

	E Tender no-12/PP/CHIMNEY LADDER/2018				
Sub: Work of Replacement of MS ladder , Platform and with other works for two numbers of 130.0 meter high Chimneys at 2x125 MW Thermal Power Station , Village- Nani Chher , Tal: Lakhpat, Dist- Kutchh					
Schedule of Quantity					
Sr.No	Description	Qty.	Unit	Rate	Amount
1	Providing and Fixing of hot dip galvanized structural steel like channel ,angle , flat , pipe,beam, M.S. plate etc.for platform , ladder and railing at all levels as per the original drawings including anchoring the steel members in existing concrete by epoxy mortar EPCO KPHP 350 system or equivalent to make it impervious wherever required as directed by EIC at site including all labour , material , machineries , scaffolding , winch ,julas, tools, tackles, consumables, loading, unloading require all safety measures require for such high structures as per rules etc. complete excluding the cost of hot dip galvanizing to steel structures (chimney height up to 130 Mtr.) The cost of anchor fasteners, grouting material as per specifications are included in rates.	63800	Kg	0	0
2	Dismantling safely of the old ladders &and platforms for erection of the new ladders & platform from chimneys having total height of 130 Mtrs. Including all safety measures, required all machineries, cranes, tools, tackles, loading & unloading, transportation and stacking in our store premises at project.	63800	Kg	0	0
3	Hot dip galvanizing of all the structural steel members of ladders & platform at the rate of 750 Gram per sq.M. or 100 micron average thickness. Steel must withstand normal galvanizing operation without embrittlement as per IS 6158 : 1971. The Zinc conforming to at least grade Zn 99.95 specified in IS 209 - 1979 for the purpose of galvanizing. The member shall be galvanized in accordance with IS 2629:1966. It should conform uniformity of coating in accordance with IS 2633: 1966 . It should conform uniformity of coating in accordance with IS 2633 : 1972 and weight of coating in accordance with IS 6745: 1972 by measuring thickness of coating with the help of magnetic thickness gauge.	63800	Kg	0	0
4	Supply, installation, testing and commissioning of 40 dia rod type 5 prong lighting arrestors connected to two nos. of copper stripes of size 40x6mm suitably clamped to wall along its length and connected to two separate earth pits of 5 m depth including 100 dia PVC pipe conduit at ground interface to be filled with PCC 1:4:8 as directed by EIC including all labour , material , machineries , scaffolding, tools , tackles etc. (chimney height up to 130 Mts.)	2	No	0	0

5	Supply, installation , testing & commissioning of "Type 'A' High intensity White flashing " aviation obstruction light as per ICAO outdoor type with degree of protection IP 55 operates on 240 V , single phase A.C (50 Hz) supply to withstand high voltage fluctuations with intensity step changer , 302 nos. of LED s, multiple light elements to reduce chances of complete blackout due to any unlikely lamp failure including all accessories , controller , photo sensors, earthing terminal provided. (1 st light at 45 m from FGL , 2 nd at 45 m from 1 st light and the 3 rd one at the top of chimney) all as per following specification and as directed by Engineer - in - charge . including transportation and stacking in our store premises at project . (chimney height up to 130 Mtr.) - Material of construction : Cast aluminum (LM 6) - Transparent part : Polycarbonate glass Dome - Gasket : Neoprene - Light source : High power Light emitting diodes, mounted on glass epoxy fire retarded PCBs - Approx Life : 100000 hrs - Luminous Intensity : 4000 to 2,00,000 cd - Paint : aviation yellow (epoxy powder coated)	6	No	0	0
6	Providing, fabricatingand & Fixing perforated cable tray of hot dip galvanized at rate of 750 Gram per sq.M. or 100 micron average thickness as per IS standard, electrical rule & site requirement having 3mm thickness, jointing with GI splice with nut bolts, verticle post of 75x40 ISMC box GI hot dip including grouting of post using non shrink grout of approved make (Non shrinking grout shall be rady mix type only of GP-2 or equivalent make as approved ny GMDC (incase cement is require to be add) as per requirement and direction of EIC. The cost of hot dip galvanising is included in rate. (A) 600 mm wide	1035	Rmt	0	0
7	-do- as above but for 300 mm wide	1525	Rmt	0	0
8	Supply of high strength friction grip bolts, washers, nuts, clamps as required shall be hot dip galvanised with minimum quantity of zinc coating @750 gms/sq.m. of suface area.	700	kg	0	0
9	Job work for inspection of chimney inside and outside before starting of works of the chimney shell for total height by camera or any other suitable method for asserting the damages in the brichlining/shell at height prior to carrying out any repairing of shell surface for propervision, lighting etc for clear cut views and reporting of the damages and further repairing required.	1	Job	0	0
10	Removal of loose and damaged plaster or cover concrete up to good parent concrete or up to reinforcement level , traces 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, winch, julas, tools, tackles, consumables, loading, unloading require all safety measures require for such high structures as per rules etc. 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 complete cleaning the surface by air jet as per specification and instruction of engineer in charge . (Surface area of the member shall be measured for payment purpose).	2000	Sq.mtr	0	0

	<p>Providing and placing single component , dual shrinkage compensated , ready mixed high strength fiber reinforced thixotropic repair mortar REPPATCH 45 T or equivalent in average thickness of 50 mm for covering the damaged structural member and reinforcement including scaffolding, winch, julas, tools, tackles, consumables, loading, unloading require all safety measures require for such high structures as per rules etc.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 , curing inclusive of all labour , materials , equipment etc . complete as per specification and instruction of Engineer in charge . 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 component dual shrinkage compensated cementitious powder Sagging characteristics: Non sag minimum up to 50 mm Fresh wet density : 2200 - 2250 kg /m³ Compressive strength as per ASTM C 109 (3 days and 28 days) : 25 MPa and 45 MPa</p>	2000	Sq.mtr	0	0
Total					

