

NOTES :

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. 100 DIA WEEP HOLES WITH SLOPE 1:20 SHALL BE PROVIDED AT SPACING OF 1000 C/C BOTH HORIZONTALLY & VERTICALLY (STAGGERED) IN FULL HEIGHT OF THE RETAINING WALL WITH BOTTOM MOST ROW 150mm ABOVE G.L.
4. BACK FILLING AND FILTER MEDIA BEHIND THE RETAINING WALL SHALL BE PROVIDED WITH SELECTED EARTH CONFORMING TO APPENDIX 6 OF IR:78-2000 HAVING PROPERTIES $\phi=35^\circ$, $C=0.7$ & 24 t/m^3 .
5. ALL FACE OF WALL SHALL BE PROVIDED WITH A MINIMUM STEEL OF 250mm² IN EACH DIRECTION. SPACING OF THESE BARS SHALL NOT EXCEED 300mm.
6. THESE DRAWING ARE APPLICABLE FOR M15 PCC OR M15 GRADE CONCRETE WITH PLUM. REFER SPECIFICATIONS FOR PLUM CONCRETE GIVEN IN THIS DRAWING.

PLUM CONCRETE SPECIFICATIONS:

THE SIZE OF STONE PLUMS MAY BE FROM 150-300MM. THE MAXIMUM DIMENSION OF THESE STONES OR PLUMS SHALL NOT EXCEED $\frac{1}{6}$ OF THE LEAST DIMENSION OF THE MEMBERS.

MATERIALS:

ALL PLUMS SHALL BE HARD, DURABLE, CLEAN AND FREE FROM SOFT MATERIALS OR LOOSEPIECES OR DELETERIOUS SUBSTANCE IN THEM & SHALL NOT HAVE SHARP.

CONSTRUCTION OPERATIONS:

DURING CONCRETING THE FIRST LAYER OF CONCRETE OF THE SPECIFIED MIX SHALL BE LAID TO A THICKNESS OF THE MAXIMUM SIZE OF THE PLUMS TO BE USED. THE PLUMS SHALL THEN BE LAID WHILE THE TOP PORTION OF THIS CONCRETE IS STILL GREEN BUT SUFFICIENTLY STIFF TO PREVENT COMPLETE SUBMERGENCE OF THE PLUM UNDER THEIR OWN WEIGHT. THESE PLUMS SHALL BE ABOUT HALF ENBEDDED IN THE CONCRETE & THE REMAINING PART EXPOSED 150 AS TO FORM A KEY WITH THE NEXT LAYER OF THE CONCRETE. NO PLUM SHALL BE USED FOR CONCRETE LAID UNDER WATER.

WHILE PLACING THE PLUMS, CARE SHALL BE TAKEN TO SEE THAT THE CLEAR DISTANCE BETWEEN ANY TWO PLUMS IS NOT LESS THAN EITHER THE WIDTH OR THICKNESS OF EITHER OF THE PLUMS. THE DISTANCE FROM THE PLUMS TO THE OUTER SURFACE FROM ANY STEEL REINFORCEMENT SHALL BE EQUAL TO GREATEST WIDTH OF PLUMS. IF PLUMS OF STRATIFIED STONE ARE USED THEY SHALL BE LAID ON THEIR NATURAL BED. STONES WITH CONCAVE FACES SHALL BE LAID WITH THE CONCAVE UPWARD THE THICKNESS OF THE NEXT AND SUCCESSIVE LAYERS OF CONCRETE SHALL BE AT LEAST TWICE THAT OF THE LARGEST PLUM.

QUALITY OF PLUM:

THE TOTAL VOLUME OF PLUMS SHALL NOT EXCEED 15% OF THE VOLUME OF THE FINISHED CONCRETE.

MIX OF CONCRETE:

PLUM CONCRETE 1:2:4 (1 CEMENT, 2 SAND, 4 GRADED STONE AGGREGATE 40 MM NORMAL SIZE) WITH 15% PLUMS.

CLIENT :



National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR TWO LANING OF JORAM - KOLORIANG ROAD (NH-713) FROM KM. 20.00 TO KM. 70.00 & KM. 138.00 TO KM. 158.00 (TOTAL LENGTH 70 KM) IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE

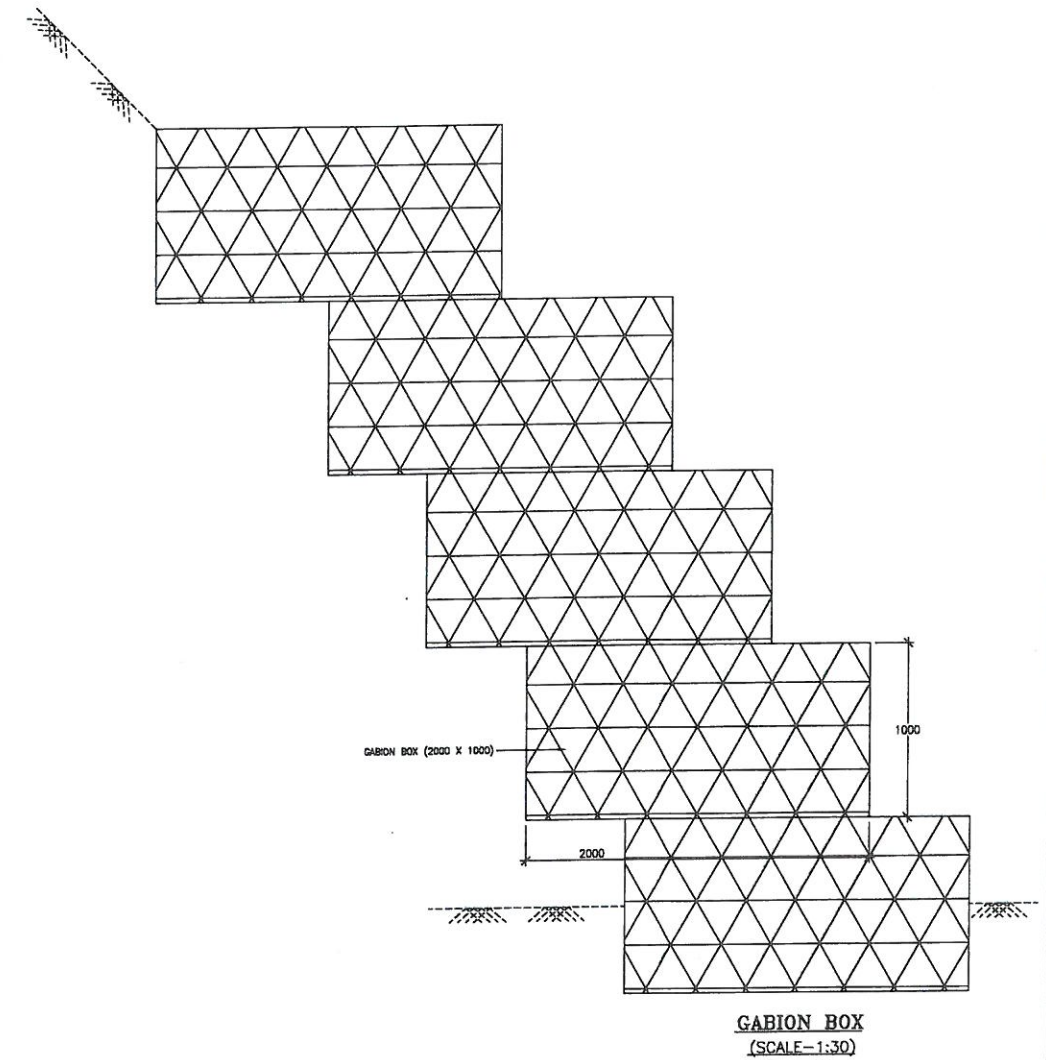
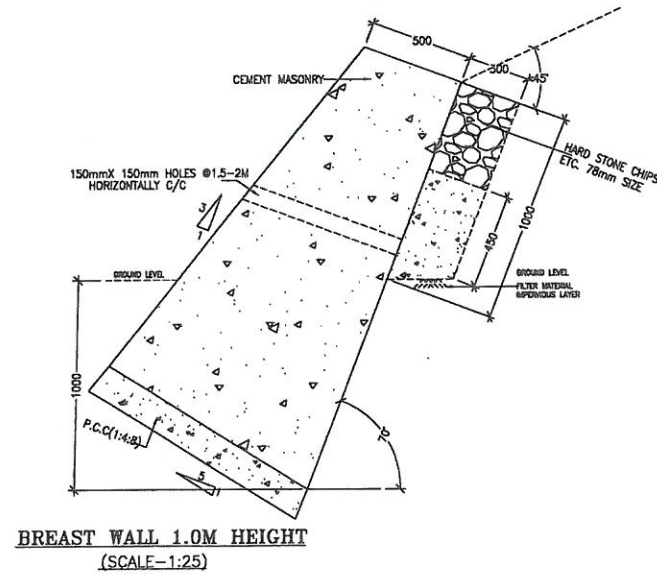
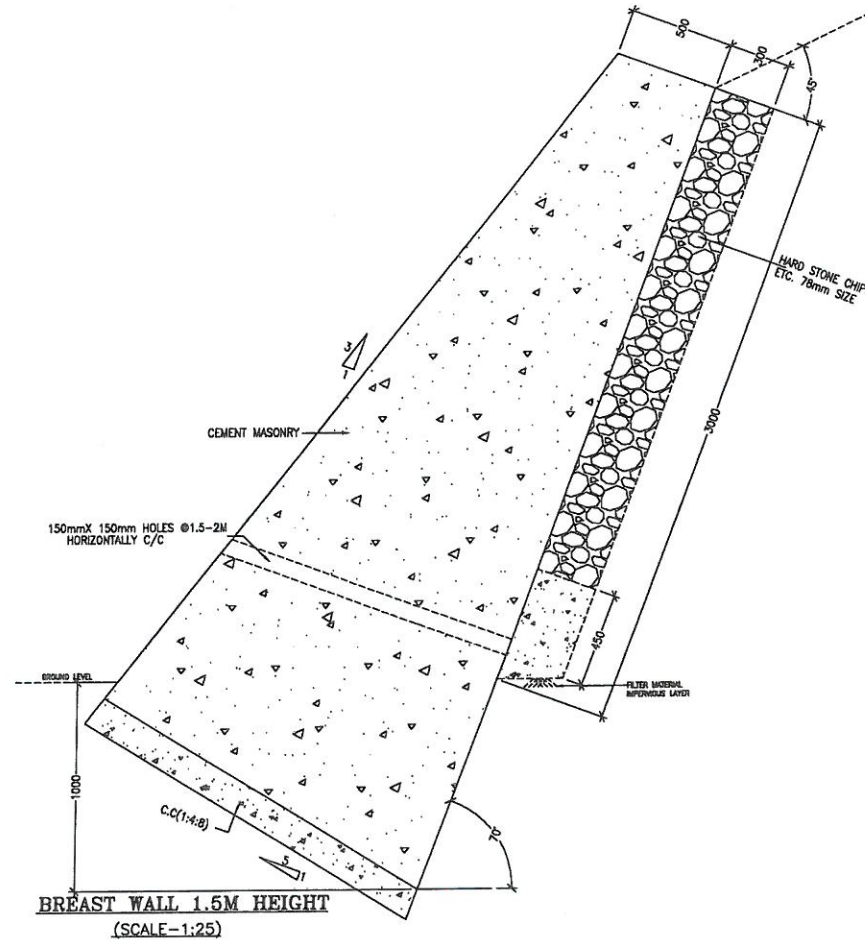
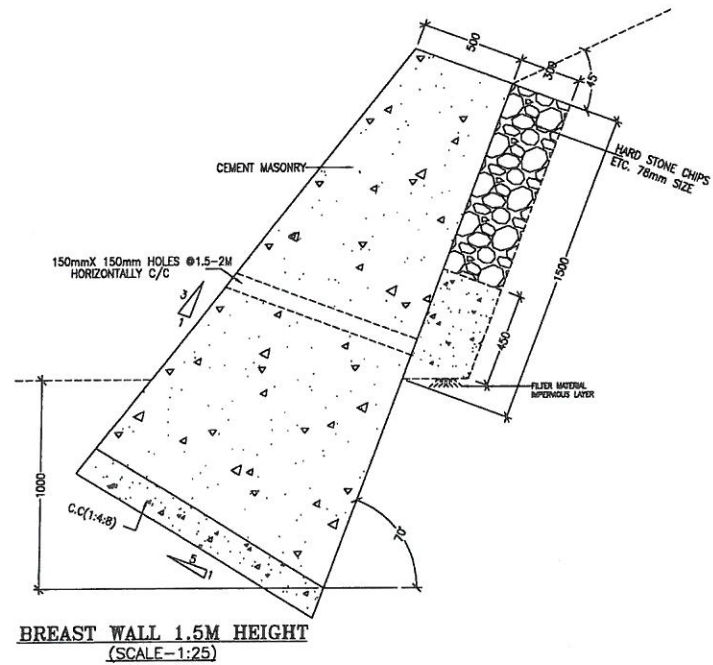
DESIGN CONSULTANT:



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			DRAWN BY :	PD	TITLE :	DETAILS OF RETURN WALL
			DESIGNED BY :	SG		
			APPROVED BY :	KG	DRG. NO. :	VSPL/1438/JK/DPR/GAD/RETURN WALL-02
REV.	DATE	DESCRIPTION	SCALE :	AS SHOWN	REVISION : R0	SEPT 2016



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CLIENT :



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CONSULTANCY SERVICES FOR PREPARATION OF FEASIBILITY STUDY AND DETAILED PROJECT REPORT FOR TWO LANING OF JORAM - KOLORIANG ROAD (NH-713) FROM KM. 20.00 TO KM. 70.00 & KM. 138.00 TO KM. 158.00 (TOTAL LENGTH 70 KM) IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE

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REV.	DATE	DESCRIPTION	DRAWN BY :	PD	TITLE :	DRG. NO. :	REVISION : R0	SEP 2016
			DESIGNED BY :	SG	TYPICAL DRAWING OF BREAST WALL GABION BOX	VSPL/1438/JK/PPR/BREAST WALL (SHEET 01 OF 01)		
			APPROVED BY :	KG				
			SCALE :	AS SHOWN				