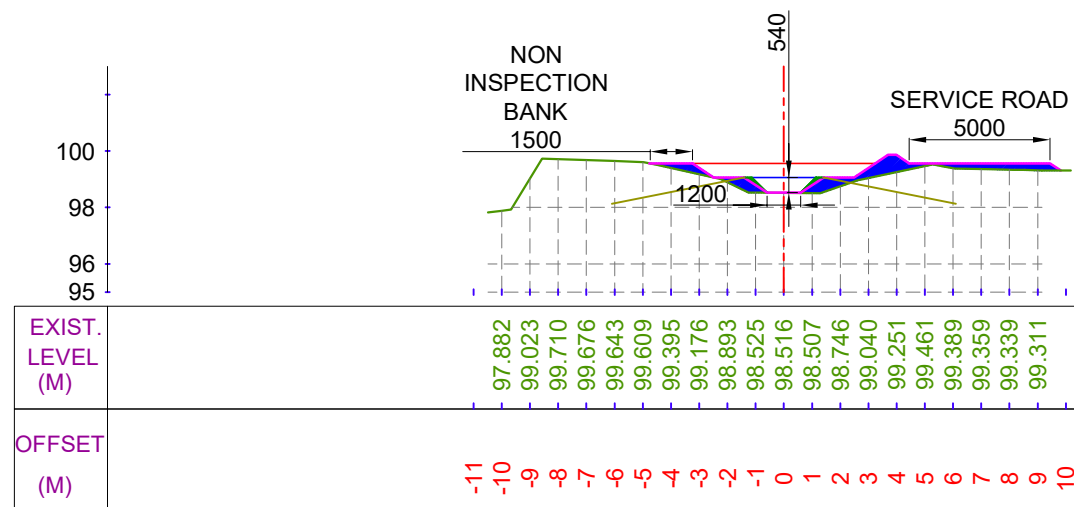
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

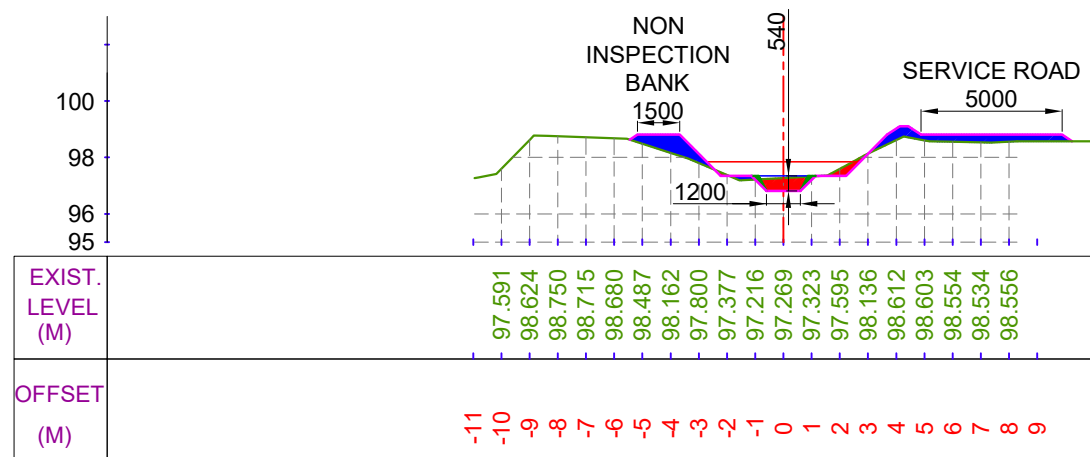
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

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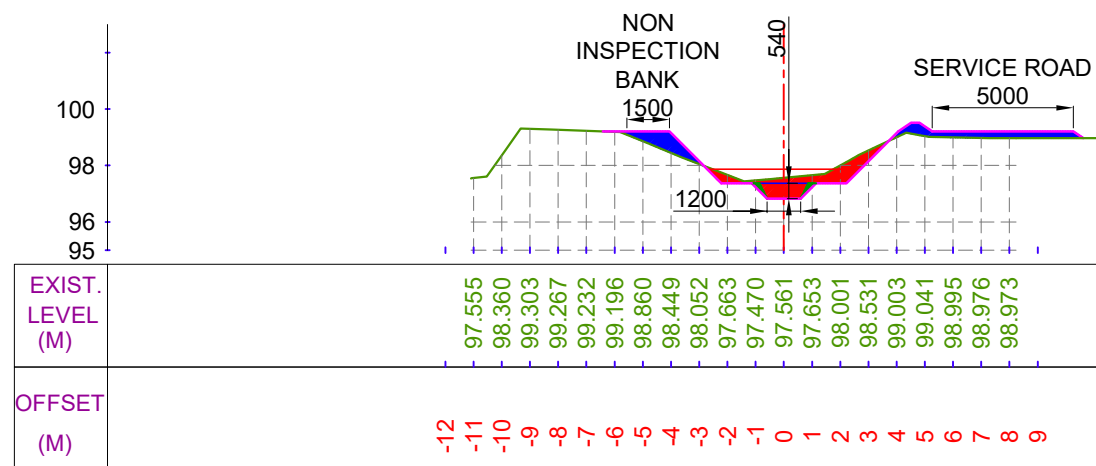
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 3.278

CH. (KM):- 29+300
DESIGNED BED LEVEL = 98.524 M



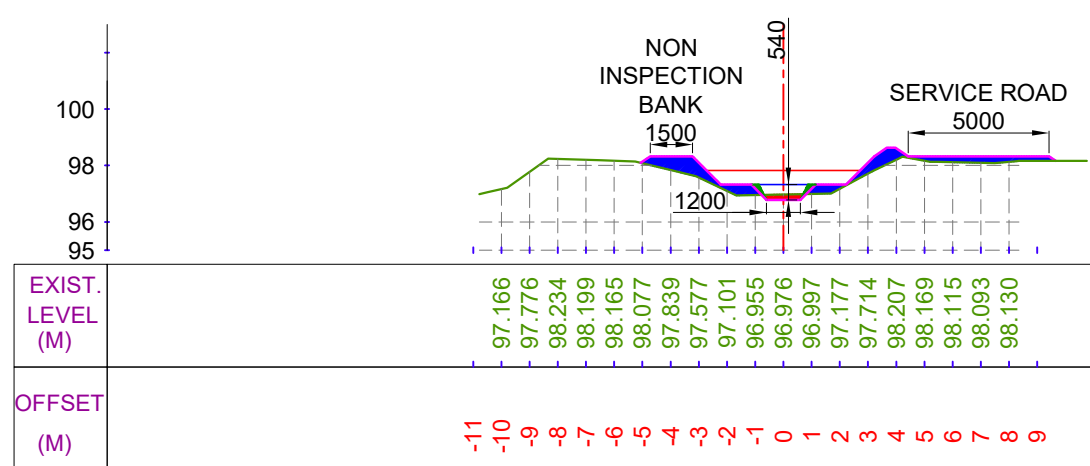
CUTTING AREA (SQ.M) = 0.967
FILLING AREA (SQ.M) = 3.176

CH. (KM):- 29+500
DESIGNED BED LEVEL = 96.807 M



CUTTING AREA (SQ.M) = 2.637
FILLING AREA (SQ.M) = 2.727

CH. (KM):- 29+400
DESIGNED BED LEVEL = 96.831 M



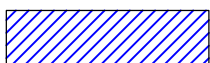
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FILLING AREA (SQ.M) = 3.599

CH. (KM):- 29+600
DESIGNED BED LEVEL = 96.784 M

LEGEND



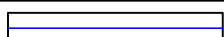
CUT AREA



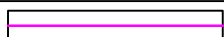
FILL AREA



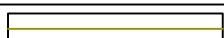
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

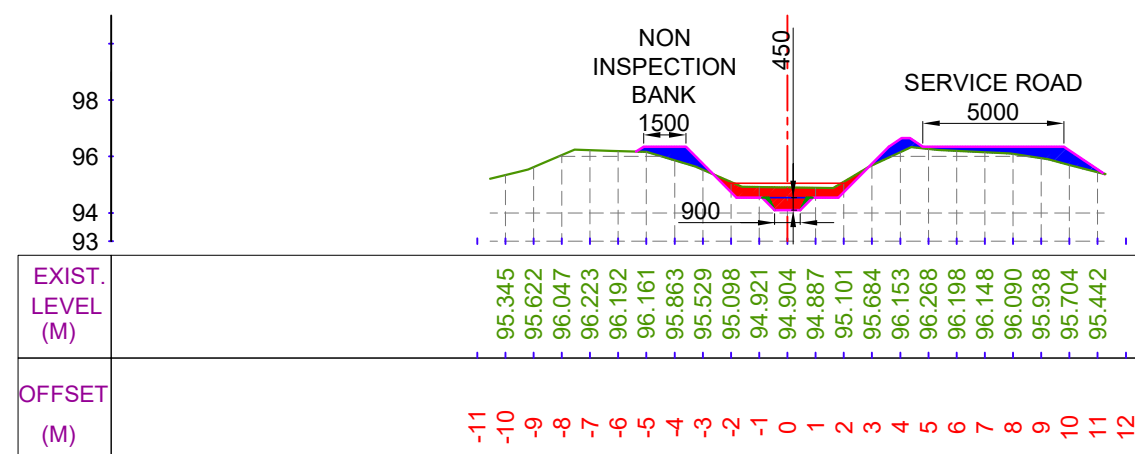
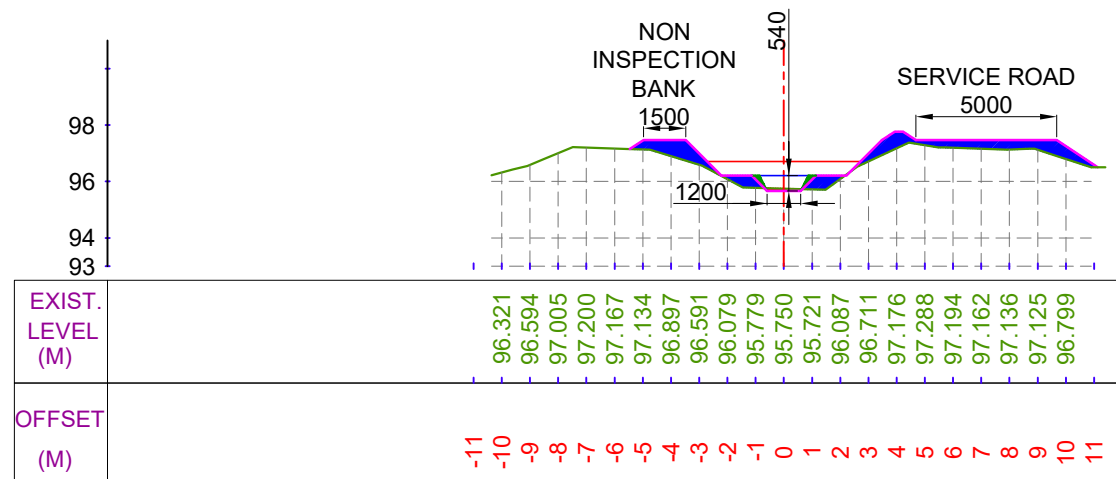
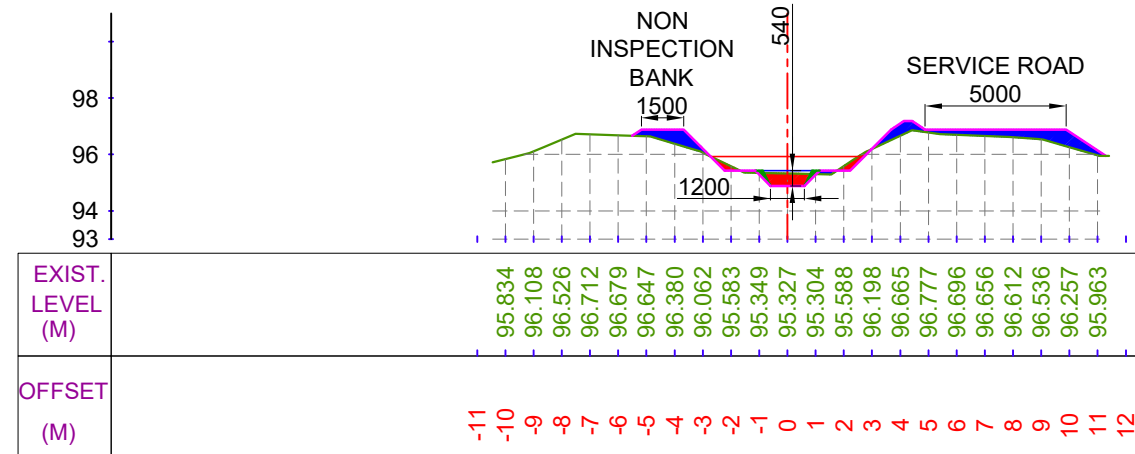
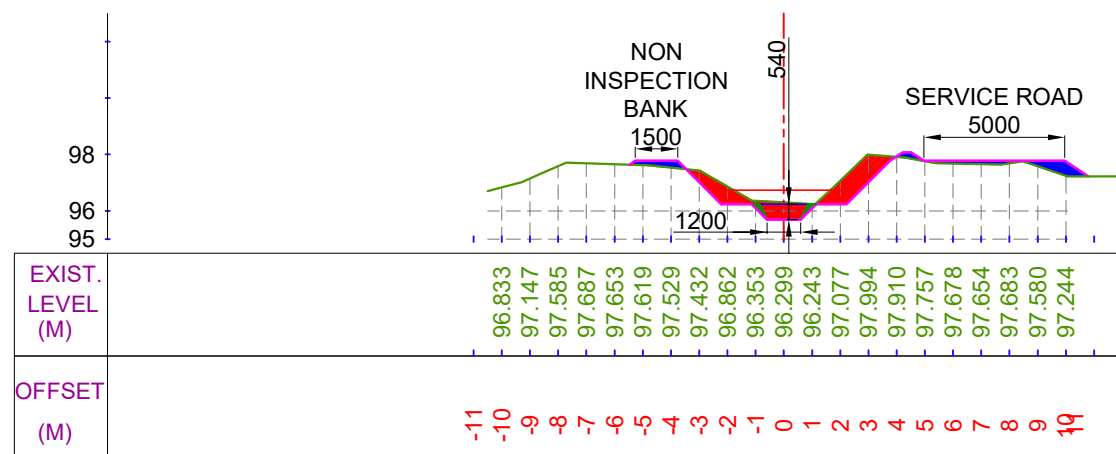
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L),
NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

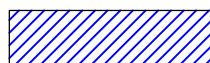
74 of 77



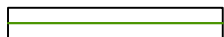
LEGEND



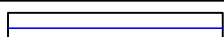
CUT AREA



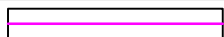
FILL AREA



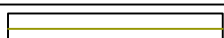
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

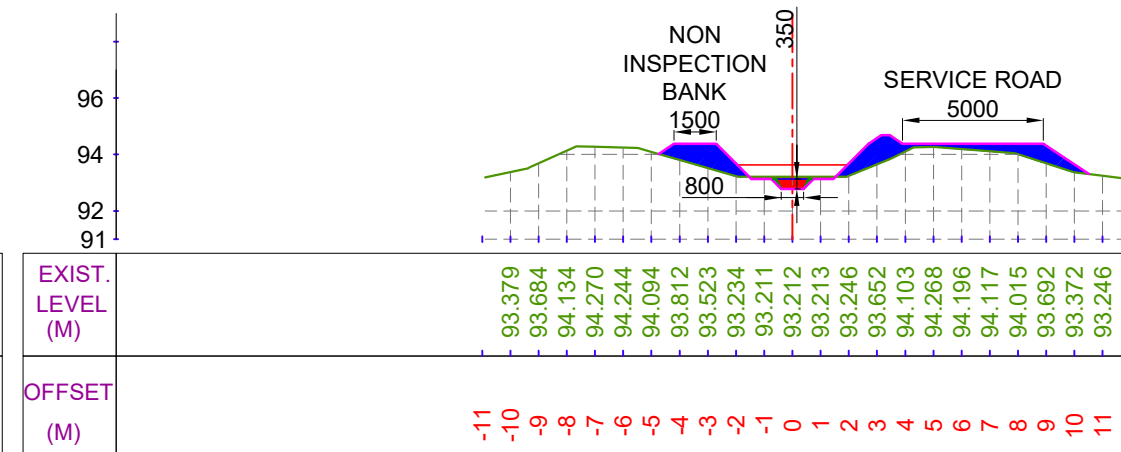
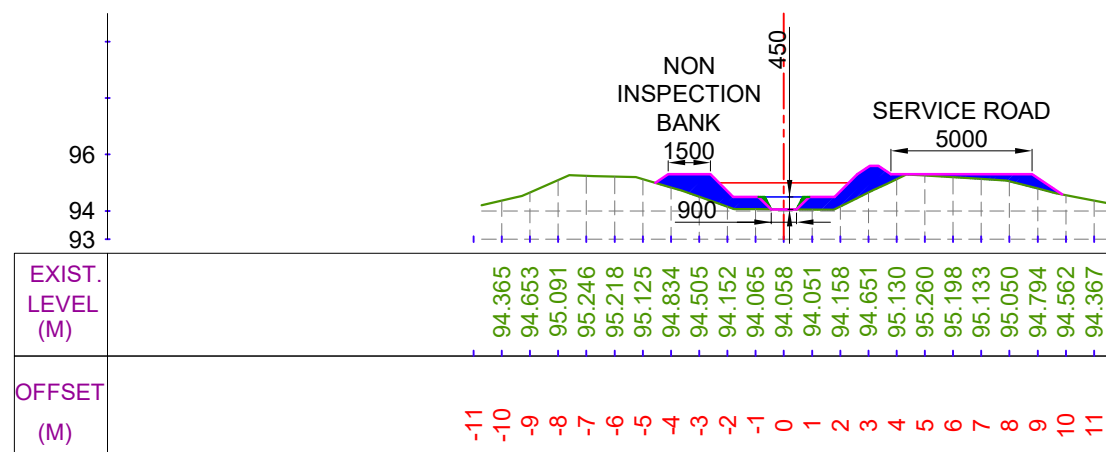
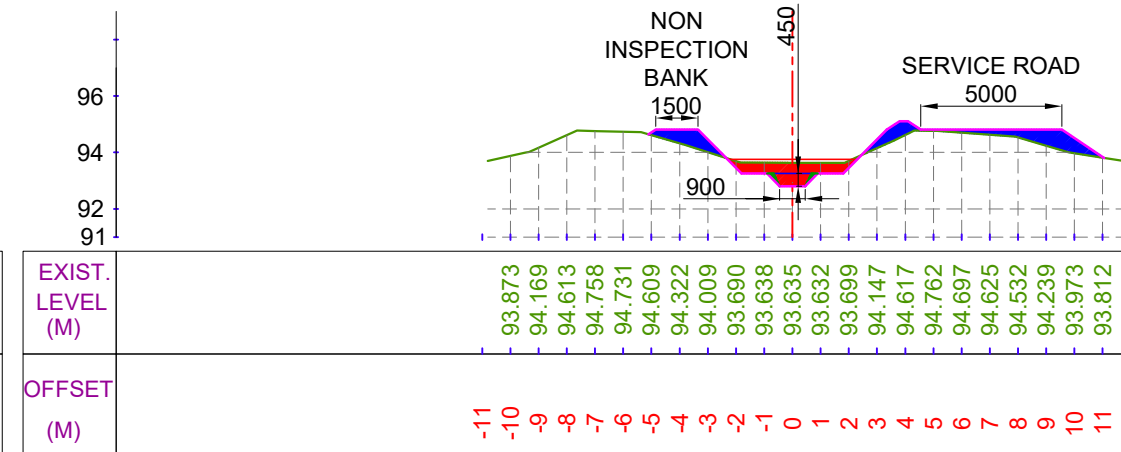
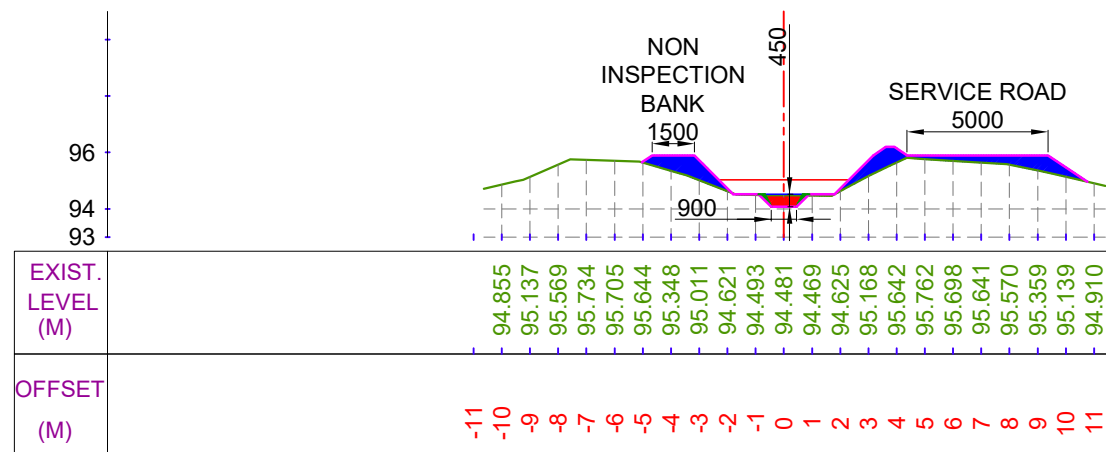
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

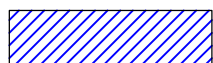
75 of 77



LEGEND



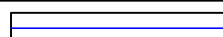
CUT AREA



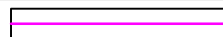
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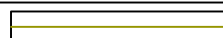
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

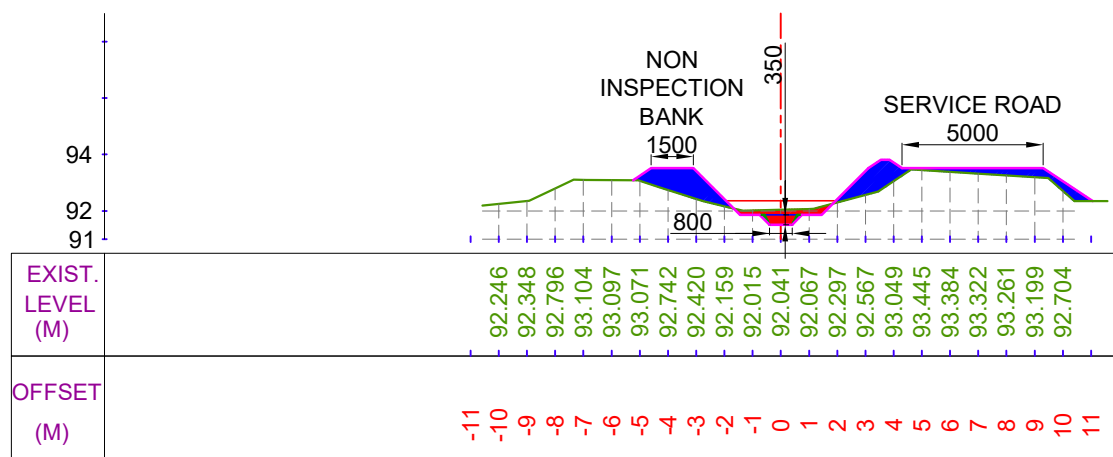
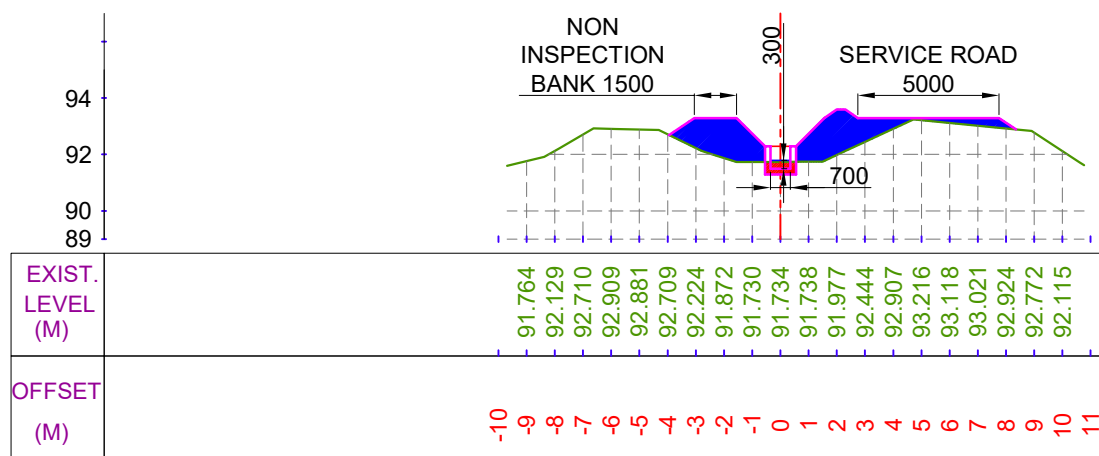
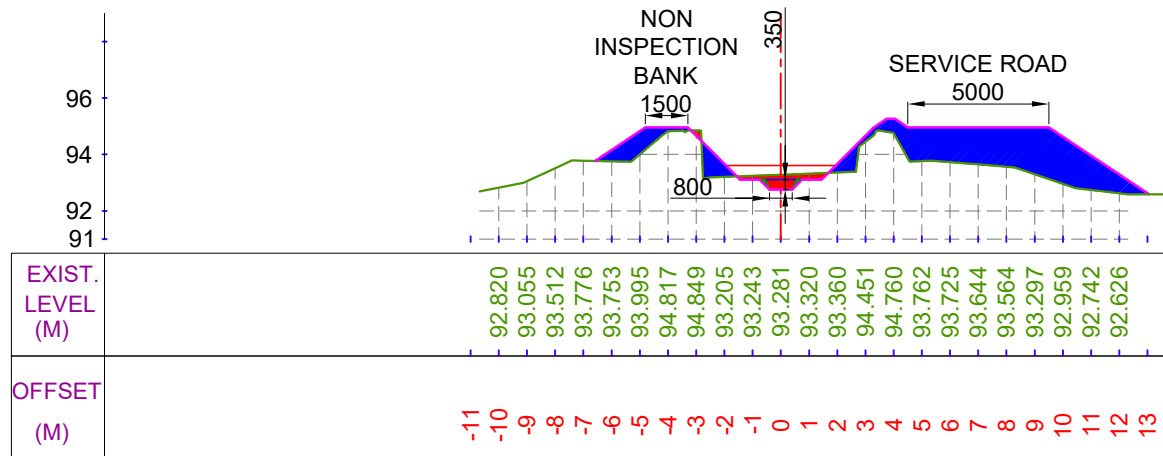
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

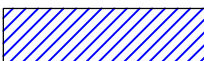
76 of 77



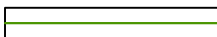
LEGEND



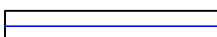
CUT AREA



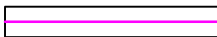
FILL AREA



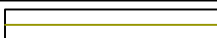
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

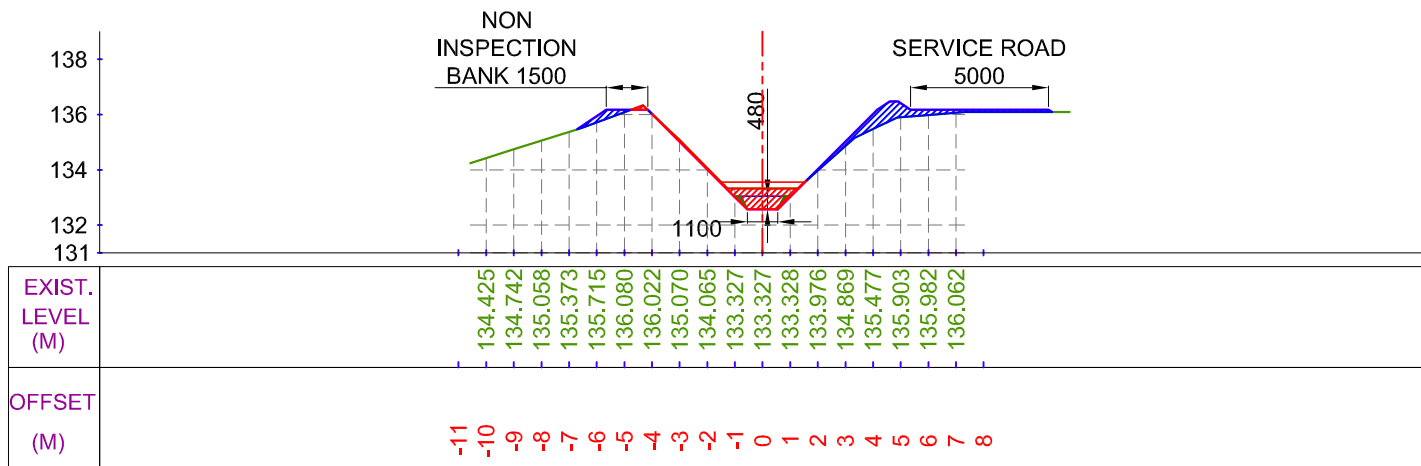
Drawing Title :-

X SECTION OF KOTWARA DY. (OFFTAKE FROM 96+810 KM. (L), NORTH KOEL RIGHT MAIN CANAL)

Drawing No. :-

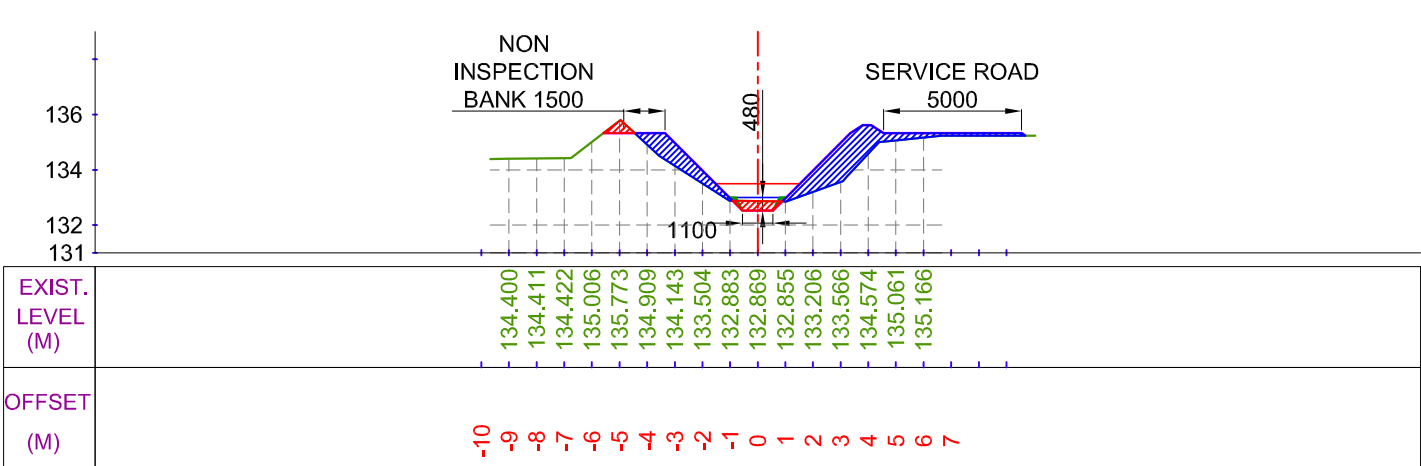
WAP/ INFRA/ NORTHKOEL/ BC/ R-35/ XSEC-

77 of 77



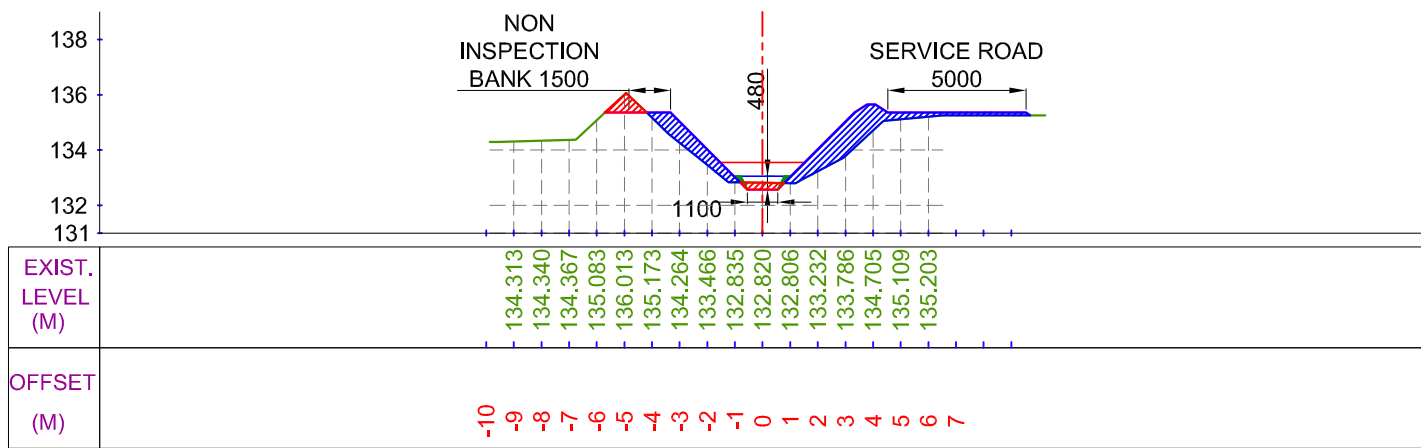
CUTTING AREA (SQ.M) = 1.552
FILLING AREA (SQ.M) = 2.088

CH. (KM):- 0+100
DESIGNED BED LEVEL = 132.572 M



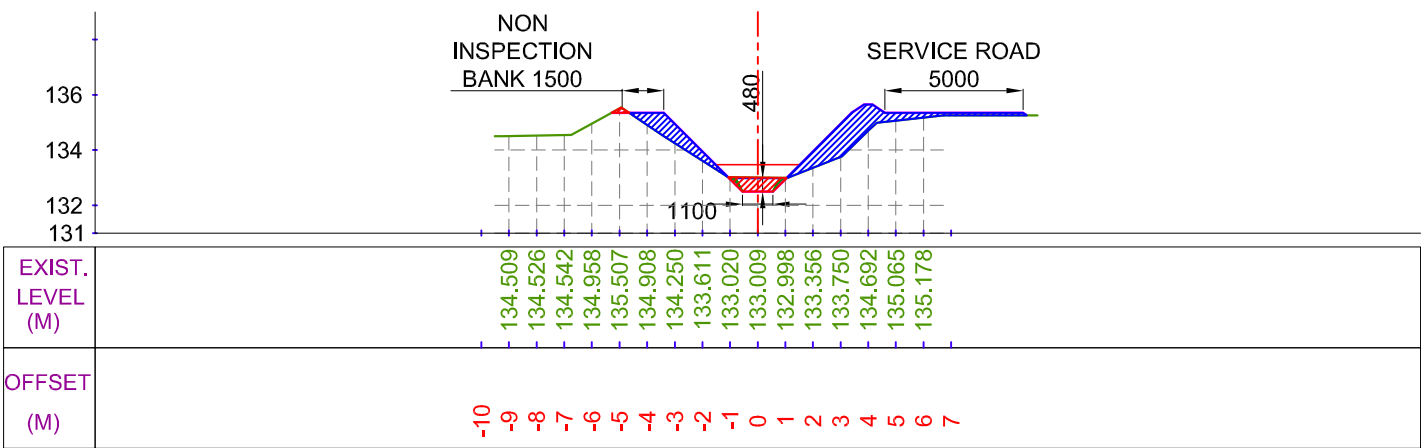
CUTTING AREA (SQ.M) = 0.777
FILLING AREA (SQ.M) = 5.716

CH. (KM):- 0+300
DESIGNED BED LEVEL = 132.522 M



CUTTING AREA (SQ.M) = 0.872
FILLING AREA (SQ.M) = 5.545

CH. (KM):- 0+200
DESIGNED BED LEVEL = 132.547 M



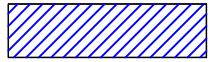
CUTTING AREA (SQ.M) = 0.887
FILLING AREA (SQ.M) = 4.928

CH. (KM):- 0+400
DESIGNED BED LEVEL = 132.497 M

LEGEND



CUT AREA



FILL AREA

	EXISTING BED LINE
	F.S.L.
	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

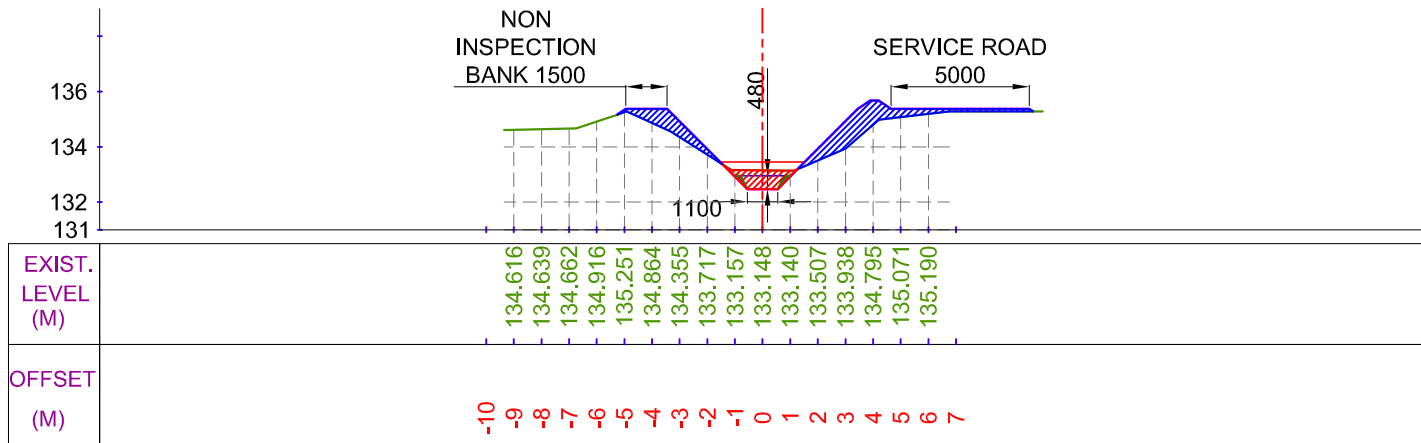
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

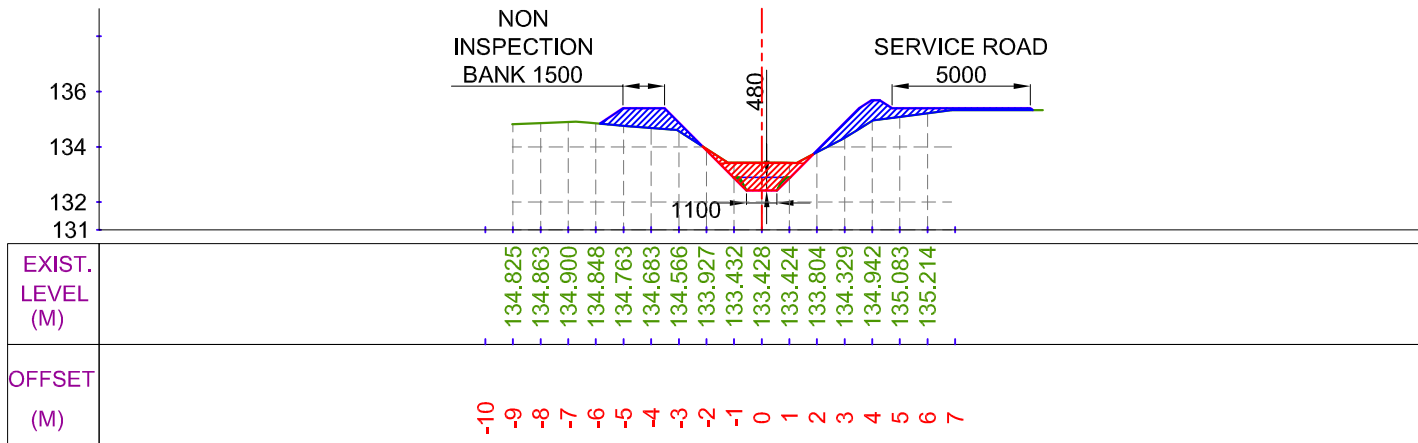
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC- 1 of 7



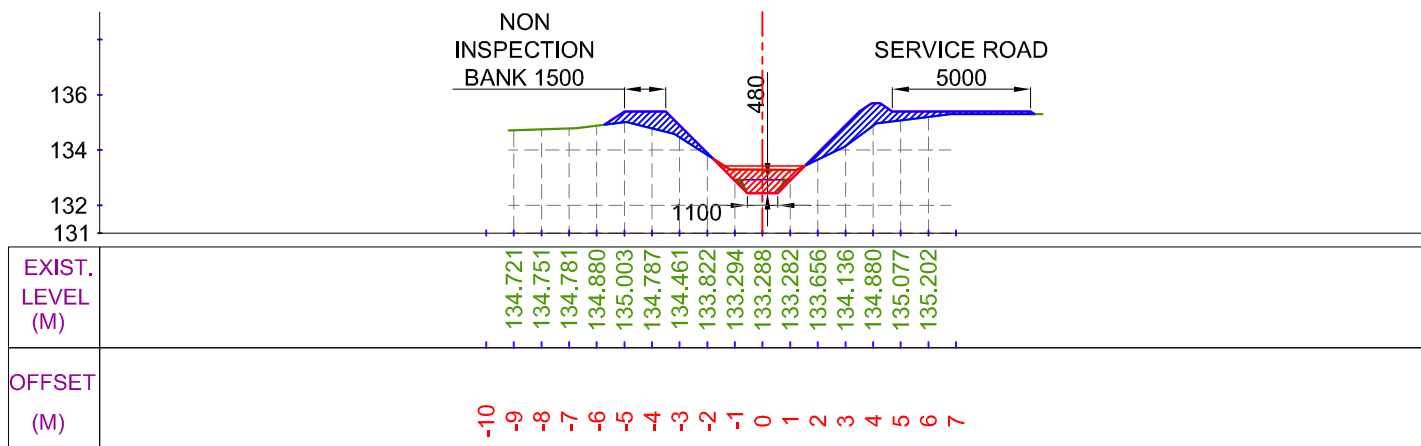
CUTTING AREA (SQ.M) = 1.214
FILLING AREA (SQ.M) = 4.353

CH. (KM):- 0+500
DESIGNED BED LEVEL = 132.472 M



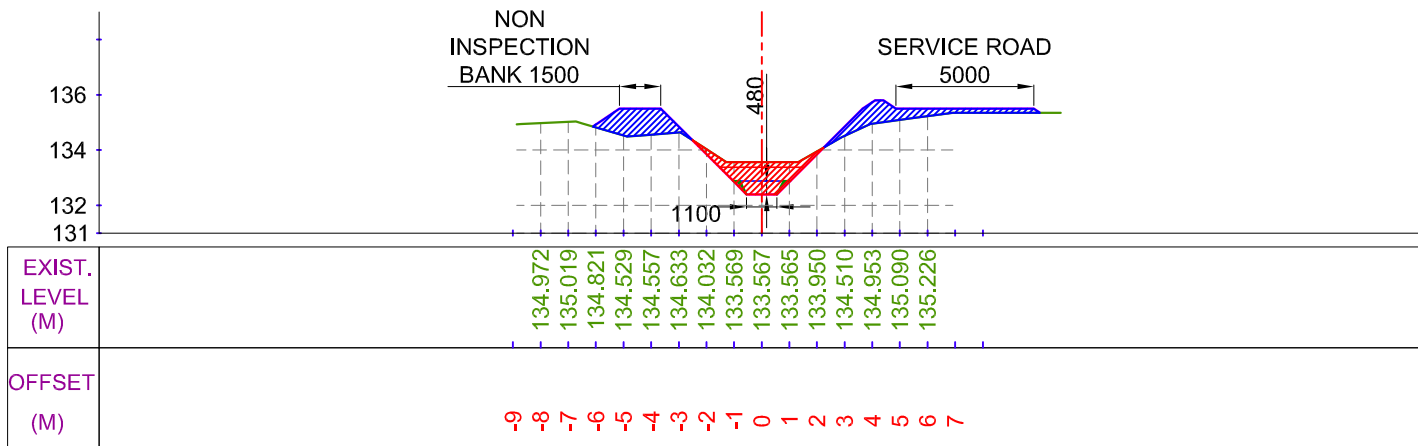
CUTTING AREA (SQ.M) = 2.260
FILLING AREA (SQ.M) = 3.754

CH. (KM):- 0+700
DESIGNED BED LEVEL = 132.422 M



CUTTING AREA (SQ.M) = 1.690
FILLING AREA (SQ.M) = 4.091

CH. (KM):- 0+600
DESIGNED BED LEVEL = 132.447 M



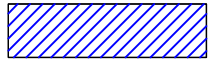
CUTTING AREA (SQ.M) = 2.935
FILLING AREA (SQ.M) = 4.635

CH. (KM):- 0+800
DESIGNED BED LEVEL = 132.397 M

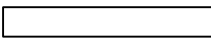
LEGEND



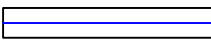
CUT AREA



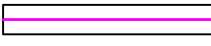
FILL AREA



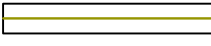
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

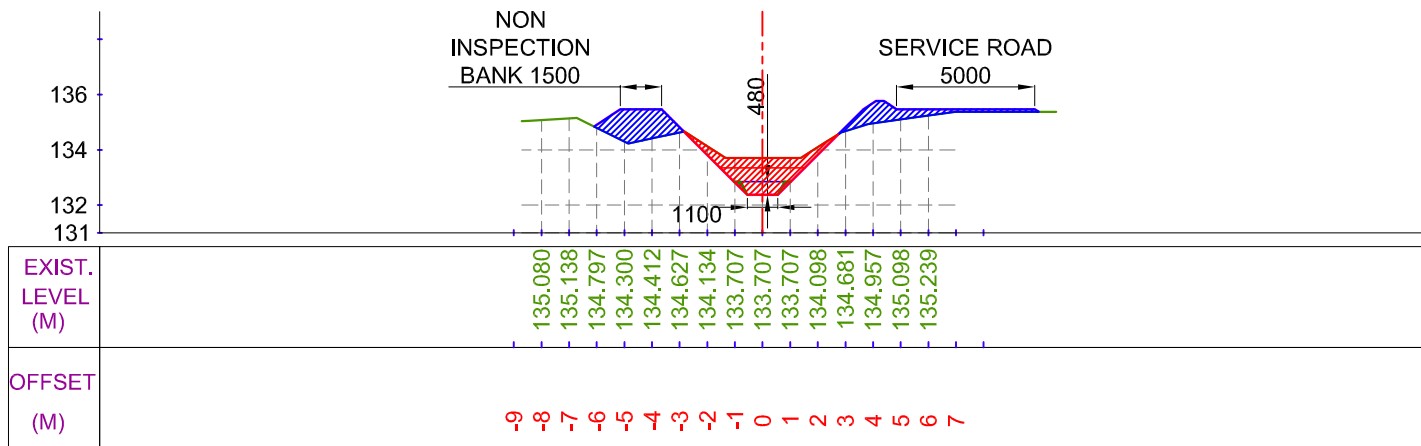
Drawing Title :-

X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

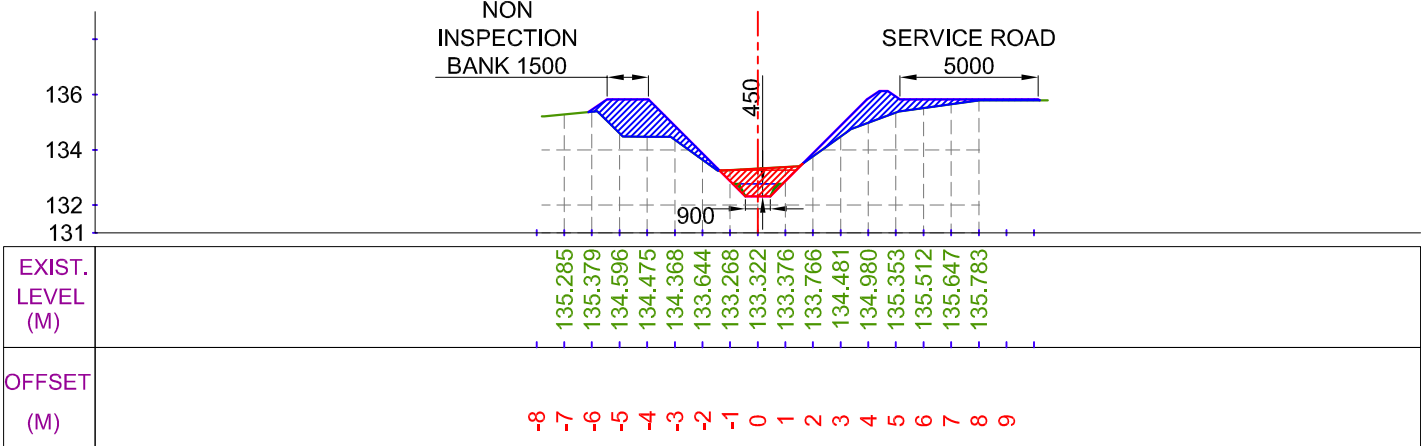
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC- 2 of 7

X SECTION OF GAMHARI MINOR



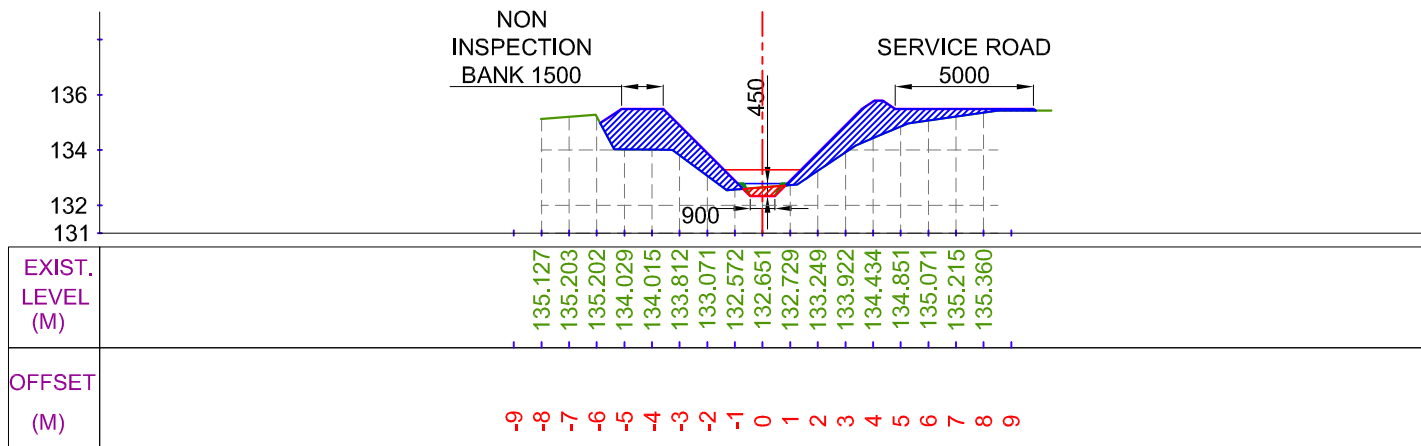
CUTTING AREA (SQ.M) = 3.738
FILLING AREA (SQ.M) = 4.470

CH. (KM):- 0+900
DESIGNED BED LEVEL = 132.372 M



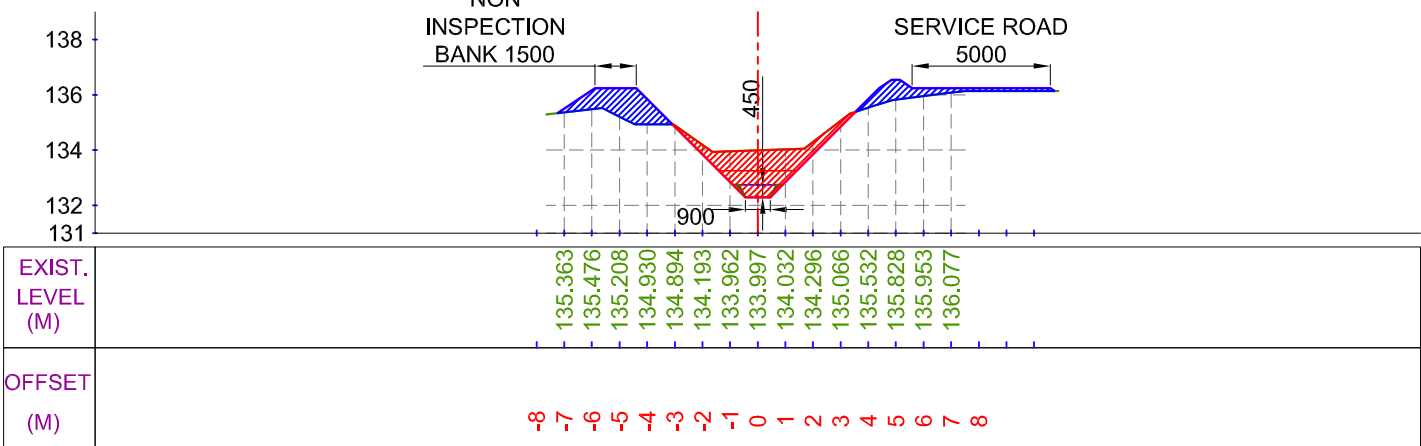
CUTTING AREA (SQ.M) = 1.908
FILLING AREA (SQ.M) = 5.902

CH. (KM):- 1+100
DESIGNED BED LEVEL = 132.322 M



CUTTING AREA (SQ.M) = 0.378
FILLING AREA (SQ.M) = 9.917

CH. (KM):- 1+000
DESIGNED BED LEVEL = 132.341 M



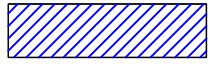
CUTTING AREA (SQ.M) = 5.083
FILLING AREA (SQ.M) = 4.525

CH. (KM):- 1+200
DESIGNED BED LEVEL = 132.297 M

LEGEND



CUT AREA



FILL AREA

	EXISTING BED LINE
	F.S.L.
	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

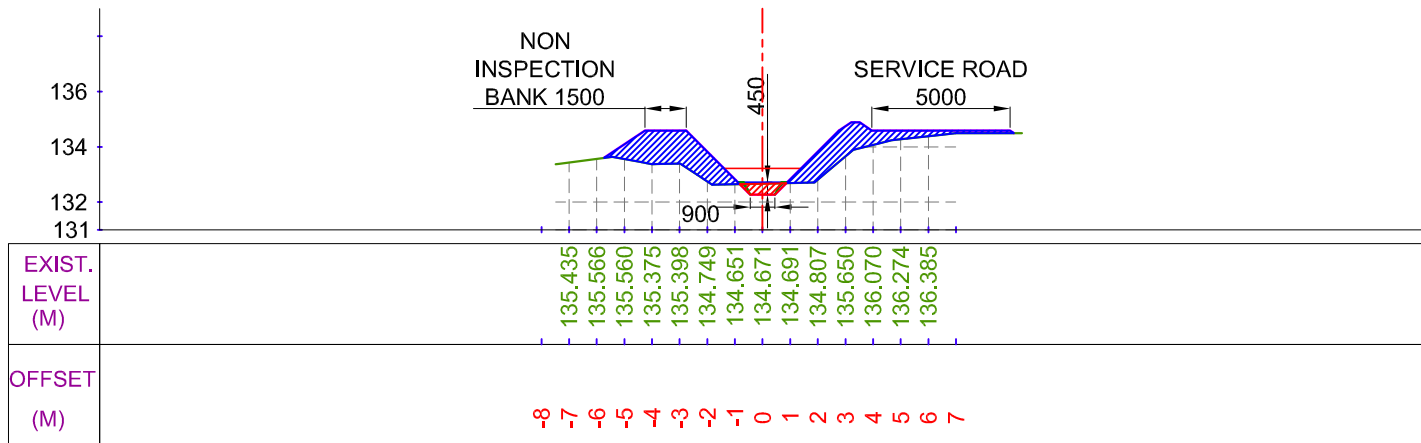
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

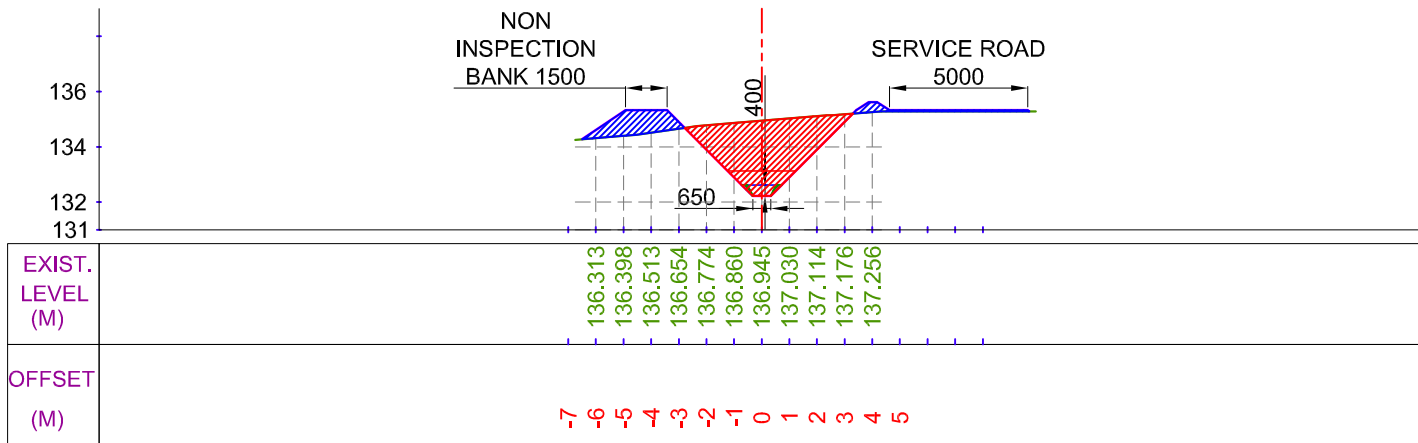
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC- 3 of 7



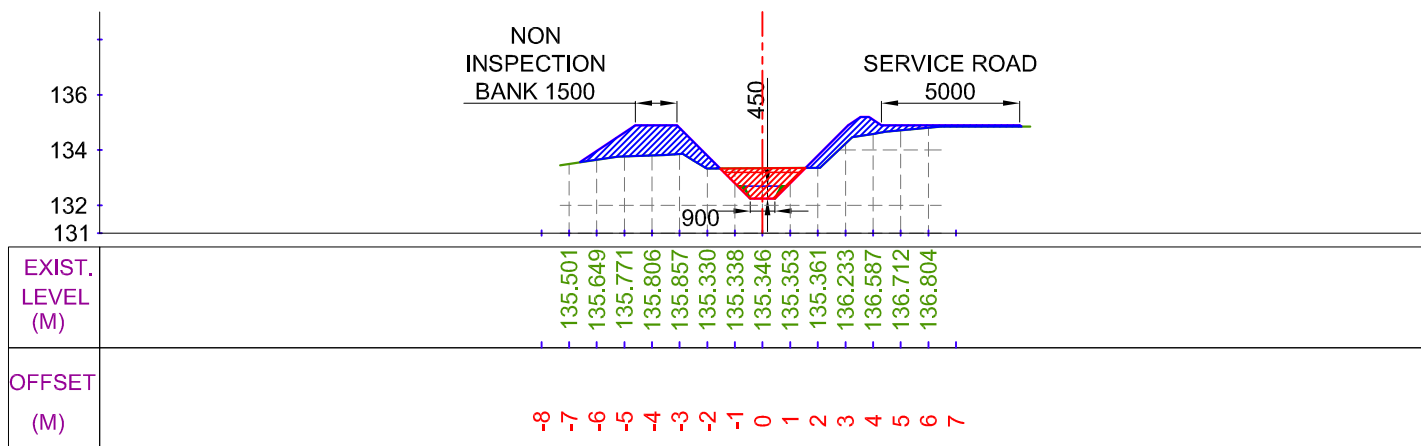
CUTTING AREA (SQ.M) = 0.518
FILLING AREA (SQ.M) = 7.739

CH. (KM):- 1+300
DESIGNED BED LEVEL = 132.272 M



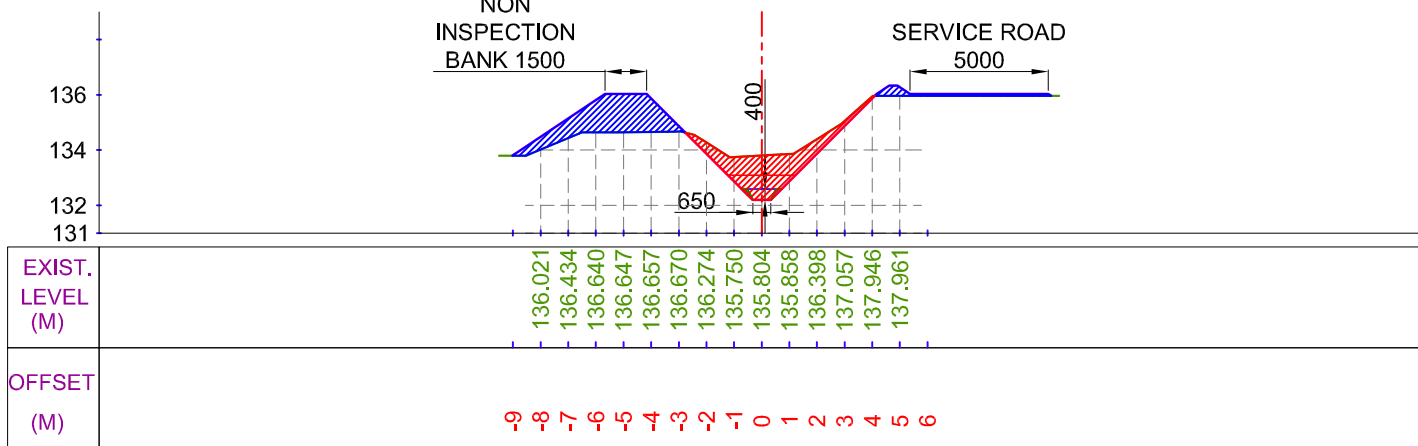
CUTTING AREA (SQ.M) = 9.225
FILLING AREA (SQ.M) = 2.708

CH. (KM):- 1+500
DESIGNED BED LEVEL = 132.222 M



CUTTING AREA (SQ.M) = 2.196
FILLING AREA (SQ.M) = 5.395

CH. (KM):- 1+400
DESIGNED BED LEVEL = 132.247 M



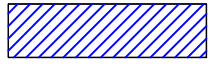
CUTTING AREA (SQ.M) = 4.732
FILLING AREA (SQ.M) = 5.921

CH. (KM):- 1+600
DESIGNED BED LEVEL = 132.196 M

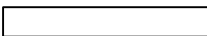
LEGEND



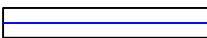
CUT AREA



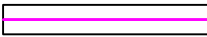
FILL AREA



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

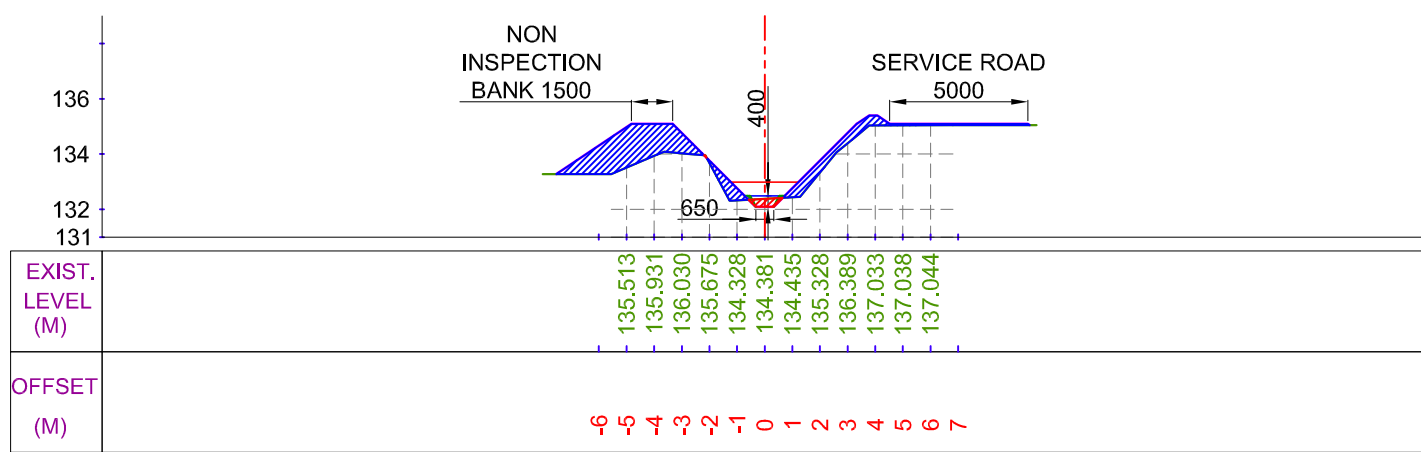
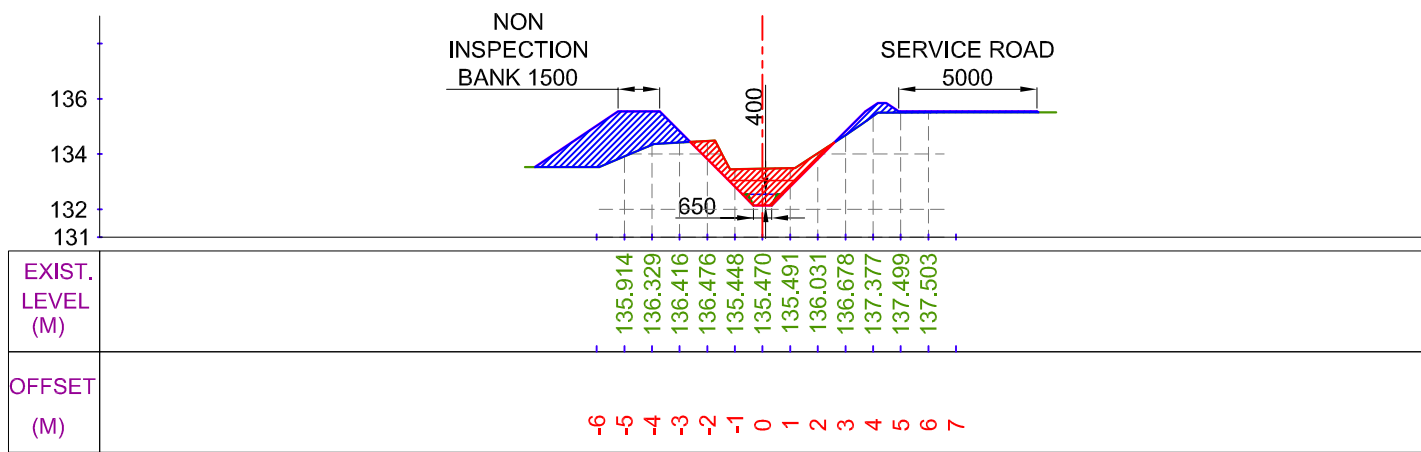
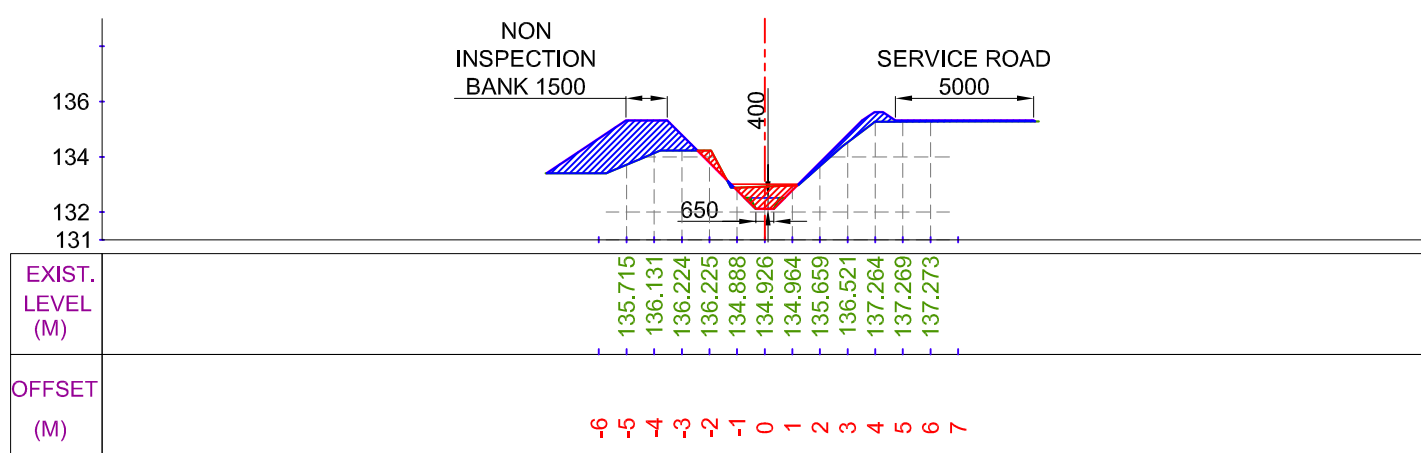
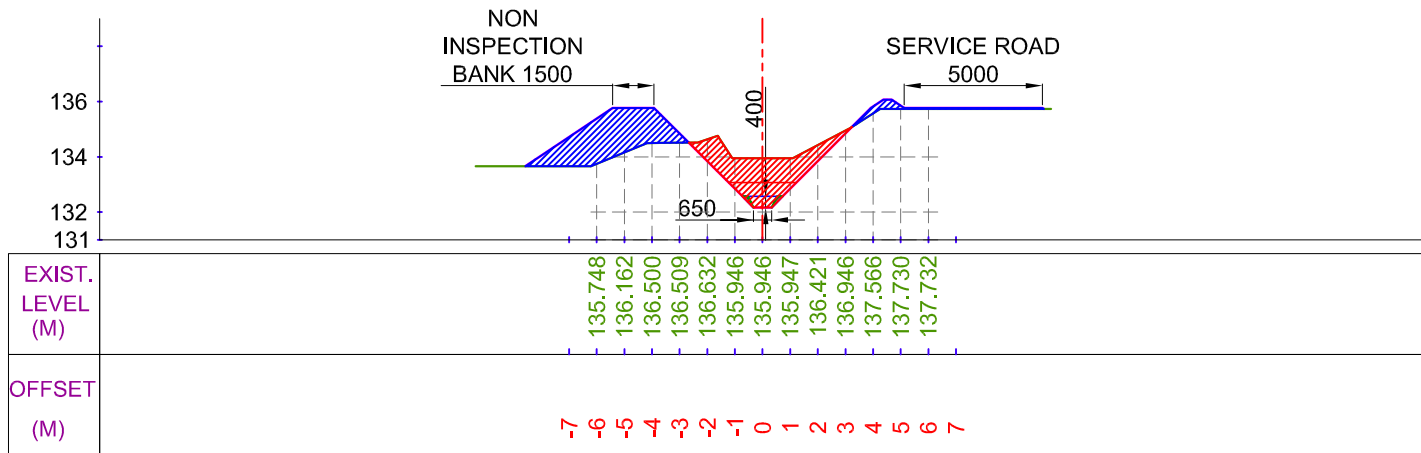
Drawing Title :-

X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC- 4 of 7

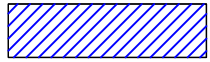
X SECTION OF GAMHARI MINOR



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

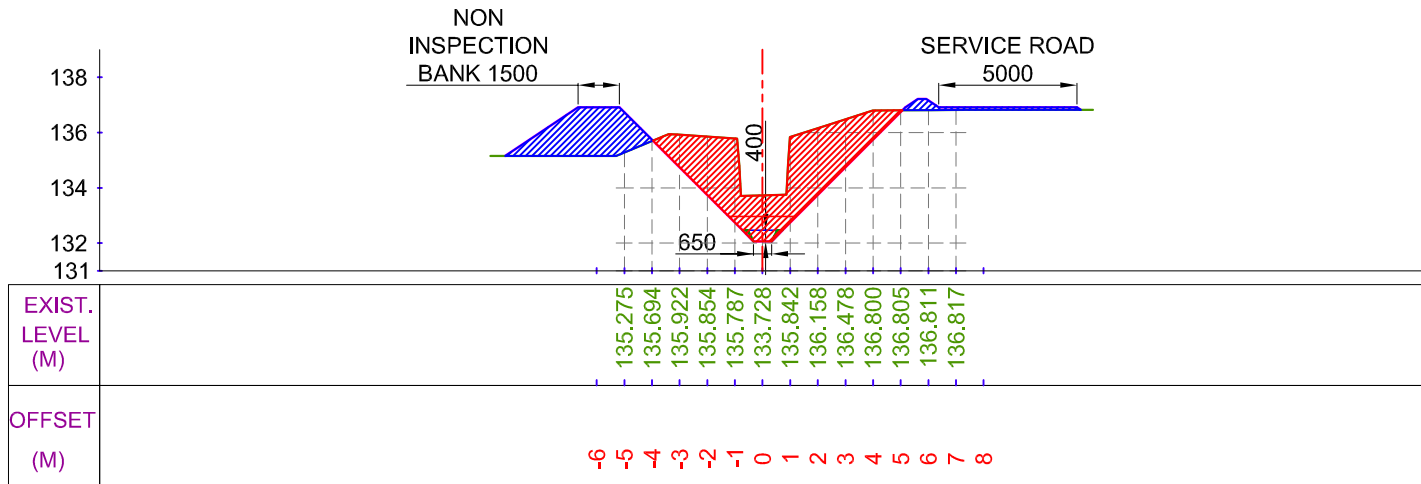
Drawing Title :-

X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

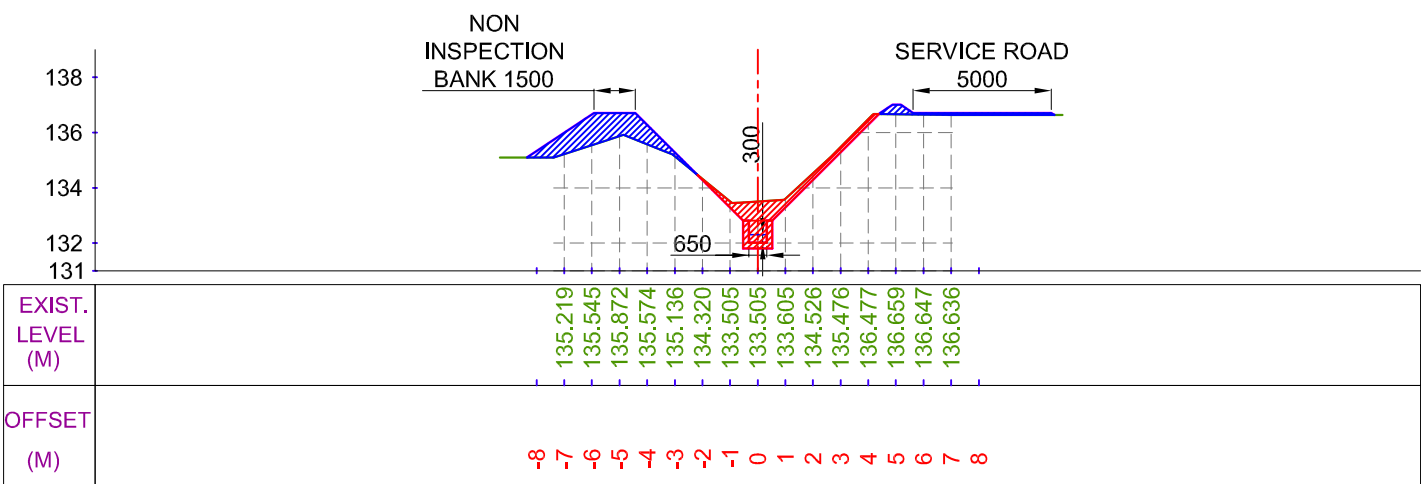
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC- 5 of 7

X SECTION OF GAMHARI MINOR



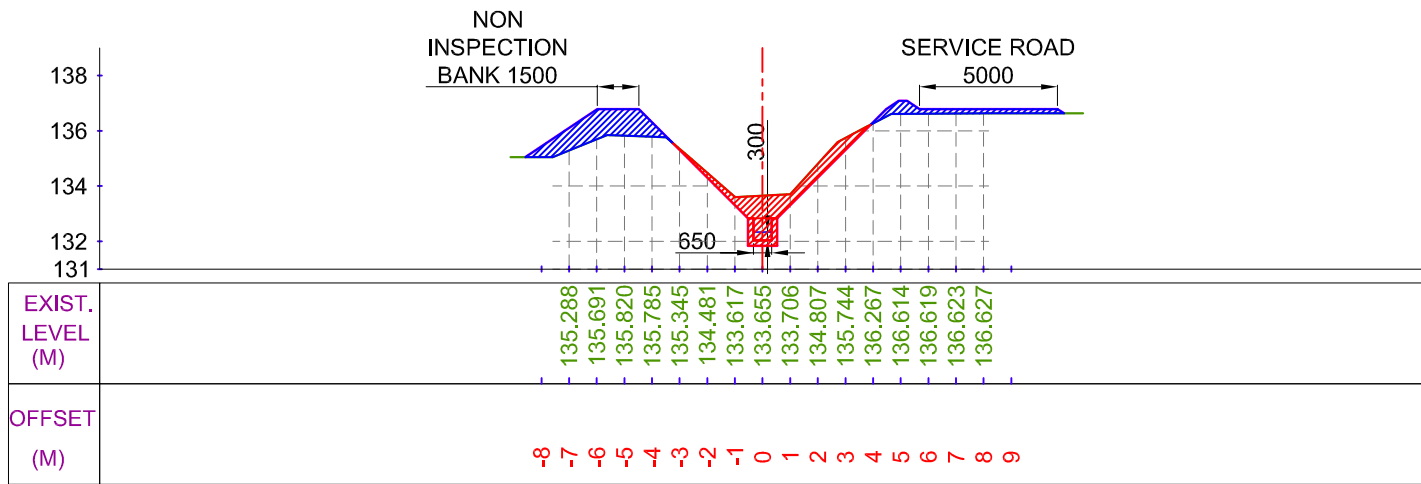
CUTTING AREA (SQ.M) = 15.011
FILLING AREA (SQ.M) = 6.838

CH. (KM):- 2+100
DESIGNED BED LEVEL = 132.064 M



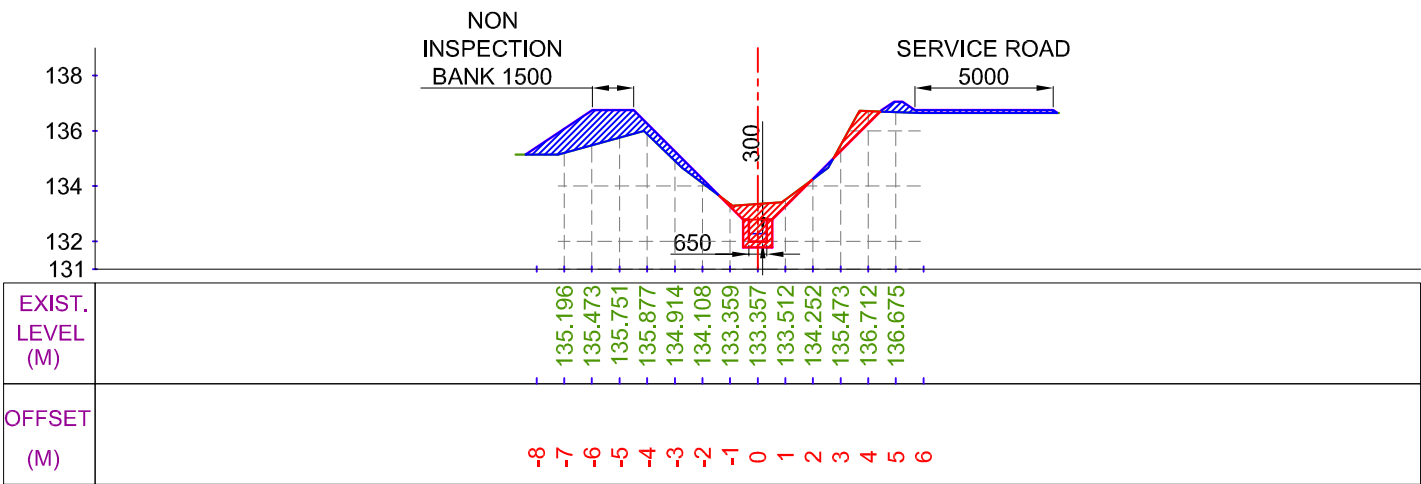
CUTTING AREA (SQ.M) = 3.075
FILLING AREA (SQ.M) = 4.522

CH. (KM):- 2+300
DESIGNED BED LEVEL = 132.011 M



CUTTING AREA (SQ.M) = 3.956
FILLING AREA (SQ.M) = 5.068

CH. (KM):- 2+200
DESIGNED BED LEVEL = 132.038 M



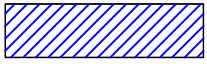
CUTTING AREA (SQ.M) = 2.778
FILLING AREA (SQ.M) = 4.331

CH. (KM):- 2+400
DESIGNED BED LEVEL = 131.985 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

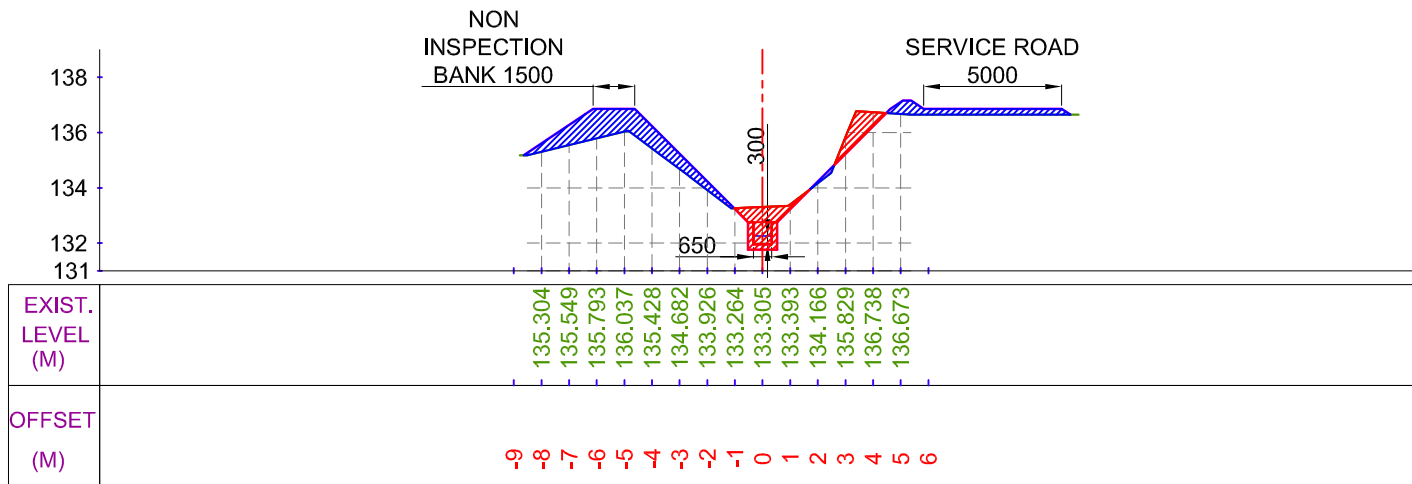
Drawing Title :-

X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC- 6 of 7

X SECTION OF GAMHARI MINOR

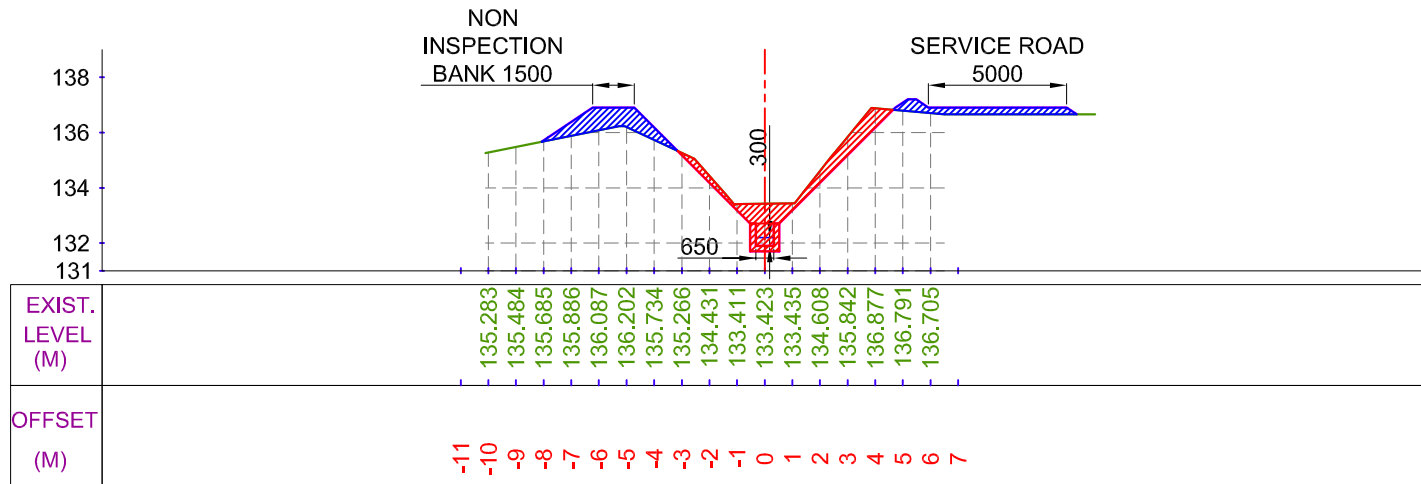


CUTTING AREA (SQ.M) = 2.533

FILLING AREA (SQ.M) = 6.295

CH. (KM):- 2+500

DESIGNED BED LEVEL = 131.959 M

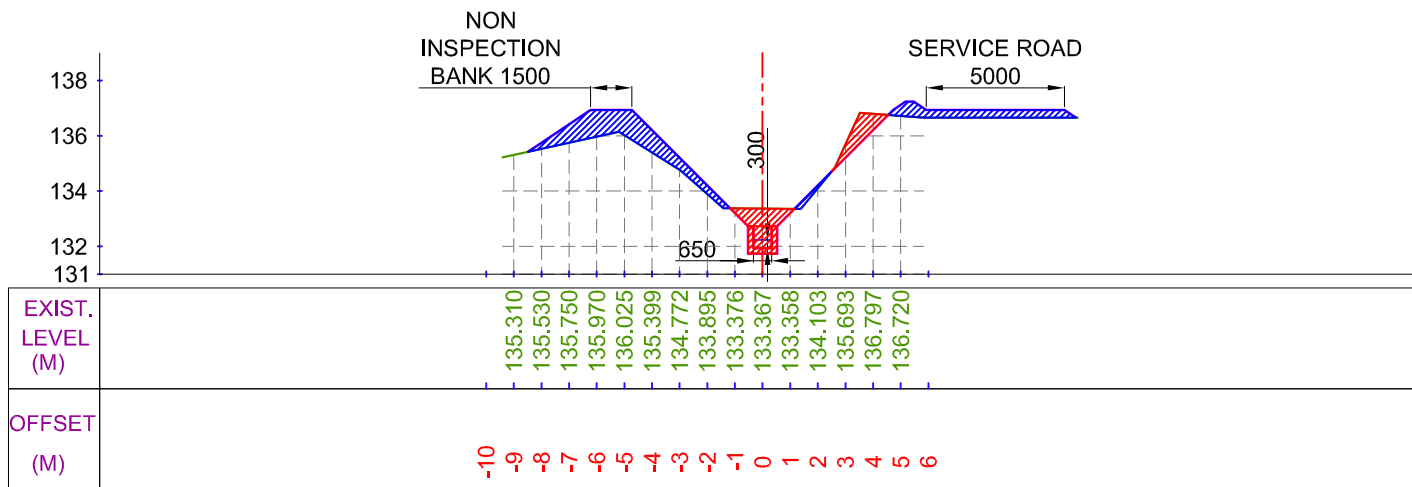


CUTTING AREA (SQ.M) = 4.526

FILLING AREA (SQ.M) = 4.228

CH. (KM):- 2+700

DESIGNED BED LEVEL = 131.906 M

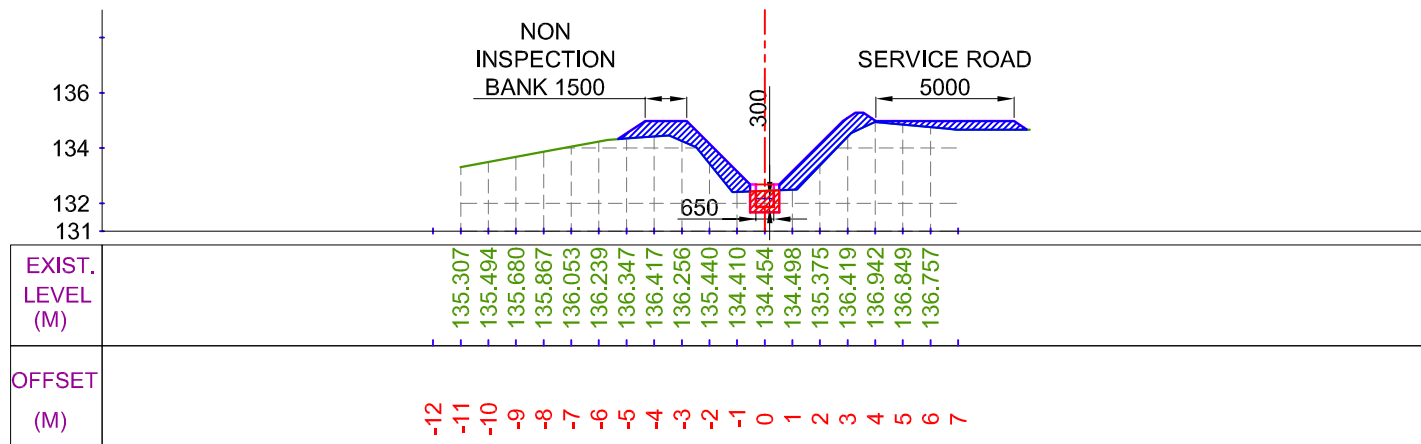


CUTTING AREA (SQ.M) = 3.197

FILLING AREA (SQ.M) = 6.513

CH. (KM):- 2+600

DESIGNED BED LEVEL = 131.933 M



CUTTING AREA (SQ.M) = 0.813

FILLING AREA (SQ.M) = 6.254

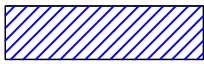
CH. (KM):- 2+800

DESIGNED BED LEVEL = 131.880 M

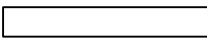
LEGEND



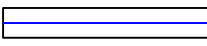
CUT AREA



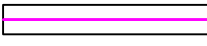
FILL AREA



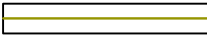
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

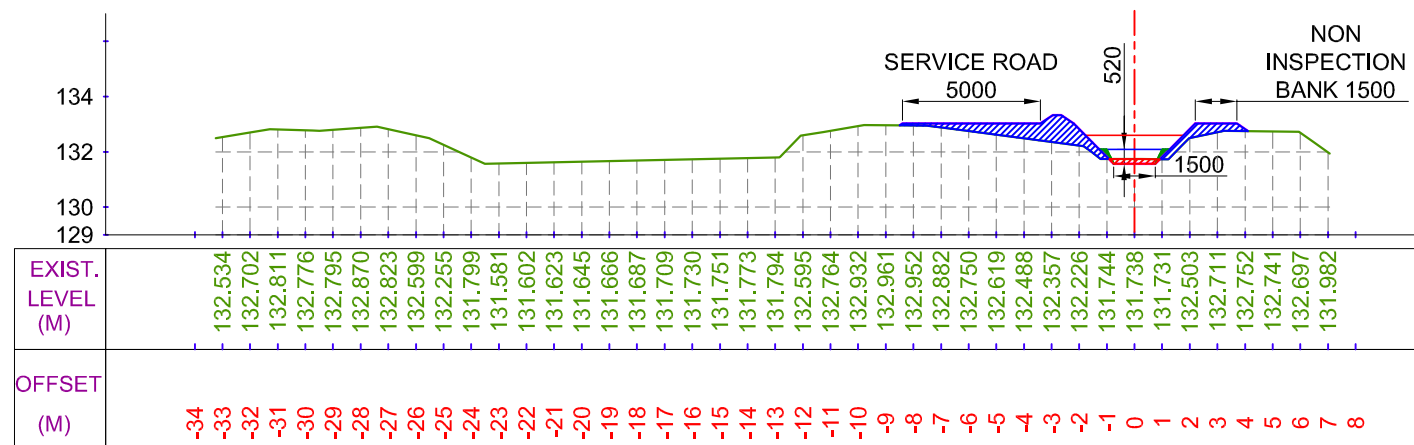
X SECTION OF GAMHARI MINOR (OFFTAKE FROM 0+025 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-01/ XSEC-

7 of 7

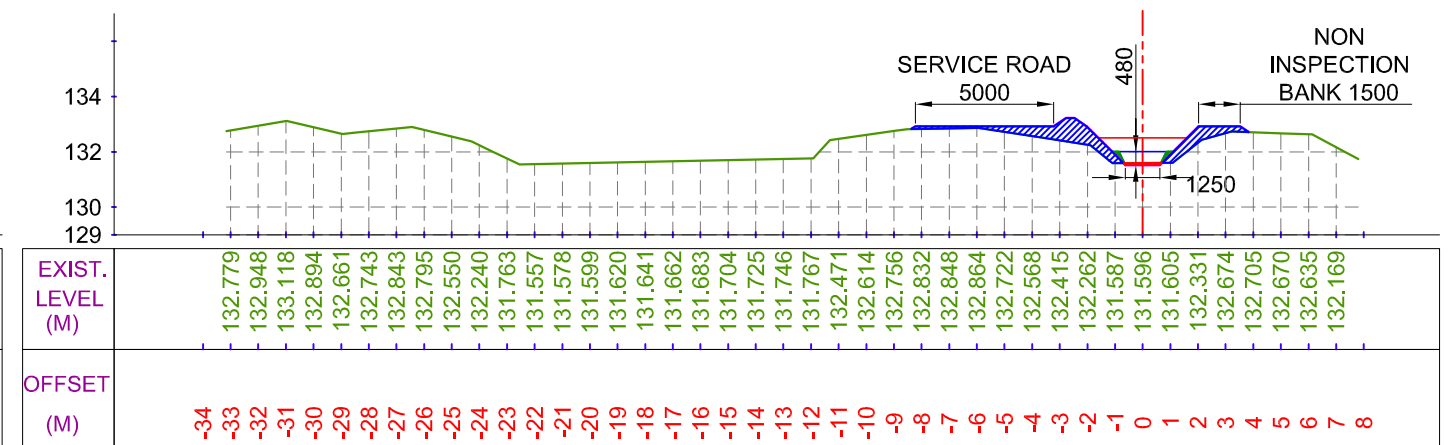
X SECTION OF NAGWA MINOR



CUTTING AREA (SQ.M) = 0.274

CH. (KM):- 0+100
DESIGNED BED LEVEL = 131.573 M

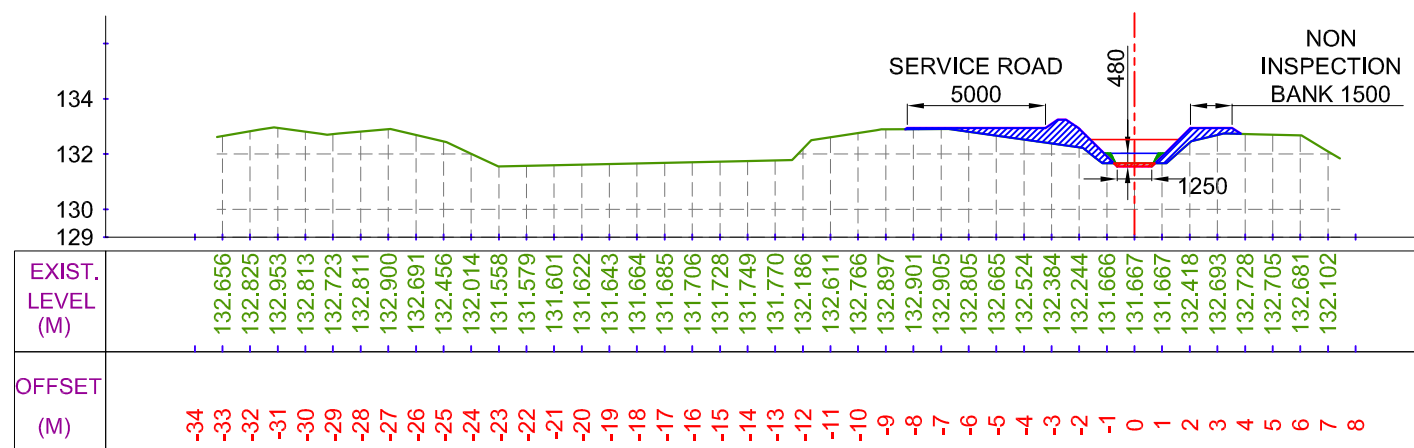
FILLING AREA (SQ.M) = 3.971



CUTTING AREA (SQ.M) = 0.096

CH. (KM):- 0+300
DESIGNED BED LEVEL = 131.523 M

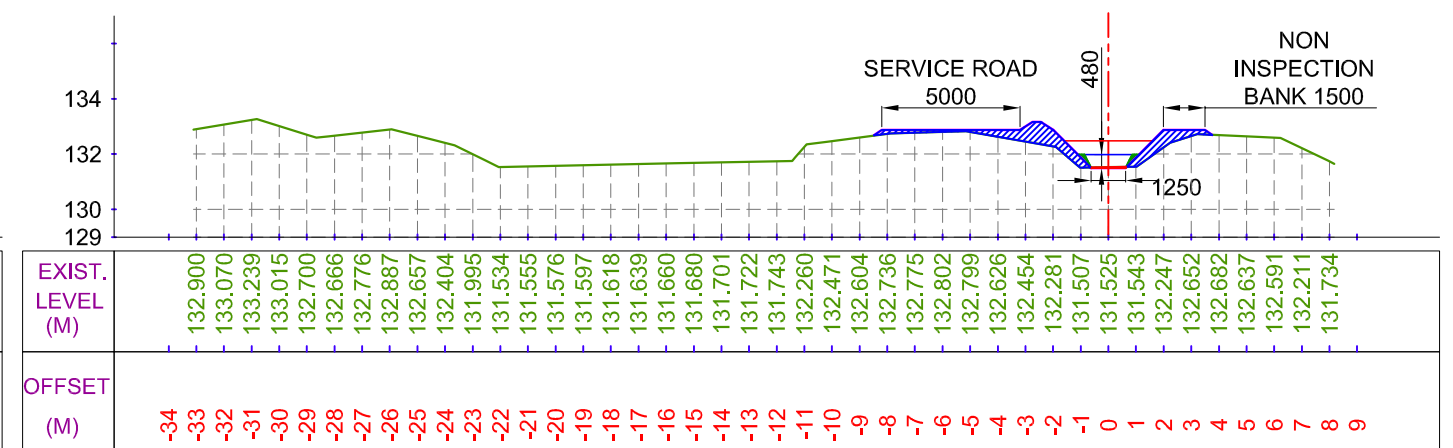
FILLING AREA (SQ.M) = 3.377



CUTTING AREA (SQ.M) = 0.162

CH. (KM):- 0+200
DESIGNED BED LEVEL = 131.548 M

FILLING AREA (SQ.M) = 3.562

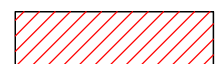


CUTTING AREA (SQ.M) = 0.034

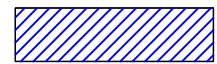
CH. (KM):- 0+400
DESIGNED BED LEVEL = 131.498 M

FILLING AREA (SQ.M) = 3.052

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

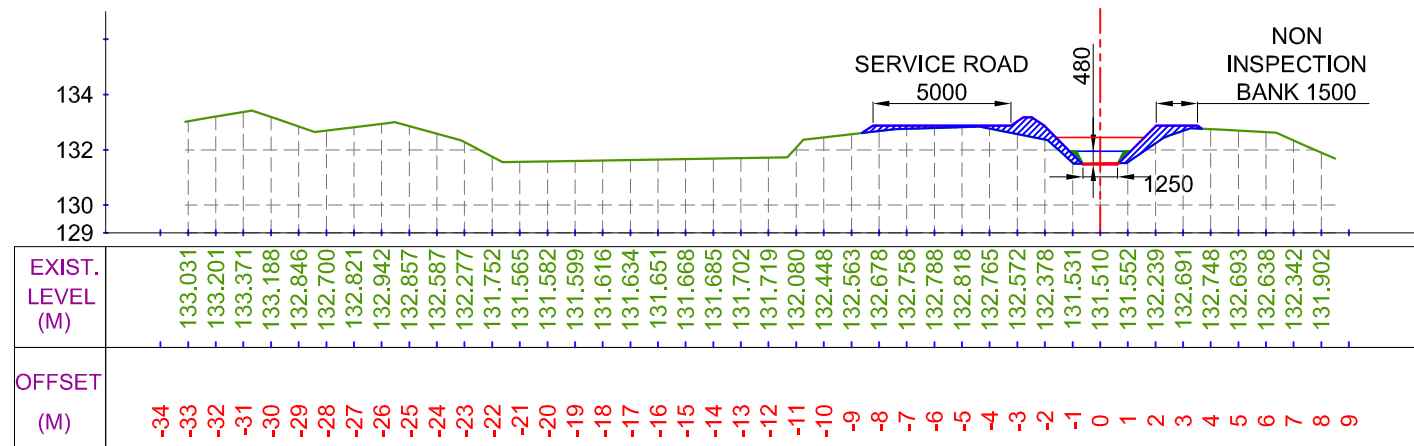
Drawing Title :-

X SECTION OF NAGWA MINOR (OFFTAKE FROM 1+130 KM. (R), KOTWARA DISTRIBUTARY CANAL)

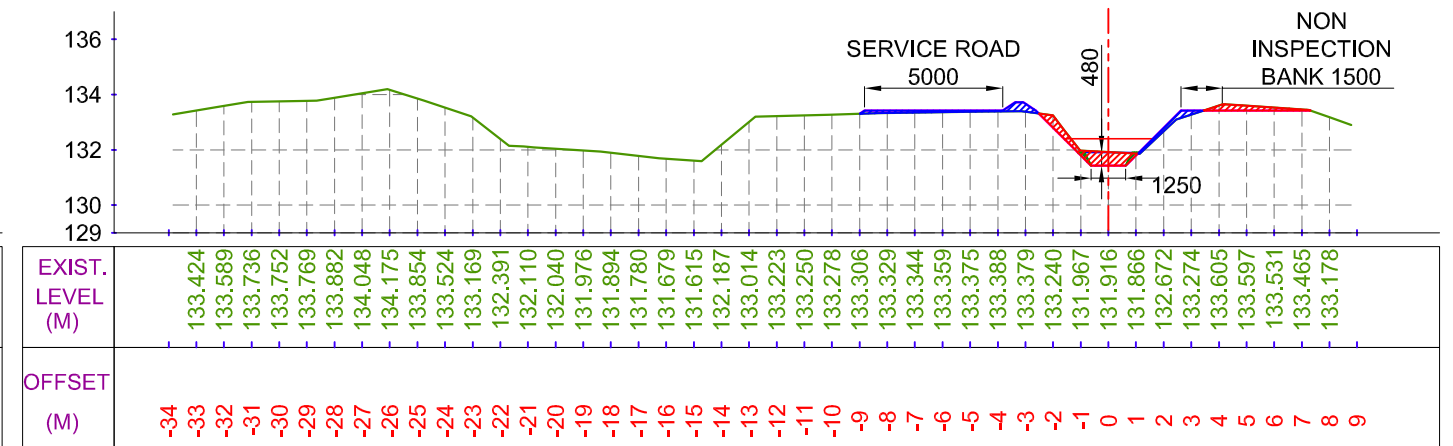
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-02/ XSEC- 1 of 5

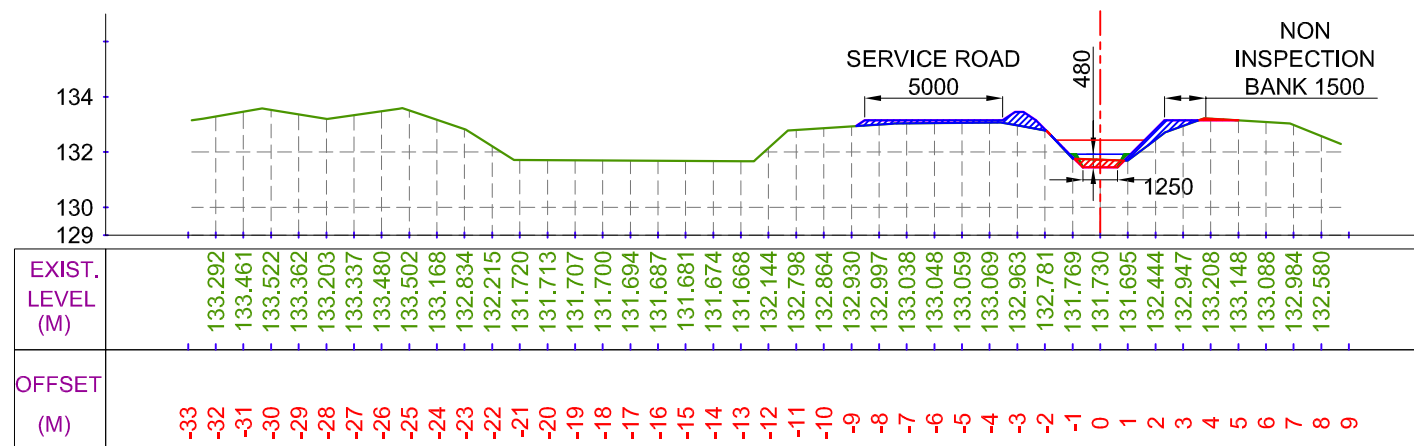
X SECTION OF NAGWA MINOR



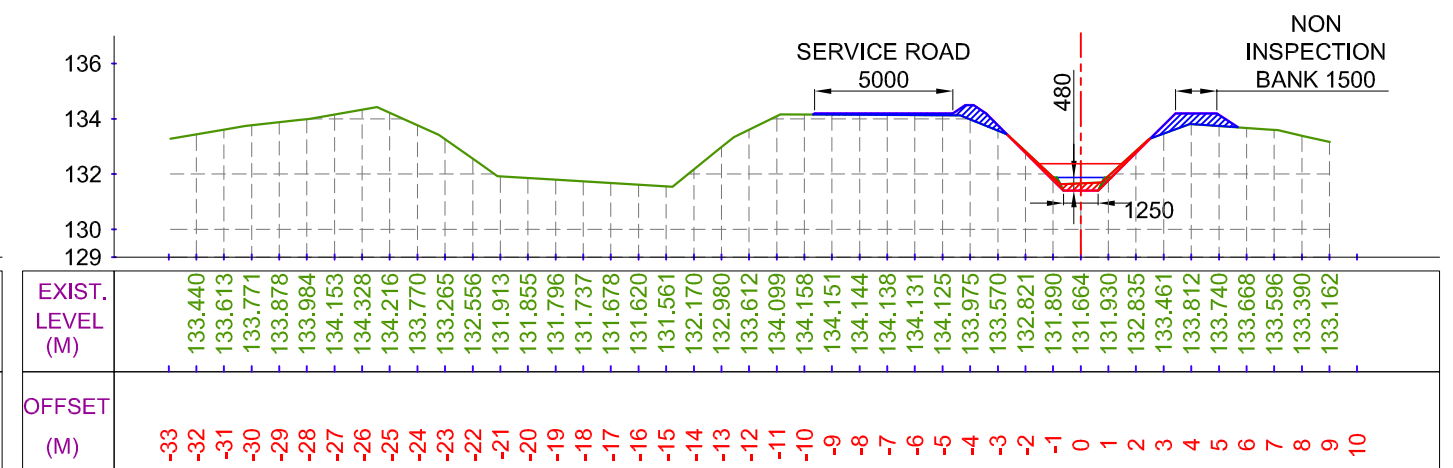
CUTTING AREA (SQ.M) = 0.047
 FILLING AREA (SQ.M) = 2.658
 CH. (KM):- 0+500
 DESIGNED BED LEVEL = 131.473 M



CUTTING AREA (SQ.M) = 1.731
 FILLING AREA (SQ.M) = 0.936
 CH. (KM):- 0+700
 DESIGNED BED LEVEL = 131.423 M

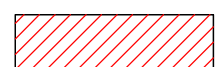


CUTTING AREA (SQ.M) = 0.487
 FILLING AREA (SQ.M) = 1.777
 CH. (KM):- 0+600
 DESIGNED BED LEVEL = 131.448 M

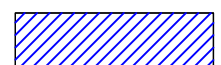


CUTTING AREA (SQ.M) = 0.685
 FILLING AREA (SQ.M) = 2.064
 CH. (KM):- 0+800
 DESIGNED BED LEVEL = 131.398 M

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

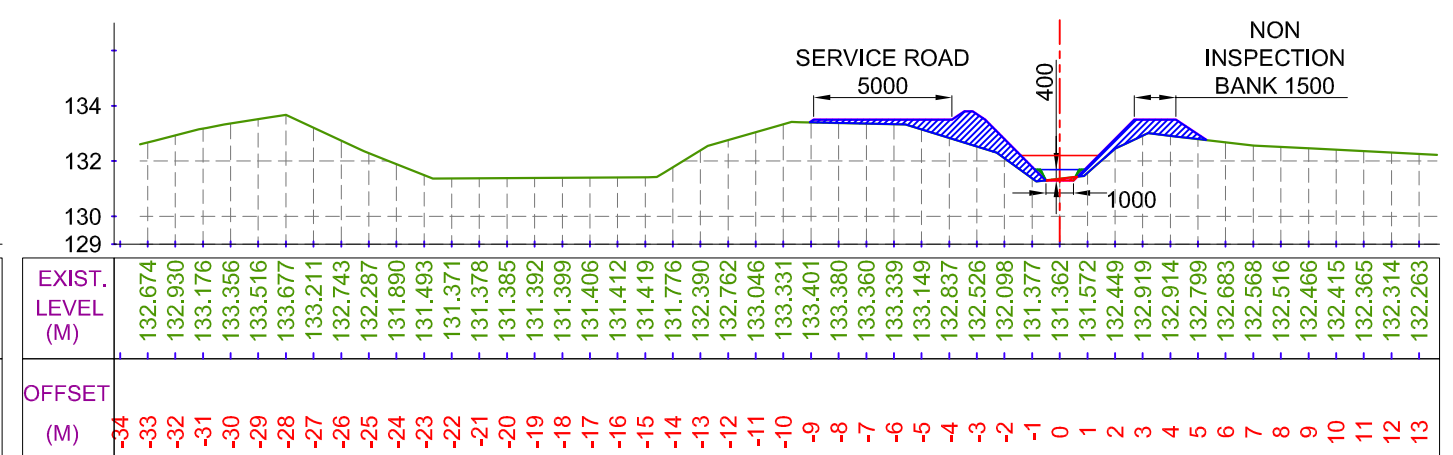
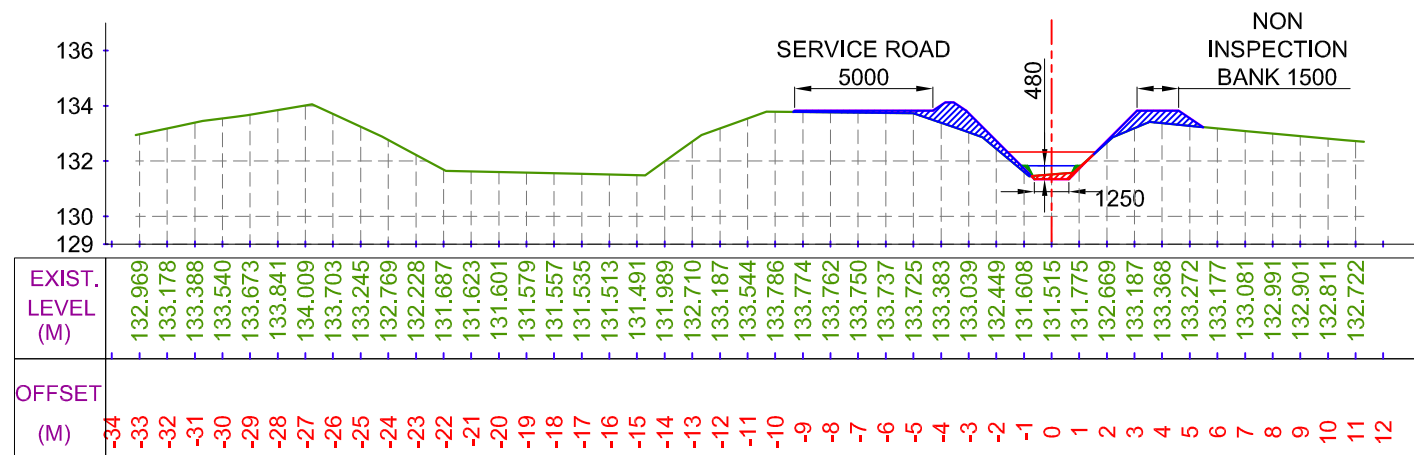
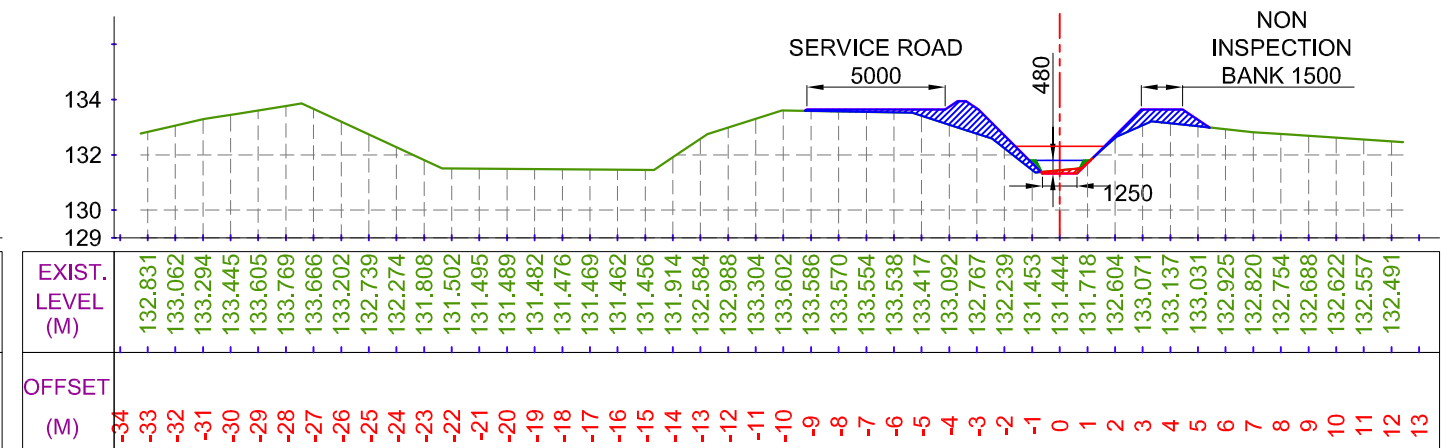
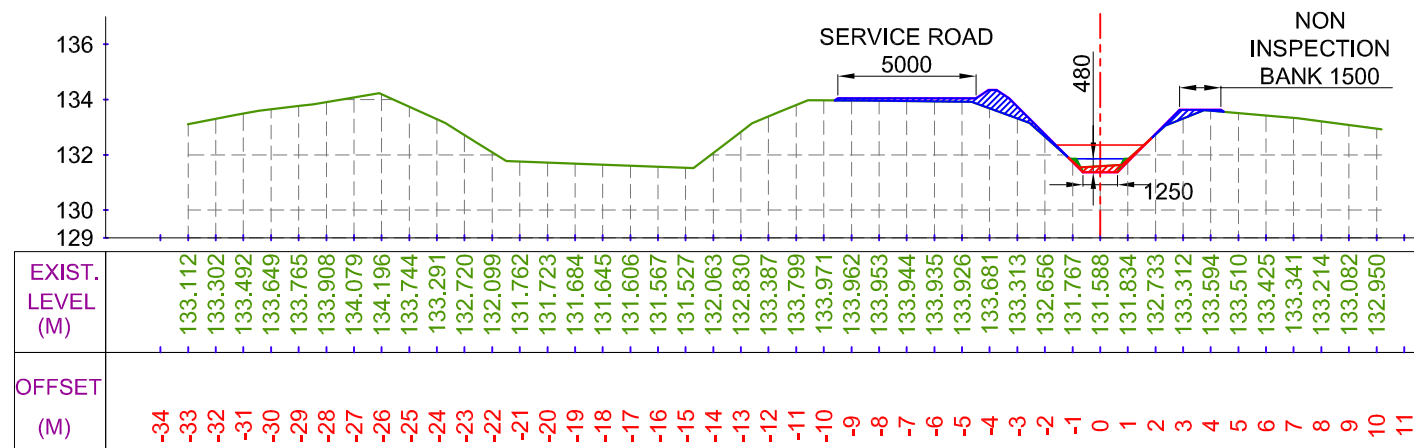
Drawing Title :-

X SECTION OF NAGWA MINOR (OFFTAKE FROM 1+130 KM. (R), KOTWARA DISTRIBUTARY CANAL)

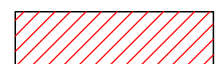
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-02/ XSEC- 2 of 5

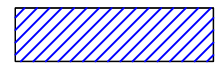
X SECTION OF NAGWA MINOR



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

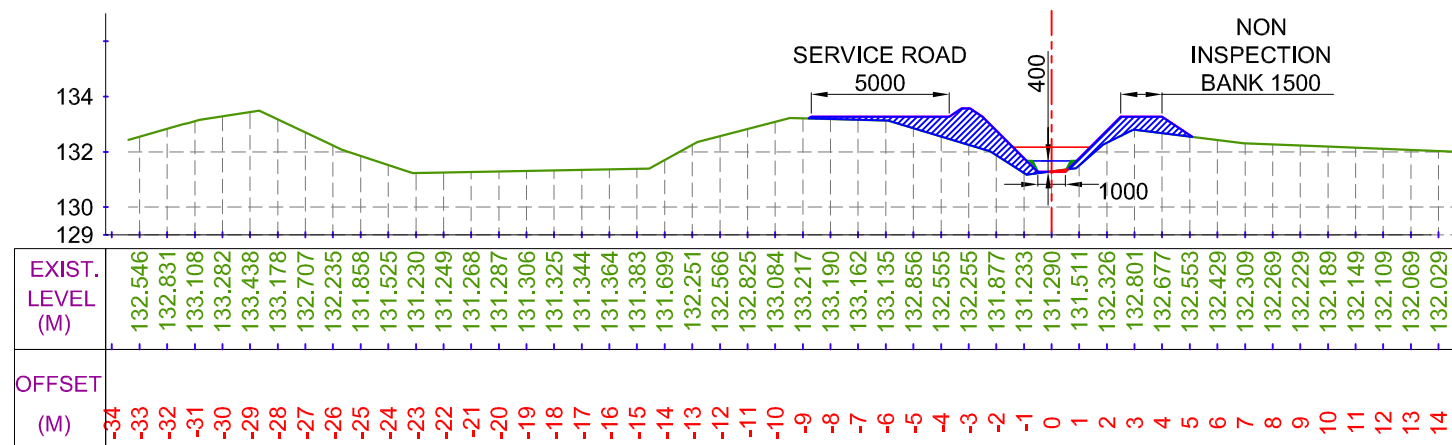
Drawing Title :-

X SECTION OF NAGWA MINOR (OFFTAKE FROM 1+130 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

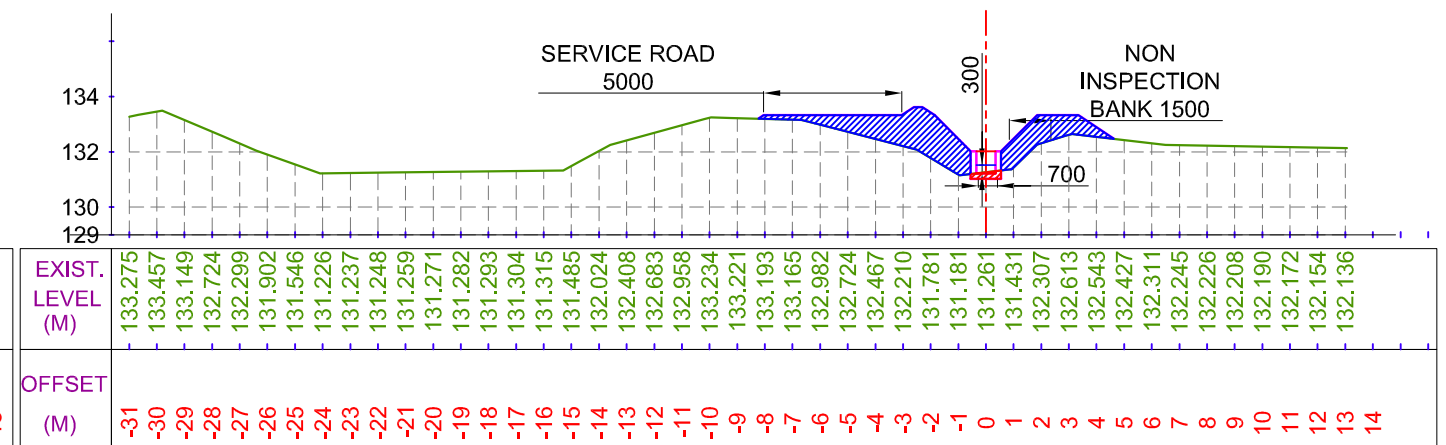
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-02/ XSEC- 3 of 5

X SECTION OF NAGWA MINOR



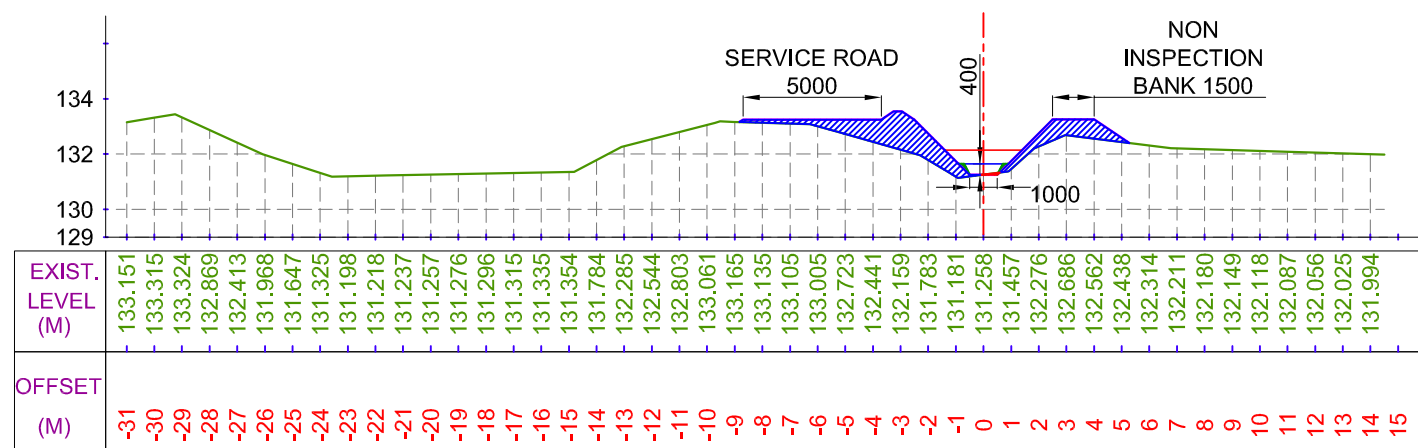
CUTTING AREA (SQ.M) = 0.029

FILLING AREA (SQ.M) = 5.979

CH. (KM):- 1+300
DESIGNED BED LEVEL = 131.273 M

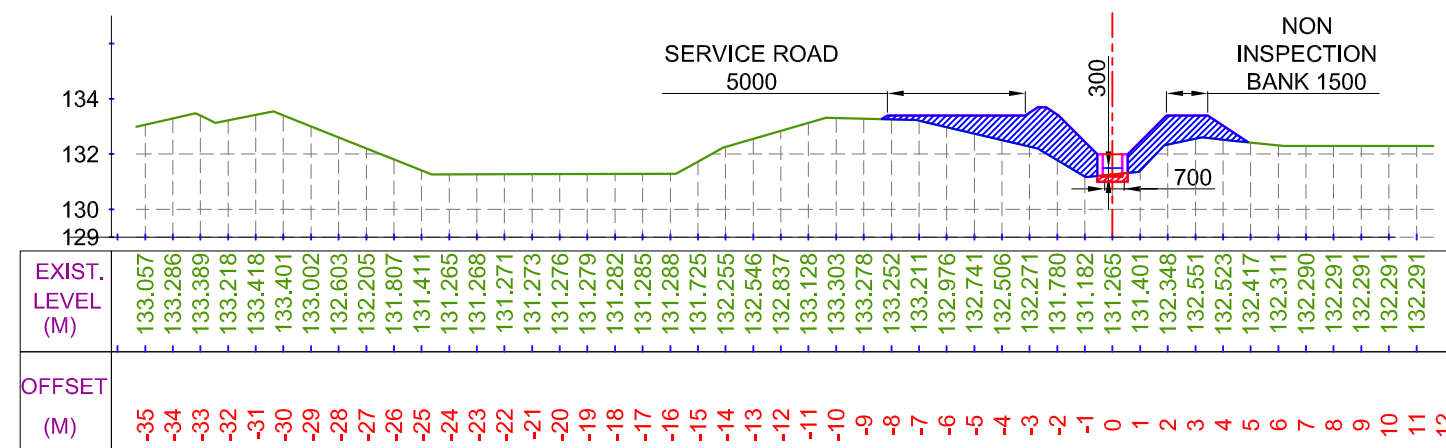
CUTTING AREA (SQ.M) = 0.263

FILLING AREA (SQ.M) = 9.038

CH. (KM):- 1+500
DESIGNED BED LEVEL = 131.222 M

CUTTING AREA (SQ.M) = 0.024

FILLING AREA (SQ.M) = 6.782

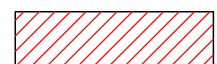
CH. (KM):- 1+400
DESIGNED BED LEVEL = 131.248 M

CUTTING AREA (SQ.M) = 0.298

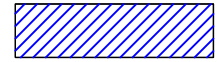
FILLING AREA (SQ.M) = 9.596

CH. (KM):- 1+600
DESIGNED BED LEVEL = 131.194 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

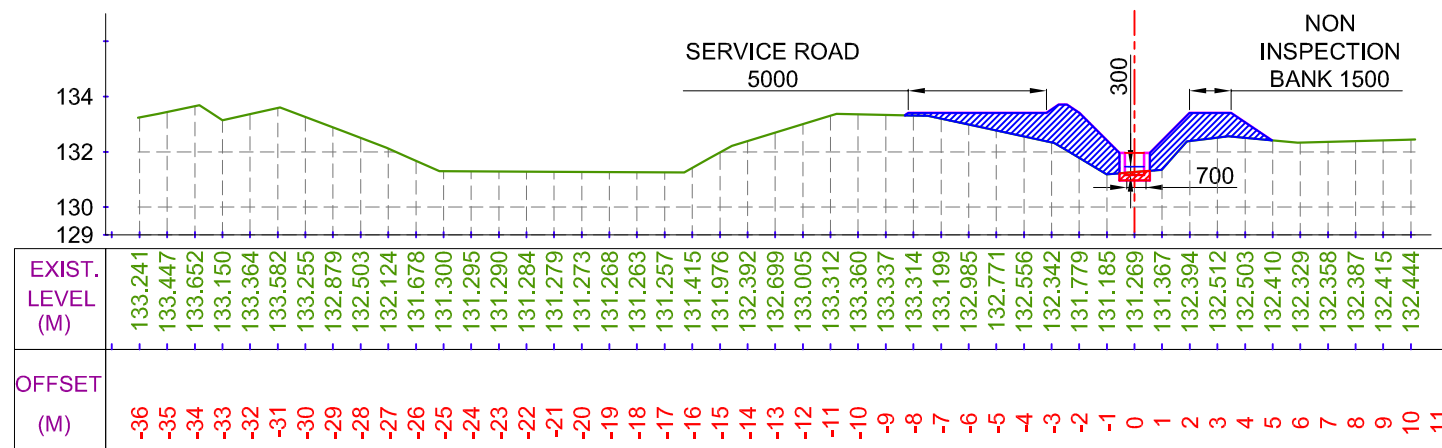
Drawing Title :-

X SECTION OF NAGWA MINOR (OFFTAKE FROM 1+130 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-02/ XSEC- 4 of 5

X SECTION OF NAGWA MINOR

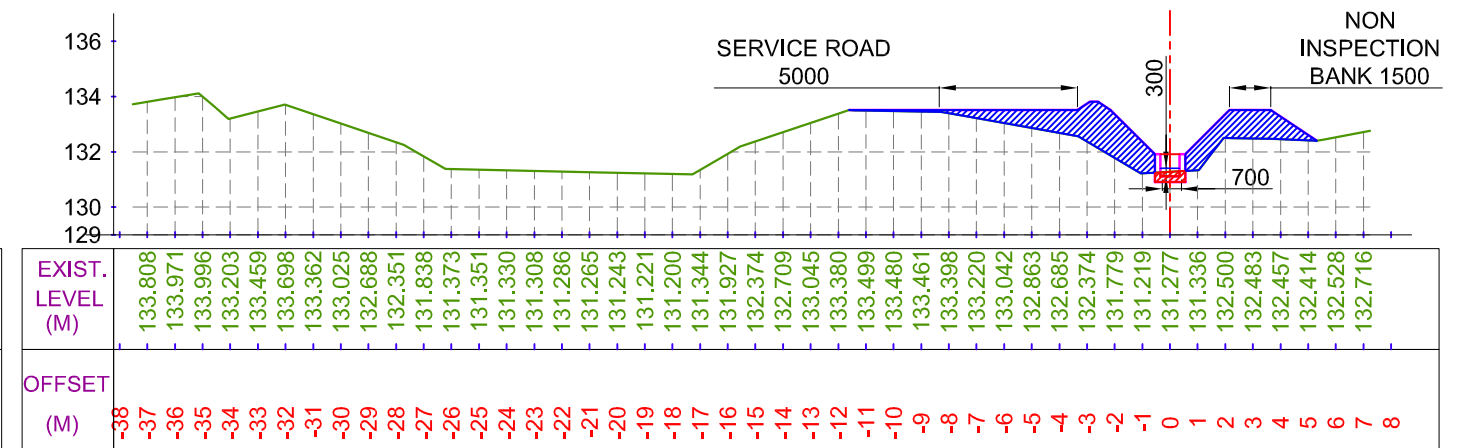


CUTTING AREA (SQ.M) = 0.333

FILLING AREA (SQ.M) = 9.513

CH. (KM):- 1+700

DESIGNED BED LEVEL = 131.166 M

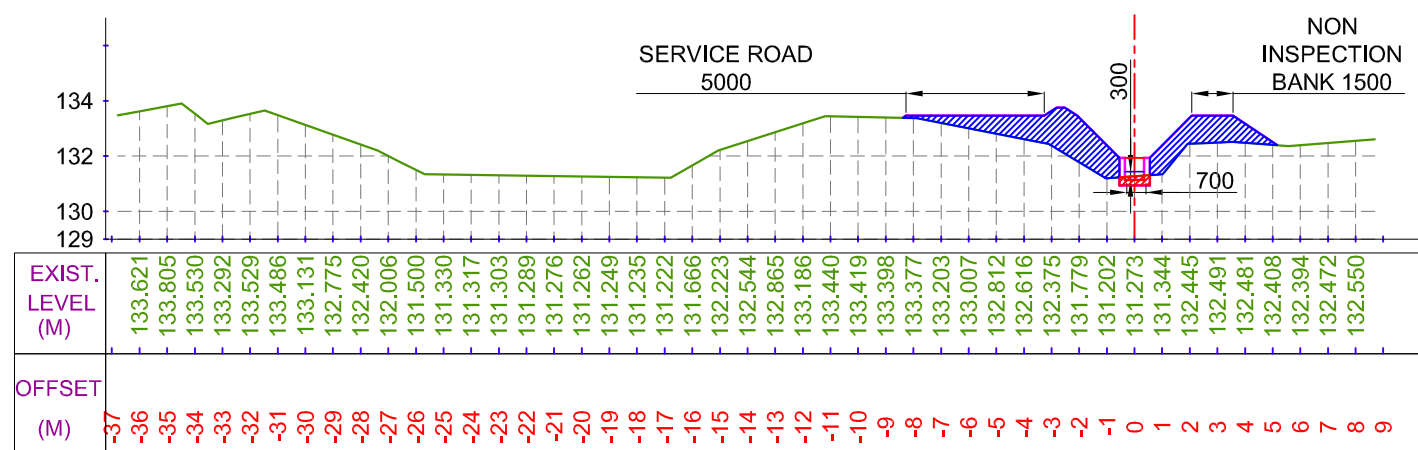


CUTTING AREA (SQ.M) = 0.402

FILLING AREA (SQ.M) = 10.221

CH. (KM):- 1+900

DESIGNED BED LEVEL = 131.111 M



CUTTING AREA (SQ.M) = 0.368

FILLING AREA (SQ.M) = 9.824

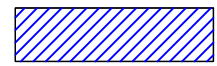
CH. (KM):- 1+800

DESIGNED BED LEVEL = 131.138 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

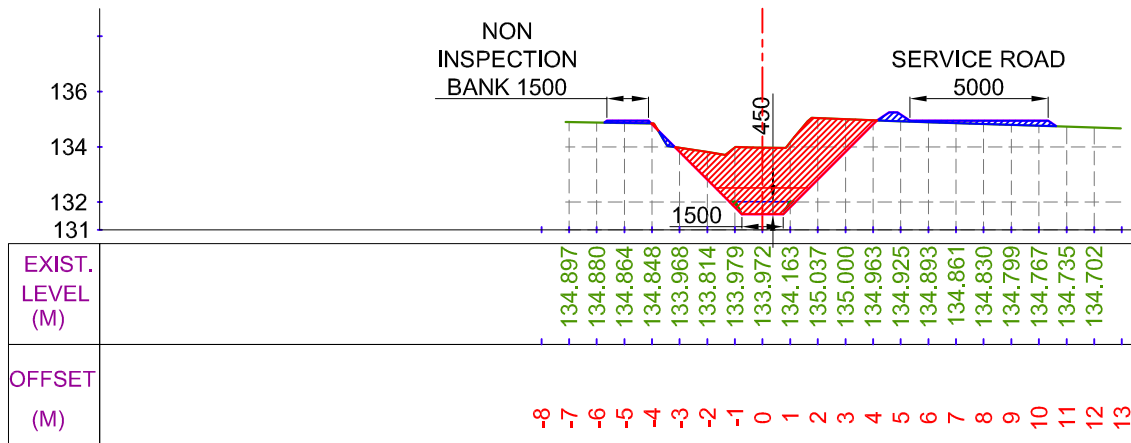
Drawing Title :-

X SECTION OF NAGWA MINOR (OFFTAKE FROM 1+130 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

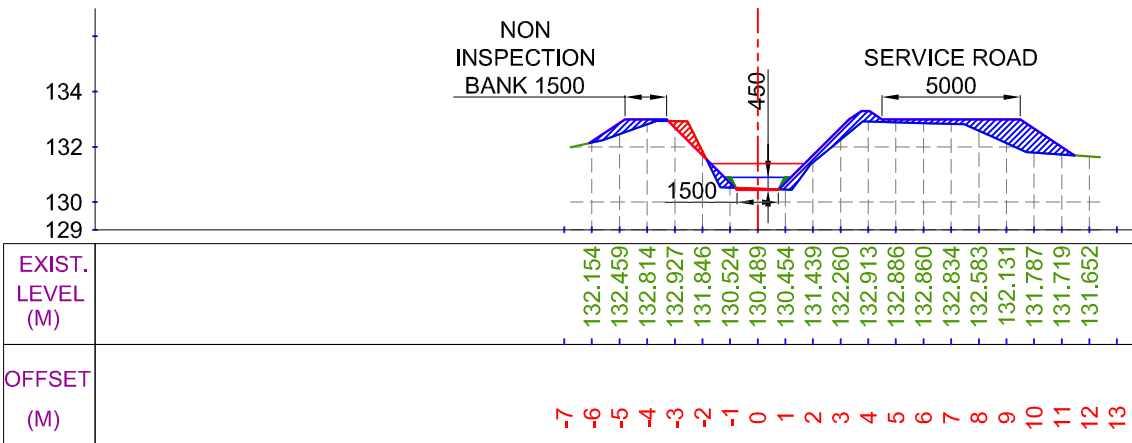
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-02/ XSEC- 5 of 5

X SECTION OF PAWAI MINOR



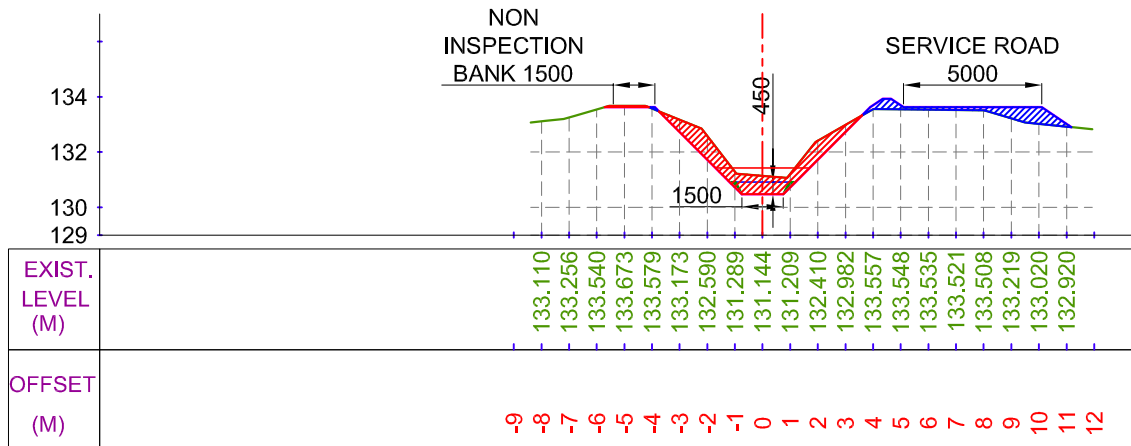
CUTTING AREA (SQ.M) = 11.643
FILLING AREA (SQ.M) = 0.990

CH. (KM):- 0+100
DESIGNED BED LEVEL = 131.564 M



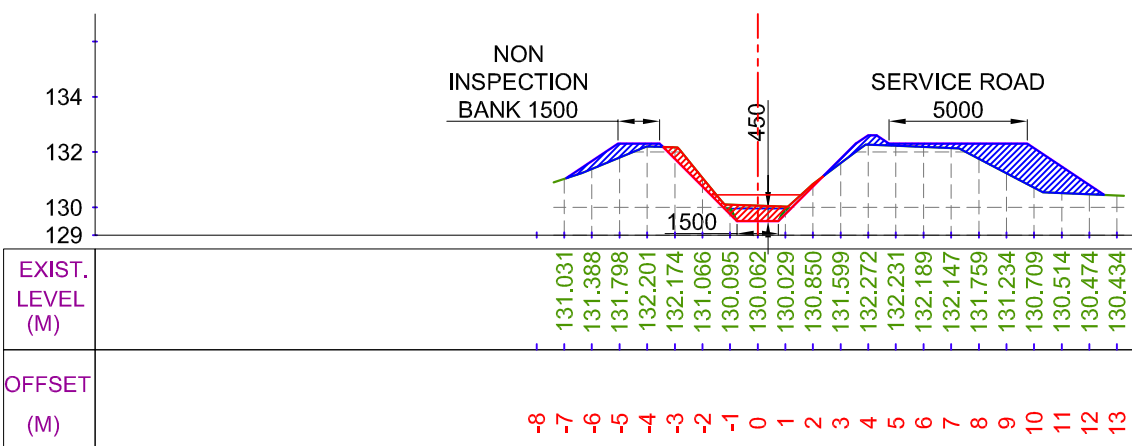
CUTTING AREA (SQ.M) = 0.537
FILLING AREA (SQ.M) = 5.052

CH. (KM):- 0+300
DESIGNED BED LEVEL = 130.447 M



CUTTING AREA (SQ.M) = 4.155
FILLING AREA (SQ.M) = 1.789

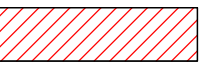
CH. (KM):- 0+200
DESIGNED BED LEVEL = 130.472 M



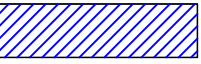
CUTTING AREA (SQ.M) = 1.938
FILLING AREA (SQ.M) = 6.093

CH. (KM):- 0+400
DESIGNED BED LEVEL = 129.508 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

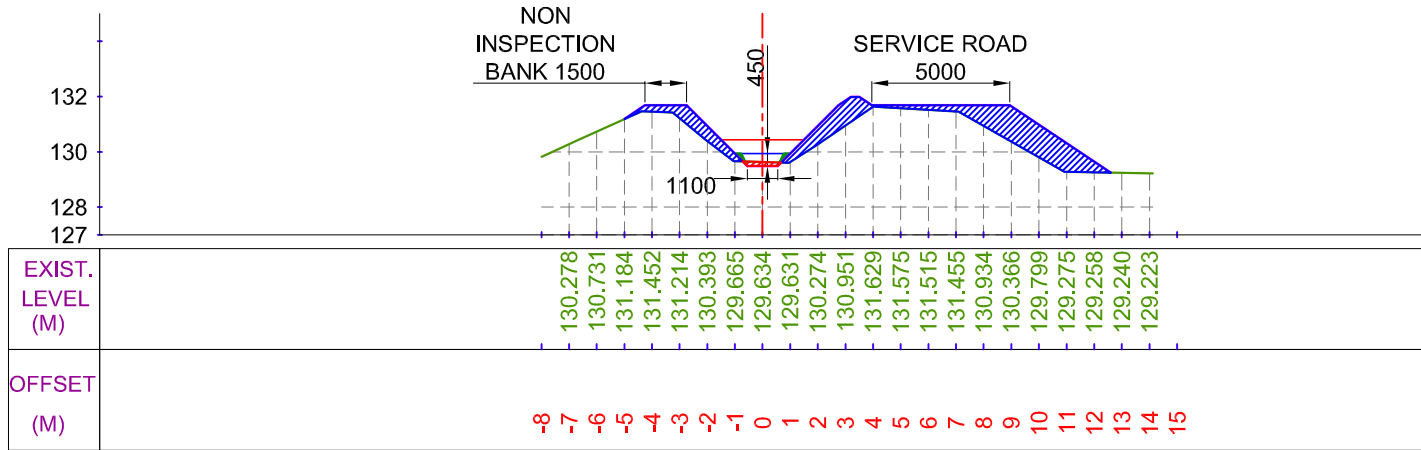
Drawing Title :-

X SECTION OF PAWAI MINOR (OFFTAKE FROM 5+100 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

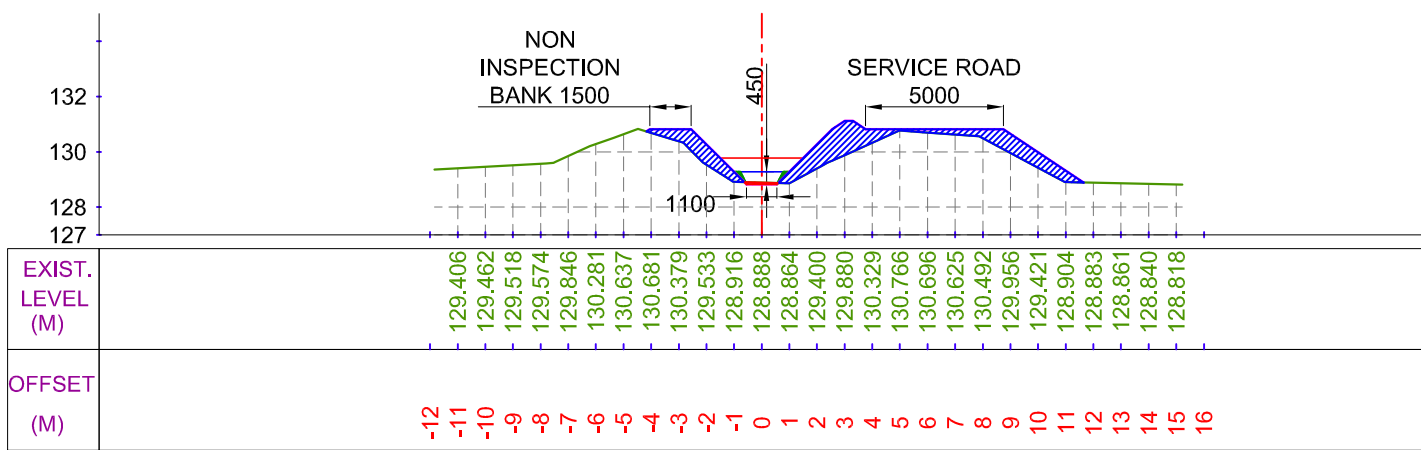
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-03/ XSEC- 1 of 5

X SECTION OF PAWAI MINOR



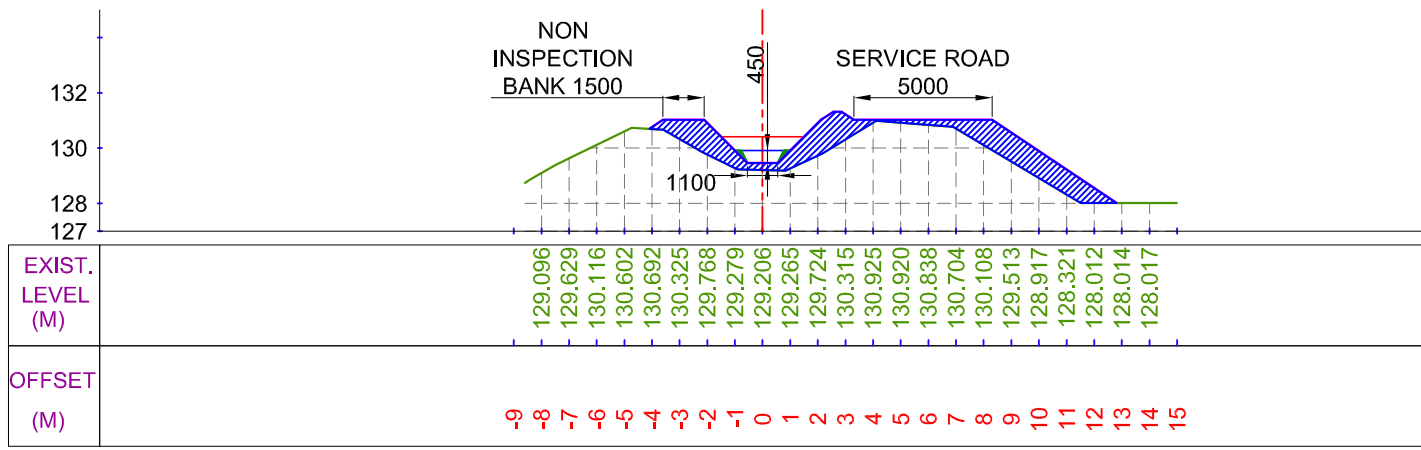
CUTTING AREA (SQ.M) = 0.189
FILLING AREA (SQ.M) = 8.513

CH. (KM):- 0+500
DESIGNED BED LEVEL = 129.483 M



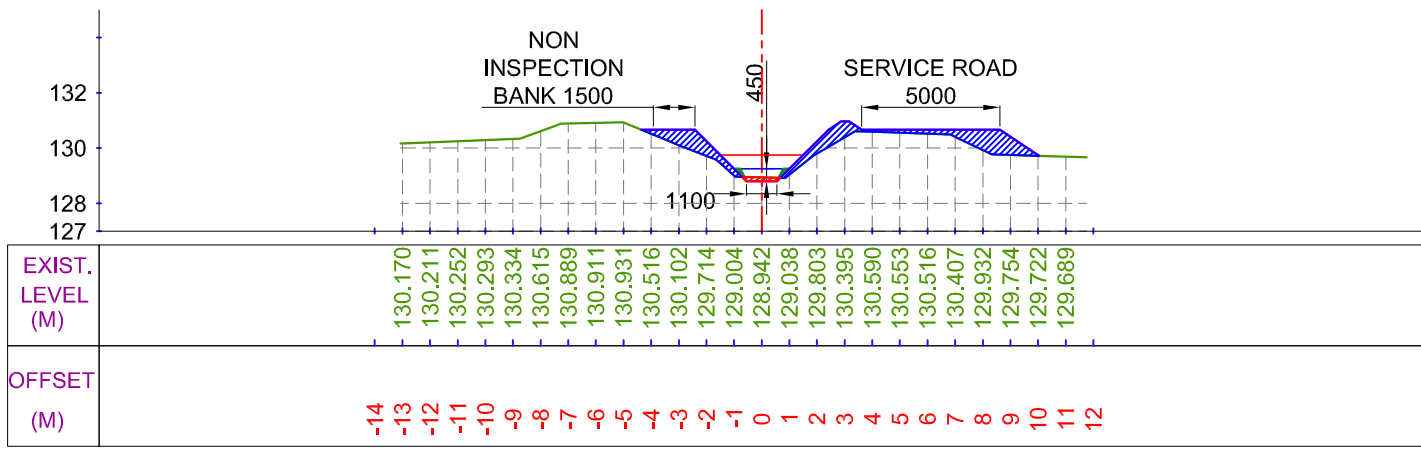
CUTTING AREA (SQ.M) = 0.076
FILLING AREA (SQ.M) = 6.921

CH. (KM):- 0+700
DESIGNED BED LEVEL = 128.823 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 10.546

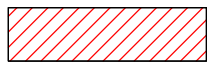
CH. (KM):- 0+600
DESIGNED BED LEVEL = 129.458 M



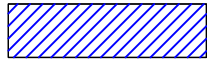
CUTTING AREA (SQ.M) = 0.178
FILLING AREA (SQ.M) = 4.673

CH. (KM):- 0+800
DESIGNED BED LEVEL = 128.798 M

LEGEND



CUT AREA



FILL AREA

	EXISTING BED LINE
	F.S.L.
	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

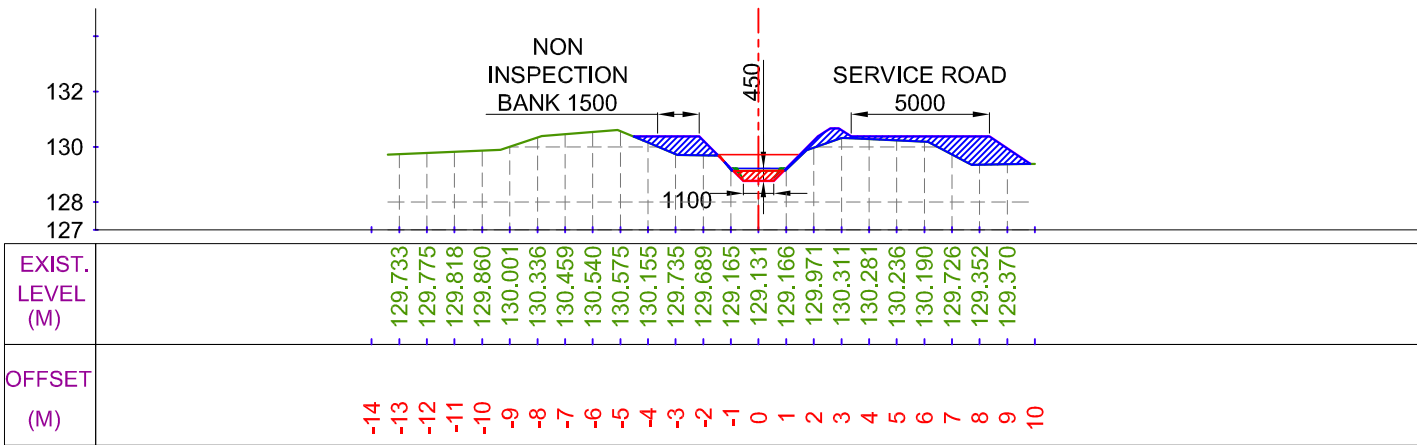
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

X SECTION OF PAWAI MINOR (OFFTAKE FROM 5+100 KM. (R), KOTWARA DISTRIBUTARY CANAL)

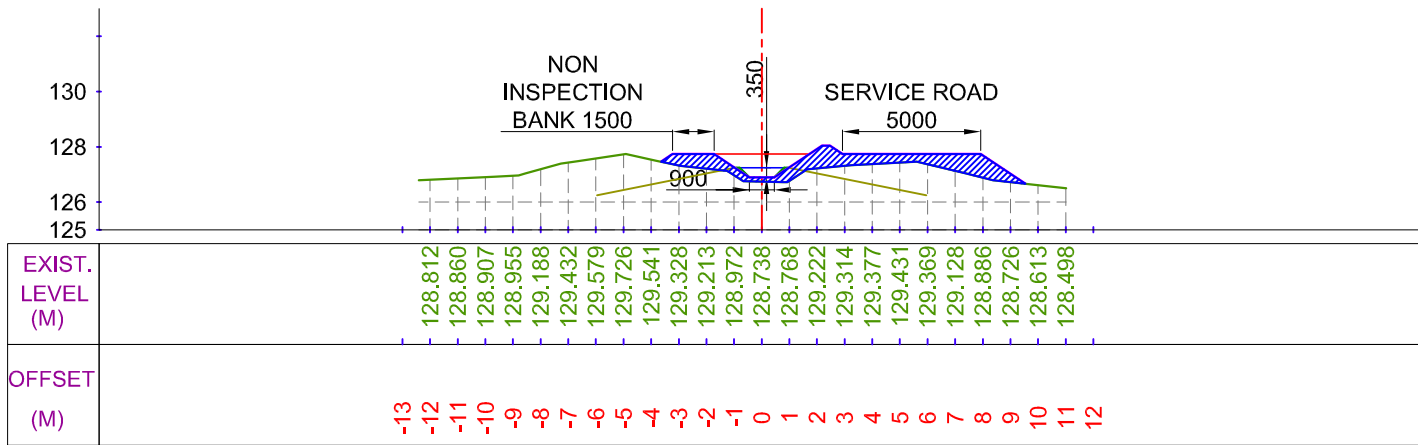
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-03/ XSEC- 2 of 5



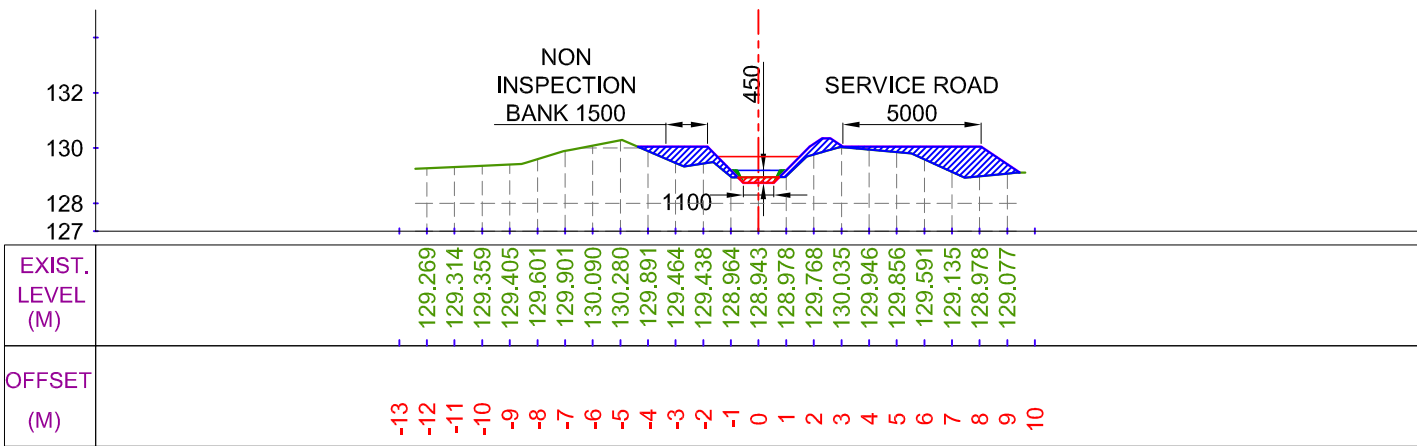
CUTTING AREA (SQ.M) = 0.525
FILLING AREA (SQ.M) = 4.575

CH. (KM):- 0+900
DESIGNED BED LEVEL = 128.773 M



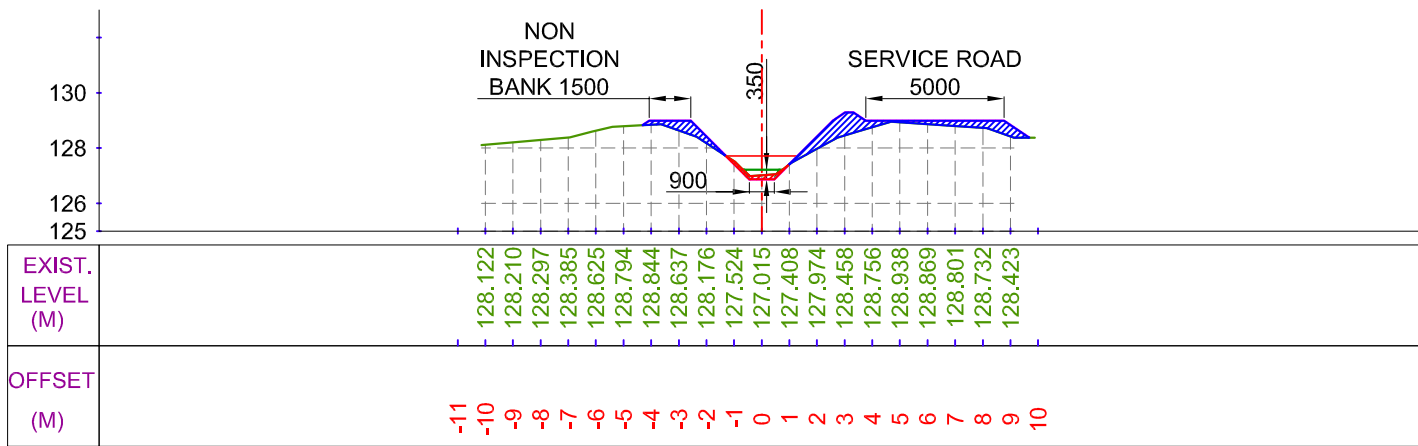
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 5.681

CH. (KM):- 1+100
DESIGNED BED LEVEL = 126.894 M



CUTTING AREA (SQ.M) = 0.252
FILLING AREA (SQ.M) = 5.130

CH. (KM):- 1+000
DESIGNED BED LEVEL = 128.748 M



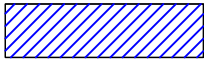
CUTTING AREA (SQ.M) = 0.253
FILLING AREA (SQ.M) = 3.209

CH. (KM):- 1+200
DESIGNED BED LEVEL = 126.869 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

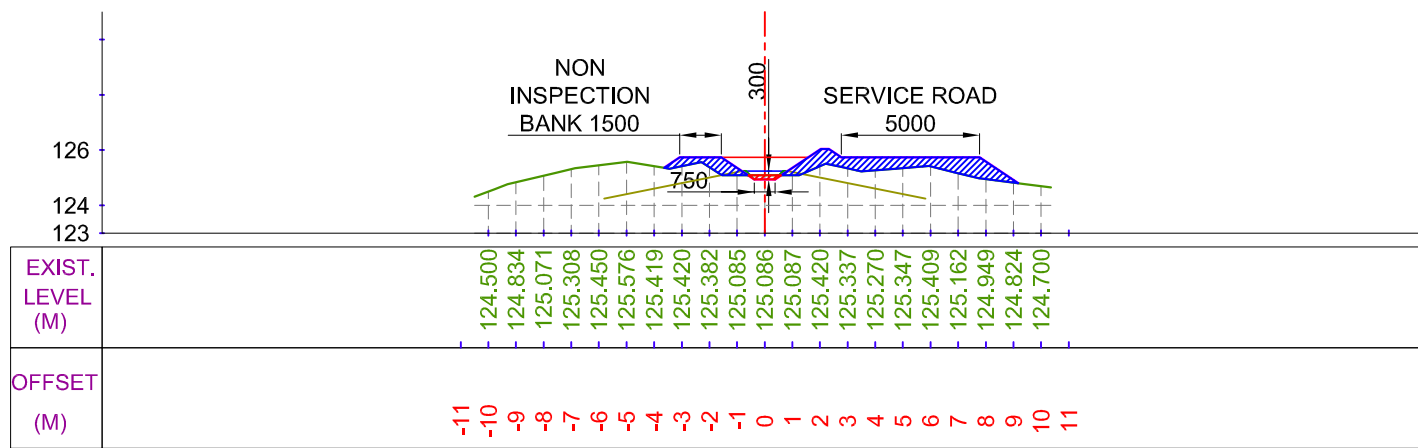
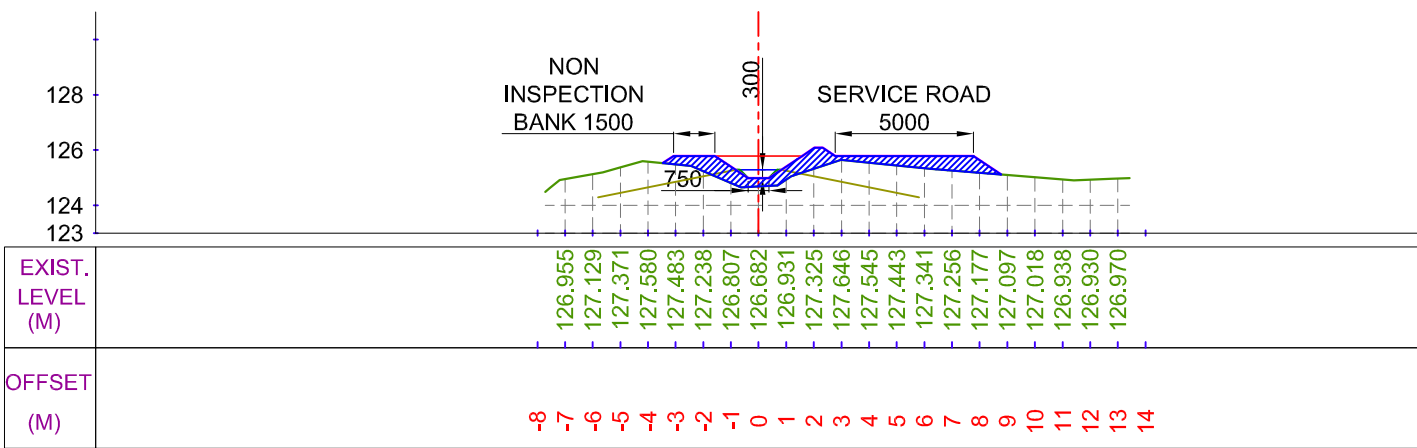
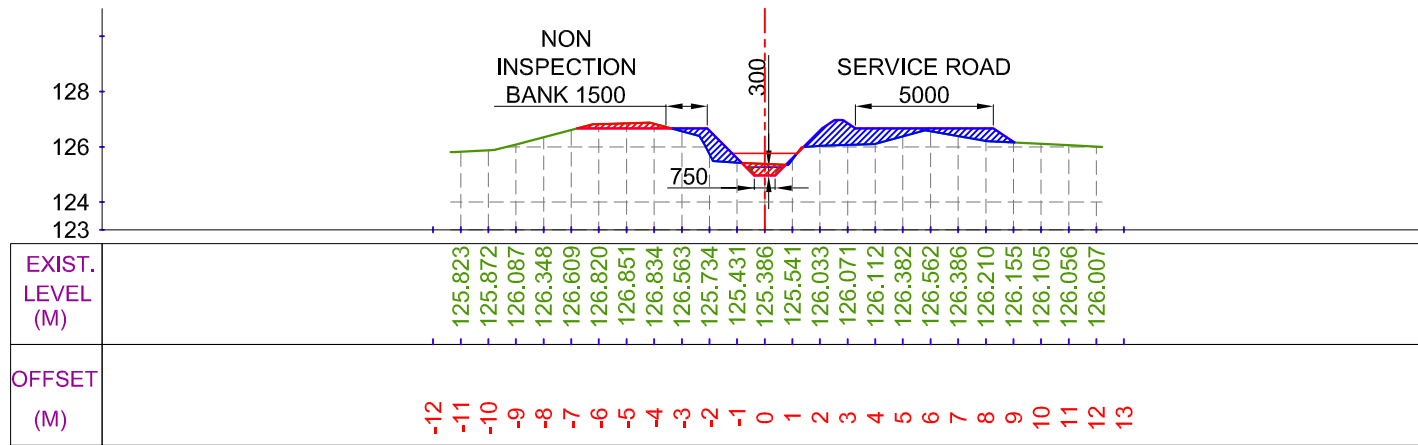
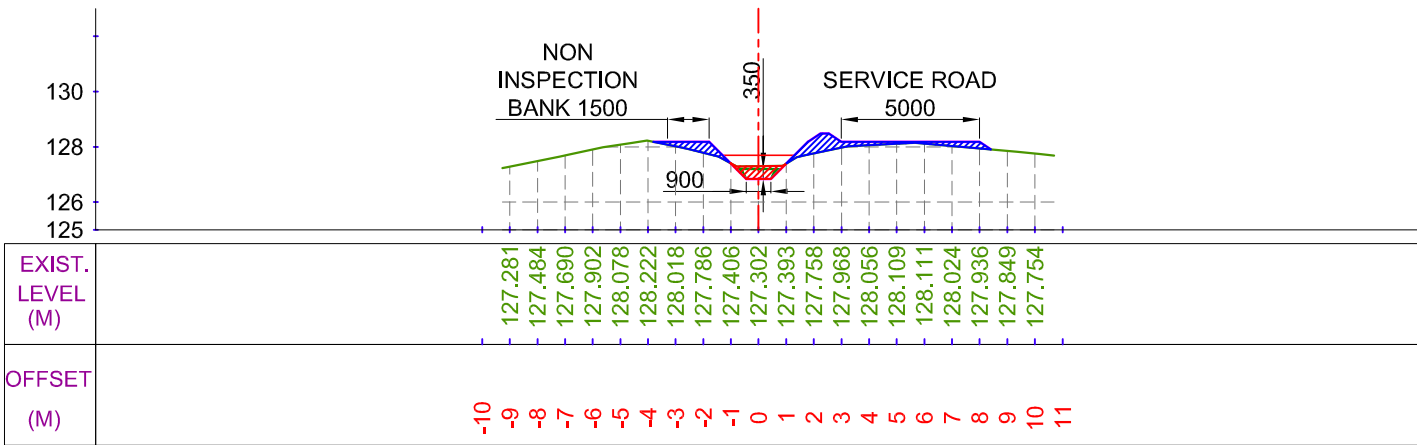
Drawing Title :-

X SECTION OF PAWAI MINOR (OFFTAKE FROM 5+100 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-03/ XSEC- 3 of 5

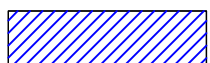
X SECTION OF PAWAI MINOR



LEGEND



CUT AREA



FILL AREA

EXISTING BED LINE
F.S.L.
DESIGNED BED LINE
H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

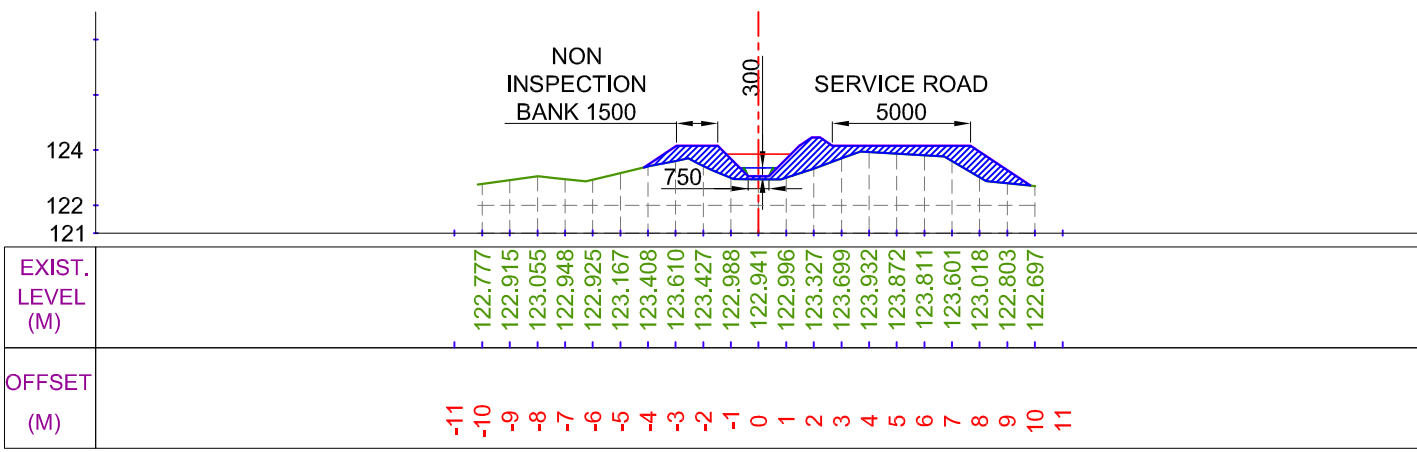
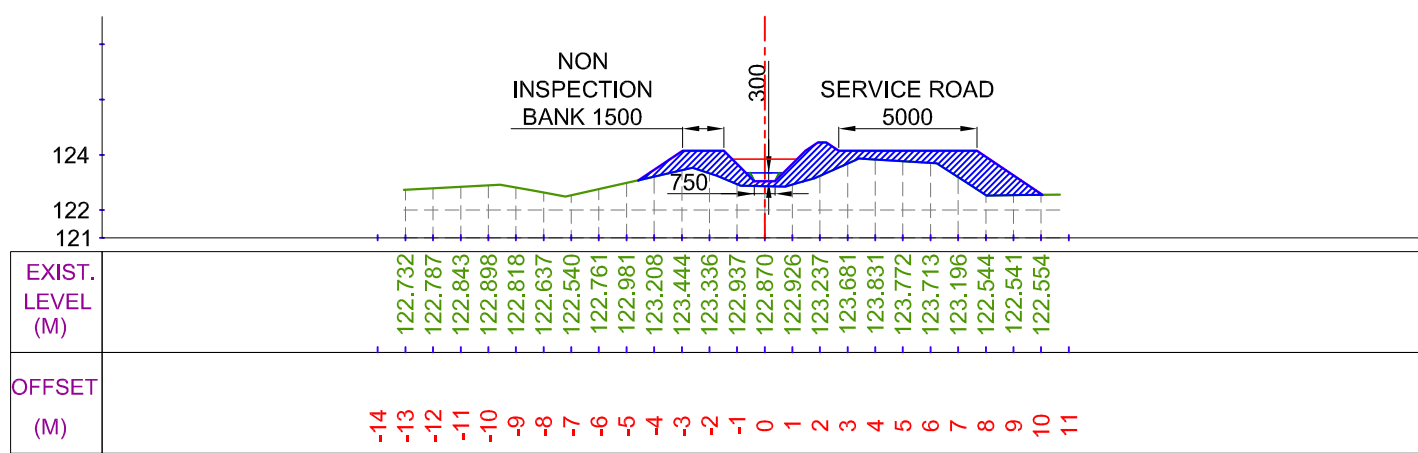
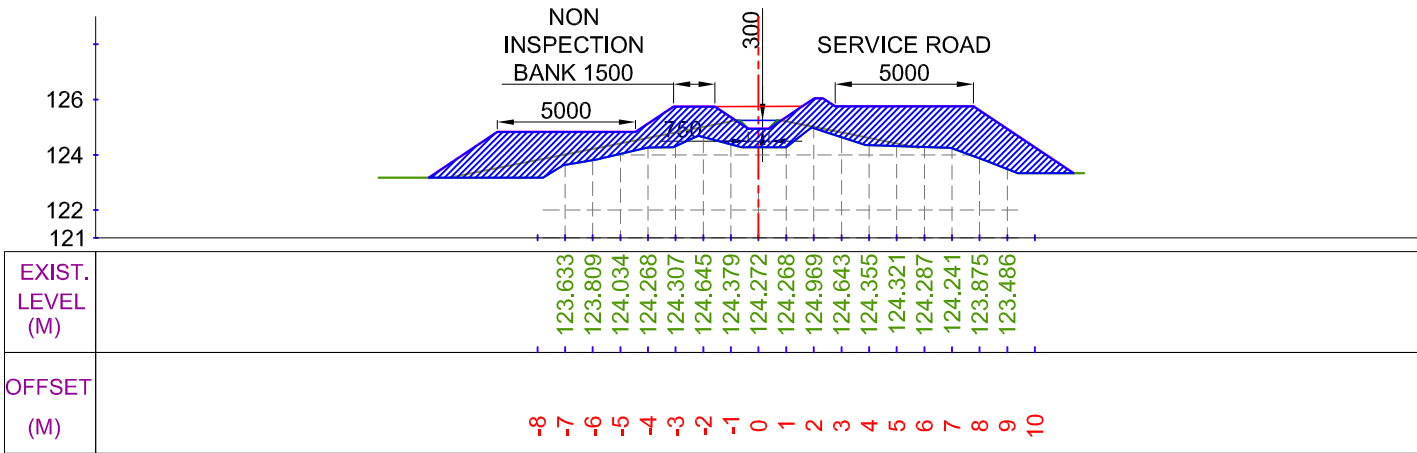
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

X SECTION OF PAWAI MINOR (OFFTAKE FROM 5+100 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

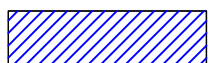
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-03/ XSEC- 4 of 5



LEGEND



CUT AREA



FILL AREA

	EXISTING BED LINE
	F.S.L.
	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

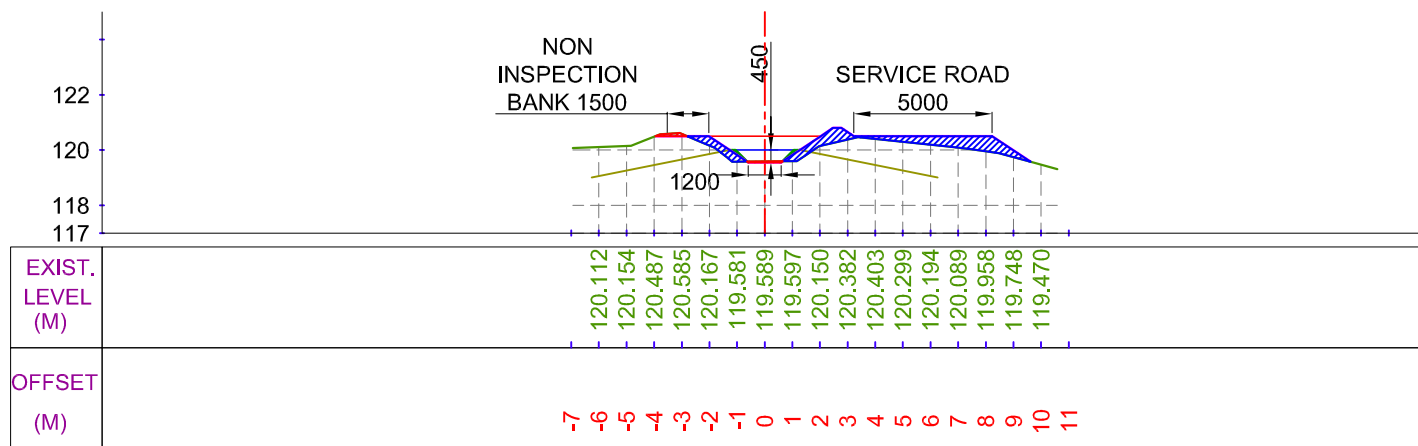
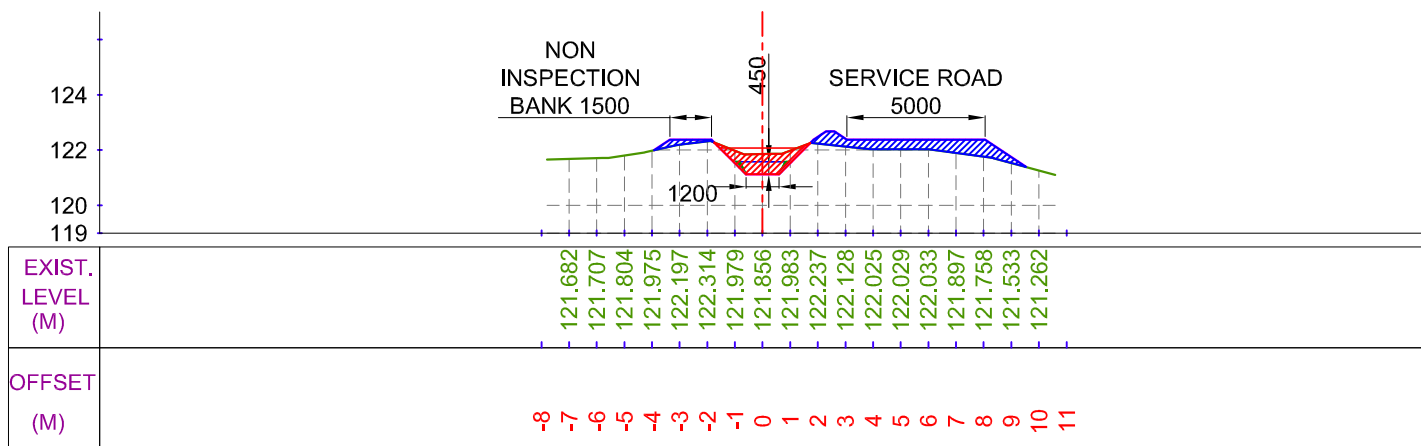
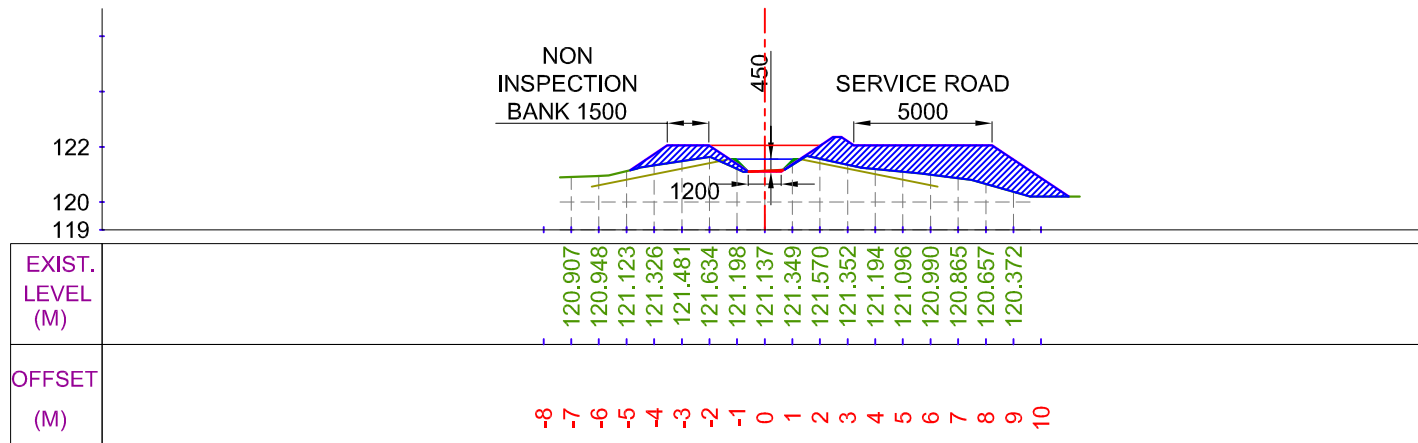
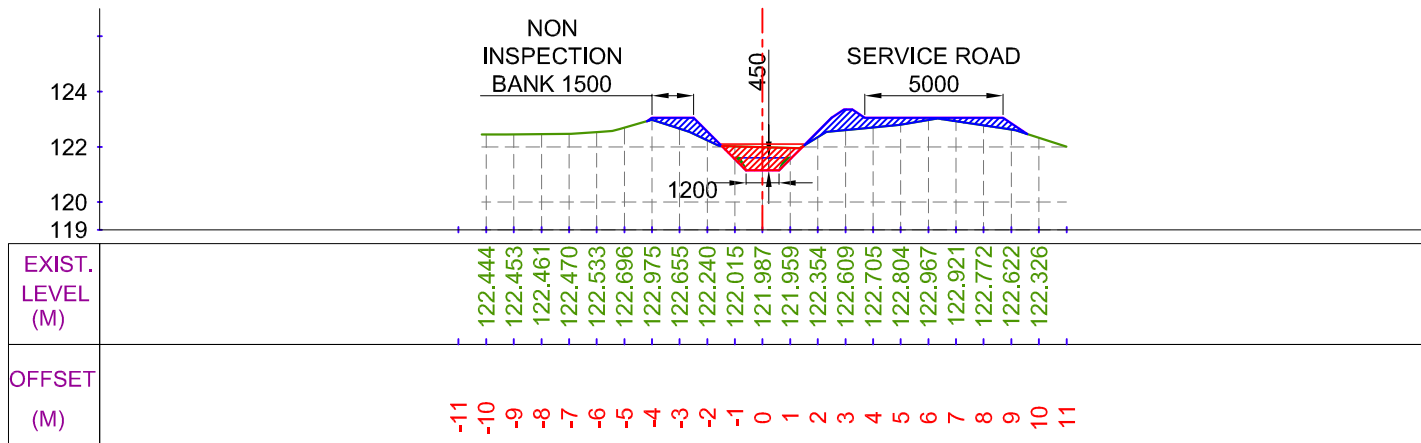
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

X SECTION OF PAWAI MINOR (OFFTAKE FROM 5+100 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

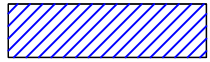
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-03/ XSEC- 5 of 5



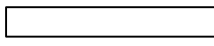
LEGEND



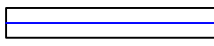
CUT AREA



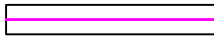
FILL AREA



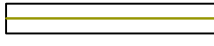
EXISTING BED LINE



F.S.L.



DESIGNED BED LINE



H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

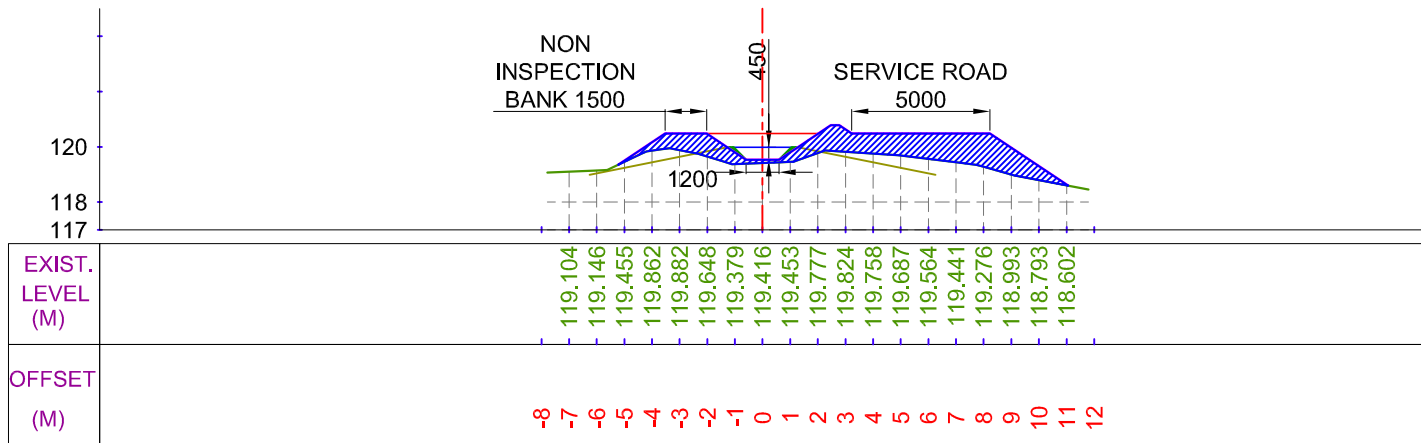
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

X SECTION OF BHUTAILI MINOR (OFFTAKE FROM 9+870 KM. (R), KOTWARA DISTRIBUTARY CANAL)

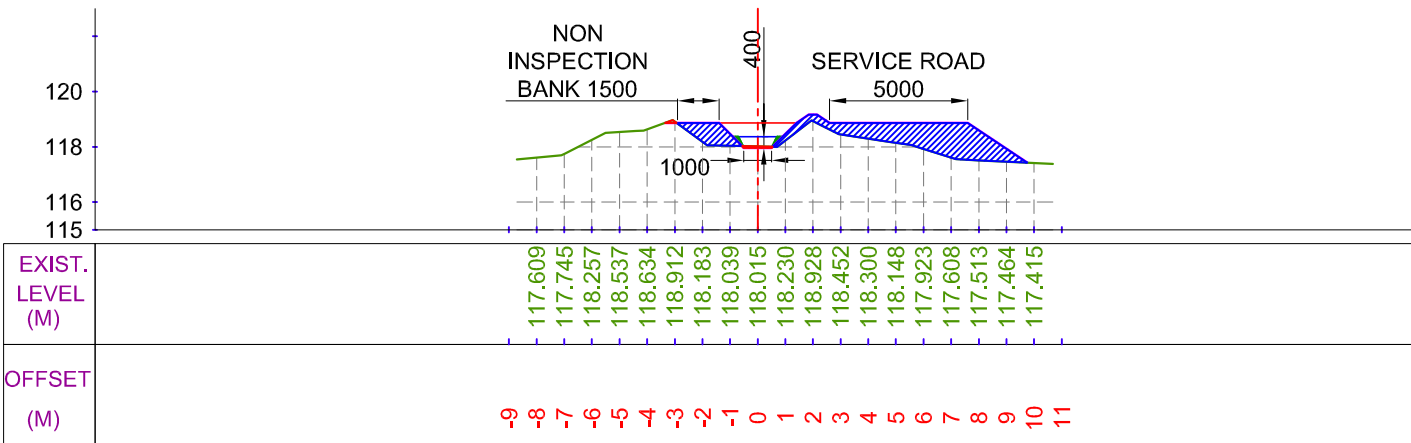
Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-04/ XSEC- 1 of 5



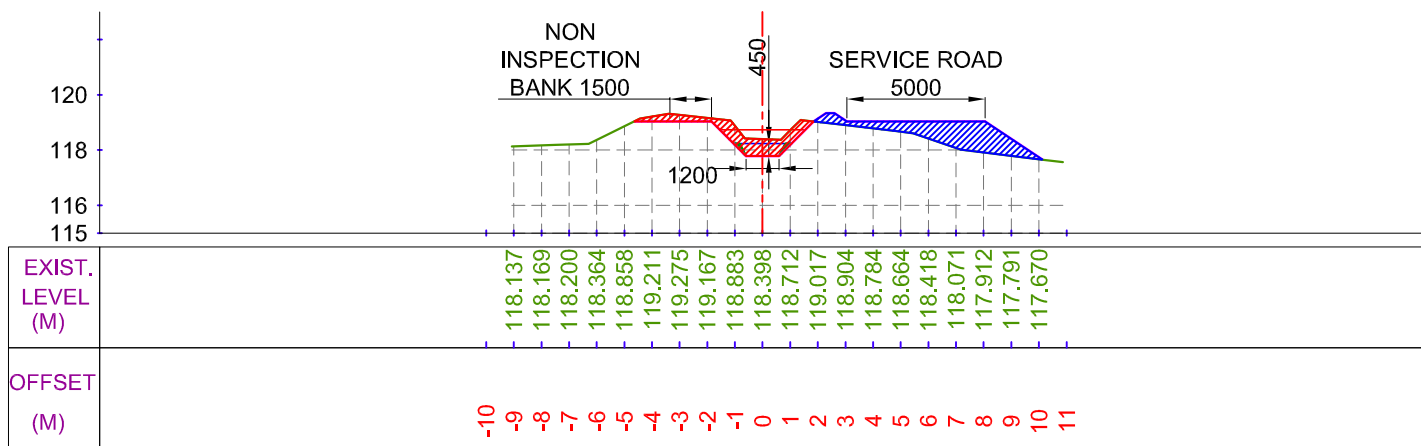
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 10.295

CH. (KM):- 0+500
DESIGNED BED LEVEL = 119.533 M



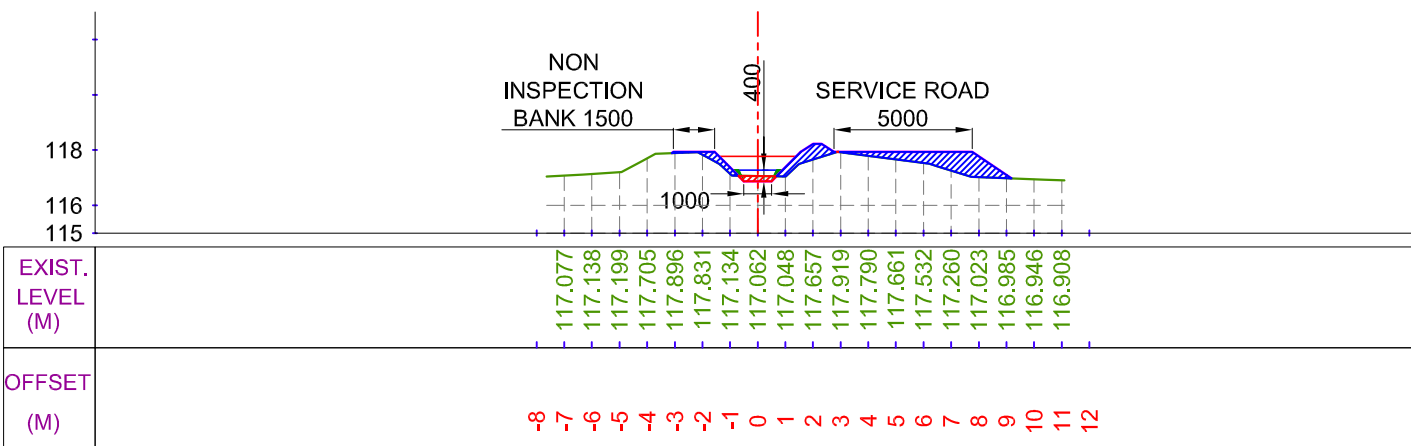
CUTTING AREA (SQ.M) = 0.074
FILLING AREA (SQ.M) = 7.046

CH. (KM):- 0+700
DESIGNED BED LEVEL = 117.964 M



CUTTING AREA (SQ.M) = 2.442
FILLING AREA (SQ.M) = 4.359

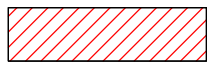
CH. (KM):- 0+600
DESIGNED BED LEVEL = 117.987 M



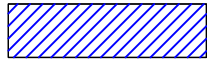
CUTTING AREA (SQ.M) = 0.223
FILLING AREA (SQ.M) = 3.437

CH. (KM):- 0+800
DESIGNED BED LEVEL = 116.874 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

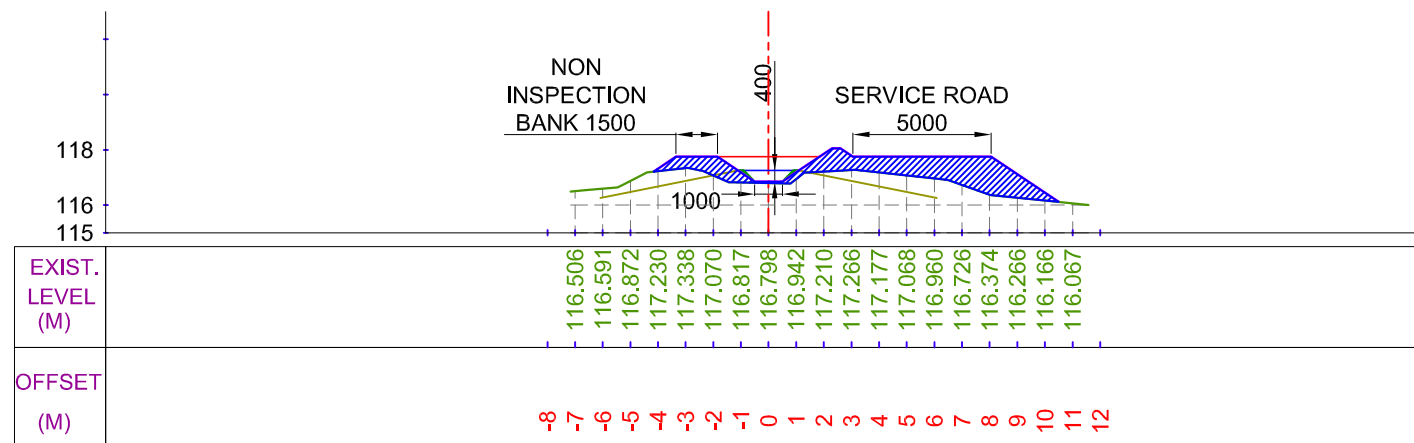
Drawing Title :-

X SECTION OF BHUTAILI MINOR (OFFTAKE FROM 9+870 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

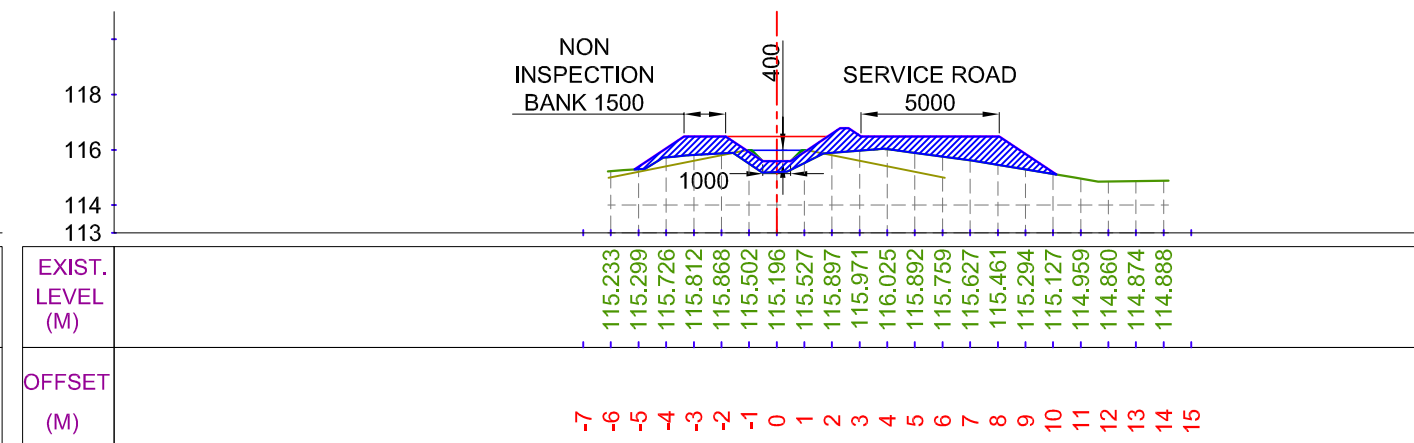
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-04/ XSEC- 2 of 5

X SECTION OF BHUTAILI MINOR



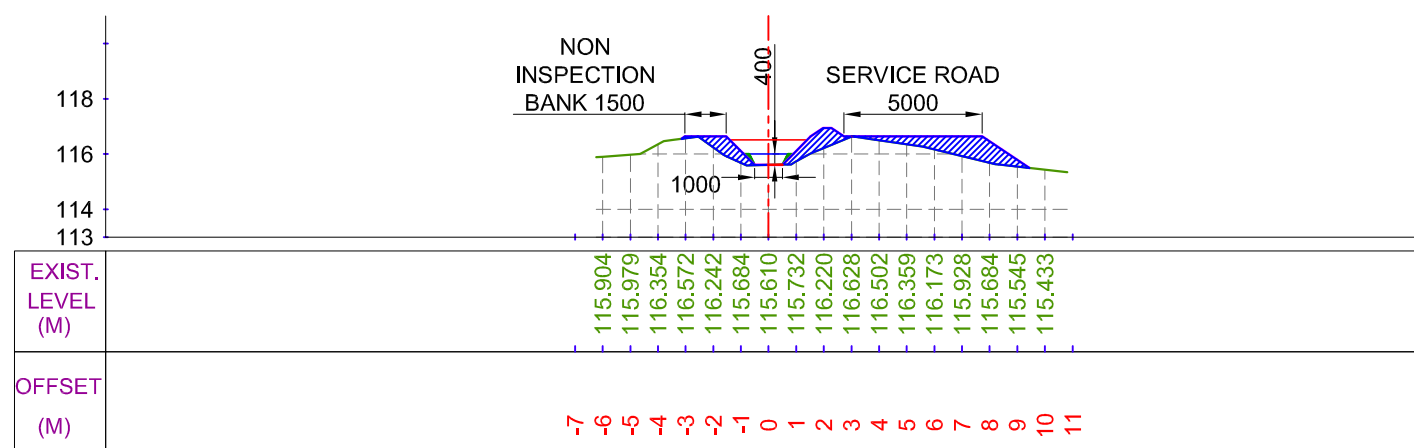
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.548

CH. (KM):- 0+900
DESIGNED BED LEVEL = 116.851 M



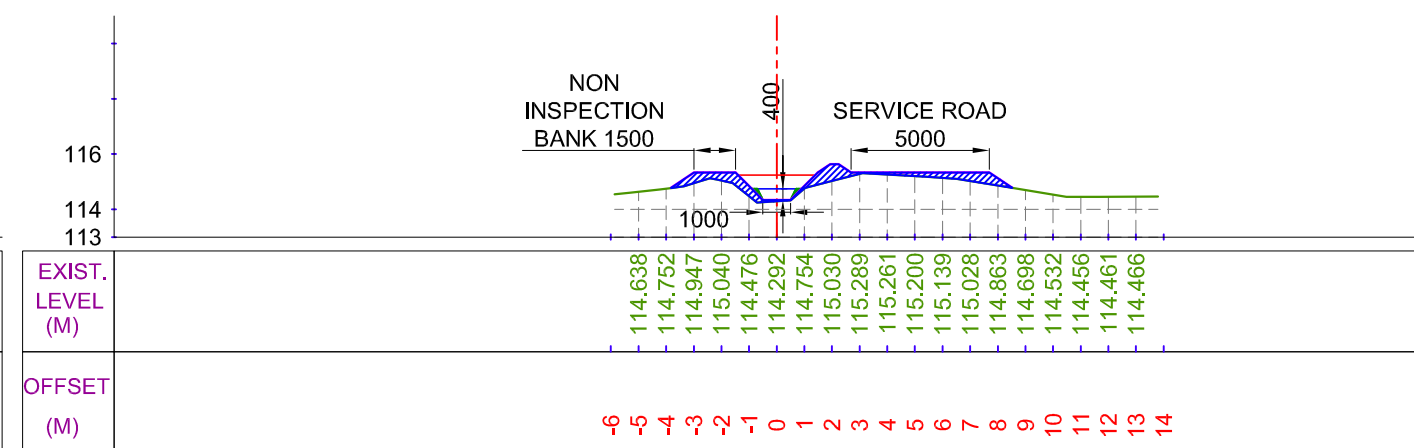
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.482

CH. (KM):- 1+100
DESIGNED BED LEVEL = 115.586 M



CUTTING AREA (SQ.M) = 0.003
FILLING AREA (SQ.M) = 4.472

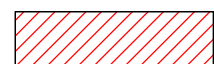
CH. (KM):- 1+000
DESIGNED BED LEVEL = 115.609 M



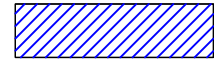
CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 2.744

CH. (KM):- 1+200
DESIGNED BED LEVEL = 114.343 M

LEGEND



CUT AREA



FILL AREA

	EXISTING BED LINE
	F.S.L.
	DESIGNED BED LINE
	H.G. LINE

Prepared by :-

WAPCOS LTD.



Project Title :-

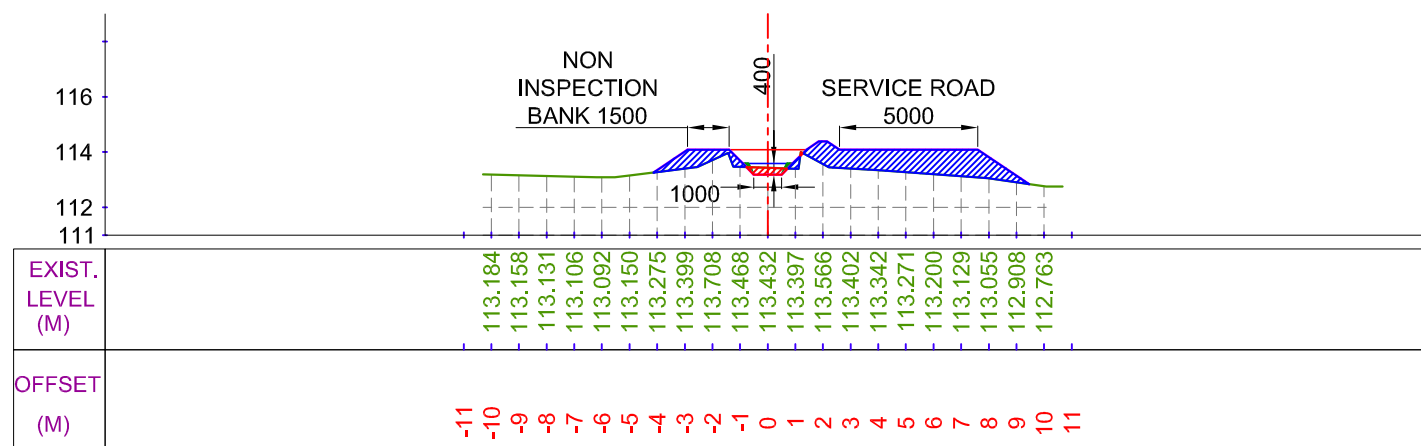
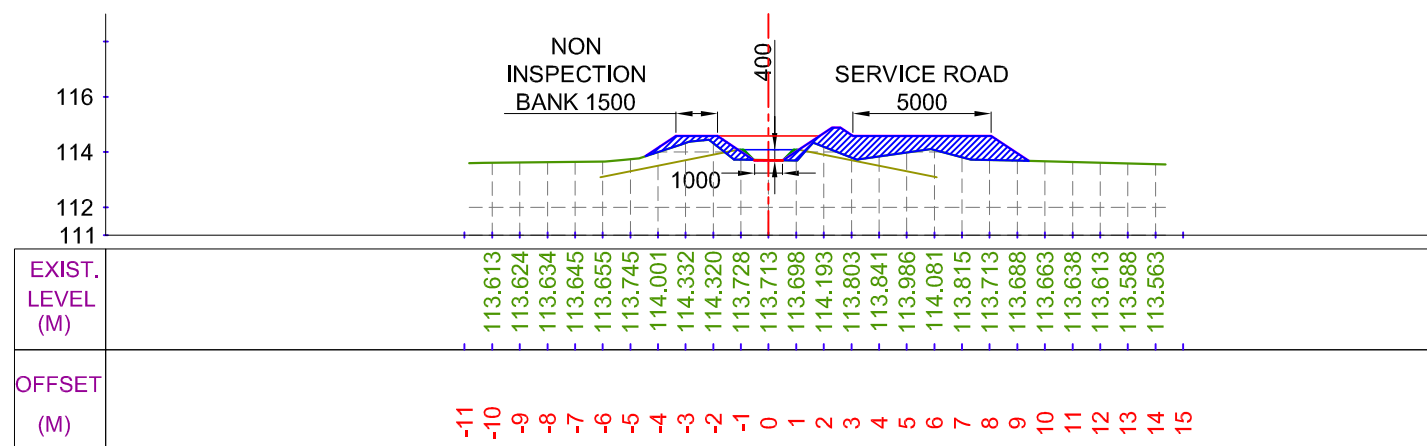
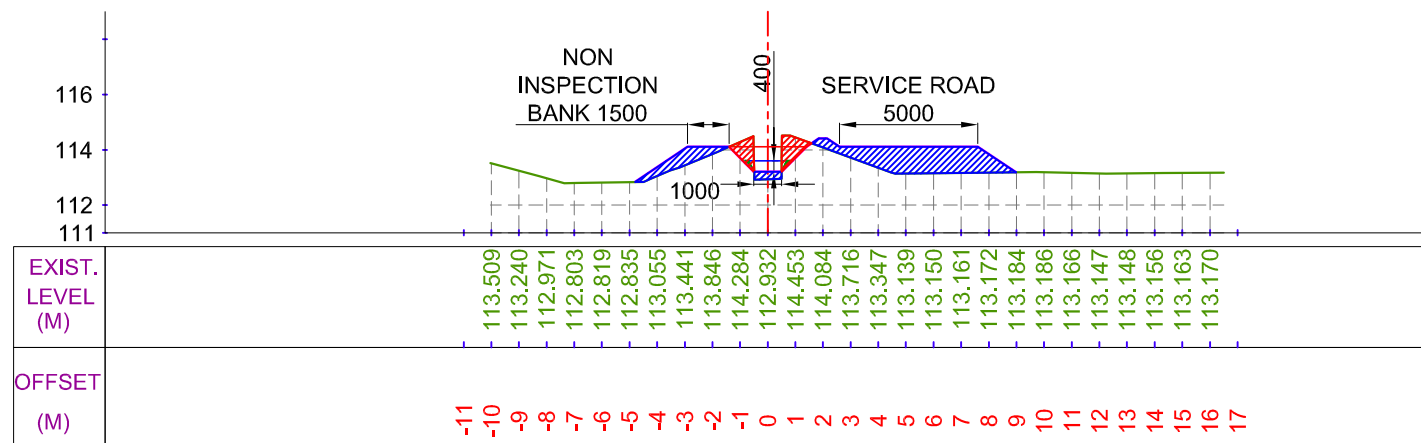
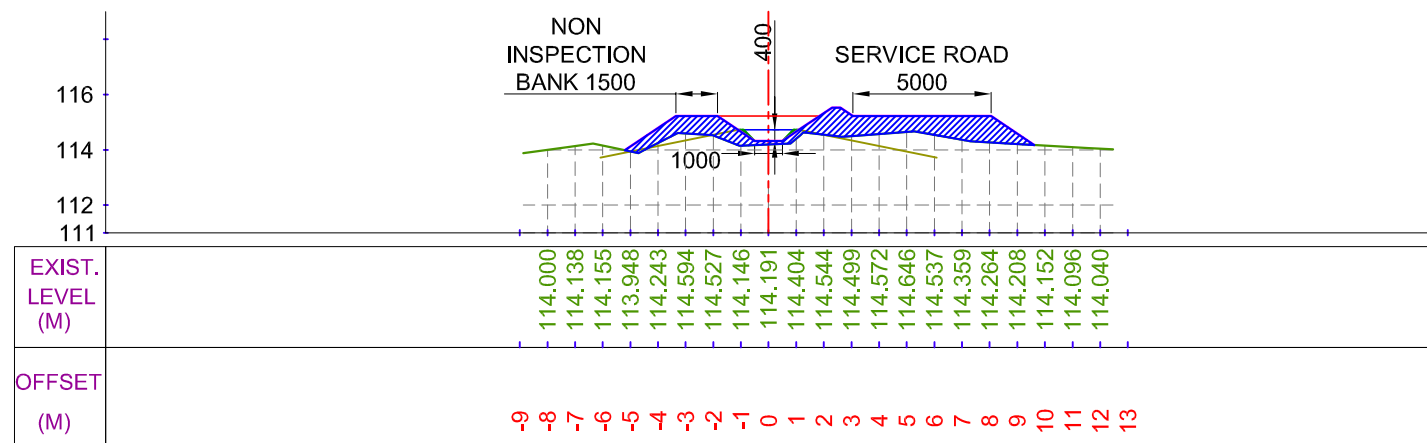
NORTH KOEL RESERVOIR PROJECT, BIHAR AND JHARKHAND

Drawing Title :-

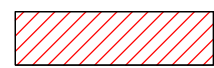
X SECTION OF BHUTAILI MINOR (OFFTAKE FROM 9+870 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

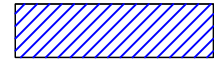
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-04/ XSEC- 3 of 5



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

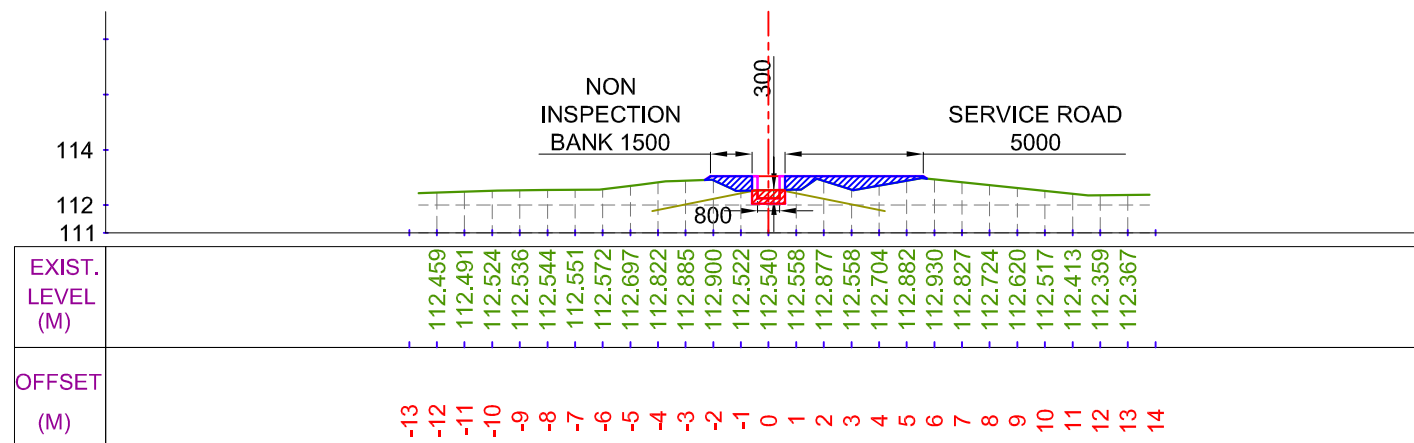
Drawing Title :-

X SECTION OF BHUTAILI MINOR (OFFTAKE FROM 9+870 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

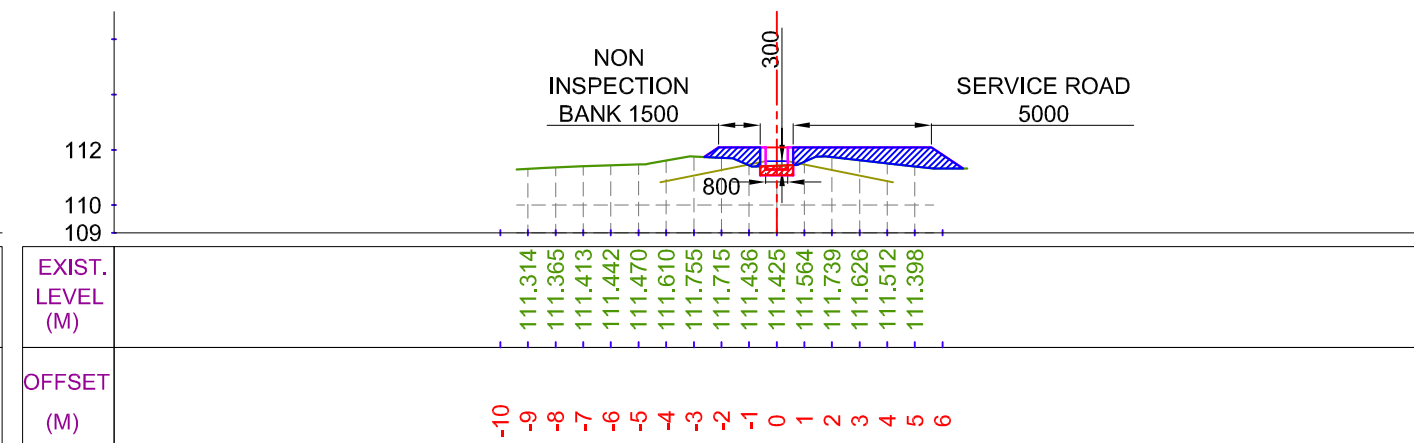
WAP/ INFRA/ NORTHKOEL/ BC/ R-35-04/ XSEC- 4 of 5

X SECTION OF BHUTAILI MINOR



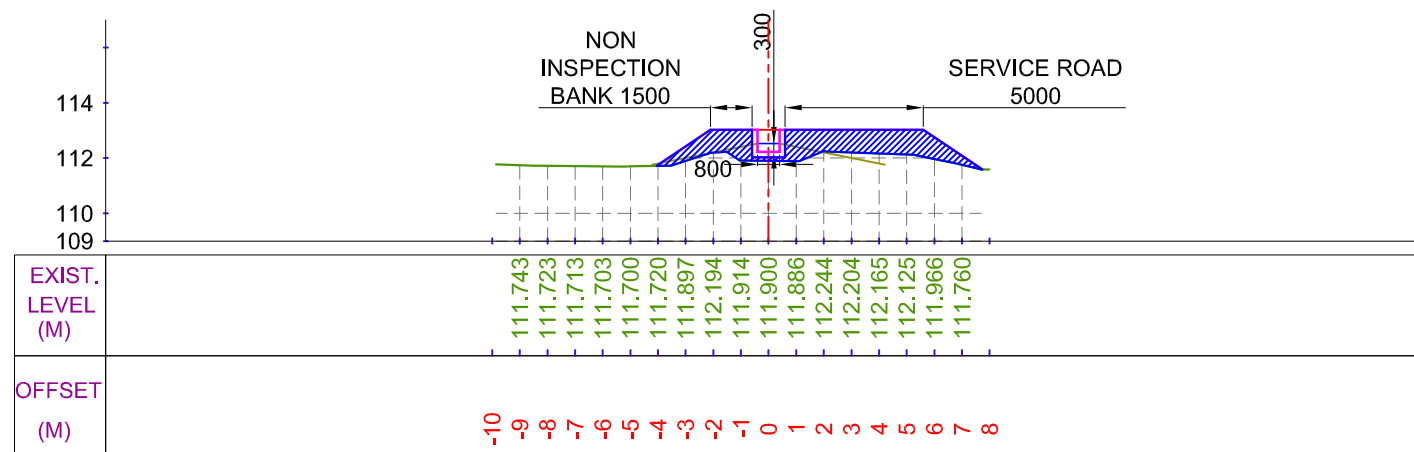
CUTTING AREA (SQ.M) = 0.591
FILLING AREA (SQ.M) = 2.171

CH. (KM):- 1+700
DESIGNED BED LEVEL = 112.247 M



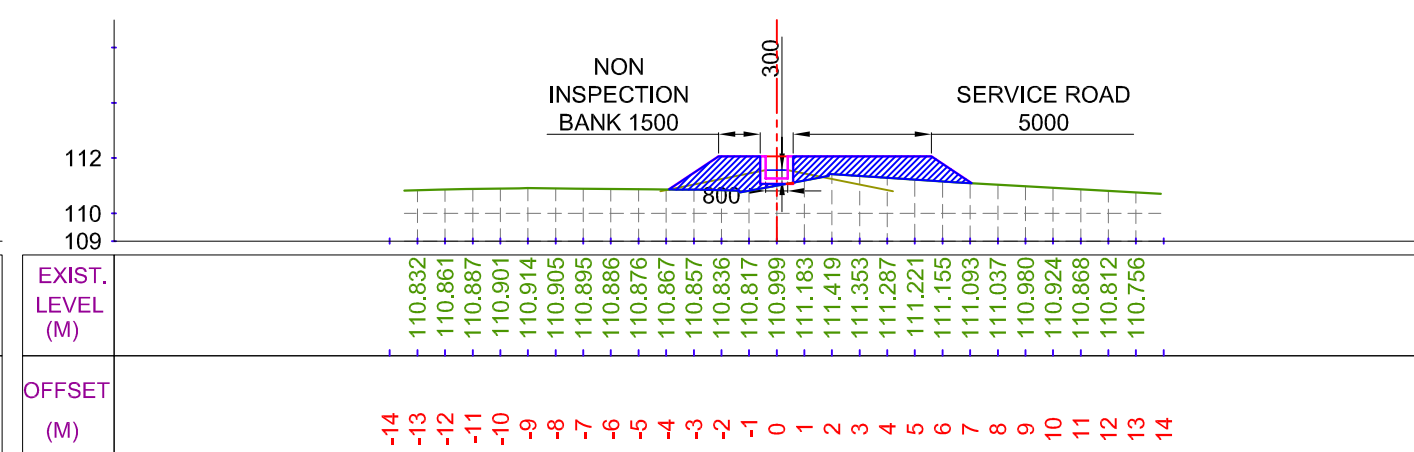
CUTTING AREA (SQ.M) = 0.406
FILLING AREA (SQ.M) = 3.903

CH. (KM):- 1+900
DESIGNED BED LEVEL = 111.286 M



CUTTING AREA (SQ.M) = 0.000
FILLING AREA (SQ.M) = 8.049

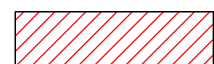
CH. (KM):- 1+800
DESIGNED BED LEVEL = 112.224 M



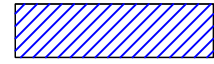
CUTTING AREA (SQ.M) = 0.005
FILLING AREA (SQ.M) = 7.561

CH. (KM):- 2+000
DESIGNED BED LEVEL = 111.262 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 SECTION OF BHUTAILI MINOR (OFFTAKE FROM 9+870 KM. (R), KOTWARA DISTRIBUTARY CANAL)

Drawing No. :-

WAP/ INFRA/ NORTHKOEL/ BC/ R-35-04/ XSEC- 5 of 5