

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED****SUB: 19/BVN/PIPE CULVERT-RCC ROAD/2022t-No- Work of Construction of Pipe culvert and RCC road in river between Bhuteshwar-Bhumbl village road near GMDC lignite Project Bhavnagar, District- Bhavnagar..**

<b>Part-2- RCC Road</b>					
<b>SR.NO</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
1	Excavation for foundation up to 1.5 M Dept including sorting out and stacking of useful materials and disposing of the excavated stuff minimum up to 50 meter lead in dense and hard soil as directed and specified by EIC , including all labours , tools , tackles , safety measures , transportation , loading , unloading etc. complete	25	CMT	0	0
2	-do- as above but for 1.5 mt to 3.0 m depth	5	CMT	0	0
3	Filling in foundation and plinth with selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	12	CMT	0	0
4	Supplying of graded stone aggregate of following sizes( For W.B.M ) Crushed stone aggregate for Hard Quality upto 63mm size, including transportation , labour, loading , un loading , tools , tackles etc complete as per direction.	38	CMT	0	0
5	Spreading the stone aggregate for rolling and W.B.M including filling the intesticies to required camber , ramming with labours including all tools, tackles complete as directed by EIC.	38	CMT	0	0
6	Supplying of murrum/binding materials ,including transportation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	12	CMT	0	0
7	Spreading of murrum/binding materials , filling the gaps in metal and leveling to camber and gradient, including required labour, tools, tackles, etc. complete as directed	12	CMT	0	0
8	Supplying & spreading of coarse clean sharp sand for crust in layers ,including transportation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	8	CMT	0	0
9	Spreading blindage / murrum or road crust filling the gaps in metal and leveling to camber and gradient as directed - Sand	8	CMT	0	0
10	Construction of Granular sub base (grade-II) by providing well graded material mixing in a mechanical mix plant at OMC carriage of mixed material to work at site, spreading in uniform layer (two layers) with motor grader or by other mechanical means on prepared surface and compacting with smooth wheel roller to 80/100 KN static weight achieve desired density technically complete for grading complete as per clause 401 of MORTH. As per detail specification mentioned in technical bid..	12	CMT	0	0

11	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, spreading the concrete with shovels, rakes and levelling to garde and camber, compacting with 8-10 tonnes vibratory roller, finishing and curing including finished in a continuous operation for completion of one panel, transportation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	6	CMT	0	0
12	Construction of un-reinforced, Controlled cement concrete pavement over a prepared sub-base of M-40 with 53 grade cement, coarse and fine aggregate confirming to IS:383, maximum size of coarse aggregate not exceeding 25mm, mixed in batching plant or in well equiped mixer machine having proportion of 1:1.3 :2.1 with cement consumption @ 473 kg per cmt , sand weight 645 kg and course aggregate 1039 Kg/cmt , transported to site, laid with trimix vacume de watering process using vacume dewatering , mechanical vibrator , mechanical flotter , mechanical Towel for finishing by mixture on. Including bonds(compound) agent , including cutting grooves of size etc. as per drawing and finished in a continuous operation for completion of one panel(4 mt X 4 mt. ) , however dimension will be as per the drawing) including provision of contraction, expansion, construction and longitudinal joints, joint filler as per the drawings, seperation membrane, sealent primer, joint sealent, bebonding strip, admixture as approved, curing compound, formwork, rails, guidewires, finishing to lines and grades as per drawings as specified in clause 602 of MORTH , including applying bonding coat and providing and fixing vertical dowel bars, including the cost of all material, labour charges, transportation and conveyance, loading and unloading etc. complete with all lead and lift as per specification and directed by the engineer. (Min. Cement consumption:425 Kg/Cmt)	16	CMT	0	0
			TOTAL		