

GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED

NAME OF WORK :T-NO-8-FK- REPARING & RETROFITTING WORK-2023-Strengthening, Retrofitting & Repairing work of concrete/civil structure at Flouspar Project -Kadipani

PRICE BID					
Sr. No.	Description	Qty	UNIT	Rate	Amount
1	Removal of loose and damaged plaster or cover concrete upto good parent concrete or upto reinforcement level, traces/tracing of shoots, grease, oil etc. using impact high frequency hammer/chisel without damaging the exiting concrete (if required) and by wire brush (metallic brushes only) including cleaning of existing concrete surface carefully by suitable means. The item includes all necessary machinery, scaffolding, providing and erecting the safety net of opening 75 mm x 75 mm x 12 mm size in addition to sturdy GI corrugated arrester tray to prevent the debris falling on ground during progress of work and keeping the same during the entire period of work, providing a well supported tubular steel prop arrangement to support the shell and the terrace slab complete from tup to bottom, compressor, coarse sand, cleaning the surface by air jet, disposal of unserviceable materials at a identified location as per specification and instruction of Engineer in charge at all height. (As per actual removal on Surface area of the member shall be measured separately for each spot for payment purpose).At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank	1685	Smt	0	0
2	Providing and applying two coats of rust converting alkaline primer FEOVERT or equivalent for protection of reinforcement from active corrosion after cleaning of reinforcement surface to de-rust, oil free the steel using wire brush/sandblasting to remove the corrosion products, dust, dirt etc complete w.r.t material, equipment, tools, tackles, sand blast/shot blasting equipments and labour etc. (As per actual surface area of cleaning of reinforcement where cleaning carried out considered for measurement)At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank	1545	Smt	0	0
3	Providing and applying two coats of anticorrosive coating IPNET - RB or equivalent after application of rust converting alkaline primer for protection of reinforcement from active corrosion to old reinforcement complete w.r.t material, equipment, tools, tackles, sand blast/shot blasting equipments and labour etc. (As per actual surface area of cleaning of reinforcement where cleaning carried out considered for measurement) At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank	1545	Smt	0	0

4	Supplying and providing 8/10/12/16 mm dia. reinforcement TMT bars (Fe 500) conforming to IS:1786 including initial straightening coiled/uncoiled bars, removal of loose rust, cutting, bending to correct size & shape, binding with 18 gauge G.I wire, welding new reinforcement with existing reinforcement, re-barring by drilling the hole and anchoring using epoxy grouts in standard practice as per site condition and drawing. manpower, tools, tackles, machineries, scaffolding etc complete. the joint records to be prepared for measurements & payment. At-Primary Crusher house, Secondary crusher House, Tertiary Crusher house, FOB silos - 2 nos, Mill building, Thickeners, Floatation and Dryer House, Water tank	7	M.Ton	0	0
5	Providing and applying old and new concrete bonding agent an epoxy bond coat EPIBOND - 21 - LP after removing of loose and damaged plaster or cover concrete upto good parent concrete or upto reinforcement level, traces/tracing of shoots, grease, oil etc. including cleaning the surface by water jet, as per specification and instruction of Engineer in charge at all height. (As per actual coating on Surface area of the structures shall be measured separately for each spot for payment purpose). At-Primary Crusher house, Secondary crusher House, Tertiary Crusher house, FOB silos - 2 nos, Mill building, Thickeners, Floatation and Dryer House, Water tank	1545	Smt	0	0
6	Providing and placing single component dual shrinkage compensated, ready mixed high strength fiber reinforced thixotropic repair mortar REPPATCH 45 T / MOLITH -PMM or equivalent in average thickness of 50 mm for covering the damaged structural member and reinforcement including scaffolding, curing inclusive of all labour, materials, equipment etc complete as per specification and instruction of Engineer in charge at all levels. Mixing should be done using mechanical, heavy duty, slow speed drill with spiral mixing blade or forced action pan mixer. Curing must be done by use of hessian maintained in a damp condition for minimum 7 days. The material to be used shall have the following key performance properties: Material type: In build fiber reinforcement type single -Sagging characteristics: Non sag minimum upto 50 mm Fresh wet density : 2200-2250 kg/m ³ -Compressive strength as per ASTM C 109 (3 days) At-Primary Crusher house, Secondary crusher House, Tertiary Crusher house, FOB silos - 2 nos, Mill building, Thickeners, Floatation and Dryer House, Water tank and 28 days): 25 MPa and 45 MPa component dual shrinkage compensated cementitious powder	1090	Smt	0	0

7	<p>Repair and Strengthening by "Shutter and Pour" method: Jacketing concrete sections as per the detailed drawings in required thickness using single component, non-shrink, ready made pourable concrete MOLITH MC / POLYGROUT or equivalent . scaffolding, centering, fixing, watertight formwork shuttering, de <u>shuttering</u>. curing inclusive of all labour, materials, equipment etc. complete as per specification and instruction of Engineer in charge. Curing must be done by use of hessian maintained in a damp condition minimum for 7 days. Concrete to be used shall meet the following key performance properties: Fresh wet density: 2200-2250 kg/m³ -Compressive strength as per ASTM C 109 (3 days, 28days): 25 MPa and 40 MPa- At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickeners ,Floatation and Dryer House, Water tank</p>	45	Cmt	0	0
8	<p>Providing and fixing standard PvC injection packers at all levels of minimum 10 -12 mm dia. including after drilling holes of required diameter at a spacing of maximum 300 to 500 mm c/c, sealing the packers using epoxy putty, EPCO -1010 or equivalent. removal of packers after grouting including of manpower, equipment, scaffolding etc. Also includes chipping, cutting and sealing at 10.0M and above height-At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickeners ,Floatation and Dryer House, Water tank</p>	10530	No	0	0
9	<p>Providing and injecting the fixed packers with a low viscosity, high molecular weight thermosett epoxy injection grout MONOPOL under pressure of 5-10 PSI including cutting/removal of nozzles/nipples as necessary after completion of grouting as per technical specification inclusive of all labour, scaffolding, materials, equipment etc at all levels. complete as per instruction of Engineer in charge. At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickeners ,Floatation and Dryer House, Water tank NOTE- The product to be used for injection shall have the following minimum key performance properties,-Viscosity: 10-20 Cps - Compressive Strength, ASTM D 695 (7 days): >60 Mpa -Flexural Strength, ASTM D 790, (7 days): >35MPa -(Actual consumption of grout may be paid)</p>	2060.00	Kg or liters	0	0

10	Providing and injecting the fixed packers with a two component, low viscosity, epoxy resin based injection grout EPCO - KP/HP- 250 underpressure of 4 - 7 kg/cm ² including cutting/removal of nozzles/nipples as necessary after completion of grouting as per technical specification inclusive of all labour, scaffolding, materials, equipment etc at all levels. complete as per instruction of Engineer in charge. At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank NOTE_ The product to be used for injection shall have the following minimum key performance properties,Viscosity: 300-500 Cps-Compressive Strength, ASTM D 695 (7 days): >60 Mpa-Flexural Strength, ASTM D 790, (7 days): >35MPa -(Actual consumption of grout may be paid)	560	Kg	0	0
11	Providing and fixing shear connectors using welded mesh of size 50/50/3 mm with proper anchorage. inclusive of all material, manpower and equipment-At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank	620	Smt	0	0
12	Section refurbishment using cementitious ready made dry shotcrete REPPATCH SHOT or equivalent to rebuild the section in average thickness of 70 mm complete with material, equipment and labor. The ready made product to be used shall be prepacked, last setting, nonsag cementitious mortar which can be sprayed by sprayer/manually in thickness more than 100 mm in single layer without sag. Includes scaffolding, tools, tackles, req hire equipments & for all height. Curing must be done by tise or hessian maintained in a damp condition minimum for 7 days. Trowel finishing should be done to make the surface smooth so as to receive further coating on it. The product shall have following key performance properties:Type: Pre packed cementitious dry shotcrete mortar -Bulk density: 2000 to 2300 kg/m ³ Providing and fixing shear connectors using welded mesh of size 50/50/3 mm with proper anchorage. inclusive of all material, manpower and equipment-At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank-Compressive Strength as per AS FM C 109 (3 days, 28days): 25 MPa and 40 MPa	620	Smt	0	0
13	Providing and applying a single component, high build elastomeric, crack-bridging, anti carbonation, UV resistant, breathable insoluble Interpenetrating Polymer Network Coating System IPNET / MOMOPAL 456 or equivalent in two Epoxy Phenolic coats using brush and in one Aliphatic Polyurethane coat using spray to achieve a final DFT of 225 - 300 microns in colour shed specified by Engineer in charge inclusive of material, manpower, tools, tackles and equipment etc for all levels.At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickners ,Floatation and Dryer House, Water tank -5 years guarantee will be considered for this item for which 10% of this work amount will be kept as retention money and will be refunded after satisfactory completion of 5 years	3425	Smt	0	0

14	Providing and applying two component, high build, anti-corrosive, chemically resistant coal tar extended two component epoxy coating system for below & above waterline application (Norm-At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickeners ,Floatation and Dryer House, Water tank -Note- 5 years guarantee will be considered for this item for which 10% of this work amount will be kept as retention money and will be refunded after satisfactorily completion of 5 years	1100	Smt	0	0
15	Providing and fixing in position water tight shuttering from good quality shuttering ply for riser trench wall and pedestals at all heights including scaffolding, application of de shuttering oil, extra care of water tightness, de <u>shuttering</u> etc. complete as per specifications as directed. All the crevices in the form work shall be arrested using plaster of paris so as to ensure water tightness.At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickeners ,Floatation and Dryer House, Water tank	200	Smt	0	0
16	Supplying and laying Design Mix Cement Concrete of grade M 25 for reinforced concrete work in pedestals, floor, wall etc at all levels including melamine based superplasticizer SUPERCON - 100 or equivalent 0.5% - 4% by weight of cement , labour, materials, equipment, handling, transporting, batching, mixing, controlling temperature, placing, leveling, compacting, curing, testing, etc. all complete as per specification, drawings and instructions of the Engineer. Curing must be done by use of hessian maintained in a damp condition minimum for 7 days.-At-Primary Crusher house ,Secondary crusher House, Tertiary Crusher house ,FOB silos - 2 nos, Mill building, Thickeners ,Floatation and Dryer House, Water tank	48	Cmt	0	0
17	Disposal of debris out side the campus as and when directed by EIC , by Truck load of 10 MT including all labour , tools , tackles , loading and unloading at all lead & lift as directed.	20	Truck load	0	0
18	Providing and fixing ply wood covering having minimum thickness 18 mm. with all necessary supports , fittings etc at all level to protect the existing structures , machinaries and equipment etc as directed by EIC.	50	Smt	0	0
	TOTAL RS.				

