

	E Tender no-11/LR /RCC SUMP/2018				
Sub:Construction of RCC Under Ground sump of 1000 KL Capcity at Colony Premises at GMDC Lignite Project Rajpardi					
Schedule of Quantity					
Sr.No	Description	Qty.	Per	Rate	Amount
1	Dismantling of existing pipes with fittings and clamps including stacking the materials and submitted to store as per directives , including all materials , labour and necessary tools and equipment with all lead and lift.(For any dia. of pipe)	30.00	Rmt	0	0
2	Excavation for Sump including removing and spreading the excavated stuff directed with all lead and lift , all labours , tools , tackles , materials, watering ramming etc. complete and as directed. - In Hard Murrum (1) 0.0 m to 1.5 m depth	106.82	Cmt	0	0
3	-do as above but for (2) 1.5 m to 3.0 m depth	24.28	Cmt	0	0
4	Filling with available excavated earth(excluding rock) in trenches. Plinth, sides of foundations etc. in layer not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with all lead lift, all labours , tools , tackles , materials required etc. complete as directed	17.63	Cmt	0	0
5	Filling in Foundation and plinth with sand under floors including watering ramming, consolidating and dressing with necessary tools , tackles etc. complete and as directed (Below Panel Room Plateform)	0.50	Cmt	0	0
6	Providing and casting in situ mass cement concrete in 1:4:8 proportion using granite quartzite black trap metal of size 25 mm to 40 mm including consolidation curing , with all lead lift, all labours , tools , tackles , materials required etc. complete etc. complete as directed.	8.29	Cmt	0	0
7	Brick work using common burnt clay building Conventional bricks having crushing strength not less than 35kg./Sq.Cm.in Foundation and superstructure above plinth level upto floor two level in Cement Mortar 1:5 (1-Cement-5 fine sand) including necessary labour and scaffolding up to two floor , as directed .	0.76	Cmt	0	0
8.1	Providing and casting in situ C.C in grade M25 (Proportions as per mix design or as per table 9 of IS 456-2000 in masses by weigh batching)using granite, quartzite trap black metal of size 12mm to 20mm or 6mm to 12mm including scaffolding, centering, Formwork,needle vibrated consolidation, curing and hydraulic testing complete (excludign cost of reinforcement)upto 6m height or depth from Av.G.L for all Structure with water proofing compound with all lead and lift .(1)Bottom slab / raft with shuttering	13.58	Cmt	0	0
8.2	Top/Roof Dome	12.00	Cmt	0	0
8.3	slant slab/conical wall or conical shell	15.07	Cmt	0	0
8.4	slant slab/conical wall or conical shell(For Stair)	1.13	Cmt	0	0
8.5	Beams/ Ring Beams /Ring girders	1.51	Cmt	0	0
9.1	Supplying cutting,bending,binding, and placing in position Reinforcement steel as per plan and design and as per ISS 2502 including cost of steel and binding wire lift upto 6m height or depth below G.L for all diameter. CRS Steel all diameter Fe-500 grade confirming to relevant IS. (TATA Ticon,Vizag,SAIL,JSW,Coromandal) with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC. (1) For Sump	6.32	MT	0	0
9.2	-do- as above for Stair	0.17	MT	0	0
10.1	Providing 20 mm thick double coat mala cement plaster on brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing etc. complete, with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC. .(1) For Internal Plaster	202.66	Smt	0	0
10.2	-do as above but for External Plaster	141.12	Smt	0	0

10.3	-do as above- Cement Plaster(Over Panel Room Plateform)20mm thick in 1:2 C.M using water proofing compound of approved quality including finishing etc. complete.	3.51	Smt	0	0
11	Providing and fixing C.I Manhole cover 0.60 M X 0.45M size having weight not less than 35 Kg.in Concrete / Masinry with with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC.	4.00	Each	0	0
12	Fixing C.I Step in RCC in C.M 1:3 including necessary C.C for jointing etc. complete with Epoxy paint including cleaning the surface by scrapping and air blowers to the satisfaction of Engineer-in-Charge necessary scaffolding etc. complete and giving satisfactory hydraulic test for water tightness as per IS Codes with all lead , lift , all labours , tools , tackles , materials , fitting , spares required for the work etc. complete and as direcetd by EIC, Steps should be fixed properly as per drawing during concrete work. (Steps to be embeded 20cm deep inside thewall, fixed 40cm apart vertically and staggered laterally and 20cm beyond the surface of wall)	11.00	No	0	0
13	Providing and fixing water level Indicator or depth gauge painted on TW plank 25mm / MS Plate 4mm thick float, level indicator sliding wire on standard pullies including necesaary arrangement to prevent the swinging etc. Complete with calibrator upto 5m height	1.00	No	0	0
14	Providing Submersible Pump With SS CF8M Impeller, C.I. casing , SS316 shaft suitable for 3 phase, 415V,50Hz, AC Supply Submersible motor having TEFC eclosure with class F insulation and iP 68 protection . The Pump shall be operated at 1450 RPM. The scope shall include all required accesories viz. pump delivery pipe and header pipe including specials (M.S/Ductile Iron/HDPE),check valve,sluice valve, Pressure gauge automatic coupling device,guide pipe chain with shacle,thrust block flat submersible cable upto starter panel through suitable size G.I pipe(20 mtr 3 core flat copper conductor,PVC insulated cable for each pump motor set) with necessary electrical connection and electrical control panel with starter as per the specification.The pump set shall be provided along with automatic shut down arrangement when water level in pumping station will be go down to the minimum water level(M.W.L).Casing C.I SS CF8M Impeller, Bronze casing wearing ring and bearing bush, Mechanical seal Sic vs Sic,CS/SS Bearing, SS shaft with sleeve,SS Stainer and MS Motor body., with all lead , lift , all labours , tools , tackles , materials, any type of accessaries, fittings , spares etc. to commissioned the pump , required for the work etc. complete and as direcetd by EIC For 7.5 HP	1.00	Each	0	0
15	Providing and fixing flanged steel cylinder reinforced concrete or C.I.D.F /Class A pipes Horizontally /vertically from GL to 25.00 meter height for R.C.C Reservoir including providing clamps jointing of two pipes and at every 3m including jointing materials such as nuts, bolts,bends,Tees,Reducers rubber packing, hydraulic testing and necessary scaffolding etc.complete with allrequired safety measures , with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC . For 100mm(For Rising Pipe and Gravity Pipe)	99.50	Rmt	0	0
16	Providing colour coated corrugated G.I sheet of class-3 roofing fixed with galvanised iron J or L Hooks,Bolts and nuts 8mm diameter with bitumin and G.I implet washer or G.I limpet washer.filled with white lead complete excluding the cost of purlins,Rafters and Trusses.(1)0.80mm thick sheet.(For Panel Room Roofing)	4.86	Smt	0	0

17	Providing , fabricating and Fixing the Steel Work, welded in Built up sections framed work including cutting,hoisting fixing in position and appying a two coat of red lead paint on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleaning the surface of all dirt, dust and other foreign matter , including with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC .(For Panel Room including both Steel work and Painting Cost.	83.99	Kg	0	0
18	Providing and fixing C.I Cowl type ventilator with air filter Jali in CC 1:2:4 , bolts and nuts complete , including cost of jointing materials etc. Complete.(1) 6 " dia	2.00	No	0	0
19	-do as above for 4 " dia	2.00	No	0	0
20	Providing and Supplying ISI mark CIDF Sluice Valves,butterfly valves andand Reflux valves following class and diameter including all taxes,insurance,transportation,freight charges,inspection charges,loading, unloading,conveyance to departmental stores,staking etc.complete , including with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC (A)Sluice valve with ISI mark only.(A1)PN-1 With hand wheel /cap operated (PD type short body) (4)100mm	3.00	No	0	0
21	Demolition including stacking of serviceable materials and disposal of unserviceable materials with with all lead , lift , all labours , tools , tackles , materials required for the work etc. complete and as direcetd by EIC For R.C.C. Work	1.13	Cmt	0	0
22	Providing and applying Cement Plaster 20mm thick in 1:2 C.M using water proofing compound of approved quality including necessary curing , labour,tools,scaffolding with finishing etc. complete.(Plaster to Existing concrete shaft by providing chicken mesh of 0.56 mm thick)	11.30	Smt	0	0
23	Providing specified size (as per structure drawing) rebar shear connectipon embeded into existing concrete at any height, using HILTI-HIT HY 150 resin chemical or equivalent etc complete as per HILTI specification and instruction of Architect / Structure engineer . the rate shall include cost of material , lobour, scaffolding, equipment and execution cost.,with all lead , lift , tools , tackles , required for the work etc. complete and as direcetd by EIC	240.00	No	0	0
24	Providing, supplying, fabricating and fixing the MS hand railing having vertical post of MS pipe of dia. 75 mm with base plate of 5 mm thick welded with existing reinforcement or lug of 8 mm dia 100 mm long grouted in rich concrete, fixing of MS flat of 50mmx5.2mm size along the length of railing on vertical post, providing of horizontal stiffeners to be fixed along the length of the railing from GL to Top with vertcal MS pipe post of 50 mm. dia , including all labours, machineries, welding machine, tools tackles, all type of manpower, etc . with one coat of primer and two coats of enamel paint to complete the the work to the satisfaction of EIC. . This work is to carried out in existing stairs having total height form GL to 25 Meter height of over head water tank.	601.93	Kg	0	0
25	Providing and Fixing PVC Water Stopper of Gauge minimum 8 to 12 mm. Height 250 mm at the joint of the RCC wall , including with lapping of minimum 150 mm. , includng fixing of water stopper at the center of the wall thickness equally depth in each lift including all material , labour , tools , tackles, scaffolding , safety measures , lead , lift etc. complete and as directed by EIC.	80.00	Rmt	0	0

