

# GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED

**T-No-13/ULP/CULVERT WORK & ALLIED PROTECTION WORK /2024 Work of Construction of RCC Culvert and allied protection work in diverted Nallah at GMDC lignite project Umarsar , Tal: Lakhpat, Dist: Kutchh**

## PRICE BID

Sr. No.	Description	QTY	UNIT	RATE	AMOUNT
1	Excavation in all sort of strata and formations incl. depositing the unuseful excavated stuff as and where directed incl sorting and stacking useful materials as directed upto 30 mt lead etc. complete incl. dewatering. ( Depth 0 TO 3.0 mt ) (For all type canal & foundation trenches of C.D. works )In overburden, including hard murrum.	8241.59	Cum		
2	Back filling with appropriate excavated material behind the structures or refilling the trenches with excavated useful material including watering ramming, consolidation, dressing of canal bed, canal side slope with required tools & tackles etc complete with all lead and lift.	4521.94	Cum		
3	Prov. & Laying in position Controlled cement concrete using cement, sand and crushed aggregate by mass and machine mix for C.C work in canal lining incl. necessary formworks centering scaffolding compaction by plate vibrator, curing as directed with all lead & lift etc complete incl dressing the bed and trimming the canal section if required and minor filling with murrum / earth as per site condition to the correct profile, incl providing bitumen joints as per drawing and specified interval. (With using paver machineries.) a. For 10cms thick cast-in-citu canal lining in M-15 grade of conc. with MSA-20mm incl providing pair of horizontal and transverse sleepers of size 150x75mm and 3.0 mt c/c in c.c. M-10 grade	7256.65	Smt		
4	Providing and casting cement concrete M-150 and curing complete including cost of formwork, manpower, machineries, tools, tackels, Labours etc. complete.- For Foundation, Plinth and at Ground Level	131.99	Cum		
5	Prov. and Laying in position Controlled cement concrete using cement, sand and crushed aggregate by mass and machine mix for R.C.C/CC work including necessary formworks centering scaffolding compaction by mechanical vibrator, curing as directed with all lead & lift etc complete Excluding the cost of reinforcement FOR SKIN CONC., FRICTION BLOCKS, ST. BASIN C. Concrete grade M-25 and MSA-20mm	131.25	Cmt		
6	Prov. and Laying in position Controlled cement concrete using cement, sand and crushed aggregate by mass and machine mix for R.C.C/CC work including necessary formworks centering scaffolding compaction by mechanical vibrator, curing as directed with all lead & lift etc complete Excluding the cost of reinforcement. Concrete grade M-25 and MSA-20mm	3946.93	Cmt		
7	Providing and laying controlled cement concrete <b>M.350</b> and curing complete including the cost of machineries, tools, tackels, manpower, labour, formwork for reinforced concrete, curing, etc. complete. work in (A) Foundations, footings, Base of columns, Slabs and Mass concrete. (Cement Level 500 Kg.)	565.17	Cum		

8	Supplying, fabricating and placing/fixing in position TMT reinforcement bars FE-500/500 D (Ductile) of TATA or equivalent (Min.elongation14.5%as per relevant latest IS standards for manufacturing of reinforcement) confirming to IS1786 reinforcement for RCC structures/ items as per design including transporting steel to the work site, handling, de-coiling, cutting-bending cranking by machines, fabricating to required shape, placing in position and tying/binding the system with MS18 gauge wires, welding if necessary, keeping it in position during concreting by means of stays, blocks, ties, spacers, chairs, hangars, etc. for all floors / all levels / all heights complete as per drawings, specifications and direction of Engineer in Charge. Measurement will be paid on the length basis and converted into weight by using standard co-efficient (rolling margin's and wastage shall not be paid).The quoted rate should be inclusive of the cost of Binding wire, and the same will not be measured and paid separately. For all civil, plumbing, electrical & infrastructure works.	367530.64	Kg		
9	Providing and filling rubbles including hand packing and filling interstices with quarry spalls behind abutments and between returns as directed.	55.43	Cum		
10	Providing & laying rubble pitching laid in cement mortar 1:4 proportion with the surface pointed with cement mortar with 1:3 proportion for following thickness including machineries, tools, tackles, manpower, labour, curing etc.complete for all lead & lifts.(a) 40 cm	1011.69	Sqmt		
11	Pointing on coursed stone masonry with cement mortar 1:3 (1- cement: 3- coarse sand) including machineries, tools, tackles, manpower, labour, curing etc.complete for all lead & lifts (A) Flush pointing	1011.69	Sqmt		
12	Providing P.V.C 100mm diameter weep hole having width as per wall thickness including necessary iron gratings as per drawings	96.00	No		
13	Providing and laying filter media 600 mm thick as directed at the back of abutement return and wing wall as per detailed specification .	191.56	Smt		
14	Box cutting the road surface to proper slope and camber for making a base for road working incl. removing the excavated stuff and depositing on the road side slopes as directed up to 50m. lead.	1575.00	Cmt		
15	Rolling and consolidation of soling including filling in depression which occur during the process, with power roler 8 tonne to 12 tonne.	1500.00	Sqmt		
16	Construction of Granular sub base (grade-II) by providing well graded material mixing in a mechanical mix plant at OMC carraige of mixed material to work at site, spreading in uniform layer (two layers) with motor grader 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..	675.00	Cmt		

17	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.	450.00	Cum		
18	Providing and laying HDPE sheet of 75-100 micron thick and provide lap of 0.3m length in longitudinal and transverse direction of approved quality as directed by engineer in charge.	1500.00	Sqmt		
19	Construction of un-reinforced, dowel jointed, Controlled cement concrete pavement over a prepared sub-base of M-40 with 53 grade cement, coarse and fine aggregate conforming to IS:383, maximum size of coarse aggregate not exceeding 25mm, mixed in batching plant or in well equipped mixer machine as per approved mix design, 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 cutting grooves of size etc. as per drawing and finished in a continuous operation for completion of one panel(4 mt X 4Mt, 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 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:400 Kg/Cmt)	450.00	Cum		
20	Providing and fixing in position mild steel dowel bar of 32mm diameter and 500 mm length at 200 mm c/c in transverse direction at expansion joint which is provided at 4.0 m c/c longitudinally with plastic cap of 3 to 5 mm thick black coloured as a cover of dowel bar which sustain the movement of dowel bar including cutting, placing of same, with all machinery, tools, tackles, labours etc. complete..	1125.00	Rmt		
21	Providing and fixing in position TMT tie bar of 12mm diameter and 500mm length at 430 mm c/c in longitudinal direction as per IS 1786 (Latest)	206.74	Kg		
<b>Total</b>					