

**GUJARAT MINERAL DEVELOPMENT CORPORATION LTD**

**Tender No-16-PP-FIRE HYDRANT LINE-2020-Work of Supply , Installation , Testing and Commissioning of New Fire hydrant line with required accessories at 2x125 MW Thermal Power Station , Village- Nani Chher , Tal: Lakhpat, Dist- Kutchh.**

**PRICE BID**

Sr.No	Description	Qty	Unit	rate	Amount
1.1	Supplying , laying, lowering, testing and commissioning, of the following sizes Class C, (heavy duty) ERW Carbon steel, black MS pipe/Hydrant post conforming to IS : 3589/1239 grade FE 410 including fittings like elbows / tees/flanges/tapers/clamp/MS Support/nut and bolts /gaskets / welding / cutting / welding rod / Reducers etc on surface and providing supports and coating with (a) Internal : Blast cleaning Sa 2.5 Amine cured two components solvent free epoxy coating 400 micron in single coat. (b) External: Blast cleaning Sa 2 5, 2 coat of 100 micron, Phenalkamine high performance epoxy, 1 top coat of 50 micron, Acrylic polyurethane and painting with one coat of metal primer and two or more coats of synthetic enamel paint of required shade complete as required For the entry gate the same pipes shall be laid underground as per guidance of engineer- in charge through RCC NP4 hume pipe and with relative required size and dia of Hume pipe as require. All tools tackles, welding machine, consumables, manpower etc. are in scope of agency. Supply,installation,fixing(above/underground ..fire red color IS :- 2932. corrosion by wrapping and coating material as PER IS :-10221: 1982.Above ground Location-mention straight line in drawing, under ground should be provided where road after road it is continue to above ground. The excavtion and refilling includes where this works are require. (1.1) For Hydrant post 80 NB - wall thickness 4.85mm , C Class according IS :-908 each hydrant pipe length is approx. 1.20 mt above ground and but as and when required length will be variable. Location as directed by EIC.	72.00	Mtr	0	0
1.2	-Do- as above item no. 1.1 but for <b>Risers pipe 80 NB</b> , wall thickness 4.85 mm For <b>above ground only</b>	230.00	Mtr	0	0
1.3	-Do- as above item no. 1.1 But for Risers pipe 100 NB ,as per IS 3844 for internal hydrant and IS 13039 for external hydrant, wall thickness 5.4mm, For above ground only	230.00	Mtr	0	0
1.4	-Do- as above item no. 1.1 and 1.3 For water monitor of length 1.2 mt but as and when required length will be variable	9.00	Mtr	0	0
1.5	-do- as above item no. 1.1 but for <b>Risers pipe 150 NB</b> , wall thickness 5.4 mm For <b>above ground only</b> . For hydrant line .	370.00	Mtr	0	0
1.6	-do- as above item no. 1.1 for Risers	340.00	Mtr	0	0
1.7	-do- as above item no. 1.1 but for <b>200 NB for hydrant</b> , wall thickness 8.18mm as per class c heavy duty IS 3589 For aboveground line hydrant	790.00	Mtr	0	0
1.8	-do- as above for <b>hydrant 250 NB</b> ,wall thickness 8.18mm as per class c heavy duty IS 3589 For above ground line only.	546.00	Mtr	0	0
1.9	-do- as above but for <b>hydrant 300 NB</b> ,wall thickness 8.18mm as per class c heavy duty IS 3589 for above Ground line only	1281.00	Mtr	0	0
2.1	Replacement by new cast iron isolation(Gate ) valves as per Is -210 including fixings, Test Pressure body-24kg/cm2.seat and back seat 16 kg/cm2 in the new fire line including excavation,R.C.C/solid block masonry/brick masonry demolition,joining, elbows / tees / flanges / tapers / clamp / MS Support/nut and bolts/gaskets /welding / cutting / welding rod / Reducers etc. Providing, laying, testing and commissioning, BODY and DISC MATERIAL : CAST IRON, CAST CARBON STEEL (ASTM A 216 GR. WCB) ,ALLOY STEEL .All tools tackles,manpower,weldor etc. are in scope of agency as per instruction of EIC. This includes Service, repairing and Shifting /moving of existing valves to store as per direction.(1) For 80 NB	2.00	no.	0	0
2.2	-do as above item no. 2.1 but for <b>100 NB</b>	16.00	no.	0	0
2.3	do as above item no. 2.1 but for <b>150 NB</b>	22.00	no.	0	0
2.4	do as above item no. 2.1 but for <b>200 NB</b>	6.00	no.	0	0
2.5	do as above item no. 2.1 but for <b>250 NB</b>	5.00	no.	0	0

2.6	do as above item no. 2.1 but for <b>300 NB</b>	10.00	no.	0	0
3	supply and erection of single hydrant post As per IS; 5290 Single outlet Landing valve should be of Stainless steel Single designed with high precision and Body, Bonnet Assembly: Stainless Steel, Valve Spindle Stainless Steel, Cast Iron Wheel Rubber Washer: IS- 937(Type-A)Spring: Stainless Steel: IS- 6528,Gland Packing: Asbestos Thread: IS- 4687(Type-3),Hydrostatic (Body Test) : Tested at 21 Kgf/cm2,Water Tightness (Seat Test) : Tested at 14 Kgf/cm2 as directed by EIC.	40.00	no.	0	0
4	Dismantling from existing line and refitting the Water monitor of Size : 63mm after proper repairing , services etc. as per standard on direction of EIC including fitting of same on new laid fire line and carry out Performance Test : Hydrostatic Test (Body Test) : Tested at 21 Kgf/cm2, Discharge at working pressure 7 Kgf/cm2 : 1750LPM,Range - Vertical -21mtr.,Horizontal-53mtr.Rotation :Vertical : 125° min. (80° Upward and 45°downward)Horizontal : 360° in either direction. Work includes Service,repairing and Shifting /moving of existing line including fixings in the new fire line if required and excess quantity to be shifted to store or to otehr place as directd by EIC ,including excavation,R.C.C/solid block masonary/brick masonary demolition,joining,elbows / tees/flanges/tapers/clamp/MS Support/nut andbolts/gaskets/welding/cutting/welding rod /Reducers etc.as directed by EIC.	9.00	no.	0	0
5	Providing and laying precast concrete block masonry (including quoin blocks Jamb blocks, closer etc.) with solid concrete blocks having block width 20 cm. , with minimum compressive strength 60 Kg/Sq cm of approved size made of cement concrete 1:3:6 mix (1cement : 3 course sand : 6 graded stone aggregates of 20 mm and down gauge) in foundation , plinth and in super structure up to 3.0mt ht. in cement mortar 1:6 in true line level and plumb including racking out joints up to 15mm depth rubbing and cleaning the surface including curing ,scaffolding etc. any height as directed including cost of cement. etc.as directed by EIC	72.00	cmt	0	0
6	Providing and laying cement concrete 1:3:6 (1- cement : 3- coarse sand :6- hand broken stone aggregates 20 mm. nominal size in line and level including compaction, curing etc.complete for all type of work like in foundation ,plinth ,floor including cost of from work and cost of cement in cluding all machineries, tools, tackles, manpower etc complete.	160.28	cmt	0	0
7	Providing 15 mm. Thick cement plaster in single coat in CM 1:3 on all side of Brick/concrete walls surface finished even and smooth in true line ,level and plumb for any height including normal patta, grooves, racking the joints or roughening the RCC surface necessary scaffolding, curing etc complete as directed including cost of cement. etc.as directed by EIC.	180.00	smt	0	0
8	Finishing wall with water proofing cement paint as per approved quality and shade by EIC. on wall surface (two coats) to give an approved brand and manufacture and of required shape even shade after thoroughly brushing the surface to remove all dirt, and removing of loose powdered materials for all heights including required scaffolding etc complete.etc.as directed by EIC.	180.00	smt	0	0
9	Construction of Valve Chamber under/above ground , including excavation up to the required depth, refilling the trench, with R.C.C precast top slab of minimum 200 mm. thick in 1:1.5:3 mix (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) and foundation concrete 1:3:6 mix (1 cemet:3 coarse sand : 6 aggregate 40 mm size)including inside and outside plastering of 15 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with a floating coat of neat cement , Solid block masonary wall having standard size and specification as per IS as directed by EIC including curing and with fixing of RCC precast cover having removing and placing facilities to place the cover on chamber as directed by EIC (i) inside size 1800mm x 1800 mm and 1.50 mtr. deep including all material , manpower, labours ,tools ,tackles , labors etc. as directed by EIC and as per drawing.	6.00	no.	0	0
10	Earth work and excavation for foundation, wall, column etc up to 1.5m depth in all kind of dense or hard soil, hard murrum, rock including filling foundation trenches, sorting oput and stacking of useful materials and disopossing of excvated stuff up to all lead and lift with in premises including all machineries, manpower, tools, tackles etc complete	2810.00	cmt	0	0

11	Filling in plinth/trenches with murrum or selected soil brought from outside in layers not exceeding 20 cm in depth, consolidation each deposition layer by ramming and watering etc complete including transportation, manpower, vehicles, tools, tackles, etc complete	2174.87	cmt	0	0
12	Demolition of CC works of any grade with all manpower, machineries, tools, tackles, including sorting out and stacking of serviceable materilas and disposing off unservicable stuuff, matrials up to all lead and lift with in premises	177.80	cmt	0	0
13	Providing and laying Controlled CC grade M-25 including form work for RCC work having mini. cement content 300Kg with maximum 20mm nominal size aggregate, curing, tools, tackles, machineires, manpower etc complete	605.32	cmt	0	0
14	Supply, cutting, bending and placing in position binding with 16SWG wire TMT CSR bars as per IS 1786 including manpower, tools, tackles, require machineries etc with requires authorised lap, chairs etc complete	32.15	MT	0	0
15	Dismantalling of MS pipe of size 300 NB to 80 NB dia. by cutting, separation of joints, valves, flange removing considering safety measures by providing cutting machine sets at site at any height with skilled manpower including providing welding/cutting roads, manpower, all tools tackles as require including demolition of CC bitumin road/floor, excavation, refiling and making good the ground incuding . consolidation with all lead, lift , transportation of dismental pipe to allocated space/stores as directed by EIC. in power plant premises.	155.90	MT	0	0
	Total				

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