

NOTICE INVITING TENDER - CC26SVP044

The Tata Power Company Limited Invites Tenders (Two-Part Bidding Process), from interested and eligible Vendors for the following Works required for its Transmission Receiving Stations.

A. Summary of the tendered packages:

Sr. No.	Description	Tender Reference no.	Bid Guarantee Fee / EMD (Rs.)	Tender Fee (Rs.)
1.	Outline Agreement (OLA) of 03 years For Civil maintenance work at Tata Power Receiving Stations & Colonies in East Circle, Mumbai.	CC26SVP044	65,000 /-	2,000 /-

Interested bidder is strongly advised not to wait by above time and purchase the tender immediately to get the link for bid submission. This will enable them to communicate/raise queries against the subject tender in time.

For additional technical details and Pre-qualification criteria for the subject works please refer section C below.

B. Guidelines for Participating:

Interested and eligible vendors can participate by submitting the following up to 1500 hours on **Friday – 13th March 2026**.

1. Payment of non-refundable Tender Fee, as indicated in table above to be paid by direct deposit in following bank account

Beneficiary Name – The Tata Power Co. Ltd.

Bank Name – HDFC Bank Ltd.

Branch Name – Fort Branch, Mumbai

Address – Maneckji Wadia Building, Nanik Motwani Marg, Fort, Mumbai 400023.

Branch Code – 60

Bank & Branch Code – 400240015

Account No – 00600110000763

Account type – CC

IFSC Code – HDFC0000060

2. Submission of duly signed and stamped Authorization Letter indicating name of authorized person, contact number and e-mail id (mandatory) on Vendor's letterhead. The letter shall also mandatorily include payment details of Tender fee and Tender Reference no **CC26SVP044**.

Authorization Letter along with proof of submission of tender fee should be e-mail to **Ms. Sujata Vishnu Patil** (sujatavishnu.patil@tatapower.com) and copy to **Mr. Vivek Mittal** (vivek.mittal@tatapower.com)

Note: - Once the above-mentioned documents are received, detailed RFP shall be issued through our e-tender system.

3. It is clarified that Bid Guarantee/EMD as mentioned in section “A” above, is not required to be submitted at this stage, and it will be required to be submitted in the form of Bank guarantee at the time of Bid Submission.

C. Addition technical details:

A2. Prequalification Criteria (Technical & Commercial:

Sr No	Parameter	Tata Power Requirement	Documents to be submitted by vendor to ascertain meeting of Pre-Qualification Requirement
1	2	3	4
1	Work experience	<p>Bidder along with selected sub vendors should have minimum 05 years’ experience of civil works such as Civil maintenance works, RCC Repair works, Concreting works, structural steel work, Plumbing & Carpentry works. Selected sub vendors (if any) will be subject to approval of Tata Power.</p> <p>Bidder must have experience of successfully completing a minimum of following civil works during the past 5 years as on the date of bid opening.</p> <ul style="list-style-type: none"> • 100 cubic meters of RCC / PCC works. • Structural Steel works of 20 MT • Brick works of 100 cubic meter • Tile works of at least 300 sq.m. • Experience for working in switchyard and operational area. • List of machinery • List of staff (engineers, safety engineers, supervisors) • Experience certificate issued by Agencies. • Certified scaffolders and material. • Earth Pit works <p>In case the bidder has a previous association with any of Tata Power Group companies for similar products and services, the performance feedback of the bidder by the Tata Power Group companies shall only be considered for evaluation purpose, irrespective of performance certificates issued by any third organization.</p>	<p>Work completion certificate / PO.</p> <p>Bidder to submit credentials for supporting the noted criteria. Owner has the right to reject the bid in case it is observed that the Bidder does not meet the relevant experience for the subject works</p>

2	Safety	<p>The said package being high risk service job .The Bidder will have to go through requirement Tata Power Skilled Development Institute (TPSDI) training for workmen, Certifications etc. 100% workmen shall be L1 & L2 and supervisor should be L3 trained & certified by Tata Power Skill Development Institute (TPSDI).</p> <p>Bidder should possess ISO-9001, ISO-14001 and OHSAS-18001 / ISO-45001 Certification or they should provide an undertaking that they will obtain these certifications for their organization if the work is awarded to them.</p>	<p>Bidder to submit credentials for supporting the noted criteria. Owner has the right to reject the bid in case it is observed that the Bidder does not meet the relevant experience for the subject works.</p> <p>List of TPSDI trained workmen OR undertaking for completion of training.</p>
3	Commercial Capability	Average Annual Turnover of the bidder for last three financial years shall not be less than INR 65 Lakh.	Audited Profit & Loss statemnt along with UDIN No. to be attached.

Note: Above Pre-qualification details need not be submitted at this stage. These shall be required to be submitted along with bid submission. At this stage, Interested Vendors who fulfill above criteria need to participate in tender by paying tender fee and submitting authorization letter as detailed in section "B" above.

D. Estimated Quantity: (BOQ)

A. Civil Work in Non- Operational Area			
Sr No	Item description	Estm Qty for 3 Yrs	UoM
1	Excavation in all types of ordinary soils including dewatering and depositing / stacking of all materials removal of vegetation backfilling with excavated earth in layers well watered compacted transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth from 0 to 1.5 mtrs deep within basic lead of 100 mtr (rate does not include payment against royalty and debris management cell charges)	60.00	M3
2	Excavation from 0 to 1.5 meter in all types of ordinary soils (natural / backfilled) including dewatering and depositing / stacking of all materials, removal of wild growth vegetation, backfilling with excavated earth in layers, well watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth material to authorized dumping sites outside owner#s premises.	60.00	M3

3	Excavation in all types of ordinary soils including shoring / strutting dewatering and depositing / stacking of all materials, removal of vegetation, backfilling with excavated earth in layers, well watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth from 1.51 to 3.0 mtrs and unloading the excavated material to authorized dumping sites inside owner's premises.	40.00	M3
4	Excavation in all types of ordinary soils including shoring / strutting dewatering and depositing / stacking of all materials removal of vegetation backfilling with excavated earth in layers well watered compacted transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth from 1.51 to 3.0 mtrs deep, rate shall be inclusive of disposing surplus material to authorized dumping sites outside owner's premises.	40.00	M3
5	Obtaining collector permission for excavation for which tata power will provide the available documents. Official payment will be done by tata power on receipt demand note	75.00	M3
6	Prov. Services for excavation in hard rock using JCB breaker as directed by EIC and disposing debris outside tata power premises at authorized site outside owner's premises	75.00	M3
7	Providing cartage service & transporting, excavated soil, debris, bricks, concrete, dry garbage etc. and disposing off to municipal corporation area approved dumping sites outside premises incl submission of relevant documents. Note: measurement will be made on truck measurement.	75.00	M3
8	Providing services for backfilling in layers of 230mm. Consolidated to 150mm. Watering, compacting with tamping /hand rammer with local earth available at site	75.00	M3
9	Supplying good quality murrum free from gravels & boulders, backfilling in layers of 230mm. Consolidated to 150mm. Watering, compacting with tamping /hand rammer, excluding use of JCB as per instruction of EIC	75.00	M3
10	Providing and laying dry rubble soling of basalt stone or black trap stone or locally available strong stones with approved quality stones including filling gaps with small chips ramming with hand rammer etc. Complete.	75.00	M3
11	Laying of rubble soling with material available at site within 50 m lead, rate shall be inclusive of man, shifting of material manually, laying as per line & level, filling interstices with small chips and laying layer of crushed sand or good quality murrum	75.00	M3
12	Providing all necessary tools tackles services etc for demolishing brick masonry of variable thickness with plaster and disposing off the debris to the approved dumping ground of municipal corporation area etc complete as per specifications and as directed by the engineer	39.00	M3

13	Providing all necessary tools tackles services etc for demolishing PCC and disposing of the debris to the approved dumping ground of municipal corporation area etc complete as per specifications and as directed by the engineer., rate shall be inclusive of storing debris up to 200 m lead until taken for disposal	40.00	M3
14	Providing all necessary tools tackles services etc for breaking pointing and disposing of the debris to the approved dumping ground of municipal corporation area / outside owner premises etc complete as per specifications and as directed by the engineer	40.00	M3
15	Providing all necessary tools tackles services etc for demolishing all types of RCC structures at floor level manually or by means of chipper breaker (exclusive of air compressor breaker / JCB breaker / Poclain breaker) including transportation of debris, cutting of reinforcement, disposing salable scrap material to the tata power stores etc. Complete as per the requirement of drawing and as directed by the site-engineer and disposing of the debris to the outside company premises etc complete	40.00	M3
16	Providing all necessary tool tackles services etc for breaking plaster of all thicknesses as directed by the site-engineer and disposing of the debris to the approved dumping ground of municipal corporation outside company premises etc complete as per specifications and as directed by the engineer	60.00	M2
17	Providing all necessary tools tackles services etc for breaking asphalt road and disposing of the debris to the approved dumping ground of municipal corporation area etc complete as per specifications and as directed by the engineer	60.00	M3
18	Providing all necessary tools tackles services etc for breaking asphalt road including macadam layer, soling etc. (all thickness) and disposing of the debris to the outside company premises etc complete as per specifications and as directed by the engineer.,asphalt road including metalling, soling etc. (all thickness)	60.00	M3
19	Providing all necessary tools tackles & services for dismantling structural steel sections i.e. Angles / channels / beams / plates etc (not inclusive of ferrana / crane) & returning the same to nearest tata power stores or designated place etc complete as directed	30.00	MT
20	Providing all necessary tools tackles services etc for removing all type of doors/windows in good condition & returning to the nearest tata power stores with necessary documentation etc. Complete as directed by the engineer	60.00	M2
21	Providing services for removal of chain-link fencing including handing over the salvaged material to tata power stores with proper documentation after completion of the job, including providing & erecting necessary steel tubular scaffolding (up to 2 meter) as per the tata power standards etc. Complete as directed. rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required.	372.00	M2

22	Providing services for removal of Barbed wire including handing over the salvaged material to tata power stores with proper documentation after completion of the job, including providing & erecting necessary steel tubular scaffolding (up to 2 meter) as per the tata power standards etc. Complete as directed. rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required.	558.00	M
23	Providing services for removal of concertina coil including handing over the salvaged material to tata power stores with proper documentation after completion of the job, including providing & erecting necessary steel tubular scaffolding (up to 2 meter) as per the tata power standards etc. Complete as directed. rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required.	558.00	M
24	Providing all necessary tools tackles & services for removing old AC / GI / FRP sheets from existing shed or boundary & returning to the tata power stores etc complete as directed	558.00	M2
25	Providing all necessary tools tackles services etc for breaking of flooring & dado tiles as directed by the site-engineer and disposing of the debris to the outside company premises etc complete as per specifications and as directed by the engineer.	114.00	M2
26	Providing services for dismantling aluminum / wooden / annealed glass / toughen glass partition at all heights & depositing it to tata power stores or scrap yard as directed by engineer	114.00	M2
27	Providing services for dismantling gypsum board partition at all heights including support structure & depositing it to tata power stores or scrap yard as directed by engineer	114.00	M2
28	Providing services for dismantling grid type / gypsum false ceiling including supporting arrangement, depositing saleable scrap to tata power stores & disposing remaining debris outside tata power premises at own risk.	114.00	M2
29	Providing services for dismantling of false ceiling (grid & board type) excluding supports and disposing it outside tata power premises	114.00	M2
30	Providing services for dismantling of false flooring including supporting arrangement using required tools and tackles and shifting it to tata power scrap yard	75.00	M2
31	Providing services for dismantling concealed plumbing line of any dia, by breaking tile / plaster as required, depositing wastage to stores or as directed by EIC / reusing it at site	60.00	M
32	Providing services for wall mounted / concealed sewage / drainage line, disposing material outside Tata power premises at approved dumping ground	75.00	M
33	Providing services for removing floor mounted / wall mounted EWC of any type and size from its support and disposing it outside tata power premises / reusing at site as directed by EIC, rate shall be inclusive of man, material, tools in case of reuse at site so as to fit for use	15.00	EA

34	Prov. Services for removing IWC of any type and size from its support and disposing it outside tata power premises / reusing at site as directed by EIC, rate shall be inclusive of man, material, tools in case of reuse at site so as to fit for use	15.00	EA
35	Prov. Services for removing counter top / wall mounted wash basin of any type and size from its support and disposing it outside tata power premises / reusing at site as directed by EIC, rate shall be inclusive of man, material, tools in case of reuse at site so as to fit for use	15.00	EA
36	Prov. Services for removal of urinal and disposing it to outside tata power premises	24.00	EA
37	Prov. Services for removal of roller blind / venetian blind / vertical blind. Blinds must be removed with support channel & must stored in condition that it can be reused in as it is condition	75.00	M2
38	Providing services for dismantling stone work such as kadappa / granite / marble or similar stone except kota, rate shall be inclusive of removal of mortar bedding if laid on kitchen platform & disposing outside tata power premises at designated local municipal authority dumping ground	114.00	M2
39	Providing servcies for dismantling any type of railing (SS / MS / GI ; single rail or double rail) and disposing it to tata power stores, rate shall be inclusive of man, material, tools such as gas cutting set / grinder cutter, shifting to stores so as to complete the job	39.00	M
40	Prov. Services for dismantling rolling shutter of any height & width including disposing it to tata power stores, payment for scaffolding to be paid extra if done more than 2 meter high	60.00	M2
41	Removing any type of ms gate and disposing it to stores scrap yard within 200 meter lead	60.00	M2
42	Removal of existing paver blocks 60 - 80 mm thick & sand bedding and disposing outside tata power premises at designated local municipal authority dumping ground.	60.00	M2
43	Removal of existing paver blocks 60 - 80 mm thick including sand bedding and stacking in owner premises within 200 meter lead	60.00	M2
44	Prov. Services for removal of existing trench cover and laying new trench cover, rate shall be inclusive of man, material, tools for replacement of trench cover but excluding of casting trench cover	75.00	EA
45	Supplying, providing and laying in position M - 10 plain cement concrete in levelling course/fill under or around foundations pits. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mix	39.00	M3
46	Supplying, providing and laying in position plain cement concrete M15 grade in levelling course/fill under or around foundations, over soling, column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mix / mixer machine	9.00	M3

47	Supplying, providing and laying in position plain cement concrete M15 grade in levelling course/fill under or around foundations, over soling, column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using RMC	90.00	M3
48	Supplying, providing and laying in position plain cement concrete M20 grade in levelling course/fill under or around foundations, over soling. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mixer machine	90.00	M3
49	Supplying, providing and laying in position plain cement concrete M20 grade in levelling course/fill under or around foundations, over soling. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: RMC	60.00	M3
50	Supplying, providing and laying in position plain cement concrete M25 grade in RCC column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mixer machine	60.00	M3
51	Supplying, providing and laying in position plain cement concrete M25 grade in RCC column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using RMC	75.00	M3
52	Providing and replacing of precast reinforced cement concrete structure, grade: M25, max w/c ratio: 0.5, rate to include shuttering, vibrating, machine mixing, providing lifting arrangement, placing insert curing handling, transporting with down graded aggregate: 20 mm	75.00	M3
53	Supplying, providing and placing in position reinforced cement concrete of grade M30 with 20mm down graded aggregate for works below grade levels including vibrating, curing, de-watering wherever necessary, providing construction joints, leaving cut outs / pockets, placing of inserts/ embedment, etc., complete, including cost of providing, fixing and removing form work for all shapes (including scaffolding, centering etc) but excluding cost of providing reinforcement as directed by the engineer	60.00	M3
54	Supplying, providing and laying in position plain cement concrete M25 grade in RCC trench cover with 20 mm down graded coarse aggregates including curing, compacting, providing shuttering form work wherever required etc. Complete using site mix	39.00	M3

55	Supplying, providing and laying in position plain cement concrete M20 grade in RCC trench cover with 20 mm down graded coarse aggregates including curing, compacting, providing shuttering form work wherever required etc. Complete using site mix	39.00	M3
56	Providing and placing in position plum concrete of required thickness, at all depths with 33% boulders of size 150mm to 230mm and 67% ready mix concrete of M15 grade including shuttering, vibrating, compacting, curing, dewatering, levelling, finishing, removal of formwork, etc. Complete as per specifications/drawings and as directed by the engineer-in-charge.	39.00	M3
57	Providing all material and constructing brick masonry 230mm. Thick and above in cement mortar (1:5) using approved quality class 35 conforming to IS 1077 : 1992 table molded bricks, including scaffolding, curing, raking joints, etc. Complete as per specifications & drawings at all levels & locations.	39.00	M3
58	Providing all material and constructing brick masonry 115mm. Thick and above in cement mortar (1:5) using approved quality class 35 conforming to IS 1077 : 1992 table molded bricks, including scaffolding, curing, raking joints, etc. Complete as per specifications & drawings at all levels & locations.	39.00	M2
59	Supplying, providing and laying, un-coursed random rubble masonry in cement mortar 1:5 with approved local stones of good quality for wall footings, etc. And as fill under foundations, including curing, de-watering wherever necessary, etc. Complete for work below ground/grade level at all depths and grade level up to plinth etc., complete as per specification and as directed by the engineer.	39.00	M3
60	Prov. Services for laying including tools tackles, un-coursed random rubble masonry in cement mortar 1:5 with approved local stones of good quality for wall footings, etc. And as fill under foundations, including curing, de-watering wherever necessary, etc. Complete for work below ground/grade level at all depths and grade level up to plinth etc., complete as per specification and as directed by the engineer., rubble to be brought from 50 m lead	39.00	M3
61	Providing all material for dry stone pitching : providing all the materials and laying 225 mm thick. Dry rubble pitching at all heights to correct line and level dry stone pitching with individual stones of 22 cm depth and minimum size 0.014cum. Complete with all leads and lifts for all materials and machinery including all charges and as directed by engineer-in-charge	39.00	M2
62	P/I CLC / AAC / SIPOREX block masonry of required thickness, rate shall be inclusive of man, brick joining adhesive mortar, shifting to required floor, finished in line level as directed by EIC (thickness - 100 mm)	39.00	M2
63	P/I CLC / AAC / SIPOREX block masonry of required thickness, rate shall be inclusive of man, brick joining adhesive mortar, shifting to required floor, finished in line level as directed by EIC (thickness # 200 mm)	39.00	M2

64	Making of pocket, size:300 x 300 x 150 mm, at all levels with staging including grouting with cm 1:3 in concrete/masonry, debris must be disposed outside owner's premises at municipal corporation approved dumping yard	39.00	EA
65	Providing 12mm. Thick smooth finished cement plaster in cement mortar (1:3) for RCC, brick work, sides and undersides of the slabs, canopies, chajjas with drip molding etc. Including scaffolding, curing, etc. Complete as per specifications.	75.00	M2
66	Providing all materials and carrying out sand faced plaster 20 mm thick in two layers (first layer of 14 mm and second layer of 6 mm thickness) with waterproofing compound. Including bands drip molds in cement mortar 1:4 including scaffolding (the rates shall include provision for chicken mesh 230 mm wide at the junction of masonry with RCC).	75.00	M2
67	Prov. & applying ready mix plaster of Godrej make tuff Duro Plast / ACC make Suraksha ready to use plaster 101 or equivalent as approved by EIC, rate shall be inclusive of man, material, transportation, application and finishing of surface, curing	75.00	M2
68	Providing all the materials and carrying out raised or flush cement pointing in 1:3 cement mortar including providing and erecting steel scaffolding (up to 2 meter), curing, edge finishing	75.00	M2
69	Providing all the tools tackles, manpower and materials for laying IPS flooring in panels in m20 grade concrete including as per line & level required, finishing the surface and curing etc. Complete as directed with glass strips in panels of 2 x 2 feet for following thickness: average 75 mm thick	75.00	M2
70	Providing all the tools tackles, manpower and materials for laying IPS flooring in panels in m20 grade concrete as per line & level required, including finishing the surface and curing etc. Complete as directed with glass strips in panels of 2 x 2 feet for following thickness: average 50 mm thick	75.00	M2
71	Providing and fixing 800 x 800 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette in flooring, on an average 50 mm thick bedding of 1:3 cement mortar and jointed with tile grout of ROFF / equivalent make, cutting of tiles to required size, cleaning, curing, etc. Complete.	39.00	M2
72	Providing and fixing 600 x 600 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette in flooring, on an average 50 mm thick bedding of 1:3 cement mortar and filling joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	114.00	M2
73	Providing and fixing 600 x 600 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette on wall, fixed using 1:1 cement sand mortar and filling up joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	60.00	M2

74	Providing and fixing 300 x 600 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette on wall, fixed using 1:1 cement sand mortar and filling up joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	39.00	M2
75	Providing all materials, tools, tackles & services for supplying & fixing acid resistant tiles. Scope includes 1) applying epoxy primer & allow it dry for 24 hr. 2) fixing the tiles by applying 5-8 mm thick paste made up from mixture of VIKO proof-SDK cement powder or equivalent sodium silicate cement powder & VIKO proof-SDK liquid binder or equivalent liquid binder in proportion of 1:3. 3) joints & gaps to be filled with VIKO proof ep-epoxy resin cement or equivalent acid resistant cement.	75.00	M2
76	Prov. & laying vitrified tile on existing tile using ROFF / MYK Laticrete make or equivalent tile adhesive up to 10 mm thick layer for vitrified tile, rate shall be inclusive of hacking of base tiles, man, material, transportation, wastage, cutting of tiles and laying as per line and level, filling joints with ROFF / equivalent make of tile grout	39.00	M2
77	Prov. & laying vitrified tile on existing tile using ROFF / MYK Laticrete make or equivalent tile adhesive upto 10 mm thickness for ceramic tile, rate shall be inclusive of hacking of base tiles, man, material, transportation, wastage, cutting of tiles and laying as per line and level, filling joints with ROFF / equivalent make of tile grout	39.00	M2
78	Providing and fixing at least 25 mm thick machine cut machine cut kota stone of any sizes for flooring/windows / door jambs / lintel / sill etc with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, demi bull nose / standard / bevel molding & polishing of edges & redoing in cm (1:3) complete.	99.00	M2
79	Providing and fixing at least 15 mm thick machine cut machine cut white spotless marble stone of any sizes for windows / door jambs / lintel / sill with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, demi bull nose / standard / bevel molding & polishing of edges & redoing in cm (1:3) complete.	39.00	M2
80	Providing and fixing at least 15 mm thick machine cut machine polished pitch black granite stone of any sizes for counter / cooking/platform with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, full bull nose or double bull nose molding & polishing of edges & redoing in cm (1:3) complete.	39.00	M2
81	Providing and fixing at least 15 mm thick machine cut machine cut Baroda green stone of any sizes for flooring/windows / door jambs / lintel / sill etc with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, demi bull nose / standard / bevel molding & polishing of edges & redoing in cm (1:3) complete.	39.00	M2

82	P/s for mirror polishing of kota / mosiac flooring preceded by machine polish to bring level on joints and edges if required	60.00	M2
83	Providing and fixing 15 mm thick black granite on window sill, staircase tread & riser, 20 mm thick cement mortar 1:3 including polishing to exposed edges, cement float, filling joints with neat cement slurry mixed with pigment to match shade of marble, raking and finishing the joints with silicon sealant, curing, rubbing, polishing and cleaning complete at all levels 2nos in steps with minimum 50mm overlapping and maximum of 300mm width in combination.	39.00	M
84	Prov. Services for molding of edge - bull nose or demi bull nose for all type of stones	39.00	M
85	Providing and fixing interlocking concrete paver blocks of 60mm thick. Concrete paver blocks shall be uniformly shaped (monolithic single layer precast concrete blocks) of specified color and pattern, placed on avg. Thickness of 45 mm river / crushed sand cushioning with proper compacting with mechanical compactor with the proper level, grade & camber etc. The side joints should be filled by M-20 grade concrete if required etc. Including all taxes, duties, octroi etc.the testing of paver block	39.00	M2
86	Providing and fixing interlocking concrete paver blocks of 80mm thick. Concrete paver blocks shall be uniformly shaped (monolithic single layer precast concrete blocks) of specified color and pattern, placed on avg. Thickness of 45 mm river / crushed sand cushioning with proper compacting with mechanical compactor with the proper level, grade & camber etc. The side joints should be filled by M-20 grade concrete if required etc. Including all taxes, duties, octroi etc.the testing of paver block	39.00	M2
87	Prov. Services for laying paver blocks available at site within 50 meter lead, rate shall be inclusive of shifting or transporting for given lead, 40 mm thick sand bedding, filling joints with sand	39.00	M2
88	Providing and fixing interlocking concrete paver blocks of 80mm thick. Concrete paver blocks shall be uniformly shaped (monolithic single layer precast concrete blocks) of specified color and pattern, placed on avg. Thickness of 45 mm river / crushed sand cushioning with proper compacting with mechanical compactor with the proper level, grade & camber etc. The side joints should be filled by M-20 grade concrete if required etc. Including all taxes, duties, octroi etc.the testing of paver block	39.00	M2
89	Prov. & fixing kerb stone of size 150 x 300 mm made of M20 grade of concrete conforming to is 5758 (1994) (type 1d), rate shall be inclusive of man, material, transportation, hacking / breaking of PCC / asphalt, laying mortar (1:1) bedding to line and level, cutting / breaking of kerb stone to size and finishing joints with neat cement, housekeeping and disposal of debris outside tata power premises	39.00	M

90	Prov. & laying 20 mm thick paver tile of M 20 grade on average sand bedding of 50 mm thickness to the line and level, rate shall be inclusive of man, material, transportation, tools, joint filling with sand so as to complete the job	39.00	M2
91	Providing & binding reinforcement steel of any dia including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC work irrespective of locations & levels all as per drawings including handling and transporting steel from nearest stores to site complete as directed for HYSD bars.(FE-500 conforming to IS code 1786-1985).	30.00	MT
92	Fab & erection all types of mild steel, work at all height including scaffolding (upto 2 m), welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply and fixing of mild steel bolt, nut, washer and applying one coat approved primer & 2 coat of approved synthetic enamel paint to all the exposed surfaces of steel (excluding chequered plate)	48.00	MT
93	Providing & fabricating & erecting all types of structural steel, work at all height incl. scaffolding (upto 2 meter), welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of primer & 2 coats of approved synthetic enamel paint to all the exposed surfaces of steel(excluding chequered plate)	60.00	MT
94	Fab & erection all types of GI work, at all height including scaffolding (upto 2 m), welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply and fixing of mild steel bolt, nut, washer and applying one coat approved primer & 2 coat of approved synthetic enamel paint to all the exposed surfaces of steel (excluding chequered plate)	9.00	MT
95	Providing & fabricating & erecting all types of GI material, work at all height incl. scaffolding (upto 2 meter), welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of primer & 2 coats of approved synthetic enamel paint to all the exposed surfaces of steel(excluding chequered plate)	30.00	MT
96	Providing all tools, tackles, materials for fixing of 16 SWG SS wire mesh of opening size 12.5 mm x 12.5 mm fixed with 12 mm U bolts as mentioned in the drawing or as directed by EIC at any height incl scaffolding, ladder, machinery etc.	39.00	M2

97	Providing & fabricating & erecting all types of MS tubes & pipes, work at all height incl. scaffolding (upto 2 meter), welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of primer & 2 coats of approved synthetic enamel paint to all the exposed surfaces of steel(excluding chequered plate)	9.00	TO
98	Providing & fabricating & placing MS chequered plate - 6 mm thick, welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of shalimar or any other approved make red oxide (primer) paint & two coat of approved synthetic enamel paint to all the exposed surfaces of steel	39.00	M2
99	Providing & fabricating & placing MS chequered plate - 8 mm thick, welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of shalimar or any other approved make red oxide (primer) paint & two coat of approved synthetic enamel paint to all the exposed surfaces of steel	75.00	M2
100	Providing & fabricating & placing MS chequered plate - 10 mm thick, welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of shalimar or any other approved make red oxide (primer) paint & two coat of approved synthetic enamel paint to all the exposed surfaces of steel	75.00	M2
101	Providing, fabricating and erecting MS grills consisting of 12mm square rods with external frame of 20x6mm flats with safety flip door including applying one coat of primer & 2 coats of enamel paint to all the exposed surfaces of steel. Design will be as per AOC palette. All the required steel will be supplied by contractor. Contractor shall use his own welding set, gas cutting set with accessories, gas and electrodes to complete the entire work, as per the direction etc complete	39.00	M2
102	Supplying and laying of grating, material: hot dip galvanized iron and providing all necessary material, tools, tackles & services, outer frame plate size: 40 x 6mm, short span plate size: 40 x 5 mm, bracing plate size: 40 x 5 mm and spacing of plate size: 40 mm	50.00	MT
103	Providing & fixing aluminum chequered plate of 8 mm thick with lifting arrangement cut provided as directed by EIC,	50.00	M2
104	Providing & fixing aluminum chequered plate of 10 mm thick with lifting arrangement cut provided as directed by EIC,	50.00	M2

105	Supplying, fabricating & erecting C class GI tubular h&railing of 32 mm dia. Nb medium class, consisting of double GI rail with top GI rail 1 mtr above floor level, mid rail at 600 mm from floor & pipe post including its own connecting plate at bottom spaced at not more than 2 mtrs with all necessary bends, GI tee joints, GI fixtures, GI fittings, 100 mm x 6 mm toe guard including applying one coat of primer & two coats of synthetic enamel excluding anchor fastener as directed by engineer	50.00	M
106	Providing & fixing single handrail of C class GI pipe of 32 mm dia and connecting with wall with all necessary GI bends, GI tee joints, GI fixtures such as plate for connection at wall, the assembly should be sturdy and with smooth surfaces at joints/ junctions.	50.00	M
107	SS pipes 304 mat finish /brush steel finish ss tabular handrailing consisting of double SS rail with top SS rail 1 mtr above floor level and pipe post including its own connecting plate at bottom spaced at not more than 2 mtrs with all necessary SS bends, SS tee joints, SS fixtures, SS fittings,100 mm x 6 mm ss toe guard excluding anchor fastener as directed as directed by engineer	50.00	M
108	SS pipes 304 mat finish /brush steel finish consisting of one SS rail and connecting with wall with all necessary SS bends, SS tee joints, SS fixtures, SS fittings, the assembly should be sturdy and with smooth surfaces at joints/ junctions. All SS sections, pipes etc to be supported with documents for the quality	50.00	M
109	Providing & fixing SS hand rail made of SS 304 satin finish of 1.5 mm thickness, with top rail of SS hollow pipe 50 mm dia and bottom 3 made of SS hollow pipe of 25 mm dia, supported by 50 mm dia @ 1.2 m c/c using bracket as per AOC palette, including cutting, bend, finishing of joints & bends, installation using required screws so as to complete the job	50.00	M
110	Providing & fabrication of MS gate in single / double leaf with ISA 65 x 65 x 6 mm angle frame, both side MS flat of 10 mm x 6 mm to hold chainlink, 9 gauge chainlink within frame and painted by 2 coats of synthetic enamel preceded by red oxide primer, including hinges, MS aldrop, welding, gas cutting, shifting with 200 meter lead	50.00	M2
111	Providing ,fabricating & erecting in position gate made of hollow box section as per the approved drawing using steel confirming to IS 2062/IS:1161 including supply of all materials such as hinges, locking arrangement, plunger bolts, SS wheels & fixtures, MS flat plate for wheels with anchors, making of wicket gate ,vision panel etc incl. of 2 coats of synthetic enamel paint with one coat of primer. (outer frame 90 x 60 x 3 mm, inner pipes - 25 x 25 x 3 mm, 3 nos. 100 mm hinges on each shutter)	25.00	M2
112	Providing & fixing 3 mm thick GI perforated sheet with 50% opening holes, rate shall be inclusive of man, material, transportation, installation of sheet using tack weld or nut bolt as per site requirements, wastage and fixing sheet to line, level and alignment	50.00	M2
113	Providing & fixing 16 mm dia, 100 mm long pin type anchor fasteners, including drilling the holes (other than HILTI)	125.00	NO

114	Providing & fixing HILTI make anchor fastener HSA 12 x 100, rate shall be inclusive of drilling & fixing	50.00	NO
115	Providing & fixing HILTI make anchor fastener HSA 12 x 145, rate shall be inclusive of drilling & fixing	50.00	NO
116	Providing & fixing HILTI make anchor fastener HSA 12 x 175, rate shall be inclusive of drilling & fixing	50.00	NO
117	Providing & fixing HILTI make anchor fastener HSA 16 x 102, rate shall be inclusive of drilling & fixing	50.00	NO
118	Providing & fixing HILTI make anchor fastener HSA 16 x 137, rate shall be inclusive of drilling & fixing	50.00	NO
119	Providing & fixing HILTI make anchor fastener HSA 16 x 182, rate shall be inclusive of drilling & fixing	50.00	NO
120	Providing & fixing HILTI make anchor fastener HST2-R 12 x 105, rate shall be inclusive of drilling & fixing	50.00	NO
121	Providing & fixing HILTI make anchor fastener HST2-R 12 x 145, rate shall be inclusive of drilling & fixing	50.00	NO
122	Providing & fixing HILTI make anchor fastener HST2-R 16 x 140, rate shall be inclusive of drilling & fixing	50.00	NO
123	Providing & fixing HILTI make anchor fastener HST2-R 16 x 170, rate shall be inclusive of drilling & fixing	50.00	NO
124	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 450 x 600 (light duty 2.5 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
125	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 450 x 450 (light duty 2.5 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
126	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 450 x 600 (medium duty 10 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
127	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 900 x 450 (heavy duty 20 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
128	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 300 x 300 (light duty 2.5 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
129	Providing & replacing of hinge of gate, material: 6 inch square hinge mild steel at all levels and heights, rate is inclusive of providing all tools and tackles, material whatever required for successful completion of work & as directed by enGIneer incharge.	25.00	EA
130	Providing & replacing of hinge of gate, material: 4 inch square hinge mild steel at all levels and heights, rate is inclusive of providing all tools and tackles, material whatever required for successful completion of work & as directed by engineer in charge.	25.00	EA
131	Providing material, labor and service for oiling and greasing of shutter, rates are inclusive of providing scaffolding	15.00	M2

132	Providing all tools and tackles for making wicket gate in existing shutter at all levels and height, rate is inclusive of cutting, welding, all required material and scaffolding	12.50	M2
133	Repairing steel rolling shutters of gear operating mechanism. Types using 20G MS interlocking laths including hood and all accessories required and providing with two coats synthetic enamel paint of approved make over one coats of zinc rich primer etc. Complete.	15.00	M2
134	Repairing steel rolling shutters of hand operating mechanism. Types using 20G MS interlocking laths including hood and all accessories required and providing with two coats synthetic enamel paint of approved make over one coats of zinc rich primer etc. Complete.	15.00	M2
135	Providing and fixing of electric motor of set 1KV of approved make including arranging all necessary materials ,connecting rod with the existing rolling shutter and all electrical works required for functioning of rolling shutter. Rate shall include loading ,transportation and unloading of materials at site or as directed by EIC	12.50	EA
136	Providing and fixing of electric motor of set 1.5 KV of approved make including arranging all necessary materials ,connecting rod with the existing rolling shutter and all electrical works required for functioning of rolling shutter. Rate shall include loading ,transportation and unloading of materials at site or as directed by EIC	12.50	EA
137	Providing and fixing of electric motor of set 2 KV of approved make including arranging all necessary materials ,connecting rod with the existing rolling shutter and all electrical works required for functioning of rolling shutter. Rate shall include loading ,transportation and unloading of materials at site or as directed by EIC	12.50	EA
138	Providing and fixing mechanically operated rolling steel shutters fabricated from 18G GI sheets with slide guides, bottom rail, brackets, door suspension shaft, housing box at operation arrangement, lock plates, locking arrangement, fixing bolts, pulling handles, hood, rolling arrangement & 2 coats of approved synthetic enamel paint over a coat of zinc primer complete. wicket gate shall be paid under separate item, in that case area of wicket gate shall be deducted from this item for payment.	15.00	M2
139	Providing service for fabrication work including welding rod, grinder cutter, gas cutting set including gas consumption, all tools and tackles required for performing the fabrication job	15.00	DAY
140	Providing service for fabrication work including welding rod, grinder cutter, manpower, all tools and tackles required for performing the fabrication job	12.50	DAY

141	Providing, fabricating and erecting of tray c shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 150 mm	50.00	M
142	Providing, fabricating and erecting of tray C shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 300 mm	50.00	M
143	Providing, fabricating and erecting of tray C shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 450 mm	50.00	M
144	Providing, fabricating and erecting of tray C shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 600 mm	50.00	M
145	Providing Services for stretching chain link fencing at all height, rate shall be inclusive of man, scaffolding up to 2 m, split pin of 16 gauge, shifting chain link within 200 m lead and stretching tools so as to complete the job	75.00	M2
146	Providing Services for stretching barbed wire at all height, rate shall be inclusive of man, scaffolding up to 2 m, split pin of 16 gauge, shifting chain link within 200 m lead and stretching tools so as to complete the job	225.00	M
147	Providing Services for stretching concertina coil at all height, rate shall be inclusive of man, scaffolding up to 2 m, split pin of 16 gauge, shifting chain link within 200 m lead and stretching tools so as to complete the job	75.00	M
148	Providing & stretching GI chain link fencing of 8 gauge at all height, rate shall be inclusive of man, material, split pin, making hole in angle to receive pin, scaffolding up to 4 meter, including one coat of zinc primer and followed by two coats of synthetic enamel paint	75.00	M2
149	Providing & stretching PVC coated chain link fencing of bare GI chain link of 8 gauge at all height, rate shall be inclusive of man, material, split pin, making hole in angle to receive pin, scaffolding up to 4 meter	75.00	M2

150	Providing & stretching IOWA type GI barbed wire conforming to IS 278: 2009 with 14 SWG x 14 SWG (main wire & barb wire) with spacing of barb at max. 5 inch c/c at required line & level including man, material & transportation	225.00	M
151	Providing & stretching concertina coil PVC coated / GI concertina coil 610 mm having medium barbs of 20 mm width, max 8 circle of coil per meter, guided by 16 SWG guide wire on both sides, including transportation, manpower, cutting - lifting & placing	75.00	M
152	Providing, placing & fixing profile pre-color coated galvalume sheets or equivalent of 0.50mm total coat thickness to match existing shade (bare galvalume thickness 0.47mm), trough type, zinc aluminum alloy coated (zinc aluminum coating not less than 150g/sqm), MS high tensile sheet having minimum yield strength of 550mpa including silicon modified polyester (SMP) coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting & SMP coating of DFT 5 microns over 5 micron primer	125.00	M2
153	Providing, placing and fixing profile pre-color coated galvalume sheets or equivalent of 0.65 mm total coated thickness to match existing shade (bare galvalume thickness 0.6mm), trough type, MS high tensile sheet having minimum yield strength of 550mpa including silicon modified polyester (SMP) coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and SMP coating of DFT 5 microns over 5 micron primer on internal surface of sheeting incl. J bolt / screw for installation	125.00	M2
154	Providing, placing and fixing profile pre-color coated galvalume sheets or equivalent of 0.50mm total coated thickness to match existing shade (bare galvalume thickness 0.47mm), trough type, MS high tensile sheet having minimum yield strength of 550mpa including silicon modified polyester (SMP) coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and SMP coating of DFT 5 microns over 5 micron primer on internal surface of sheeting incl. J bolt / screw for installation	125.00	M2
155	Providing & fixing aluminum flat of 50 x 6 mm on roof sheet, rate shall be inclusive of man, material, GI threaded screw with rubber washer, drilling hole @ 2m c/c	40.00	M
156	GI sheet providing & fixing 16 gauge corrugated GI sheet on roof & cladding with GI bolts, nuts, washers, sealant on bolt etc. complete as directed.	25.00	M2
157	Providing & fixing 3 mm thick plain FRP sheet with nut bolt, j hook washer, cutting, wastage, disposal of waste material,	25.00	M2
158	Providing & fixing 3 mm thick corrugate FRP sheet with nut bolt, j hook washer, cutting, wastage, disposal of waste material,	25.00	M2

159	Providing all necessary tools tackles & services for fixing GI / galvalume/FRP sheets, rates shall be inclusive of manpower, tools, tackles, scaffolding (up to 4 meter) self tapping polymer coated screw with rubber washer / j bolt with washer & nut, shifting lead up to 200 meter	40.00	M2
160	Supplying only of tarpauline sheet of 200 GSM of any size and shade as directed by engineer in charge. Rate shall include the cost of transportation, loading, shifting and unloading of material at site and handing over the material to person designated by respective division in charge with documentation. this item is exclusive of spreading of tarpaulin sheet.	40.00	M2
161	Providing services for spreading of tarpaulin sheet of 200gsm at any height/sheet/terrace inclusive of making tying arrangement using 12mm polypropylene/nylon rope, rate shall be inclusive of man, material, transportation, ladder, scaffold to complete the job, payment will be made against area covered by tarpaulin, not the area of tarpaulin sheet used. Tarpaulin sheet supplied by tata power.	40.00	M2
162	Providing all tools, tackles and material for erecting monsoon shed for a period of 05(five) months and maintaining the same for the period. Bamboo frame work shall be made for laying 200 GSM tarpaulin sheet shed with vertical supports max. 1.00 m c/c & lateral support at max. 1.00 m c/c. All vertical supports should be of approx. 60 mm to 80 mm dia. The rate shall also include dismantling of the monsoon shed. The rate also includes obtaining necessary permission from MCGM.	125.00	M2
163	Providing and fixing half round 180 mm uPVC gutter with rubber seal SWR grade-prince or equivalent make inclusive of joint brackets/running outlet/elbows/short stop end/stop end outlet/support bracket/pipe clamp or clamp/side or top bracket rate shall be quoted for man, material, transportation, scaffolding (up to 4 m), machine, screw so as to complete the job	25.00	M
164	Providing & fixing wall mounted EWC Hindware make studio series windsor (cat no. 20061) or Parryware make indus walvit series (C0255)	12.50	EA
165	Providing & fixing wall mounted EWC of Jaquar make DRS - WHT - 37591 or ARS - WHT - 39951UFSM along with slim seat cover with soft closer, bracket, finishing the side with near white cement	12.50	EA
166	Providing & fixing floor mounted EWC Hindware make universal series (20012) or Parryware make c0271 / c0272	12.50	EA
167	Providing & fixing Indian WC Orrisa pan popular (Hindware make -- 20043) or orrisa pan c0117 (Parryware make)	12.50	EA
168	Providing & fixing urinal Hindware make cat no. 60011 or Parryware make new magnum c0575	12.50	EA
169	Providing & fixing Urinal Hindware make Corto standard (Cat no. 60022), rate shall be inclusive of man, material, tools, bracket, connection with plumbing & drainage line so as to complete the job	12.50	EA

170	Providing & fixing wall mounted washbasin Hindware make studio series (Cat no. 10096) along with bracket, connections with plumbing & drainage line using applicable flexible hose & pipe	12.50	EA
171	Providing & fixing Hindware make under counter washbasin (cat no. 10065) or Parryware make c0419, along with CP coupling	12.50	EA
172	Providing & fixing Counter top wash basin Jaquar make - JDS - WHT - 25935, rate shall be inclusive of man, material, tools, transportation, fixing plumbing accessories and finishing with white cement so as to complete the job	12.50	EA
173	Providing & fixing Counter top wash basin Hindware make monalisa over counter basin (cat no. 10069), rate shall be inclusive of man, material, tools, transportation, fixing plumbing accessories and finishing with white cement so as to complete the job	12.50	EA
174	Providing & fixing Hindware make sleek elegance dual flush tank	12.50	EA
175	Providing & fixing concealed flush tank Hindware make concealo 80 mm (508179) or Parryware Linea 80 mm C8114	12.50	EA
176	Providing & fixing health facuet of Hindware make flora series cat no. F160023 or Jaquar make allied series ALD 573	15.00	EA
177	Providing & fixing JET SPRAY of 12 mm dia and fixing it on WC seat	15.00	EA
178	Providing & fixing Hindware make white color EWC seat cover as per required size	12.50	EA
179	Providing & fixing Nirali make SS sink elegance popular series	12.50	EA
180	Providing & fixing CP floor trap 100 mm dia with interlocking plate mounted on floor	15.00	EA
181	Providing & fixing PVC nahani trap 4 inch,	15.00	EA
182	Providing & fixing 100 mm dia 3 way PVC nahani trap	15.00	EA
183	Providing & fixing 100 mm dia 4 way PVC nahani trap	15.00	EA
184	Providing & fixing CP concealed bib cock Hindware made F 280002 or Jaquar make FLR 5041 along with its flange cap	15.00	EA
185	Providing & fixing CP concealed stop cock Hindware made F 280004	15.00	EA
186	Providing & fixing Angle cock Jaquar make FLR CHR 5053N	15.00	EA
187	Providing & fixing 2 way bib cock Jaquar make FLR 5041 n or Hindware make F280003	15.00	EA
188	Providing & fixing Hindware make pillar cock f280001 or Jaquar make FLR 5015	15.00	EA
189	Providing & fixing tall pillar cock Jaquar / Hindware make as per approved AOC palette (Jaquar make F460002CP / Hindware make F400005CP)	15.00	EA

190	Providing & fixing CP sink cock Jaquar make FLR 5009b or Hindware make f280026	15.00	EA
191	Providing & fixing flush valve 32 mm flow size Jaquar make FLV 1085 sq with concealed body & cover plate	15.00	EA
192	Providing & fixing flush valve 40 mm flow size Jaquar make FLV 1089 sq with concealed body & cover plate	15.00	EA
193	Providing & fixing Urinal flush valve PRS - CHR - 073 including cover plate	15.00	EA
194	Providing & fixing 31 mm bottle trap of Jaquar make allied series ALD 769 or Hindware make flora series f850015	15.00	EA
195	Providing fixing overhead shower, code: cat. No. Ohs 1709 round shape single flow with air effect abs body & face plate chrome plated rubit cleaning system, single lever shower mixer code: FLR CHR 5123, shower arm: code: sha 4791300 round shape with 90° bend for wall mounted showers with flange	12.50	EA
196	Providing & fixing Jaquar make bath tub spout SPJ 15429, rate shall be inclusive of concealed body, man, material tools, transportation required to carry out the job so as to fir for use"	12.50	EA
197	Providing & fixing single liver concealed diverter body Jaquar make ALD - 055, with exposed part kit FON - 40055K	12.50	EA
198	PROVIDING AND FIXING OF CHROME PLATED SHOWER, DIAMETER: 100 MM of Jaquar- Code-OHS 1709 WITH LONG ARM code SHA-479 L450	15.00	EA
199	Providing & fixing waste coupling Jaquar make 32 mm dia ALD - CHR - 705L130	25.00	EA
200	Providing & fixing flexible pipe 32 mm dia	25.00	EA
201	Providing & fixing PVC hose pipe of 12 mm dia including connecting with plumbing fixtures	25.00	EA
202	Providing & fixing Jaquar exposed foot operated valve PRS-STL-033EF	15.00	EA
203	Providing & fixing Double coat hook Jaquar make AKP-CHR-35761P	15.00	EA
204	Providing & fixing grab bar Jaquar make AHS - CHR - 1507 (600 mm long)	15.00	EA
205	Providing & fixing grab bar Jaquar make AHS - CHR - 1503 (450 mm long)	15.00	EA
206	Providing & fixing grab bar Jaquar make AHS - CHR - 1501 or AKP-CHR- 35701 (300 mm long)	15.00	EA
207	Providing & fixing toilet paper roll holder Jaquar make Kubix prime series (AKP 35753PS) or Continental series (ACN - 1153N)	15.00	EA
208	Providing & fixing Soap dispenser Shresmo make SHD - 12618	15.00	EA

209	Providing & fixing Tissue paper dispenser Euronics make EP23 or Opera make	15.00	EA
210	SAFETY Eye Washer SHOWER - 6250 GI Udyogi Safety Shower & eyewash operates independently by pull rod, H& push lever & foot lever Shower: Extra-large drench shower head made of highly visible yellow ABS plastics Pipe: ISI marked GI pipe with powder coating for anti-corrosion Valve: SS stay open ball valve with yellow ABS push plate Bowl: Receptor bowl made of ABS & highly resistant to acid, Alkali & oil among others. Atomiser heads: Twin soft flow atomiser head which has aerators to control	12.50	EA
211	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 12 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
212	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme dia 19mm	15.00	M
213	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 25 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
214	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 32 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
215	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 40 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
216	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends - 50 mm	15.00	M
217	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends:12 mm	15.00	M
218	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends:19 mm	15.00	M
219	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends:25 mm	15.00	M

220	Providing & fixing RST / Hindustan make c class GI pipe of 12 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
221	Providing & fixing RST / Hindustan make c class GI pipe of 19 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
222	Providing & fixing RST / Hindustan make c class GI pipe of 25 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
223	Providing & fixing RST / Hindustan make c class GI pipe of 32 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
224	Providing & fixing RST / Hindustan make c class GI pipe of 38 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
225	Providing & fixing RST / Hindustan make c class GI pipe of 50 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
226	Providing & fixing RST / Hindustan make c class GI pipe of 65 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
227	Providing & fixing SWR 75 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
228	Providing & fixing SWR 90 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
229	Providing & fixing SWR 110 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
230	Providing & fixing SWR 160 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
231	Providing & fixing SWR 75 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
232	Providing & fixing SWR 90 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M

233	Providing & fixing SWR 110 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
234	Providing & fixing SWR 160 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
235	Providing & laying salt glazed pipe of 100 mm nominal dia laid to line & required slope or level, rate shall be inclusive of man, material, transportation, mortar filling at joints so as to make it leak proof & 2 inch PCC m10 bedding on base	15.00	M
236	Providing & laying salt glazed pipe of 150 mm nominal dia laid to line & required slope or level, rate shall be inclusive of man, material, transportation, mortar filling at joints so as to make it leak proof & 2 inch PCC m10 bedding on base	15.00	M
237	Providing & laying salt glazed pipe of 200 mm nominal dia laid to line & required slope or level, rate shall be inclusive of man, material, transportation, mortar filling at joints so as to make it leak proof & 2 inch PCC m10 bedding on base	15.00	M
238	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed includingProviding all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 150 mm dia.	15.00	M
239	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed includingProviding all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 200 mm dia.	15.00	M
240	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed includingProviding all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 300 mm dia.	15.00	M
241	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed includingProviding all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 450 mm dia.	15.00	M

242	Providing Services for laying of HDPE pipe of any dia, rate shall be inclusive of man, shifting of material from local Tata Power stores to the site, cutting, laying and disposing wastage at Tata Power scrap yard, rate will be exclusive of necessary excavation or allied work	15.00	M
243	Providing, cutting and fixing of pipe, material: high density polyethylene, diameter: 140 mm	15.00	M
244	Providing, cutting and fixing of pipe, material: high density polyethylene, diameter: 200 mm	15.00	M
245	Providing and fixing of gate valve, diameter: 12 mm, ISI make or make: ganga	15.00	EA
246	Providing and fixing of gate valve, diameter: 19 mm, ISI make or make: ganga	15.00	EA
247	Providing and fixing of gate valve, diameter: 25 mm, ISI make or make: ganga	15.00	EA
248	Providing and fixing of gate valve, diameter: 39 mm, ISI make or make: ganga	15.00	EA
249	Providing and fixing of gate valve, diameter: 50 mm, ISI make or make: ganga	15.00	EA
250	Providing & fixing water meter of ARAD or equivalent make ISI marked for 3 inch dia pipe	12.50	EA
251	Providing & fixing water meter of ARAD or equivalent make ISI marked for 4 inch dia pipe	5.00	EA
252	Providing & fixing Fixing brass foot valve of 1 inch foot valve along with necessary accessories	25.00	EA
253	Providing & fixing Fixing brass foot valve of 1.5 inch foot valve along with necessary accessories	25.00	EA
254	Providing & fixing Fixing brass foot valve of 2 inch foot valve along with necessary accessories	25.00	EA
255	Providing & fixing Fixing brass foot valve of 2.5 inch foot valve along with necessary accessories	25.00	EA
256	Providing & fixing Fixing brass foot valve of 3 inch foot valve along with necessary accessories	25.00	EA
257	Providing & fixing Jaquar make PRS - CHR - 031 pressmatic tap	25.00	EA
258	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 12 mm, first quality and of ISI approved make	15.00	EA
259	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 19 mm, first quality and of ISI approved make	15.00	EA
260	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 25 mm, first quality and of ISI approved make	15.00	EA
261	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 50 mm, first quality and of ISI approved make	15.00	EA
262	Providing & connecting 500 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA

263	Providing & connecting 1000 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
264	Providing & connecting 2000 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
265	Providing & connecting 5000 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
266	Providing Services for misc plumbing works, rate shall be inclusive of manpower of 1 plumber & helper	25.00	EA
267	Providing Necessary material for plumbing work as approved by EIC, Payment will be made against submitted original invoice / challan of material, including 15% vendor's profit	25.00	EA
268	Providing & fixing sensor tap Hindware make F240001CP or equivalent as approved by EIC, rate shall be inclusive of man, material, transportation, removal of existing tap and installation of new tap	25.00	EA
269	Removing and replacing of sensor batteries, plumbing services including all required tools, tackles, materials, and fixtures, including loading, unloading and transportation up to site for laying etc. complete as directed for following items	25.00	EA
270	P/F FRP molded grating of mesh size 38 X 38 mm with rib thickness (7 - 5 mm), height 38 mm, cut to the size and fixed using M-clamp / single clamp / double clamp, rate shall be inclusive of man, material, transportation, cutting to the size, wastage and disposal of debris outside Tata Power	15.00	M2
271	P/F FRP molded grating of mesh size 38 X 38 mm with rib thickness (6 - 5 mm), height 25 mm, cut to the size and fixed using M-clamp / single clamp / double clamp, rate shall be inclusive of man, material, transportation, cutting to the size, wastage and disposal of debris outside Tata Power	15.00	M2
272	P/F FRP molded grating of mesh size 50 X 50 mm with rib thickness (8 - 5 mm), height 12 mm, cut to the size and fixed using M-clamp / single clamp / double clamp, rate shall be inclusive of man, material, transportation, cutting to the size, wastage and disposal of debris outside Tata Power	15.00	M2
273	Supplying and installation of FRP cover grating code CT40-200 with frame of 50x50x5mm angle and 3mm top chequered plate load bearing capacity of 2200kg/m ² (made out of i beams of 50mmx15mmx4.5mm thick at c/c 40 mm with notch bar and key way at c/c 200mm). Material to be used will be as per IS 6746 UV stabilized isophthalic resin. Colour # yellow.	15.00	M2
274	Supplying and installation of FRP cover grating 75 mm thick light weight code ct25-200 (25 mm thick grating) plus frame of 50x50x5mm box pipe, and 3mm top chequered plate load bearing capacity of 400kg/m ² (made out of i beams of 50mmx15mmx4.5mm thick at c/c 40 mm with notch bar and key way at c/c 200mm). Material to be used will be as per IS 6746 UV stabilized isophthalic resin. Colour # yellow.	15.00	M2
275	Prov. & fixing 900 mm dia FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
276	Prov. & fixing 750 mm dia FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA

277	Prov. & fixing 600 mm dia FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
278	Prov. & fixing 300 X 300 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
279	Prov. & fixing 450 X 450 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
280	Prov. & fixing 450 X 600 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
281	Prov. & fixing 450 X 900 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
282	Prov. & fixing 600 X 900 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
283	Prov. & fixing 300 X 300 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
284	Prov. & fixing 450 X 450 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
285	Prov. & fixing 450 X 600 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
286	Prov. & fixing 450 X 900 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
287	Prov. & fixing 600 X 900 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
288	Supplying & Installation of FRP Fencing to sub station of height 2.4 M, with FRP Vertical pipe 50x50x5mm, & FRP Angle of 50x50x5mm, & FRP Grill of square 38mmx38x10mm, thickness 6 mm. The grill are fitted in the Angle frame, which will be fixed on Vertical pole with Foot pad 150x150x130mm, using Anchor Fastener of 16 mm HILTI Made as per given dawning. incl. gate made with same framing, SS Hinge & aldrop. Material to be used will be as per IS 6746 ISOPHTHALIC POLYESTER Resin.	12.50	M
289	P/I FRP septic tank, rate shall be inclusive of man, material, tools, transport, installation to the line & level and connecting it with sewage system	12.50	L
290	Supplying, fabricating and erecting of approved shade FRP Pultruded handrail square pipe having size 50X50X6.35 mm thick consisting of double FRP rail with top rail & mid rail at 1000 mm & 500 mm respectively & Vertical pipe post of square pipe having size 50X50X6.35 mm thick erected at not more than 1500 mm c/c distance including its own connecting foot pad of size 150 x150 x130 mm fitted with SS 304 M12 -100 LG anchor bolt at bottom with all necessary accessories and 100 X3 mm toe guard	15.00	M
291	Prov. FRP make perforated cable trays of size 450 mm including support	15.00	M
292	Prov. & fixing 3 mm thick FRP Chajja, plain at top side in required color & design, rate shall be inclusive of man, material, transportation, bracket of MS flat 20 * 5 mm @ maximum 1m c/c, fixing at site including scaffolding (up to 12 meter)	12.50	M2

293	Prov. & fixing 3 mm thick FRP chajja, plain at top side in required color & design, rate shall be inclusive of man, material, transportation, bracket of MS flat 20 * 5 mm @ maximum 1m c/c, fixing at site, excluding scaffolding and manlifter	25.00	M2
294	Providing Services & material for 38 mm thick commercial flush board shutter with 1 mm thick laminate of Century / Greenlam / Kitply of required shade, 6 mm thick 2 year seasoned teakwood lipping, making any cutout for glass including fixing of glass with beading, 3 nos. 4 inches railway type hinges, 110 mm CP handle, CP aldrop, door stopper on each shutter, sneak hole with glass, painting of lipping by 2 coats of approved enamel paint.	15.00	M2
295	Providing Material & fixing under counter kitchen cabinet with frame & shutter, rate shall be inclusive of 1 inch thick frame, 18 mm Greenply made plywood shutter with 1 mm century laminate Natural Oak 3397 & white sun mica internal side, 6 mm lipping of all four side, chrome plated handle, magnet lock, SS hinges, two coat paint of synthetic enamel paint of approved shade on frame	15.00	M2
296	Providing , fixing, loading unloading , single Leaf 2 hrs fire resistant door with 44 mm shutter thickness, in fill honey comb core, doors shutter made of GI sheet of 0.9 mm thick and frame made of GI sheet of 1.3 mm thick with single rebate frame of 100 * 75 mm . Powder coated frame & shuter with 50-60 micron, including 6 mm thick fore rated galss panel for clear vision 200 * 300 mm, SS 304 fire rated ball bearing hinges , with panic bar single point, external trim, door closer & installation	12.50	M2
297	Providing, erecting and fixing of aluminum anodized sliding window, 2 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 75 x 25 x 14 mm, shutter must be made of Jindal make class B section of 18 mm and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per IS code or as directed	25.00	M2
298	Providing, erecting and fixing of aluminum anodized sliding window, 3 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of 100 mm x 25 mm x 14 gauge, shutter frame must be Jindal class b section of 18 mm, 14 gauge and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
299	Providing, erecting and fixing of aluminum anodized sliding window, 4 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 125 x 25 x 14 mm, shutter frame must be Jindal b class 18 mm section, 14 gauges and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2

300	Providing, erecting and fixing of aluminum powder coated sliding window, 2 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 75 x 25 x 14 mm, shutter must be made of Jindal make class b section of 18 mm and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
301	Providing, erecting and fixing of aluminum anodized sliding window, 3 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of 100 mm x 25 mm x 14 gauge, shutter frame must be Jindal make class b section of 18 mm, 14 gauge and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
302	Providing, erecting and fixing of aluminum anodized sliding window, 4 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 125 x 25 x 14 mm, shutter frame must be Jindal make class b section of 18 mm, 14 gauges and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
303	Providing & fixing 2 track 16 gauge domal section windows of size of 25 X 75 mm sections, including 6 mm clear float glass of modiguard / saint gobain or equivalent	25.00	M2
304	Providing & fixing 3 track 16 gauge domal section windows of size of 25 X 75 mm sections, including 6 mm clear float glass of modiguard / saint gobain or equivalent	25.00	M2
305	Providing & fixing factory made white UN-Plasticized poly Vinyl chloride (UPVC) windows(FENESTA or Equivalent as approved by site in charge) at all levels made out of extruded three chambered profile frame with hermetically sealed double glazed glass customized in 56mm wide system ,all fittings and fixing at site and sealing the gaps etc. as per the designed and as directed by site in charge.	25.00	M2
306	Providing & fixing Al powder coated fixed window using 63 X 38 X 14 gauge powder coated Al section with powder coating min. 50 micron on exposed surface, including glazing clippings, annealed glass of 5 mm thickness and PVC clear beading	15.00	M2
307	Providing & fixing Al anodized window using 63 X 38 X 14 gauge powder coated Al section with buffing of all sections, including glazing clippings, annealed glass of 5 mm thickness and PVC clear beading	15.00	M2
308	Providing & fixing AL louver on 16 gauge 40 X 15 mm rectangle section of Jindal make anodized and buffed as per required shade, with Z section for installation of 100 mm wide blur / frosted annealed glass	15.00	M2

309	Providing & fixing AL louver on 16 gauge 40 X 15 mm rectangle section of Jindal , with Z section for installation of 100 mm wide blur / frosted annealed glass	15.00	M2
310	Providing & fixing Al anodized partition made of 63 X 38 mm 14 gauge Jindal make sections, with buffing of all surfaces and installaion of 9 mm thick bakelite sheet & 5 mm thick annealed (plain) glass wit clips, installed to line & level and as per required dimension	15.00	M2
311	Providing & fixing Al powder coated partition made of 63 X 38 mm 14 gauge Jindal make sections, with min 50 micron powder coating at exposed surfaces and installaion of 9 mm thick bakelite sheet & 5 mm thick annealed (plain) glass wit clips, installed to line & level and as per required dimension	15.00	M2
312	Providing & fixing partly glazed partly panelled Al anodizing door made of 14 gauge X Jindal make section with buffing of section, (1) Handle section - 85 X 45; (2) Hinge side section 48 X 45; (3) middle section 85 X 45; (4) Top - 85 X 45; (5) Bottom 115 X 45, including lock, both side handles and hinges, tie rod at the top and bottom sections with 9 mm thick particle board at bottom and 5 mm clear annealed glass at top	15.00	M2
313	Providing & fixing partly glazed partly panelled Al powder coated door made of 14 gauge X Jindal make section with buffing of section, (1) Handle section - 85 X 45; (2) Hinge side section 48 X 45; (3) middle section 85 X 45; (4) Top - 85 X 45; (5) Bottom 115 X 45, including lock, both side handles and hinges, tie rod at the top and bottom sections with 9 mm thick particle board at bottom and 5 mm clear annealed glass at top, minimum 50 micron powder coating	15.00	M2
314	Providing & fixing bakelite door made of 16 gauge X 25 X 65 mm Al powder coated frame with 3 mm thick bakelite sheet along with 4 inch tower bolt, 3 nos. hinges, installation	15.00	M2
315	Providing & fixing Al Grill - mesh opening 50 mm X 50 mm in 5 mm thickness with framing of 16 gauge 40 X 15 aluminium pipe, Rate shall be inclusive of man, material, transportation, installation & wastage	15.00	M2
316	Providing & fixing Al Grill - mesh opening 75 mm X 75 mm in 5 mm thickness with framing of 16 gauge 40 X 15 aluminium pipe, Rate shall be inclusive of man, material, transportation, installation & wastage	15.00	M2
317	Providing & fixing HYPER / GODREJ (9420) / ENOX / DORMA (TS 71) MAKE DOOR CLOSER	15.00	EA
318	Providing & fixing concealed door closer Godrej / Dorma / Enox make as per approved AOC palatte	15.00	EA
319	Providing & fixing Floor spring including making cut out in floor and fixing of spring, rate shall be inclusive of man, material, installation so as to complete the job. (Product - Dorma make BTS 75V / Godrej make 9424)	15.00	EA
320	Providing & replacing beading of sliding windows with PVC beading, rate shall be inclusive of man, material, opening of window shutter and replacing beading, refixing	15.00	M

321	Providing & replacing SS 430 / SS 201 friction stay hinge of openable window of 10 inch for max width 1200 mm, , rate shall be inclusive of manpower, material, removal of window, replacement of hinge and reinstallation of window	15.00	EA
322	Providing & fixing 6 inch CP tower bolt	15.00	EA
323	Providing & fixing 8 inch CP tower bolt	15.00	EA
324	Providing & fixing 12 inch CP aldrop	15.00	EA
325	Providing & replacing ss mosquito mesh of existing sliding windows shutters at all heights including removing damaged mesh, providing new ss mosquito mesh 24 gauge 16 mesh and fixing it in window as earlier of matching shape and design with nails / screw complete with finishing as directed by TPC engineer.	15.00	M2
326	Providing & fixing cylindrical lock Godrej / Enox / Hafele / equivalent make as per AOC palette	15.00	EA
327	Providing and fixing brass mortise latch & lock 100mm X 65mm with 6 levers & a pair of brass lever handle(for main door).	15.00	EA
328	Providing & fixing 12 mm thick toughened glass door cut to the required size with Godrej make Patch fittings for top, bottom pivot and side patches, rate shall be inclusive of man, material, transportation and installation at site	12.50	M2
329	Providing & fixing toughen glass door lock (Godrej make - prod code 7780)	12.50	EA
330	Providing & fixing Bottom lock in glass door Godrej make Bottom lock patch 7759 or Godrej make Side lock patch 7764.	12.50	EA
331	Providing & fixing chrome plated door stopper	15.00	EA
332	Providing & fixing 100 mm long door buffer made of PVC	15.00	EA
333	Providing & applying Garvare make sun control film of required shade, Garware make high heat rejection film HHR 25	40.00	M2
334	Providing & fixing Garware make White Board film of PTE film thickness 150 micron	15.00	M2
335	Providing & fixing Modular cubical in 12mm compact laminate of approved color and texture with ss hardware comprising of door shutter, wall fixing rose, head, rail, wall bracket, tubular holder, corner connector, coat hook cum door stopper, lock cum occupancy indicator, hinge, door knob, adjustable foot and all other necessary accessories required to complete the job in all respect. Make - matrix, Greenlam sturdo or equivalent	15.00	EA

336	Providing & fixing urinal partition: providing and fixing of urinal composite partition of approved colour and make including all tools and tackles fixing at site in line and level etc complete as directed.	25.00	EA
337	Providing & fixing mirror of size 600 X 450 along with bracket / studs	12.50	EA
338	Providing & fixing Mirror of 550 mm dia along with brakcet / studs	12.50	EA
339	Providing & fixing 12 mm thick toughen glass of Saint gobain / modiguard or equivalent, rate shall be inclusive of installation of 14 gauge Aluminium channel at top & botton or / making groove in floor & masonry, finishing joint of glass with silicon sealant	15.00	M2
340	Providing & fixing 8 mm thick toughen glass of Saint gobain / modiguard or equivalent, rate shall be inclusive of installation of 14 gague Aluminium channel at top & botton or / making groove in floor & masonry, finishing joint of glass with silicon sealant	15.00	M2
341	Providing & fixing of Godrej make H tyep HANDLE, TYPE: SS H, INCLUDING ALL TOOLS & TACKLES (length - 450 mm)	15.00	EA
342	Providing & fixing of Godrej make H type HANDLE, TYPE: SS H, INCLUDING ALL TOOLS & TACKLES (lentgh 600 mm)	15.00	EA
343	Providing & fixing of Godrej make NEH 03 handles	15.00	EA
344	Providing & applying silicone sealant of Dow / Dr. Fixit silicon sealant suitable for Aluminium to granite / marble stone	15.00	M
345	Poviding & applying silicone sealant of Dow / Dr. Fixit silicon sealant suitable for Aluminium to cement plaster surface	15.00	M
346	Providing & applying clear silicone sealant of Dow / Dr. Fixit silicon sealant suitable for glass	15.00	M
347	Providing & fixing monolithic gypsum board false ceiling conforming to IS 2095, at all heights including providing and fixing of framework as spelled out in approved manufacturer catalogue. Bidder to provide adequate steel sections & hanger supports, including making openings for ac grills, smoke detectors, electrical fixtures etc. The cutouts shall be provided with perimeter channel of adequate size of 0.5 mm thick. Vertical / inclined face shall be measured above 200 mm high only.	75.00	M2
348	providing & fixing tegular grid ceiling system, at all heights including providing and fixing of framework in silhouette system sections as spelled out in Armstrong or equivalent manufacturer catalogue. Ceiling tiles shall be of size 600 mm x 600 mm of approved color. Incl. adequate steel sections (channel, main runner, cross runner in silhouette section) and hanger / GI wire supports to cater to the false ceiling loads. Approved make: Armstrong or equivalent	75.00	M2

349	Providing all materials and fixing monolithic gypsum board false ceiling conforming to IS 2095, at all heights including providing & fixing of framework as spelled out in Saint Gobain or equivalent. Incl. adequate steel sections (channels, L or T sections) and hanger supports to cater to the ceiling loads. Incl. making openings for AC grills, smoke detectors, electrical fixtures etc. The cutouts shall be provided with perimeter channel of adequate size of 0.5 mm thick. (For width below 200 mm)	150.00	M
350	Providing all materials and fixing monolithic gypsum board conforming to IS 2095, at all heights on existing supports. Vertical / inclined face shall be measured above 200 mm high only. For payment purpose false ceiling shall be measured in plan only.	75.00	M2
351	Providing all materials and fixing 3 mm thick bakelite sheet, at all heights on existing supports. For payment purpose false ceiling shall be measured in plan only.	75.00	M2
352	Providing & fixing PVC ceiling planks 7 to 10 mm thick, including providing and fixing of framework as spelled out in manufacturer catalogue. Quote shall include sealing off the ends, capping, all support systems, edges framing etc.	75.00	M2
353	Providing & fixing of open cell cellio metal false ceiling system at all heights including providing and fixing of framework as spelled out in Armstrong or equivalent, size 600 mm x 600 mm. including providing adequate steel sections (channels, i or t sections) and hanger supports to cater to the false ceiling loads. Owner would check the design and adequacy and has the right to reject if found inadequate. Job to be complete in all respect.	25.00	M2
354	Prov & fixing of Infratop false ceiling with hidden/visible perforations, of panel sizes of 340mmx 2700mm, resistant to moisture, borer-fungus-termite attack. Panels to be installed with GI / Aluminum sections of suitable gauge & size according to site conditions. Panels SV 08/07 &09 with suitable trims SV 15 with dimensions 40x19x22x12x3050 mm for edge profiles & SV 18 with dimensions 67x3050 mm with T head of 42mm for connecting profiles. 10 years warranty for colour & finish of the panels	40.00	M2
355	Providing Services for fixing of available false ceiling panel by laying new mesh of silhouette section supports, rate shall be inclusive of man, material, tools & tackles, transportation	40.00	M2
356	Providing and fixing anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head-for 300 mm height	40.00	M2
357	Providing and fixing anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head-for 450 mm height	40.00	M2

358	Providing and fixing anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head- for 600 mm height	40.00	M2
359	Providing Services for installation of existing false flooring panels, rate shall be inclusive of manpower, flooring support of 450 mm, laying & fixing supports to the line and level, cutting of flooring panels as per site requirement and installation	40.00	M2
360	Supplying and fixing aluminum composite panel of approved make and colour for exterior application. The 4 mm thick panels of 3mm thick thermoplastic core of mid low density polyethylene sandwiched between two skins of minimum 0.5mm thickness aluminum sheets, protected with self-adhesive peel off masking foil with PVDF base coating on top side and rear side would be in mill finish. As per the specification duly fabricated on imported holzer machines and fixed to extruded aluminum sections	40.00	M2
361	Providing & fixing Aludecor make firewall a2 ACP sheets or equivalent as approved by EIC, rate shall be inclusive of man, material, transportation, al support structure using 25 x 25 mm square pipe, cutting of sheet, wastage and disposing of debris outside tata power premises	40.00	M2
362	Providing & fixing ACP sheet of approved make & colour for exterior application. The 4 mm thick panels of 3 mm thick thermoplastic core of mid low density polyethylene sandwiched between two skins of minimum 0.5mm thickness aluminum sheets, protected with PVDF base coating on top side & rear side would be in mill finish. fixed to existing support framing	75.00	M2
363	Providing Services for removal of vertical / roller blinds and disposal it scrap yard or designated place as instructed by EIC	75.00	M2
364	Providing Services for fixing of existing available roller blind / vertical blinds, rate shall be inclusive of manpower, necessary screws or minor fixtures to complete the job	25.00	M2
365	Providing and fixing of vertical blind for window. Providing Aluminum channel with 100mm fabric size with operating unit .etc providing all equipment, material, tools, tackles etc for fixing blinds of approved make and shade etc complete as directed by site in charge	25.00	M2
366	Providing services for repairing chain / holder etc for vertical blind.	25.00	M2
367	Providing and fixing of roller blind for window, providing, translucent fabric, with Aluminum frame and control unit along with the material, tools, tackles etc for fixing blinds for windows of approved make and shade by tata power etc complete as directed (product - platina make 01a bamboo or 01a alfa)	25.00	M2

368	Providing carpentry services for one shift, rate shall be inclusive of one carpenter & one helper	25.00	EA
369	Providing Material for minor carpentry works, payment will be made against submitted bills and challans of material, incl. 15% profit for vendor	25.00	EA
370	Providing & replacing handle of chair for Godrej make leoma	12.50	EA
371	Providing & replacing handle of chair for stellar make Rev CH 16	12.50	EA
372	Providing & replacing wheel of chair of Godrej / stellar make chairs	12.50	EA
373	Providing & replacing hydraulic cylinder of chair (for Godrej make leoma) along with handle	12.50	EA
374	Providing & replacing hydraulic cylinder of chair (for stellar make Rev CH 16) along with handle	12.50	EA
375	Providing & replacing laminate of wooden door or shelf, rate shall be inclusive of removal of existing laminate by heating, grinding the surface to the smoothest possible, applying adhesive and pressing 1 mm thick laminate of approved shade and make over cleaned surface, rate shall be inclusive of man, material, transportation, wastage and disposal of debris, removing & refixing of door	12.50	M2
376	Removing and refixing of wooden door (size height: 80-inches (6-feet, 8-inches) thickness: 1 ¾-inches. Width: 36-inches, providing all tools tackles material for removing and refixing the wooden door completed as directed	12.50	M2
377	Marking and painting of strip, width: 100 mm, providing all required material road marking synthetic enamel, brushes, solvent, tools and tackles, skilled painter for cleaning and preparing the surface by scrapping sand papering to remove loose scale, making the surface plain and marking the strip, painting two coats in perfect strip and painting two coats in perfect alignment marking	40.00	M
378	Marking and painting of strip, width: 75 mm, providing all required material road marking synthetic enamel, brushes, solvent, tools and tackles, skilled painter for cleaning and preparing the surface by scrapping sand papering to remove loose scale, making the surface plain and marking the strip, painting two coats in perfect strip and painting two coats in perfect alignment marking	40.00	M
379	Marking and painting of strip, width: 50 mm, providing all required material road marking synthetic enamel, brushes, solvent, tools and tackles, skilled painter for cleaning and preparing the surface by scrapping sand papering to remove loose scale, making the surface plain and marking the strip, painting two coats in perfect strip and painting two coats in perfect alignment marking	40.00	M

380	Providing & carrying out Whitewash by cleaning the surface by using brush, making it free from any loose or foreign material, dirt, oil, grease etc., preparing white wash water with mixing 1kg class D lime with 6 litres of water, leaving it for 2 days for uniform thin cream, mixing glue 100 gm per 6l of whitewash water, then applying it in two coats to achieve uniformity in white wash.	25.00	M2
381	Providing & applying two coats of lime and Geeru to combine height of 1.20 m to the trunks of trees of girth upto 3 feet with correct line and level and width as required. Rate will be inclusive of cleaning tree trunk, making it dust free for application of Geeru and lime.	25.00	EA
382	Providing & applying two coats of lime and Geeru to combine height of 1.20 m to the trunks of trees with correct line and level and width as required. Rate will be inclusive of cleaning tree trunk, making it dust free for application of Geeru and lime. But for girth 3 feet to 6 feet.	25.00	EA
383	Providing & applying two coats of lime and Geeru to combine height of 1.20 m to the trunks of trees of girth upto 3 feet with correct line and level and width as required. Rate will be inclusive of cleaning tree trunk, making it dust free for application of Geeru and lime. But for girth above 6 feet.	25.00	EA
384	Providing and applying two coats of synthetic enamel paint of approved make over one coat of primer on structural steel including scaffolding at all height, providing all material for process	25.00	M2
385	Providing and applying emulsion primer along with anti fungus treatment as per requirement including filling up the crevices, cracks & holes with approved quality of painter's putty and making the surfaces smooth and finishing with two coats of approved quality paint at all heights with acrylic emulsion paint (internal quality) of first quality and of approved manufacturers and approved shades.	125.00	M2
386	Prov. & applying duco paint as per following process:- 1) Filling dents and unevenness using wood filler putty and sanding it 180 no. sand paper 2) Applying 1st coat of primer with thinner (1 thinner : 1.5 primer) 3) sanding the surface again and fill the dents using wood filler putty 4) Apply one coat of primer on repaired surface and sand the surface with 220 & 320 no. sand paper 5) Apply 2 coat of duco paint (Duco NC lacquer 1 part: Duco thinner 2 part).	40.00	M2
387	Supplying providing and applying to wall with water base acrylic emulsion paint of approved manufacture and of approved colour and shade including scaffolding etc complete as directed by EIC and application as per manufacturer's recommendation, including scaffolding ,cleaning surface etc. Acrylic emulsion paint 1 coat	125.00	M2

388	Providing and applying emulsion primer along with anti fungus treatment as per requirement including opening up of crevices, cracks & holes and making v grooves, and filling up with approved quality of crack filler and making the surfaces smooth and finishing with two coats of approved quality paint at all heights with acrylic emulsion paint (external quality) of first quality and of approved manufacturers and approved shades.	75.00	M2
389	Providing all necessary tools ,tackles ,preparing the surface by scraping, chipping to remove loose rust, paint, detrimental foreign matter etc. Providing and applying one coat of high build zinc phosphate primer 35 microns DFT. Applying two finish coats of leafy aluminum paint (IS 2339) of 30 microns DFT of each coat complete as directed by EIC at all heights. total thickness of DFT shall not be less than 95 microns	40.00	M2
390	P/A Birla white putty, Mix Birla white wall care putty with clean water slowly to make paste. Continue the mixing for 10-15 minutes till a uniform paste is formed. Apply the first coat on already moistened wall surface. After drying of first coat of putty just rub the surface gently with west sponge or rub the surface very gently with the putty blade in order to remove the loose particles. Allow the surface to dry for at least 3 hours and then apply second coat.	40.00	M2
391	Providing and applying of 4 to 8 mm thick lime pop punning over all types of plastered surfaces of walls ceiling beams columns etc. To bring surface in plumb line and level, including making surface smooth, providing required grooves on top of skirting etc. The cost shall include all labour, materials, scaffolding, protecting adjoining surface, cleaning etc complete.	40.00	M2
392	Providing and applying one coat of surface tolerant epoxy primer at 50 microns DFT followed by two finishing coats of high-build coal tar epoxy in recommended DFTs (100 microns DFT per coat) for chequered plates / gratings. Total thickness of DFT shall not be less than 250 microns. Item includes preparing the surface by scraping, sand papering, cleaning, solvent cleaning wherever required to remove oil/grease & painting with two coats of high-build coal tar epoxy in recommended DFT.	40.00	M2
393	Preparing the surfaces of wood by removing the existing stains, dirt, etc. By sand papering, filling cracks, depressions etc. with approved quality of putty or wax wherever required and as recommended by TPCL engineer and applying coats of French polish.	40.00	M2
394	P/A melamyne Polish (Make asian paint or equivalent approved by Tata Power) on wooden surface including all tools ,tackles ,plant, equipment (i) Scrubbing with sand paper (ii) Applying lac polish/spirit and lak dana solution (iii) filling small holes/cracks/scratches making surface even with putty/whiting mix with desired raw/burnt/burnt turkey amber sienna and lac polish (iv) Apply sand paper again on applied putty/whiting for finishing surface (v) Apply 2 coats of polish with buffing	40.00	M2

395	Providing all necessary tools tackles services etc. For removing & providing high quality PU polish on door as directed by site engineer. Shade and color of the polish shall be same as previous shade & color.	40.00	M2
396	Prov. & applying luminous paint of required shade, rate shall be inclusive of scrapping of surface to make it free from dirt, oil and algae, applying one coat of water based primer and two coats of luminous paint	40.00	M2
397	Providing Services for removal of grass / shrubs (of size up to 3 feet height) by uprooting them or cutting them from base, rate shall be inclusive of man, tools, disposal of wild growth outside tata power premises	200.00	M2
398	Providing & spraying weedicide at switchyards in power house, rate shall be inclusive of material, spraying tools, manpower so as to complete the job. Vendor should submit MSDS of weedicide prior to use on site.	200.00	M2
399	Providing Services for moss removal by spraying bleaching powder over the area, leaving it for 30 minutes and spray water over it	200.00	M2
400	Providing services for manual shifting of materials from one designated location to another location within the Tata Power Premises. The scope includes lifting, carrying, placing, and repositioning of materials as instructed by the Site engineer. The service shall be executed safely, efficiently, and without damage to materials, property, or surroundings, using appropriate resources, tools, and handling methods. All activities shall comply with applicable safety standards and site regulations laid down by Tata Power.	300.00	M2
401	Supplying natural red soil at site as directed by EIC	15.00	M3
402	Providing & supplying good cow dung manure, loading & unloading at site etc.	25.00	M3
403	Providing Services for completing / attempting choke up clearance in any sewage line by using traditional method of using 8 mm / 10 mm reinforcement bar, pouring in water with pressure as much as possible as instructed by EIC	40.00	M
404	Providing Services of municipal corporation suction tank & ite operating team	10.00	EA
405	Providing Services for cleaning of sewage chamber of all sizes by removing its muck and disposing it away from residential area outside tata power premises	25.00	EA
406	Providing Services for removal of gravel & boulders filled in transformer foundation or in switch yard ground and shifting within 100 meter lead inside tata power premises	25.00	M3
407	Providing Services & material for laying gravels (50 - 60 mm) in transformer foundation with gravels & boulders (200 - 250 mm) available at site as instructed by EIC	25.00	M3
408	Prov services & material gravel in switch yard of size 50 - 60 mm in layer maximum upto 300 mm depth, rate shall be inclusive of shifting material within 200 meter lead, levelling of surface	25.00	M3

409	Providing & laying river / sea sand bags (min weight 20 kg per bag), shifting & laying cable trenches	25.00	EA
410	Providing Services for river / sea sand filling in trenches and levelling, rate shall be inclusive of man, material, shifting of sand upto 100 m lead.	25.00	M3
411	Providing Services of removal of sand bags and shifting it to designated place as instructed by EIC	25.00	EA
412	Providing Services for laying of existing sand bags, rate shall be inclusive of shifting of sand bags upto lead of 100 m	25.00	EA
413	Providing all tools, material & manpower for constructing of new earth pit incl Providing and laying of fine sand in layer in earthing pit, salt, coal, bentonite in earthing pit in layers & 8mm thickness MS plate above it. Rate shall include the cost of loading, transporting and unloading, shifting of material at the designated place & number painting on earth pit plate with synthetic enamel paint as directed by EIC. Size of earth pit as follows 600mm x 600mm	25.00	EA
414	Providing all tools, material & manpower for constructing of new earth pit incl Providing and laying of fine sand in layer in earthing pit, salt, coal, bentonite in earthing pit in layers & 8mm thickness MS plate above it. Rate shall include the cost of loading, transporting and unloading, shifting of material at the designated place & number painting on earth pit plate with synthetic enamel paint as directed by EIC. Size of earth pit as follows 900mm x 900mm	25.00	EA
415	Providing all tools, material & manpower for constructing of new earth pit incl Providing and laying of fine sand in layer in earthing pit, salt, coal, bentonite in earthing pit in layers & 8mm thickness MS plate above it. Rate shall include the cost of loading, transporting and unloading, shifting of material at the designated place & number painting on earth pit plate with synthetic enamel paint as directed by EIC. Size of earth pit as follows 1200 mm x 1200mm	25.00	EA
416	Supplying 3 m long marconite rod by casting marconite compound around 20 mm dia copper rod, rate shall be inclusive of man, material, tools, transportation and installation at site, rod must be free from visible cracks	25.00	EA
417	Refurbishment of existing earth pit rate shall be including removing of existing earthing rod of any size, sand, coal, bentonite, existing earthing pit cover of mild steel /aluminum chequered plate of any size and thickness. making of new earth pit by prov. & laying of fine sand , salt ,coal ,bentonite in earthing pit in layers & 8 mm thick MS plate above it. incl transport, shifting of material & number painting on earth pit plate with synthetic enamel paint. for 600 mm x 600mm	25.00	EA

418	Refurbishment of existing earth pit rate shall be including removing of existing earthing rod of any size, sand, coal, bentonite, existing earthing pit cover of mild steel /aluminum chequered plate of any size and thickness. making of new earth pit by prov. & laying of fine sand , salt ,coal ,bentonite in earthing pit in layers & 8 mm thick MS plate above it. incl transport, shifting of material & number painting on earth pit plate with synthetic enamel paint. for 900 mm x 900mm	25.00	EA
419	Refurbishment of existing earth pit rate shall be including removing of existing earthing rod of any size, sand, coal, bentonite, existing earthing pit cover of mild steel /aluminum chequered plate of any size and thickness. making of new earth pit by prov. & laying of fine sand , salt ,coal ,bentonite in earthing pit in layers & 8 mm thick MS plate above it. incl transport, shifting of material & number painting on earth pit plate with synthetic enamel paint. for 1200 mm x 1200mm	25.00	EA
420	Providing all material, tools and tackles, service for brazing of 0.2 copper conductor	25.00	NO
421	laying copper conductor,0.2mm, providing all tools & tackles for laying conductor in line as directed by EIC	25.00	M
422	Providing & applying Acrylic waterproofing coat over RCC roof including removing of existing waterproofing treatment, removing damaged or loose portion of roof substrate, preparing surface free of dirt, oil etc., filling unlevelled surfaces with polymer modified mortar prepared by Dr. Fixit URP & filling surface cracks with Dr.Fixit Crack X, grouting of roof with non shrinkable polymeric grout, then applying primer coat of Dr. Fixit primeseal two coats of Dr. Fixit New coat with fibreglass mat	40.00	M2
423	Providing and laying brickbat coba in sunken portion of WCs, bathrooms, etc., consisting of one part of cement, 2 parts of broken brickbats varying from 12 mm to 25 mm thick and one part of lime mortar to two parts of sand as specified including preparing the surface by applying and grouting a slurry coat of neat cement using 2.75 kg/m ² of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface	40.00	M2
424	Providing and applying of Shalitek primer (solvent base) followed by 3mm superthermolay laying by hot torch application followed by providing and applying of shalitek primer (solvent base) followed by 3mm superthermolay laying by hot torch application. Top surface : providing and applying silver shield (bituminous aluminum coating) (With 5 year guarantee).	40.00	M2
425	Providing and laying intenral cement based water proofing treatment with China Mosaic finish including preparation of surface as required for treatment of roofs, balconies, terraces, RC gutters, etc. as per approved mehtodology	50.00	M2

426	Preparation & curing clean the surface & provide geotextile (minimum 300gsm). Provide PVC membrane (made of virgin PVC) of 1.5mm thick over the surface & start placing from lowest point. Unroll the membrane half way align & fix the membrane 1st layer with the help of anchors & aluminium washers & adjacent layer with hot air welding & applying uniform pressure by roller/wet cloth to remove entrapped air. Membranes to be fixed with aluminium strips at the end above parapet wall.	40.00	M2
427	Providing, fixing & removing plywood (12mm to 20 mm thickness) covers of existing machine units/pump etc. (actual area of openings covered by plywood be measured.)	40.00	M2
428	Providing services for chipping of loose concrete from beams, columns, slabs & all other concrete surfaces to expose sound concrete beneath using light chisel & hammer & also preparing concrete surface to receive further treatment, disposing the debris as directed	40.00	M2
429	Providing services for cleaning reinforcement of total rust by tapping or using wire brush or any other suitable way including from behind and around the reinforcement bars to give it a totally rust free finished steel surface. Measurement shall be on basis of repair surface area. Providing and applying approved chemical rust remover with paint brush and removing loose particles after 24 hours of its application. Measurement shall be on basis of repaired surface area	30.00	M2
430	Providing & applying corrosion inhibitor, the exposed reinforcing bars shall be cleaned thoroughly to remove corrosion scales using buffing wheel and emery cloth. The exposed surface shall be washed with water jet followed by applying two coats of anticorrosive chemical of approved brand on cleaned rebars as per manufacturer's specification and directions of engineer-in-charge. (surface area of concrete treated will be measured for payment)	30.00	M2
431	Corrosion Treatment :- Removing existing corrosion by means of mechanical wire brush on exposed surfaces of reinforcement, providing and applying Alkaline based Rust Converter RUST GUARD in single coat over the exposed rusted reinforcement as per the manufacturer specifications and instructions. Providing and Applying two coats of Zinc rich Primer on reinforcement, STEEL GUARD at all heights etc complete.	30.00	M2
432	Treatment For Separation Cracks :- Opening up the junction of brick work and beam / column, sealing the junction by metal packing/filling by polymer mortar, then overlaying the joints / crack by approved fibre sheet (strip) approx 200mm wide, applying bond coat of approved polymeric slurry before and after the fibre sheet is fixed over the joint (junction / crack) etc complete.	30.00	M

433	Providing material & treating cracks by filling , Cleaning the crack surface with the help of clean water, drying the surface in natural sun, providing & applying the bonding coat, providing & fixing fiber cloth 25mm to 50 mm width, filling the same with polymer putty, providing & applying 2 coats of acrylic polymer to that width of the surface cure natural for 24 hrs. etc. complete.	30.00	M
434	Carefully opening the cracks in plaster, cleaning the cracks with electrical air blower/water & filling the cracks with polymer modified cementitious mortar in proportion 1:5:15 (i.e. Polymer: cement: well graded quartz sand by wt.) including polymer bonding coat & seal coat, curing etc. complete. (Note: Width of cracks upto 6 mm and depth upto 20mm.)	30.00	M
435	Cleaning & filling the joints/gaps between the window with the help of PU Sealant of approved make etc complete in all respect from the both sides.	30.00	M
436	Providing and applying bond coat on the prepared surface to receive new polymer mortar/polymer modified concrete, with two components epoxy based bonding coat concrete 1414 of BASF/Nitobond ep of FISROC/ Fitbond EA of Conmix or equivalent material in one full coat. Laying of reinstatement polymer mortar or micro concrete shall be completed within the overlay time of bonding coat. Item rate inclusive of all man, material, transportation, tool etc.	30.00	M2
437	Providing and applying of polymer modified mortar single component, alkaline resistant fibre reinforced, dual shrinkage-compensated, thixotropic, cementitious patch repair mortar as suitable material and finishing with trowel carefully compacting the same around the rebar's and finishing to bring it in line with existing concrete surface on the columns, beams & slabs etc., 25 mm thick polymer / latex modified mortar plaster	30.00	M2
438	Providing and laying of micro concrete, approved brand in proportion 1:1 with metal no.1 including mixing, waterproof shuttering, pouring, consolidating, scaffolding, curing as per MFG specifications, transportation at site, identification of leakage source, including dewatering of pits whenever required till completion of job etc complete as directed. (Measurement will be taken on consumption of micro concrete only, metal/aggregate will not be measured separately.)	30.00	KG
439	Providing and applying Prodecoat 0770 as per following methodology 1. Cleaning entire surface with high pressure water jet pump 2. Allow surface to dry 3. Open visible cracks in 5 mm * 5 mm width & depth. 4. Apply one coat of POLYSEAL-0724 in the opened cracks uniformly. 5. Allow it to dry for 4 Hours.	30.00	M2

	<p>6. Fill the cracks with polymer sealant AQUASEAL</p> <p>7. Apply first coat of PRODECOAT- 0770 uniformly with brush or roller</p> <p>8. Allow it dry for 60 minutes</p> <p>9. Apply second coat of PRODECOAT-0770</p>		
440	<p>Providing & applying one coat of primer and two coats of elastomeric paint having an sel elongation upto 200 % applied to the surface at interval of not less than 6 hours to the approved shade and colour etc. complete. RAINGUARD .(,Providing & applying two coats of Elastomeric coating having 200-300% elongation over a coat of primer over properly prepared plaster surface including scrapping all loose material on existing plastered surface etc complete as directed.)</p>	30.00	M2
441	<p>Providing & applying Expanded Foam (FST-Foam Duct Sealant 250) including Cartridge Set with Mixing Nozzle for any cable entry points gap filling work as directed by TATA power Engineer. The rate shall includes the cost of materials & associated equipments required for the job.</p>	30.00	EA
442	<p>Hiring of JCB with fuel, operator and carrying out work as directed for 8 hours shift</p>	10.00	SFT
443	<p>Providing service of 90 ton crane meeting all the requirement of tata power safety norm, rate should be quoted for 8 hr shift</p>	5.00	SFT
444	<p>Prov. Services of compressor / tractor breaker for breaking of PCC / RCC / rock, rate shall be inclusive of manpower, transportation, fuel charges, mobilization charges, operator charges. Rate will be for 8 working hours shift</p>	10.00	SFT
445	<p>Prov. Services of JCB breaker for breaking of PCC / RCC / rock, rate shall be inclusive of manpower, transportation, fuel charges, mobilization charges, operator charges. Rate will be for 8 working hours shift</p>	10.00	SFT
446	<p>Providing service for hiring of Ferrana meeting all the requirement of Tata power safety norm, rate should be quoted for 8 hrs shift</p>	15.00	SFT
447	<p>Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 10 kms)</p>	15.00	SFT
448	<p>Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 20 kms)</p>	15.00	SFT
449	<p>Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 30 kms)</p>	15.00	SFT

450	Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance 30 to 50 kms)	15.00	SFT
451	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 10 kms)	15.00	SFT
452	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 20 kms)	15.00	SFT
453	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 30 kms)	15.00	SFT
454	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance 30 to 50 kms)	15.00	SFT
455	Prov. Services of concrete pump for grade up to M30 and distance up to 20 meter / height up to 10 meter	12.50	SFT
456	Prov. Services of manlifter up to 60 feet height for 8 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
457	Prov. Services of manlifter up to 60 feet height for 4 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
458	Prov. Services of manlifter up to 80 feet height for 8 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	10.00	SFT
459	Prov. Services of manlifter up to 80 feet height for 4 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
460	Prov. Services of manlifter up to 100 feet height for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
461	Prov. Services of manlifter up to 120 feet height for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
462	Prov. Services of manlifter up to 150 feet height for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
463	Prov. 2 HP submersible pump for dewatering of pits or other excavated space including diesel, transportation and operator service	12.50	SFT
464	Providing and fixing of tubular H-frame scaffolding/ pipe coupling / modular cup lock scaffolding, material: steel, Tata power standards upto 5 m height including covering it externally with nylon net and dismantling the same after completion of work, scaffolding material shall be in healthy condition and inspected before use by scaffolding inspector, additional information: payment will be made as per area of elevation	40.00	M2

465	Providing and fixing of tubular H-frame scaffolding/ pipe coupling / modular cup lock scaffolding, material: steel, Tata power standards from 5 m & above height including covering it externally with nylon net and dismantling the same after completion of work, scaffolding material shall be in healthy condition and inspected before use by scaffolding inspector, additional information: payment will be made as per area of elevation	40.00	M2
466	Providing and fixing of tubular h-frame scaffolding/ pipe coupling / modular cup lock scaffolding, material: steel, as per Tata power standards including covering it externally with nylon net and dismantling the same after completion of work, scaffolding material shall be in healthy condition and inspected before use by scaffolding inspector, additional information: payment will be made as per area of elevation	40.00	M3
467	Supplying potable water by tanker, rate shall be inclusive of pumping water up to 8 m height as and when required	40.00	KL
468	Supplying potable water tanker to ground level or below storage tank	40.00	KL
469	MAK&CUT CORE IN RCC WALL/SLAB,250MM Providing Core Cutting holes in concrete required for services (if not provided in drawing earlier during casting) of thickness not exceeding 300 mm including grouting the same in cement concrete 1:1:2 after positioning of service lines, bolts, holes, etc. of 160-200 mm diameter.	300.00	No
470	MAK&CUT CORE IN RCC WALL/SLAB,150MM Providing Core Cutting holes in concrete required for services (if not provided in drawing earlier during casting) of thickness not exceeding 300 mm including grouting the same in cement concrete 1:1:2 after positioning of service lines, bolts, holes, etc. of upto 100 diameter.	300.00	No
471	WPC board, Providing and fixing of WPC board, providing all equipment, material, tools, tackles etc for replacing and fixing panneling at all height.as directed by engineer in charge and approved from architect	375.00	M2
472	providing and fixing of Artifical green turf wall cladding panels of make Glo panels. Quote shall include require ply backing, adhesives, tool, tackels etc required to complet the job in all respect. It will be prefered if the material used is LEED or IGBC certified	500.00	M2
473	providing and fixing AWNING of fix type including all necessary supports and fixing at site, stable outdoor weather proof inclduing trasportationat site, fixing at height with fixrures and fastening etc complete as directed.	375.00	M2
474	Providing & replacing the existing Awning cloth with new approved make cloth. Vendor should submit catalogue and take approval from Site In charge before procurement of the cloth. Rate shall include all tools, tackles, transportation, scaffolding, etc. required to carry out the works as directed by Site In Charge.	500.00	M2

475	SERVICE TYPE: PROVIDING AND FIXING OF VINYL FLOORING, MATERIAL: POLY VINYL CHLORIDE OF APPROPRIATE BY MIN THICK: 2 MM OF APPROVED QUALITY AND SHADE INCLUDING LEVELLING, CLEANING OF FLOOR SURFACE, LEVELLING WITH POP IF REQUIRED AND FIXING WITH RUBBER ADHESIVE AS PER MANUFACTURE SPECIFICATIONS INCLUDING CLEANING OF THE SURFACE AND HANDING OVER TO TATA POWER CO, APPROVAL SHALL BE TAKEN FOR SHADE AND THICKNESS OF VINYL FLOORING, CUTOUTS/OPENING WILL BE DEDUCTED	500.00	M2
476	"Providing services for removal of old carpet/Vinyl flooring in office and cabin area including all tools and tackles, cleaning sticky surface, disposing of old carpet/Vinyl floor at outside approved dumping area etc complete."	500.00	M2
477	Prov services for removal of existing membrane of any type by chipping or any other mean without damaging roof slab & scrapping the base coat used for applying previous membrane. Rate shall be inclusive of man, material, chipping tool & disposal of scrap outside owner premises.	200.00	M2
478	CISE,Grouting PU Foam- Grouting the PU Foam Tampur (MAKE-NORMET) by High pressure electric grouting pump with appropriate pressure at required loaction including all tools & tackels etc complete. (Excluding Scaffolding)	100.00	KG
479	Providing and & FIXING 50 mm thick 48 kg/cm3 density glass wool rigid board for ROOFING as per approved make and colour including all tools and tackles, fixing including support at site etc. complete as directed by site in charge Plan area to be payable. Vendor to submit MTC for material brought.	250.00	M2
480	P/S/F of acrylic sheet of approved make and design as per approval. The vendor shall submit samples for approval. The cost shall include all required supports, accessories, frames, seal the ends, channel, etc., to fix the sheet on surface as per drawing.	100.00	M2
481	""P/I LED Light (Multi Colour) Providing and installing LED Light on rental basis at Tata Power Locations within Mumbai locations. The work includes providing suitable type of LED Lights, power drawing arrangement, operator, required cable, manpower for supervision and transportation etc complete. Unit one number means one light per day. (This item will be required in all celebrations, festivals, occasions as an when required by Management, vendor to consider surge pricing of equipment#s while quoting for the item)"	200.00	EA
482	Providing and fixing 600 x 1200 mm tiles of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette in flooring, on an average 50 mm thick bedding of 1:3 cement mortar and filling joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	100.00	M2

483	P/F OF PLY PANELING FINISHED WITH LAMINATE PANELLING WORKS ON WALLS, PROVIDING AND FIXING PANELLING OF APPROVED MATERIAL ON WALLS INCLUDING PREPARATION OF BASE FRAME NECESSARY SUPPORTS AND HARDWARE, POLISHING PAINTING ETC. COMPLETE. BASE RATE OF PANELLING MATERIAL: 2500 RS/SQM PROVIDING AND FIXING WALL PANELLING IN MARINE PLY OF THICKNESS UPTO 6MM WITH NECESSARY FRAMING AND FINSHED WITH DECORATIVE LAMINATE, WITH NECESSARY SITE SPECIFIC MODIFICATIONS ETC. BASE RATE OF LAMINATE IS 550 RS/ SQMTS	100.00	M2
484	S/I OF ROCKWOOL SLAB SUPPLYING INSTALLING ROCKWOOL SLABS FOR THERMAL INSULATION. ROCKWOOL SLABS SHALL BE INSTALLED BELOW FINAL ROOF OF THE FLOOR WITH THE MINIMUM DENSITY OF 16 KG/M3, AND THE MAXIMUM DENSITY IS 24 KG/M3 WITH A STANDARD DEVIATION OF +/- 8 KG/M3, WITH ALG OR FSK FACING. THE JOB INCLUDES COMPLETE INSTALLATION OF FIXING THE INSULATION TO SLAB BOTTOM WITH ALL NECESSARY FIXING SUPPLIES AND MATERIALS TRANSPORTATION MATERIAL SHIFTING.	100.00	M2
485	CISE,P/L of APP membrane Providing & laying of 2 ply APP membrane system 7mm thick as per the manufacturer specifications or as directed by EIC. Providing and applying a Polyester reinforced, APP modified bitumen membrane with plain finish to the primed substrate with overlaps seams of 75 mm (side) and 100 mm (end), a thickness of 3 mm -0.1/+0.1 mm (EN 1849-1), a cold flexibility of -2 °C (EN 1109) Primer: SikaBit® T Primer IN Consumption Primer: 0.25 - 0.30 kg/m2. Membrane: Sika® WP Shield-103 P Supply and apply a polyester reinforced, APP modified bitumen membrane with Mineral finish to the primed substrate with overlap seams of 75 mm (side) and 100 mm (end), a thickness: 4 mm (-0.2 / +0.3) (EN 1849-1), a cold flexibility of -2 °C (EN 1109), a tensile strength (long.) of 700 N/5cm (±20 %) (EN12311-1), an impact resistance of not less than 1000 (EN 12691) and a water tightness not less than 60 kPa (EN 1928 (B)) Membrane: Sika® WP Shield-104 PM Top surface : providing and applying silver shield (bituminous aluminum coating) With 7 years guarantee .	500.00	M2
486	Prov. FRP make perforated cable trays of size 150 mm including support	100.00	M
487	Prov. FRP make perforated cable trays of size 300 mm including support	100.00	M
488	Prov. FRP make perforated cable trays of size 600 mm including support	100.00	M
489	CISE, Making holes and fixing of Grout Nozzles with Quick Set Polymer. Holes shall be made with Drilling Machines or by Chiseling, Grout Nozzles to be fixed in place using quick setting Polymer compound, Dr.Fixit Leak Plug or equivalent	5000.00	EA

490	CISE, Self Adhesive Aluminium Membrane Coating A) Providing and applying thin even coat of oil primer. Before applying primer crack, hole and other defect filling with suitable filler or sealant. B) After drying primer, providing and applying 1.5mm thick Self adhesive Aluminium membrane top cover with aluminium coating over roof top terrace over china mosaic or any other surface, proper rolling and removing any air bubbles. etc. complete.	250.00	M2
491	C&IS, Providing Services for carefully removing of existing stainless steel hand rail, storing & refixing the same on steps with all necessary tools & tackles. The rates quoted shall be inclusive of minor corrections / rectification, necessary fixtures consumables complete as directed by EIC.	250.00	M
492	"Prvdg.and fixing 50mm thick Rockwool (48kg/ cum) or 50mm thk Glass wool (16kg/Cum) Insulation sandwiched between the two boards, including necessary fixtures as directed by Engineer In charge.	200.00	M2
493	Providing fixing Convex Safety Mirror 32 Inches/80 cms Polycarbonate, Traffic Mirror, Unbreakable Round Wide-Angle Driveway Mirror, With Adjustable Brackets. Complete.	40.00	EA
494	Providing all tools, tackles, materials for fixing of 16 SWG SS wire mesh of opening size 12.5 mm x 12.5 mm fixed with 12 mm U bolts as mentioned in the drawing or as directed by EIC at any height incl scaffolding, ladder, machinery etc.	500.00	M2

B. Civil Work in Operational Area			
Sr No	Item description	Estm Qty for 3 Yrs	UoM
B. Civil Work in Operational Area			
1	Excavation in all types of ordinary soils including dewatering and depositing / stacking of all materials removal of vegetation backfilling with excavated earth in layers well watered compacted transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth from 0 to 1.5 mtrs deep within basic lead of 100 mtr (rate does not include payment against royalty and debris management cell charges)	60.00	M3

2	Excavation from 0 to 1.5 meter in all types of ordinary soils (natural / backfilled) including dewatering and depositing / stacking of all materials, removal of wild growth vegetation, backfilling with excavated earth in layers, well watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth material to authorized dumping sites outside owner's premises.	60.00	M3
3	Excavation in all types of ordinary soils including shoring / strutting dewatering and depositing / stacking of all materials, removal of vegetation, backfilling with excavated earth in layers, well watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth from 1.51 to 3.0 mtrs and unloading the excavated material to authorized dumping sites inside owner's premises.	40.00	M3
4	Excavation in all types of ordinary soils including shoring / strutting dewatering and depositing / stacking of all materials removal of vegetation backfilling with excavated earth in layers well watered compacted transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth from 1.51 to 3.0 mtrs deep, rate shall be inclusive of disposing surplus material to authorized dumping sites outside owner's premises.	40.00	M3
5	Obtaining collector permission for excavation for which tata power will provide the available documents. Official payment will be done by tata power on receipt demand note	75.00	M3
6	Prov. Services for excavation in hard rock using JCB breaker as directed by EIC and disposing debris outside tata power premises at authorized site outside owner's premises	75.00	M3
7	Providing cartage service & transporting, excavated soil, debris, bricks, concrete, dry garbage etc. and disposing off to municipal corporation area approved dumping sites outside premises incl submission of relevant documents. Note: measurement will be made on truck measurement.	75.00	M3
8	Providing services for backfilling in layers of 230mm. Consolidated to 150mm. Watering, compacting with tamping /hand rammer with local earth available at site	75.00	M3
9	Supplying good quality murrum free from gravels & boulders, backfilling in layers of 230mm. Consolidated to 150mm. Watering, compacting with tamping /hand rammer, excluding use of JCB as per instruction of EIC	75.00	M3
10	Providing and laying dry rubble soling of basalt stone or black trap stone or locally available strong stones with approved quality stones including filling gaps with small chips ramming with hand rammer etc. Complete.	75.00	M3
11	Laying of rubble soling with material available at site within 50 m lead, rate shall be inclusive of man, shifting of material manually, laying as per line & level, filling interstices with small chips and laying layer of crushed sand or good quality murrum	75.00	M3

12	Providing all necessary tools tackles services etc for demolishing brick masonry of variable thickness with plaster and disposing off the debris to the approved dumping ground of municipal corporation area etc complete as per specifications and as directed by the engineer	39.00	M3
13	Providing all necessary tools tackles services etc for demolishing PCC and disposing of the debris to the approved dumping ground of municipal corporation area etc complete as per specifications and as directed by the engineer., rate shall be inclusive of storing debris up to 200 m lead until taken for disposal	40.00	M3
14	Providing all necessary tools tackles services etc for breaking pointing and disposing of the debris to the approved dumping ground of municipal corporation area / outside owner premises etc complete as per specifications and as directed by the engineer	40.00	M3
15	Providing all necessary tools tackles services etc for demolishing all types of RCC structures at floor level manually or by means of chipper breaker (exclusive of air compressor breaker / JCB breaker / Poclain breaker) including transportation of debris, cutting of reinforcement, disposing salable scrap material to the tata power stores etc. Complete as per the requirement of drawing and as directed by the site-engineer and disposing of the debris to the outside company premises etc complete	40.00	M3
16	Providing all necessary tool tackles services etc for breaking plaster of all thicknesses as directed by the site-engineer and disposing of the debris to the approved dumping ground of municipal corporation outside company premises etc complete as per specifications and as directed by the engineer	60.00	M2
17	Providing all necessary tools tackles services etc for breaking asphalt road and disposing of the debris to the approved dumping ground of municipal corporation area etc complete as per specifications and as directed by the engineer	60.00	M3
18	Providing all necessary tools tackles services etc for breaking asphalt road including macadam layer, soling etc. (all thickness) and disposing of the debris to the outside company premises etc complete as per specifications and as directed by the engineer.,asphalt road including metalling, soling etc. (all thickness)	60.00	M3
19	Providing all necessary tools tackles & services for dismantling structural steel sections i.e. Angles / channels / beams / plates etc (not inclusive of ferrana / crane) & returning the same to nearest tata power stores or designated place etc complete as directed	30.00	MT
20	Providing all necessary tools tackles services etc for removing all type of doors/windows in good condition & returning to the nearest tata power stores with necessary documentation etc. Complete as directed by the engineer	60.00	M2

21	Providing services for removal of chain-link fencing including handing over the salvaged material to tata power stores with proper documentation after completion of the job, including providing & erecting necessary steel tubular scaffolding (up to 2 meter) as per the tata power standards etc. Complete as directed. rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required.	372.00	M2
22	Providing services for removal of Barbed wire including handing over the salvaged material to tata power stores with proper documentation after completion of the job, including providing & erecting necessary steel tubular scaffolding (up to 2 meter) as per the tata power standards etc. Complete as directed. rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required.	558.00	M
23	Providing services for removal of concertina coil including handing over the salvaged material to tata power stores with proper documentation after completion of the job, including providing & erecting necessary steel tubular scaffolding (up to 2 meter) as per the tata power standards etc. Complete as directed. rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required.	558.00	M
24	Providing all necessary tools tackles & services for removing old AC / GI / FRP sheets from existing shed or boundary & returning to the tata power stores etc complete as directed	558.00	M2
25	Providing all necessary tools tackles services etc for breaking of flooring & dado tiles as directed by the site-engineer and disposing of the debris to the outside company premises etc complete as per specifications and as directed by the engineer.	114.00	M2
26	Providing services for dismantling aluminum / wooden / annealed glass / toughen glass partition at all heights & depositing it to tata power stores or scrap yard as directed by engineer	114.00	M2
27	Providing services for dismantling gypsum board partition at all heights including support structure & depositing it to tata power stores or scrap yard as directed by engineer	114.00	M2
28	Providing services for dismantling grid type / gypsum false ceiling including supporting arrangement, depositing saleable scrap to tata power stores & disposing remaining debris outside tata power premises at own risk.	114.00	M2
29	Providing services for dismantling of false ceiling (grid & board type) excluding supports and disposing it outside tata power premises	114.00	M2
30	Providing services for dismantling of false flooring including supporting arrangement using required tools and tackles and shifting it to tata power scrap yard	75.00	M2
31	Providing services for dismantling concealed plumbing line of any dia, by breaking tile / plaster as required, depositing wastage to stores or as directed by EIC / reusing it at site	60.00	M

32	Providing services for wall mounted / concealed sewage / drainage line, disposing material outside Tata power premises at approved dumping ground	75.00	M
33	Providing services for removing floor mounted / wall mounted EWC of any type and size from its support and disposing it outside tata power premises / reusing at site as directed by EIC, rate shall be inclusive of man, material, tools in case of reuse at site so as to fit for use	15.00	EA
34	Prov. Services for removing IWC of any type and size from its support and disposing it outside tata power premises / reusing at site as directed by EIC, rate shall be inclusive of man, material, tools in case of reuse at site so as to fit for use	15.00	EA
35	Prov. Services for removing counter top / wall mounted wash basin of any type and size from its support and disposing it outside tata power premises / reusing at site as directed by EIC, rate shall be inclusive of man, material, tools in case of reuse at site so as to fit for use	15.00	EA
36	Prov. Services for removal of urinal and disposing it to outside tata power premises	24.00	EA
37	Prov. Services for removal of roller blind / venetian blind / vertical blind. Blinds must be removed with support channel & must stored in condition that it can be reused in as it is condition	75.00	M2
38	Providing services for dismantling stone work such as kadappa / granite / marble or similar stone except kota, rate shall be inclusive of removal of mortar bedding if laid on kitchen platform & disposing outside tata power premises at designated local municipal authority dumping ground	114.00	M2
39	Providing services for dismantling any type of railing (SS / MS / GI ; single rail or double rail) and disposing it to tata power stores, rate shall be inclusive of man, material, tools such as gas cutting set / grinder cutter, shifting to stores so as to complete the job	39.00	M
40	Prov. Services for dismantling rolling shutter of any height & width including disposing it to tata power stores, payment for scaffolding to be paid extra if done more than 2 meter high	60.00	M2
41	Removing any type of ms gate and disposing it to stores scrap yard within 200 meter lead	60.00	M2
42	Removal of existing paver blocks 60 - 80 mm thick & sand bedding and disposing outside tata power premises at designated local municipal authority dumping ground.	60.00	M2
43	Removal of existing paver blocks 60 - 80 mm thick including sand bedding and stacking in owner premises within 200 meter lead	60.00	M2
44	Prov. Services for removal of existing trench cover and laying new trench cover, rate shall be inclusive of man, material, tools for replacement of trench cover but excluding of casting trench cover	75.00	EA

45	Supplying, providing and laying in position M - 10 plain cement concrete in levelling course/fill under or around foundations pits. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mix	39.00	M3
46	Supplying, providing and laying in position plain cement concrete M15 grade in levelling course/fill under or around foundations, over soling, column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mix / mixer machine	9.00	M3
47	Supplying, providing and laying in position plain cement concrete M15 grade in levelling course/fill under or around foundations, over soling, column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using RMC	90.00	M3
48	Supplying, providing and laying in position plain cement concrete M20 grade in levelling course/fill under or around foundations, over soling. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mixer machine	90.00	M3
49	Supplying, providing and laying in position plain cement concrete M20 grade in levelling course/fill under or around foundations, over soling. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: RMC	60.00	M3
50	Supplying, providing and laying in position plain cement concrete M25 grade in RCC column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using site mixer machine	60.00	M3
51	Supplying, providing and laying in position plain cement concrete M25 grade in RCC column, beam, pedestal, footing. At any depth with 20 mm down graded coarse aggregates including curing, compacting, de-watering wherever necessary, providing shuttering form work wherever required etc. Complete for the following mixes: using RMC	75.00	M3
52	Providing and replacing of precast reinforced cement concrete structure, grade: M25, max w/c ratio: 0.5, rate to include shuttering, vibrating, machine mixing, providing lifting arrangement, placing insert curing handling, transporting with down graded aggregate: 20 mm	75.00	M3

53	Supplying, providing and placing in position reinforced cement concrete of grade M30 with 20mm down graded aggregate for works below grade levels including vibrating, curing, de-watering wherever necessary, providing construction joints, leaving cut outs / pockets, placing of inserts/ embedment, etc., complete, including cost of providing, fixing and removing form work for all shapes (including scaffolding, centering etc) but excluding cost of providing reinforcement as directed by the engineer	60.00	M3
54	Supplying, providing and laying in position plain cement concrete M25 grade in RCC trench cover with 20 mm down graded coarse aggregates including curing, compacting, providing shuttering form work wherever required etc. Complete using site mix	39.00	M3
55	Supplying, providing and laying in position plain cement concrete M20 grade in RCC trench cover with 20 mm down graded coarse aggregates including curing, compacting, providing shuttering form work wherever required etc. Complete using site mix	39.00	M3
56	Providing and placing in position plum concrete of required thickness, at all depths with 33% boulders of size 150mm to 230mm and 67% ready mix concrete of M15 grade including shuttering, vibrating, compacting, curing, dewatering, levelling, finishing, removal of formwork, etc. Complete as per specifications/drawings and as directed by the engineer-in-charge.	39.00	M3
57	Providing all material and constructing brick masonry 230mm. Thick and above in cement mortar (1:5) using approved quality class 35 conforming to IS 1077 : 1992 table molded bricks, including scaffolding, curing, raking joints, etc. Complete as per specifications & drawings at all levels & locations.	39.00	M3
58	Providing all material and constructing brick masonry 115mm. Thick and above in cement mortar (1:5) using approved quality class 35 conforming to IS 1077 : 1992 table molded bricks, including scaffolding, curing, raking joints, etc. Complete as per specifications & drawings at all levels & locations.	39.00	M2
59	Supplying, providing and laying, un-coursed random rubble masonry in cement mortar 1:5 with approved local stones of good quality for wall footings, etc. And as fill under foundations, including curing, de-watering wherever necessary, etc. Complete for work below ground/grade level at all depths and grade level up to plinth etc., complete as per specification and as directed by the engineer.	39.00	M3
60	Prov. Services for laying including tools tackles, un-coursed random rubble masonry in cement mortar 1:5 with approved local stones of good quality for wall footings, etc. And as fill under foundations, including curing, de-watering wherever necessary, etc. Complete for work below ground/grade level at all depths and grade level up to plinth etc., complete as per specification and as directed by the engineer., rubble to be brought from 50 m lead	39.00	M3

61	Providing all material for dry stone pitching : providing all the materials and laying 225 mm thick. Dry rubble pitching at all heights to correct line and level dry stone pitching with individual stones of 22 cm depth and minimum size 0.014cum. Complete with all leads and lifts for all materials and machinery including all charges and as directed by engineer-in-charge	39.00	M2
62	P/I CLC / AAC / SIPOREX block masonry of required thickness, rate shall be inclusive of man, brick joining adhesive mortar, shifting to required floor, finished in line level as directed by EIC (thickness - 100 mm)	39.00	M2
63	P/I CLC / AAC / SIPOREX block masonry of required thickness, rate shall be inclusive of man, brick joining adhesive mortar, shifting to required floor, finished in line level as directed by EIC (thickness # 200 mm)	39.00	M2
64	Making of pocket, size:300 x 300 x 150 mm, at all levels with staging including grouting with cm 1:3 in concrete/masonry, debris must be disposed outside owner's premises at municipal corporation approved dumping yard	39.00	EA
65	Providing 12mm. Thick smooth finished cement plaster in cement mortar (1:3) for RCC, brick work, sides and undersides of the slabs, canopies, chajjas with drip molding etc. Including scaffolding, curing, etc. Complete as per specifications.	75.00	M2
66	Providing all materials and carrying out sand faced plaster 20 mm thick in two layers (first layer of 14 mm and second layer of 6 mm thickness) with waterproofing compound. Including bands drip molds in cement mortar 1:4 including scaffolding (the rates shall include provision for chicken mesh 230 mm wide at the junction of masonry with RCC).	75.00	M2
67	Prov. & applying ready mix plaster of Godrej make tuff Duro Plast / ACC make Suraksha ready to use plaster 101 or equivalent as approved by EIC, rate shall be inclusive of man, material, transportation, application and finishing of surface, curing	75.00	M2
68	Providing all the materials and carrying out raised or flush cement pointing in 1:3 cement mortar including providing and erecting steel scaffolding (up to 2 meter), curing, edge finishing	75.00	M2
69	Providing all the tools tackles, manpower and materials for laying IPS flooring in panels in m20 grade concrete including as per line & level required, finishing the surface and curing etc. Complete as directed with glass strips in panels of 2 x 2 feet for following thickness: average 75 mm thick	75.00	M2
70	Providing all the tools tackles, manpower and materials for laying IPS flooring in panels in m20 grade concrete as per line & level required, including finishing the surface and curing etc. Complete as directed with glass strips in panels of 2 x 2 feet for following thickness: average 50 mm thick	75.00	M2

71	Providing and fixing 800 x 800 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette in flooring, on an average 50 mm thick bedding of 1:3 cement mortar and jointed with tile grout of ROFF / equivalent make, cutting of tiles to required size, cleaning, curing, etc. Complete.	39.00	M2
72	Providing and fixing 600 x 600 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette in flooring, on an average 50 mm thick bedding of 1:3 cement mortar and filling joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	114.00	M2
73	Providing and fixing 600 x 600 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette on wall, fixed using 1:1 cement sand mortar and filling up joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	60.00	M2
74	Providing and fixing 300 x 600 of NITCO / Kajaria / Johnson approved quality and shade as per AOC palette on wall, fixed using 1:1 cement sand mortar and filling up joints with tile grout of ROFF or equivalent, cutting of tiles to required size, cleaning, curing, etc. Complete.	39.00	M2
75	Providing all materials, tools, tackles & services for supplying & fixing acid resistant tiles. Scope includes 1) applying epoxy primer & allow it dry for 24 hr. 2) fixing the tiles by applying 5-8 mm thick paste made up from mixture of VIKO proof-SDK cement powder or equivalent sodium silicate cement powder & VIKO proof-SDK liquid binder or equivalent liquid binder in proportion of 1:3. 3) joints & gaps to be filled with VIKO proof ep-epoxy resin cement or equivalent acid resistant cement.	75.00	M2
76	Prov. & laying vitrified tile on existing tile using ROFF / MYK Laticrete make or equivalent tile adhesive up to 10 mm thick layer for vitrified tile, rate shall be inclusive of hacking of base tiles, man, material, transportation, wastage, cutting of tiles and laying as per line and level, filling joints with ROFF / equivalent make of tile grout	39.00	M2
77	Prov. & laying vitrified tile on existing tile using ROFF / MYK Laticrete make or equivalent tile adhesive upto 10 mm thickness for ceramic tile, rate shall be inclusive of hacking of base tiles, man, material, transportation, wastage, cutting of tiles and laying as per line and level, filling joints with ROFF / equivalent make of tile grout	39.00	M2
78	Providing and fixing at least 25 mm thick machine cut machine cut kota stone of any sizes for flooring/windows / door jambs / lintel / sill etc with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, demi bull nose / standard / bevel molding & polishing of edges & redoing in cm (1:3) complete.	99.00	M2

79	Providing and fixing at least 15 mm thick machine cut machine cut white spotless marble stone of any sizes for windows / door jambs / lintel / sill with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, demi bull nose / standard / bevel molding & polishing of edges & redoing in cm (1:3) complete.	39.00	M2
80	Providing and fixing at least 15 mm thick machine cut machine polished pitch black granite stone of any sizes for counter / cooking/platform with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, full bull nose or double bull nose molding & polishing of edges & redoing in cm (1:3) complete.	39.00	M2
81	Providing and fixing at least 15 mm thick machine cut machine cut Baroda green stone of any sizes for flooring/windows / door jambs / lintel / sill etc with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls, demi bull nose / standard / bevel molding & polishing of edges & redoing in cm (1:3) complete.	39.00	M2
82	P/s for mirror polishing of kota / mosiac flooring preceded by machine polish to bring level on joints and edges if required	60.00	M2
83	Providing and fixing 15 mm thick black granite on window sill, staircase tread & riser, 20 mm thick cement mortar 1:3 including polishing to exposed edges, cement float, filling joints with neat cement slurry mixed with pigment to match shade of marble, raking and finishing the joints with silicon sealant, curing, rubbing, polishing and cleaning complete at all levels 2nos in steps with minimum 50mm overlapping and maximum of 300mm width in combination.	39.00	M
84	Prov. Services for molding of edge - bull nose or demi bull nose for all type of stones	39.00	M
85	Providing and fixing interlocking concrete paver blocks of 60mm thick. Concrete paver blocks shall be uniformly shaped (monolithic single layer precast concrete blocks) of specified color and pattern, placed on avg. Thickness of 45 mm river / crushed sand cushioning with proper compacting with mechanical compactor with the proper level, grade & camber etc. The side joints should be filled by M-20 grade concrete if required etc. Including all taxes, duties, octroi etc.the testing of paver block	39.00	M2
86	Providing and fixing interlocking concrete paver blocks of 80mm thick. Concrete paver blocks shall be uniformly shaped (monolithic single layer precast concrete blocks) of specified color and pattern, placed on avg. Thickness of 45 mm river / crushed sand cushioning with proper compacting with mechanical compactor with the proper level, grade & camber etc. The side joints should be filled by M-20 grade concrete if required etc. Including all taxes, duties, octroi etc.the testing of paver block	39.00	M2

87	Prov. Services for laying paver blocks available at site within 50 meter lead, rate shall be inclusive of shifting or transporting for given lead, 40 mm thick sand bedding, filling joints with sand	39.00	M2
88	Providing and fixing interlocking concrete paver blocks of 80mm thick. Concrete paver blocks shall be uniformly shaped (monolithic single layer precast concrete blocks) of specified color and pattern, placed on avg. Thickness of 45 mm river / crushed sand cushioning with proper compacting with mechanical compactor with the proper level, grade & camber etc. The side joints should be filled by M-20 grade concrete if required etc. Including all taxes, duties, octroi etc.the testing of paver block	39.00	M2
89	Prov. & fixing kerb stone of size 150 x 300 mm made of M20 grade of concrete conforming to is 5758 (1994) (type 1d), rate shall be inclusive of man, material, transportation, hacking / breaking of PCC / asphalt, laying mortar (1:1) bedding to line and level, cutting / breaking of kerb stone to size and finishing joints with neat cement, housekeeping and disposal of debris outside tata power premises	39.00	M
90	Prov. & laying 20 mm thick paver tile of M 20 grade on average sand bedding of 50 mm thickness to the line and level, rate shall be inclusive of man, material, transportation, tools, joint filling with sand so as to complete the job	39.00	M2
91	Providing & binding reinforcement steel of any dia including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC work irrespective of locations & levels all as per drawings including handling and transporting steel from nearest stores to site complete as directed for HYSD bars.(FE-500 conforming to IS code 1786-1985).	30.00	MT
92	Fab & erection all types of mild steel, work at all height including scaffolding (upto 2 m), welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply and fixing of mild steel bolt, nut, washer and applying one coat approved primer & 2 coat of approved synthetic enamel paint to all the exposed surfaces of steel (excluding chequered plate)	48.00	MT
93	Providing & fabricating & erecting all types of structural steel, work at all height incl. scaffolding (upto 2 meter), welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of primer & 2 coats of approved synthetic enamel paint to all the exposed surfaces of steel(excluding chequered plate)	60.00	MT

94	Fab & erection all types of GI work, at all height including scaffolding (upto 2 m), welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply and fixing of mild steel bolt, nut, washer and applying one coat approved primer & 2 coat of approved synthetic enamel paint to all the exposed surfaces of steel (excluding chequered plate)	9.00	MT
95	Providing & fabricating & erecting all types of GI material, work at all height incl. scaffolding (upto 2 meter), welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of primer & 2 coats of approved synthetic enamel paint to all the exposed surfaces of steel(excluding chequered plate)	30.00	MT
96	Providing all tools, tackles, materials for fixing of 16 SWG SS wire mesh of opening size 12.5 mm x 12.5 mm fixed with 12 mm U bolts as mentioned in the drawing or as directed by EIC at any height incl scaffolding, ladder, machinery etc.	39.00	M2
97	Providing & fabricating & erecting all types of MS tubes & pipes, work at all height incl. scaffolding (upto 2 meter), welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of primer & 2 coats of approved synthetic enamel paint to all the exposed surfaces of steel(excluding chequered plate)	9.00	TO
98	Providing & fabricating & placing MS chequered plate - 6 mm thick, welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of shalimar or any other approved make red oxide (primer) paint & two coat of approved synthetic enamel paint to all the exposed surfaces of steel	39.00	M2
99	Providing & fabricating & placing MS chequered plate - 8 mm thick, welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of shalimar or any other approved make red oxide (primer) paint & two coat of approved synthetic enamel paint to all the exposed surfaces of steel	75.00	M2
100	Providing & fabricating & placing MS chequered plate - 10 mm thick, welding & gas cutting, drilling of hole, with own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine, required for carrying out the entire work, the rate shall include supply & fixing of mild steel bolt, nut, washer & applying one coat of shalimar or any other approved make red oxide (primer) paint & two coat of approved synthetic enamel paint to all the exposed surfaces of steel	75.00	M2

101	Providing, fabricating and erecting MS grills consisting of 12mm square rods with external frame of 20x6mm flats with safety flip door including applying one coat of primer & 2 coats of enamel paint to all the exposed surfaces of steel. Design will be as per AOC palette. All the required steel will be supplied by contractor. Contractor shall use his own welding set, gas cutting set with accessories, gas and electrodes to complete the entire work, as per the direction etc complete	39.00	M2
102	Supplying and laying of grating, material: hot dip galvanized iron and providing all necessary material, tools, tackles & services, outer frame plate size: 40 x 6mm, short span plate size: 40 x 5 mm, bracing plate size: 40 x 5 mm and spacing of plate size: 40 mm	50.00	MT
103	Providing & fixing aluminum chequered plate of 8 mm thick with lifting arrangement cut provided as directed by EIC,	50.00	M2
104	Providing & fixing aluminum chequered plate of 10 mm thick with lifting arrangement cut provided as directed by EIC,	50.00	M2
105	Supplying, fabricating & erecting C class GI tubular h&railing of 32 mm dia. Nb medium class, consisting of double GI rail with top GI rail 1 mtr above floor level, mid rail at 600 mm from floor & pipe post including its own connecting plate at bottom spaced at not more than 2 mtrs with all necessary bends, GI tee joints, GI fixtures, GI fittings, 100 mm x 6 mm toe guard including applying one coat of primer & two coats of synthetic enamel excluding anchor fastener as directed by engineer	50.00	M
106	Providing & fixing single handrail of C class GI pipe of 32 mm dia and connecting with wall with all necessary GI bends, GI tee joints, GI fixtures such as plate for connection at wall, the assembly should be sturdy and with smooth surfaces at joints/ junctions.	50.00	M
107	SS pipes 304 mat finish /brush steel finish ss tabular handrailing consisting of double SS rail with top SS rail 1 mtr above floor level and pipe post including its own connecting plate at bottom spaced at not more than 2 mtrs with all necessary SS bends, SS tee joints, SS fixtures, SS fittings, 100 mm x 6 mm ss toe guard excluding anchor fastener as directed as directed by engineer	50.00	M
108	SS pipes 304 mat finish /brush steel finish consisting of one SS rail and connecting with wall with all necessary SS bends, SS tee joints, SS fixtures, SS fittings, the assembly should be sturdy and with smooth surfaces at joints/ junctions. All SS sections, pipes etc to be supported with documents for the quality	50.00	M
109	Providing & fixing SS hand rail made of SS 304 satin finish of 1.5 mm thickness, with top rail of SS hollow pipe 50 mm dia and bottom 3 made of SS hollow pipe of 25 mm dia, supported by 50 mm dia @ 1.2 m c/c using bracket as per AOC palette, including cutting, bend, finishing of joints & bends, installation using required screws so as to complete the job	50.00	M

110	Providing & fabrication of MS gate in single / double leaf with ISA 65 x 65 x 6 mm angle frame, both side MS flat of 10 mm x 6 mm to hold chainlink, 9 gauge chainlink within frame and painted by 2 coats of synthetic enamel preceded by red oxide primer, including hinges, MS aldrop, welding, gas cutting, shifting with 200 meter lead	50.00	M2
111	Providing ,fabricating & erecting in position gate made of hollow box section as per the approved drawing using steel confirming to IS 2062/IS:1161 including supply of all materials such as hinges, locking arrangement, plunger bolts, SS wheels & fixtures, MS flat plate for wheels with anchors, making of wicket gate ,vision panel etc incl. of 2 coats of synthetic enamel paint with one coat of primer. (outer frame 90 x 60 x 3 mm, inner pipes - 25 x 25 x 3 mm, 3 nos. 100 mm hinges on each shutter)	25.00	M2
112	Providing & fixing 3 mm thick GI perforated sheet with 50% opening holes, rate shall be inclusive of man, material, transportation, installation of sheet using tack weld or nut bolt as per site requirements, wastage and fixing sheet to line, level and alignment	50.00	M2
113	Providing & fixing 16 mm dia, 100 mm long pin type anchor fasteners, including drilling the holes (other than HILTI)	125.00	NO
114	Providing & fixing HILTI make anchor fastener HSA 12 x 100, rate shall be inclusive of drilling & fixing	50.00	NO
115	Providing & fixing HILTI make anchor fastener HSA 12 x 145, rate shall be inclusive of drilling & fixing	50.00	NO
116	Providing & fixing HILTI make anchor fastener HSA 12 x 175, rate shall be inclusive of drilling & fixing	50.00	NO
117	Providing & fixing HILTI make anchor fastener HSA 16 x 102, rate shall be inclusive of drilling & fixing	50.00	NO
118	Providing & fixing HILTI make anchor fastener HSA 16 x 137, rate shall be inclusive of drilling & fixing	50.00	NO
119	Providing & fixing HILTI make anchor fastener HSA 16 x 182, rate shall be inclusive of drilling & fixing	50.00	NO
120	Providing & fixing HILTI make anchor fastener HST2-R 12 x 105, rate shall be inclusive of drilling & fixing	50.00	NO
121	Providing & fixing HILTI make anchor fastener HST2-R 12 x 145, rate shall be inclusive of drilling & fixing	50.00	NO
122	Providing & fixing HILTI make anchor fastener HST2-R 16 x 140, rate shall be inclusive of drilling & fixing	50.00	NO
123	Providing & fixing HILTI make anchor fastener HST2-R 16 x 170, rate shall be inclusive of drilling & fixing	50.00	NO
124	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 450 x 600 (light duty 2.5 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
125	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 450 x 450 (light duty 2.5 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA

126	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 450 x 600 (medium duty 10 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
127	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 900 x 450 (heavy duty 20 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
128	Providing & laying manhole cover conforming to IS 1726 : 1991 of size 300 x 300 (light duty 2.5 category), rate shall be inclusive of man, material, transportation and placing along with ring and masonry finishing	25.00	EA
129	Providing & replacing of hinge of gate, material: 6 inch square hinge mild steel at all levels and heights, rate is inclusive of providing all tools and tackles, material whatever required for successful completion of work & as directed by enGIneer incharge.	25.00	EA
130	Providing & replacing of hinge of gate, material: 4 inch square hinge mild steel at all levels and heights, rate is inclusive of providing all tools and tackles, material whatever required for successful completion of work & as directed by engineer in charge.	25.00	EA
131	Providing material, labor and service for oiling and greasing of shutter, rates are inclusive of providing scaffolding	15.00	M2
132	Providing all tools and tackles for making wicked gate in existing shutter at all levels and height, rate is inclusive of cutting, welding, all required material and scaffolding	12.50	M2
133	Repairing steel rolling shutters of gear operating mechanism. Types using 20G MS interlocking laths including hood and all accessories required and providing with two coats synthetic enamel paint of approved make over one coats of zinc rich primer etc. Complete.	15.00	M2
134	Repairing steel rolling shutters of hand operating mechanism. Types using 20G MS interlocking laths including hood and all accessories required and providing with two coats synthetic enamel paint of approved make over one coats of zinc rich primer etc. Complete.	15.00	M2
135	Providing and fixing of electric motor of set 1KV of approved make including arranging all necessary materials ,connecting rod with the existing rolling shutter and all electrical works required for functioning of rolling shutter. Rate shall includes loading ,transportation and unloading of materials at site or as directed by EIC	12.50	EA
136	Providing and fixing of electric motor of set 1.5 KV of approved make including arranging all necessary materials ,connecting rod with the existing rolling shutter and all electrical works required for functioning of rolling shutter. Rate shall include loading ,transportation and unloading of materials at site or as directed by EIC	12.50	EA

137	Providing and fixing of electric motor of set 2 KV of approved make including arranging all necessary materials ,connecting rod with the existing rolling shutter and all electrical works required for functioning of rolling shutter. Rate shall includes loading ,transportation and unloading of materials at site or as directed by EIC	12.50	EA
138	Providing and fixing mechanically operated rolling steel shutters fabricated from 18G GI sheets with slide guides, bottom rail, brackets, door suspension shaft, housing box at operation arrangement, lock plates, locking arrangement, fixing bolts, pulling handles, hood, rolling arrangement & 2 coats of approved synthetic enamel paint over a coat of zinc primer complete. wicket gate shall be paid under separate item, in that case area of wicket gate shall be deducted from this item for payment.	15.00	M2
139	Providing service for fabrication work including welding rod, grinder cutter, gas cutting set including gas consumption, all tools and tackles required for performing the fabrication job	15.00	DAY
140	Providing service for fabrication work including welding rod, grinder cutter, manpower, all tools and tackles required for performing the fabrication job	12.50	DAY
141	Providing, fabricating and erecting of tray c shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 150 mm	50.00	M
142	Providing, fabricating and erecting of tray C shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 300 mm	50.00	M
143	Providing, fabricating and erecting of tray C shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 450 mm	50.00	M

144	Providing, fabricating and erecting of tray C shape, material: galvanized iron, any size and supplying all material, at all heights including steel scaffolding, welding and gas cutting, drilling of hole, contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrode, drill machine and other accessories, required for carrying out the entire work, the rate shall include supply and fixing of galvanized iron bolt, nut and washer: 600 mm	50.00	M
145	Providing Services for stretching chain link fencing at all height, rate shall be inclusive of man, scaffolding up to 2 m, split pin of 16 gauge, shifting chain link within 200 m lead and stretching tools so as to complete the job	75.00	M2
146	Providing Services for stretching barbed wire at all height, rate shall be inclusive of man, scaffolding up to 2 m, split pin of 16 gauge, shifting chain link within 200 m lead and stretching tools so as to complete the job	225.00	M
147	Providing Services for stretching concertina coil at all height, rate shall be inclusive of man, scaffolding up to 2 m, split pin of 16 gauge, shifting chain link within 200 m lead and stretching tools so as to complete the job	75.00	M
148	Providing & stretching GI chain link fencing of 8 gauge at all height, rate shall be inclusive of man, material, split pin, making hole in angle to receive pin, scaffolding up to 4 meter, including one coat of zinc primer and followed by two coats of synthetic enamel paint	75.00	M2
149	Providing & stretching PVC coated chain link fencing of bare GI chain link of 8 gauge at all height, rate shall be inclusive of man, material, split pin, making hole in angle to receive pin, scaffolding up to 4 meter	75.00	M2
150	Providing & stretching IOWA type GI barbed wire conforming to IS 278: 2009 with 14 SWG x 14 SWG (main wire & barb wire) with spacing of barb at max. 5 inch c/c at required line & level including man, material & transportation	225.00	M
151	Providing & stretching concertina coil PVC coated / GI concertina coil 610 mm having medium barbs of 20 mm width, max 8 circle of coil per meter, guided by 16 SWG guide wire on both sides, including transportation, manpower, cutting - lifting & placing	75.00	M
152	Providing, placing & fixing profile pre-color coated galvalume sheets or equivalent of 0.50mm total coat thickness to match existing shade (bare galvalume thickness 0.47mm), trough type, zinc aluminum alloy coated (zinc aluminum coating not less than 150g/sqm), MS high tensile sheet having minimum yield strength of 550mpa including silicon modified polyester (SMP) coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting & SMP coating of DFT 5 microns over 5 micron primer	125.00	M2

153	Providing, placing and fixing profile pre-color coated galvalume sheets or equivalent of 0.65 mm total coated thickness to match existing shade (bare galvalume thickness 0.6mm), trough type, MS high tensile sheet having minimum yield strength of 550mpa including silicon modified polyester (SMP) coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and SMP coating of DFT 5 microns over 5 micron primer on internal surface of sheeting incl. J bolt / screw for installation	125.00	M2
154	Providing, placing and fixing profile pre-color coated galvalume sheets or equivalent of 0.50mm total coated thickness to match existing shade (bare galvalume thickness 0.47mm), trough type, MS high tensile sheet having minimum yield strength of 550mpa including silicon modified polyester (SMP) coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and SMP coating of DFT 5 microns over 5 micron primer on internal surface of sheeting incl. J bolt / screw for installation	125.00	M2
155	Providing & fixing aluminum flat of 50 x 6 mm on roof sheet, rate shall be inclusive of man, material, GI threaded screw with rubber washer, drilling hole @ 2m c/c	40.00	M
156	Gi sheet providing & fixing 16 gauge corrugated GI sheet on roof & cladding with GI bolts, nuts, washers, sealant on bolt etc. complete as directed.	25.00	M2
157	Providing & fixing 3 mm thick plain FRP sheet with nut bolt, j hook washer, cutting, wastage, disposal of waste material,	25.00	M2
158	Providing & fixing 3 mm thick corrugate FRP sheet with nut bolt, j hook washer, cutting, wastage, disposal of waste material,	25.00	M2
159	Providing all necessary tools tackles & services for fixing GI / galvalume/FRP sheets, rates shall be inclusive of manpower, tools, tackles, scaffolding (up to 4 meter) self tapping polymer coated screw with rubber washer / j bolt with washer & nut, shifting lead up to 200 meter	40.00	M2
160	Supplying only of tarpauline sheet of 200 GSM of any size and shade as directed by engineer in charge. Rate shall include the cost of transportation, loading, shifting and unloading of material at site and handing over the material to person designated by respective division in charge with documentation. this item is exclusive of spreading of tarpaulin sheet.	40.00	M2
161	Providing services for spreading of tarpaulin sheet of 200gsm at any height/sheet/terrace inclusive of making tying arrangement using 12mm polypropylene/nylon rope, rate shall be inclusive of man, material, transportation, ladder, scaffold to complete the job, payment will be made against area covered by tarpaulin, not the area of tarpaulin sheet used. Tarpaulin sheet supplied by tata power.	40.00	M2

162	Providing all tools, tackles and material for erecting monsoon shed for a period of 05(five) months and maintaining the same for the period. Bamboo frame work shall be made for laying 200 GSM tarpaulin sheet shed with vertical supports max. 1.00 m c/c & lateral support at max. 1.00 m c/c. All vertical supports should be of approx. 60 mm to 80 mm dia. The rate shall also include dismantling of the monsoon shed. The rate also includes obtaining necessary permission from MCGM.	125.00	M2
163	Providing and fixing half round 180 mm uPVC gutter with rubber seal SWR grade-prince or equivalent make inclusive of joint brackets/running outlet/elbows/short stop end/stop end outlet/support bracket/pipe clamp or clamp/side or top bracket rate shall be quoted for man, material, transportation, scaffolding (up to 4 m), machine, screw so as to complete the job	25.00	M
164	Providing & fixing wall mounted EWC Hindware make studio series windsor (cat no. 20061) or Parryware make indus walvit series (C0255)	12.50	EA
165	Providing & fixing wall mounted EWC of Jaquar make DRS - WHT - 37591 or ARS - WHT - 39951UFSM along with slim seat cover with soft closer, bracket, finishing the side with near white cement	12.50	EA
166	Providing & fixing floor mounted EWC Hindware make universal series (20012) or Parryware make c0271 / c0272	12.50	EA
167	Providing & fixing Indian WC Orrisa pan popular (Hindware make -- 20043) or orrisa pan c0117 (Parryware make)	12.50	EA
168	Providing & fixing urinal Hindware make cat no. 60011 or Parryware make new magnum c0575	12.50	EA
169	Providing & fixing Urinal Hindware make Corto standard (Cat no. 60022), rate shall be inclusive of man, material, tools, bracket, connection with plumbing & drainage line so as to complete the job	12.50	EA
170	Providing & fixing wall mounted washbasin Hindware make studio series (Cat no. 10096) along with bracket, connections with plumbing & drainage line using applicable flexible hose & pipe	12.50	EA
171	Providing & fixing Hindware make under counter washbasin (cat no. 10065) or Parryware make c0419, along with CP coupling	12.50	EA
172	Providing & fixing Counter top wash basin Jaquar make - JDS - WHT - 25935, rate shall be inclusive of man, material, tools, transportation, fixing plumbing accessories and finishing with white cement so as to complete the job	12.50	EA
173	Providing & fixing Counter top wash basin Hindware make monalisa over counter basin (cat no. 10069), rate shall be inclusive of man, material, tools, transportation, fixing plumbing accessories and finishing with white cement so as to complete the job	12.50	EA
174	Providing & fixing Hindware make sleek elegance dual flush tank	12.50	EA
175	Providing & fixing concealed flush tank Hindware make concealo 80 mm (508179) or Parryware Linea 80 mm C8114	12.50	EA
176	Providing & fixing health facuet of Hindware make flora series cat no. F160023 or Jaquar make allied series ALD 573	15.00	EA

177	Providing & fixing JET SPRAY of 12 mm dia and fixing it on WC seat	15.00	EA
178	Providing & fixing Hindware make white color EWC seat cover as per required size	12.50	EA
179	Providing & fixing Nirali make SS sink elegance popular series	12.50	EA
180	Providing & fixing CP floor trap 100 mm dia with interlocking plate mounted on floor	15.00	EA
181	Providing & fixing PVC nahani trap 4 inch,	15.00	EA
182	Providing & fixing 100 mm dia 3 way PVC nahani trap	15.00	EA
183	Providing & fixing 100 mm dia 4 way PVC nahani trap	15.00	EA
184	Providing & fixing CP concealed bib cock Hindware made F 280002 or Jaquar make FLR 5041 along with its flange cap	15.00	EA
185	Providing & fixing CP concealed stop cock Hindware made F 280004	15.00	EA
186	Providing & fixing Angle cock Jaquar make FLR CHR 5053N	15.00	EA
187	Providing & fixing 2 way bib cock Jaquar make FLR 5041 n or Hindware make F280003	15.00	EA
188	Providing & fixing Hindware make pillar cock f280001 or Jaquar make FLR 5015	15.00	EA
189	Providing & fixing tall pillar cock Jaquar / Hindware make as per approved AOC palette (Jaquar make F460002CP / Hindware make F400005CP)	15.00	EA
190	Providing & fixing CP sink cock Jaquar make FLR 5009b or Hindware make f280026	15.00	EA
191	Providing & fixing flush valve 32 mm flow size Jaquar make FLV 1085 sq with concealed body & cover plate	15.00	EA
192	Providing & fixing flush valve 40 mm flow size Jaquar make FLV 1089 sq with concealed body & cover plate	15.00	EA
193	Providing & fixing Urinal flush valve PRS - CHR - 073 including cover plate	15.00	EA
194	Providing & fixing 31 mm bottle trap of Jaquar make allied series ALD 769 or Hindware make flora series f850015	15.00	EA
195	Providing fixing overhead shower, code: cat. No. Ohs 1709 round shape single flow with air effect abs body & face plate chrome plated rubit cleaning system, single lever shower mixer code: FLR CHR 5123, shower arm: code: sha 479I300 round shape with 90° bend for wall mounted showers with flange	12.50	EA
196	Providing & fixing Jaquar make bath tub spout SPJ 15429, rate shall be inclusive of concealed body, man, material tools, transportation required to carry out the job so as to fir for use"	12.50	EA
197	Providing & fixing single liver concealed diverter body Jaquar make ALD - 055, with exposed part kit FON - 40055K	12.50	EA
198	PROVIDING AND FIXING OF CHROME PLATED SHOWER, DIAMETER: 100 MM of Jaquar- Code-OHS 1709 WITH LONG ARM code SHA-479 L450	15.00	EA

199	Providing & fixing waste coupling Jaquar make 32 mm dia ALD - CHR - 705L130	25.00	EA
200	Providing & fixing flexible pipe 32 mm dia	25.00	EA
201	Providing & fixing PVC hose pipe of 12 mm dia including connecting with plumbing fixtures	25.00	EA
202	Providing & fixing Jaquar exposed foot operated valve PRS-STL-033EF	15.00	EA
203	Providing & fixing Double coat hook Jaquar make AKP-CHR-35761P	15.00	EA
204	Providing & fixing grab bar Jaquar make AHS - CHR - 1507 (600 mm long)	15.00	EA
205	Providing & fixing grab bar Jaquar make AHS - CHR - 1503 (450 mm long)	15.00	EA
206	Providing & fixing grab bar Jaquar make AHS - CHR - 1501 or AKP-CHR-35701 (300 mm long)	15.00	EA
207	Providing & fixing toilet paper roll holder Jaquar make Kubix prime series (AKP 35753PS) or Continental series (ACN - 1153N)	15.00	EA
208	Providing & fixing Soap dispenser Shresmo make SHD - 12618	15.00	EA
209	Providing & fixing Tissue paper dispenser Euronics make EP23 or Opera make	15.00	EA
210	SAFETY Eye Washer SHOWER - 6250 GI Udyogi Safety Shower & eyewash operates independently by pull rod, H& push lever & foot lever Shower: Extra-large drench shower head made of highly visible yellow ABS plastics Pipe: ISI marked GI pipe with powder coating for anti-corrosion Valve: SS stay open ball valve with yellow ABS push plate Bowl: Receptor bowl made of ABS & highly resistant to acid, Alkali & oil among others. Atomiser heads: Twin soft flow atomiser head which has aerators to control	12.50	EA
211	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 12 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
212	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme dia 19mm	15.00	M
213	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 25 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M

214	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 32 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
215	Providing, laying and fixing of pipe, material: unplasticized poly vinyl chloride (UPVC), dia: 40 mm, rate shall be inclusive of cost of manpower, material, tools and tackles, bend, tee, make: astral/prince/supreme	15.00	M
216	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends - 50 mm	15.00	M
217	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends:12 mm	15.00	M
218	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends:19 mm	15.00	M
219	Providing & fixing finolex / astral / prince / supreme make schedule 40 CPVC pipe along with necessary bends, 't', joints with copper threaded ends:25 mm	15.00	M
220	Providing & fixing RST / Hindustan make c class GI pipe of 12 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
221	Providing & fixing RST / Hindustan make c class GI pipe of 19 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
222	Providing & fixing RST / Hindustan make c class GI pipe of 25 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
223	Providing & fixing RST / Hindustan make c class GI pipe of 32 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
224	Providing & fixing RST / Hindustan make c class GI pipe of 38 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
225	Providing & fixing RST / Hindustan make c class GI pipe of 50 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
226	Providing & fixing RST / Hindustan make c class GI pipe of 65 mm, rate shall be inclusive of threading, coupling, tees, bends, clamping, laying at line & level	15.00	M
227	Providing & fixing SWR 75 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M

228	Providing & fixing SWR 90 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
229	Providing & fixing SWR 110 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
230	Providing & fixing SWR 160 mm dia PVC pipe type a with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
231	Providing & fixing SWR 75 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
232	Providing & fixing SWR 90 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
233	Providing & fixing SWR 110 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
234	Providing & fixing SWR 160 mm dia PVC pipe type b with selfit ring at all height (including scaffolding up to 6m), rate shall be inclusive of man, material, tools, u clamp, wastage, cutting, bend & tees wherever required, adhesive solution	15.00	M
235	Providing & laying salt glazed pipe of 100 mm nominal dia laid to line & required slope or level, rate shall be inclusive of man, material, transportation, mortar filling at joints so as to make it leak proof & 2 inch PCC m10 bedding on base	15.00	M
236	Providing & laying salt glazed pipe of 150 mm nominal dia laid to line & required slope or level, rate shall be inclusive of man, material, transportation, mortar filling at joints so as to make it leak proof & 2 inch PCC m10 bedding on base	15.00	M
237	Providing & laying salt glazed pipe of 200 mm nominal dia laid to line & required slope or level, rate shall be inclusive of man, material, transportation, mortar filling at joints so as to make it leak proof & 2 inch PCC m10 bedding on base	15.00	M

238	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed including Providing all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 150 mm dia.	15.00	M
239	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed including Providing all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 200 mm dia.	15.00	M
240	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed including Providing all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 300 mm dia.	15.00	M
241	Providing & laying hume pipe confirming to IS 458 (class np2) in line and level in required slope or as directed including Providing all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), m 10 concrete below joints but excluding excavation for 450 mm dia.	15.00	M
242	Providing Services for laying of HDPE pipe of any dia, rate shall be inclusive of man, shifting of material from local Tata Power stores to the site, cutting, laying and disposing wastage at Tata Power scrap yard, rate will be exclusive of necessary excavation or allied work	15.00	M
243	Providing, cutting and fixing of pipe, material: high density polyethylene, diameter: 140 mm	15.00	M
244	Providing, cutting and fixing of pipe, material: high density polyethylene, diameter: 200 mm	15.00	M
245	Providing and fixing of gate valve, diameter: 12 mm, ISI make or make: ganga	15.00	EA
246	Providing and fixing of gate valve, diameter: 19 mm, ISI make or make: ganga	15.00	EA
247	Providing and fixing of gate valve, diameter: 25 mm, ISI make or make: ganga	15.00	EA
248	Providing and fixing of gate valve, diameter: 39 mm, ISI make or make: ganga	15.00	EA
249	Providing and fixing of gate valve, diameter: 50 mm, ISI make or make: ganga	15.00	EA
250	Providing & fixing water meter of ARAD or equivalent make ISI marked for 3 inch dia pipe	12.50	EA

251	Providing & fixing water meter of ARAD or equivalent make ISI marked for 4 inch dia pipe	5.00	EA
252	Providing & fixing Fixing brass foot valve of 1 inch foot valve along with necessary accessories	25.00	EA
253	Providing & fixing Fixing brass foot valve of 1.5 inch foot valve along with necessary accessories	25.00	EA
254	Providing & fixing Fixing brass foot valve of 2 inch foot valve along with necessary accessories	25.00	EA
255	Providing & fixing Fixing brass foot valve of 2.5 inch foot valve along with necessary accessories	25.00	EA
256	Providing & fixing Fixing brass foot valve of 3 inch foot valve along with necessary accessories	25.00	EA
257	Providing & fixing Jaquar make PRS - CHR - 031 pressmatic tap	25.00	EA
258	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 12 mm, first quality and of ISI approved make	15.00	EA
259	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 19 mm, first quality and of ISI approved make	15.00	EA
260	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 25 mm, first quality and of ISI approved make	15.00	EA
261	Providing and fixing of brass connecting rod with ball cock, material: poly vinyl chloride, diameter: 50 mm, first quality and of ISI approved make	15.00	EA
262	Providing & connecting 500 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
263	Providing & connecting 1000 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
264	Providing & connecting 2000 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
265	Providing & connecting 5000 litre PVC tank Sintex make ACE Antibacterial or equivalent as approved by EIC	12.50	EA
266	Providing Services for misc plumbing works, rate shall be inclusive of manpower of 1 plumber & helper	25.00	EA
267	Providing Necessary material for plumbing work as approved by EIC, Payment will be made against submitted original invoice / challan of material, including 15% vendor's profit	25.00	EA
268	Providing & fixing sensor tap Hindware make F240001CP or equivalent as approved by EIC, rate shall be inclusive of man, material, transportation, removal of existing tap and installation of new tap	25.00	EA
269	Removing and replacing of sensor batteries, plumbing services including all required tools, tackles, materials, and fixtures, including loading, unloading and transportation up to site for laying etc. complete as directed for following items	25.00	EA

270	P/F FRP molded grating of mesh size 38 X 38 mm with rib thickness (7 - 5 mm), height 38 mm, cut to the size and fixed using M-clamp / single clamp / double clamp, rate shall be inclusive of man, material, transportation, cutting to the size, wastage and disposal of debris outside Tata Power	15.00	M2
271	P/F FRP molded grating of mesh size 38 X 38 mm with rib thickness (6 - 5 mm), height 25 mm, cut to the size and fixed using M-clamp / single clamp / double clamp, rate shall be inclusive of man, material, transportation, cutting to the size, wastage and disposal of debris outside Tata Power	15.00	M2
272	P/F FRP molded grating of mesh size 50 X 50 mm with rib thickness (8 - 5 mm), height 12 mm, cut to the size and fixed using M-clamp / single clamp / double clamp, rate shall be inclusive of man, material, transportation, cutting to the size, wastage and disposal of debris outside Tata Power	15.00	M2
273	Supplying and installation of FRP cover grating code CT40-200 with frame of 50x50x5mm angle and 3mm top chequered plate load bearing capacity of 2200kg/m2 (made out of i beams of 50mmx15mmx4.5mm thick at c/c 40 mm with notch bar and key way at c/c 200mm). Material to be used will be as per IS 6746 UV stabilized isophthalic resin. Colour # yellow.	15.00	M2
274	Supplying and installation of FRP cover grating 75 mm thick light weight code ct25-200 (25 mm thick grating) plus frame of 50x50x5mm box pipe, and 3mm top chequered plate load bearing capacity of 400kg/m2 (made out of i beams of 50mmx15mmx4.5mm thick at c/c 40 mm with notch bar and key way at c/c 200mm). Material to be used will be as per IS 6746 UV stabilized isophthalic resin. Colour # yellow.	15.00	M2
275	Prov. & fixing 900 mm dia FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
276	Prov. & fixing 750 mm dia FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
277	Prov. & fixing 600 mm dia FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
278	Prov. & fixing 300 X 300 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
279	Prov. & fixing 450 X 450 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
280	Prov. & fixing 450 X 600 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
281	Prov. & fixing 450 X 900 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
282	Prov. & fixing 600 X 900 mm FRP medium duty manhole cover along with frame suitable for 2.5 ton load	12.50	EA
283	Prov. & fixing 300 X 300 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
284	Prov. & fixing 450 X 450 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA

285	Prov. & fixing 450 X 600 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
286	Prov. & fixing 450 X 900 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
287	Prov. & fixing 600 X 900 mm FRP light duty storm water drain cover along with frame suitable for 2.5 ton load	12.50	EA
288	Supplying & Installation of FRP Fencing to sub station of height 2.4 M, with FRP Vertical pipe 50x50x5mm, & FRP Angle of 50x50x5mm, & FRP Grill of square 38mmx38x10mm, thickness 6 mm. The grill are fitted in the Angle frame, which will be fixed on Vertical pole with Foot pad 150x150x130mm, using Anchor Fastener of 16 mm HILTI Made as per given drawing. incl. gate made with same framing, SS Hinge & aldrop. Material to be used will be as per IS 6746 ISOPHTHALIC POLYESTER Resin.	12.50	M
289	P/I FRP septic tank, rate shall be inclusive of man, material, tools, transport, installation to the line & level and connecting it with sewage system	12.50	L
290	Supplying, fabricating and erecting of approved shade FRP Pultruded handrail square pipe having size 50X50X6.35 mm thick consisting of double FRP rail with top rail & mid rail at 1000 mm & 500 mm respectively & Vertical pipe post of square pipe having size 50X50X6.35 mm thick erected at not more than 1500 mm c/c distance including its own connecting foot pad of size 150 x150 x130 mm fitted with SS 304 M12 -100 LG anchor bolt at bottom with all necessary accessories and 100 X3 mm toe guard	15.00	M
291	Prov. FRP make perforated cable trays of size 450 mm including support	15.00	M
292	Prov. & fixing 3 mm thick FRP Chajja, plain at top side in required color & design, rate shall be inclusive of man, material, transportation, bracket of MS flat 20 * 5 mm @ maximum 1m c/c, fixing at site including scaffolding (up to 12 meter)	12.50	M2
293	Prov. & fixing 3 mm thick FRP chajja, plain at top side in required color & design, rate shall be inclusive of man, material, transportation, bracket of MS flat 20 * 5 mm @ maximum 1m c/c, fixing at site, excluding scaffolding and manlifter	25.00	M2
294	Providing Services & material for 38 mm thick commercial flush board shutter with 1 mm thick laminate of Century / Greenlam / Kitply of required shade, 6 mm thick 2 year seasoned teakwood lipping, making any cutout for glass including fixing of glass with beading, 3 nos. 4 inches railway type hinges, 110 mm CP handle, CP aldrop, door stopper on each shutter, sneak hole with glass, painting of lipping by 2 coats of approved enamel paint.	15.00	M2

295	Providing Material & fixing under counter kitchen cabinet with frame & shutter, rate shall be inclusive of 1 inch thick frame, 18 mm Greenply made plywood shutter with 1 mm century laminate Natural Oak 3397 & white sun mica internal side, 6 mm lipping of all four side, chrome plated handle, magnet lock, SS hinges, two coat paint of synthetic enamel paint of approved shade on frame	15.00	M2
296	Providing , fixing, loading unloading , single Leaf 2 hrs fire resistant door with 44 mm shutter thickness, in fill honey comb core, doors shutter made of GI sheet of 0.9 mm thick and frame made of GI sheet of 1.3 mm thick with single rebate frame of 100 * 75 mm . Powder coated frame & shuter with 50-60 micron, including 6 mm thick fore rated galss panel for clear vision 200 * 300 mm, SS 304 fire rated ball bearing hinges , with panic bar single point, external trim, door closer & installation	12.50	M2
297	Providing, erecting and fixing of aluminum anodized sliding window, 2 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 75 x 25 x 14 mm, shutter must be made of Jindal make class B section of 18 mm and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per IS code or as directed	25.00	M2
298	Providing, erecting and fixing of aluminum anodized sliding window, 3 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of 100 mm x 25 mm x 14 gauge, shutter frame must be Jindal class b section of 18 mm, 14 gauge and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
299	Providing, erecting and fixing of aluminum anodized sliding window, 4 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 125 x 25 x 14 mm, shutter frame must be Jindal b class 18 mm section, 14 gauges and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
300	Providing, erecting and fixing of aluminum powder coated sliding window, 2 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 75 x 25 x 14 mm, shutter must be made of Jindal make class b section of 18 mm and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2

301	Providing, erecting and fixing of aluminum anodized sliding window, 3 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of 100 mm x 25 mm x 14 gauge, shutter frame must be Jindal make class b section of 18 mm, 14 gauge and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
302	Providing, erecting and fixing of aluminum anodized sliding window, 4 track, confirming to standard: IS:1868, main frame shall be made out of hollow extruded section of size: 125 x 25 x 14 mm, shutter frame must be Jindal make b class 18 mm section, 14 gauges and panelled with approved thickness: 5.5 mm or opaque glass, all aluminum section will be finished with anti corrosive rust proof coating of approved quality and shade all as per is code or as directed	25.00	M2
303	Providing & fixing 2 track 16 gauge domal section windows of size of 25 X 75 mm sections, including 6 mm clear float glass of modiguard / saint gobain or equivalent	25.00	M2
304	Providing & fixing 3 track 16 gauge domal section windows of size of 25 X 75 mm sections, including 6 mm clear float glass of modiguard / saint gobain or equivalent	25.00	M2
305	Providing & fixing factory made white UN-Plasticized poly Vinyl chloride (UPVC) windows(FENESTA or Equivalent as approved by site in charge) at all levels made out of extruded three chambered profile frame with hermetically sealed double glazed glass customized in 56mm wide system ,all fittings and fixing at site and sealing the gaps etc. as per the designed and as directed by site in charge.	25.00	M2
306	Providing & fixing Al powder coated fixed window using 63 X 38 X 14 gauge powder coated Al section with powder coating min. 50 micron on exposed surface, including glazing clippings, annealed glass of 5 mm thickness and PVC clear beading	15.00	M2
307	Providing & fixing Al anodized window using 63 X 38 X 14 gauge powder coated Al section with buffing of all sections, including glazing clippings, annealed glass of 5 mm thickness and PVC clear beading	15.00	M2
308	Providing & fixing AL louver on 16 gauge 40 X 15 mm rectangle section of Jindal make anodized and buffed as per required shade, with Z section for installation of 100 mm wide blur / frosted annealed glass	15.00	M2
309	Providing & fixing AL louver on 16 gauge 40 X 15 mm rectangle section of Jindal , with Z section for installation of 100 mm wide blur / frosted annealed glass	15.00	M2
310	Providing & fixing Al anodized partition made of 63 X 38 mm 14 gauge Jindal make sections, with buffing of all surfaces and installaion of 9 mm thick backelite sheet & 5 mm thick annealed (plain) glass wit clips, installed to line & level and as per required dimension	15.00	M2

311	Providing & fixing Al powder coated partition made of 63 X 38 mm 14 gauge Jindal make sections, with min 50 micron powder coating at exposed surfaces and installaion of 9 mm thick backelite sheet & 5 mm thick annealed (plain) glass wit clips, installed to line & level and as per required dimension	15.00	M2
312	Providing & fixing partly glazed partly panelled Al anodizing door made of 14 gauge X Jindal make section with buffing of section, (1) Handle section - 85 X 45; (2) Hinge side section 48 X 45; (3) middle section 85 X 45; (4) Top - 85 X 45; (5) Bottom 115 X 45, including lock, both side handles and hinges, tie rod at the top and bottom sections with 9 mm thick particle board at bottom and 5 mm clear annealed glass at top	15.00	M2
313	Providing & fixing partly glazed partly panelled Al powder coated door made of 14 gauge X Jindal make section with buffing of section, (1) Handle section - 85 X 45; (2) Hinge side section 48 X 45; (3) middle section 85 X 45; (4) Top - 85 X 45; (5) Bottom 115 X 45, including lock, both side handles and hinges, tie rod at the top and bottom sections with 9 mm thick particle board at bottom and 5 mm clear annealed glass at top, minimum 50 micron powder coating	15.00	M2
314	Providing & fixing backelite door made of 16 gauge X 25 X 65 mm Al powder coated frame with 3 mm thick backelite sheet along with 4 inch tower bolt, 3 nos. hinges, installation	15.00	M2
315	Providing & fixing Al Grill - mesh opening 50 mm X 50 mm in 5 mm thickness with framing of 16 gauge 40 X 15 aluminium pipe, Rate shall be inclusive of man, material, transportation, installation & wastage	15.00	M2
316	Providing & fixing Al Grill - mesh opening 75 mm X 75 mm in 5 mm thickness with framing of 16 gauge 40 X 15 aluminium pipe, Rate shall be inclusive of man, material, transportation, installation & wastage	15.00	M2
317	Providing & fixing HYPER / GODREJ (9420) / ENOX / DORMA (TS 71) MAKE DOOR CLOSER	15.00	EA
318	Providing & fixing concealed door closer Godrej / Dorma / Enox make as per approved AOC palatte	15.00	EA
319	Providing & fixing Floor spring including making cut out in floor and fixing of spring, rate shall be inclusive of man, material, installation so as to complete the job. (Product - Dorma make BTS 75V / Godrej make 9424)	15.00	EA
320	Providing & replacing beading of sliding windows with PVC beading, rate shall be inclusive of man, material, opening of window shutter and replacing beading, refixing	15.00	M
321	Providing & replacing SS 430 / SS 201 friction stay hinge of openable window of 10 inch for max width 1200 mm, , rate shall be inclusive of manpower, material, removal of window, replacement of hinge and reinstallation of window	15.00	EA
322	Providing & fixing 6 inch CP tower bolt	15.00	EA
323	Providing & fixing 8 inch CP tower bolt	15.00	EA
324	Providing & fixing 12 inch CP aldrop	15.00	EA

325	Providing & replacing ss mosquito mesh of existing sliding windows shutters at all heights including removing damaged mesh, providing new ss mosquito mesh 24 gauge 16 mesh and fixing it in window as earlier of matching shape and design with nails / screw complete with finishing as directed by TPC engineer.	15.00	M2
326	Providing & fixing cylindrical lock Godrej / Enox / Hafele / equivalent make as per AOC palette	15.00	EA
327	Providing and fixing brass mortise latch & lock 100mm X 65mm with 6 levers & a pair of brass lever handle(for main door).	15.00	EA
328	Providing & fixing 12 mm thick toughened glass door cut to the required size with Godrej make Patch fittings for top, bottom pivot and side patches, rate shall be inclusive of man, material, transportation and installation at site	12.50	M2
329	Providing & fixing toughen glass door lock (Godrej make - prod code 7780)	12.50	EA
330	Providing & fixing Bottom lock in glass door Godrej make Bottom lock patch 7759 or Godrej make Side lock patch 7764.	12.50	EA
331	Providing & fixing chrome plated door stopper	15.00	EA
332	Providing & fixing 100 mm long door buffer made of PVC	15.00	EA
333	Providing & applying Garvare make sun control film of required shade, Garware make high heat rejection film HHR 25	40.00	M2
334	Providing & fixing Garware make White Board film of PTE film thickness 150 micron	15.00	M2
335	Providing & fixing Modular cubical in 12mm compact laminate of approved color and texture with ss hardware comprising of door shutter, wall fixing rose, head, rail, wall bracket, tubular holder, corner connector, coat hook cum door stopper, lock cum occupancy indicator, hinge, door knob, adjustable foot and all other necessary accessories required to complete the job in all respect. Make - matrix, Greenlam sturdo or equivalent	15.00	EA
336	Providing & fixing urinal partition: providing and fixing of urinal composite partition of approved colour and make including all tools and tackles fixing at site in line and level etc complete as directed.	25.00	EA
337	Providing & fixing mirror of size 600 X 450 along with bracket / studs	12.50	EA
338	Providing & fixing Mirror of 550 mm dia along with brakcet / studs	12.50	EA
339	Providing & fixing 12 mm thick toughen glass of Saint gobain / modiguard or equivalent, rate shall be inclusive of installation of 14 gauge Aluminium channel at top & botton or / making groove in floor & masonry, finishing joint of glass with silicon sealant	15.00	M2
340	Providing & fixing 8 mm thick toughen glass of Saint gobain / modiguard or equivalent, rate shall be inclusive of installation of 14 gague Aluminium channel at top & botton or / making groove in floor & masonry, finishing joint of glass with silicon sealant	15.00	M2
341	Providing & fixing of Godrej make H tyep HANDLE, TYPE: SS H, INCLUDING ALL TOOLS & TACKLES (length - 450 mm)	15.00	EA

342	Providing & fixing of Godrej make H type HANDLE, TYPE: SS H, INCLUDING ALL TOOLS & TACKLES (lentgh 600 mm)	15.00	EA
343	Providing & fixing of Godrej make NEH 03 handles	15.00	EA
344	Providing & applying silicone sealant of Dow / Dr. Fixit silicon sealant suitable for Aluminium to granite / marble stone	15.00	M
345	Poviding & applying silicone sealant of Dow / Dr. Fixit silicon sealant suitable for Aluminium to cement plaster surface	15.00	M
346	Providing & applying clear silicone sealant of Dow / Dr. Fixit silicon sealant suitable for glass	15.00	M
347	Providing & fixing monolithic gypsum board false ceiling conforming to IS 2095, at all heights including providing and fixing of framework as spelled out in approved manufacturer catalogue. Bidder to provide adequate steel sections & hanger supports, including making openings for ac grills, smoke detectors, electrical fixtures etc. The cutouts shall be provided with perimeter channel of adequate size of 0.5 mm thick. Vertical / inclined face shall be measured above 200 mm high only.	75.00	M2
348	providing & fixing tegular grid ceiling system, at all heights including providing and fixing of framework in silhouette system sections as spelled out in Armstrong or equivalent manufacturer catalogue. Ceiling tiles shall be of size 600 mm x 600 mm of approved color. Incl. adequate steel sections (channel, main runner, cross runner in silhouette section) and hanger / GI wire supports to cater to the false ceiling loads. Approved make: Armstrong or equivalent	75.00	M2
349	Providing all materials and fixing monolithic gypsum board false ceiling conforming to IS 2095, at all heights including providing & fixing of framework as spelled out in Saint Gobain or equivalent. Incl. adequate steel sections (channels, L or T sections) and hanger supports to cater to the ceiling loads. Incl. making openings for AC grills, smoke detectors, electrical fixtures etc. The cutouts shall be provided with perimeter channel of adequate size of 0.5 mm thick. (For width below 200 mm)	150.00	M
350	Providing all materials and fixing monolithic gypsum board conforming to IS 2095, at all heights on existing supports. Vertical / inclined face shall be measured above 200 mm high only. For payment purpose false ceiling shall be measured in plan only.	75.00	M2
351	Providing all materials and fixing 3 mm thick backelite sheet, at all heights on existing supports. For payment purpose false ceiling shall be measured in plan only.	75.00	M2
352	Providing & fixing PVC ceiling planks 7 to 10 mm thick, including providing and fixing of framework as spelled out in manufacturer catalogue. Quote shall include sealing off the ends, capping, all support systems, edges framing etc.	75.00	M2

353	Providing & fixing of open cell cellio metal false ceiling system at all heights including providing and fixing of framework as spelled out in Armstrong or equivalent, size 600 mm x 600 mm. including providing adequate steel sections (channels, i or t sections) and hanger supports to cater to the false ceiling loads. Owner would check the design and adequacy and has the right to reject if found inadequate. Job to be complete in all respect.	25.00	M2
354	Prov & fixing of Infratop false ceiling with hidden/visible perforations, of panel sizes of 340mmx 2700mm, resistant to moisture, borer-fungus-termites attack. Panels to be installed with GI / Aluminum sections of suitable gauge & size according to site conditions. Panels SV 08/07 &09 with suitable trims SV 15 with dimensions 40x19x22x12x3050 mm for edge profiles & SV 18 with dimensions 67x3050 mm with T head of 42mm for connecting profiles. 10 years warranty for colour & finish of the panels	40.00	M2
355	Providing Services for fixing of available false ceiling panel by laying new mesh of silhouette section supports, rate shall be inclusive of man, material, tools & tackles, transportation	40.00	M2
356	Providing and fixing anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head-for 300 mm height	40.00	M2
357	Providing and fixing anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head-for 450 mm height	40.00	M2
358	Providing and fixing anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head-for 600 mm height	40.00	M2
359	Providing Services for installation of existing false flooring panels, rate shall be inclusive of manpower, flooring support of 450 mm, laying & fixing supports to the line and level, cutting of flooring panels as per site requirement and installation	40.00	M2
360	Supplying and fixing aluminum composite panel of approved make and colour for exterior application. The 4 mm thick panels of 3mm thick thermoplastic core of mid low density polyethylene sandwiched between two skins of minimum 0.5mm thickness aluminum sheets, protected with self-adhesive peel off masking foil with PVDF base coating on top side and rear side would be in mill finish. As per the specification duly fabricated on imported holzer machines and fixed to extruded aluminum sections	40.00	M2

361	Providing & fixing Aludecor make firewall a2 ACP sheets or equivalent as approved by EIC, rate shall be inclusive of man, material, transportation, al support structure using 25 x 25 mm square pipe, cutting of sheet, wastage and disposing of debris outside tata power premises	40.00	M2
362	Providing & fixing ACP sheet of approved make & colour for exterior application. The 4 mm thick panels of 3 mm thick thermoplastic core of mid low density polyethylene sandwiched between two skins of minimum 0.5mm thickness aluminum sheets, protected with PVDF base coating on top side & rear side would be in mill finish. fixed to existing support framing	75.00	M2
363	Providing Services for removal of vertical / roller blinds and disposal it scrap yard or designated place as instructed by EIC	75.00	M2
364	Providing Services for fixing of existing available roller blind / vertical blinds, rate shall be inclusive of manpower, necessary screws or minor fixtures to complete the job	25.00	M2
365	Providing and fixing of vertical blind for window. Providing Aluminum channel with 100mm fabric size with operating unit .etc providing all equipment, material, tools, tackles etc for fixing blinds of approved make and shade etc complete as directed by site in charge	25.00	M2
366	Providing services for repairing chain / holder etc for vertical blind.	25.00	M2
367	Providing and fixing of roller blind for window, providing, translucent fabric, with Aluminum frame and control unit along with the material, tools, tackles etc for fixing blinds for windows of approved make and shade by tata power etc complete as directed (product - platina make 01a bamboo or 01a alfa)	25.00	M2
368	Providing carpentry services for one shift, rate shall be inclusive of one carpenter & one helper	25.00	EA
369	Providing Material for minor carpentry works, payment will be made against submitted bills and challans of material, incl. 15% profit for vendor	25.00	EA
370	Providing & replacing handle of chair for Godrej make leoma	12.50	EA
371	Providing & replacing handle of chair for stellar make Rev CH 16	12.50	EA
372	Providing & replacing wheel of chair of Godrej / stellar make chairs	12.50	EA
373	Providing & replacing hydraulic cylinder of chair (for Godrej make leoma) along with handle	12.50	EA
374	Providing & replacing hydraulic cylinder of chair (for stellar make Rev CH 16) along with handle	12.50	EA
375	Providing & replacing laminate of wooden door or shelf, rate shall be inclusive of removal of existing laminate by heating, grinding the surface to the smoothest possible, applying adhesive and pressing 1 mm thick laminate of approved shade and make over cleaned surface, rate shall be inclusive of man, material, transportation, wastage and disposal of debris, removing & refixing of door	12.50	M2

376	Removing and refixing of wooden door (size height: 80-inches (6-feet, 8-inches) thickness: 1 ¾-inches. Width: 36-inches, providing all tools tackles material for removing and refixing the wooden door completed as directed	12.50	M2
377	Marking and painting of strip, width: 100 mm, providing all required material road marking synthetic enamel, brushes, solvent, tools and tackles, skilled painter for cleaning and preparing the surface by scrapping sand papering to remove loose scale, making the surface plain and marking the strip, painting two coats in perfect strip and painting two coats in perfect alignment marking	40.00	M
378	Marking and painting of strip, width: 75 mm, providing all required material road marking synthetic enamel, brushes, solvent, tools and tackles, skilled painter for cleaning and preparing the surface by scrapping sand papering to remove loose scale, making the surface plain and marking the strip, painting two coats in perfect strip and painting two coats in perfect alignment marking	40.00	M
379	Marking and painting of strip, width: 50 mm, providing all required material road marking synthetic enamel, brushes, solvent, tools and tackles, skilled painter for cleaning and preparing the surface by scrapping sand papering to remove loose scale, making the surface plain and marking the strip, painting two coats in perfect strip and painting two coats in perfect alignment marking	40.00	M
380	Providing & carrying out Whitewash by cleaning the surface by using brush, making it free from any loose or foreign material, dirt, oil, grease etc., preparing white wash water with mixing 1kg class D lime with 6 litres of water, leaving it for 2 days for uniform thin cream, mixing glue 100 gm per 6l of whitewash water, then applying it in two coats to achieve uniformity in white wash.	25.00	M2
381	Providing & applying two coats of lime and Geeru to combine height of 1.20 m to the trunks of trees of girth upto 3 feet with correct line and level and width as required. Rate will be inclusive of cleaning tree trunk, making it dust free for application of Geeru and lime.	25.00	EA
382	Providing & applying two coats of lime and Geeru to combine height of 1.20 m to the trunks of trees with correct line and level and width as required. Rate will be inclusive of cleaning tree trunk, making it dust free for application of Geeru and lime. But for girth 3 feet to 6 feet.	25.00	EA
383	Providing & applying two coats of lime and Geeru to combine height of 1.20 m to the trunks of trees of girth upto 3 feet with correct line and level and width as required. Rate will be inclusive of cleaning tree trunk, making it dust free for application of Geeru and lime. But for girth above 6 feet.	25.00	EA
384	Providing and applying two coats of synthetic enamel paint of approved make over one coat of primer on structural steel including scaffolding at all height, providing all material for process	25.00	M2

385	Providing and applying emulsion primer along with anti fungus treatment as per requirement including filling up the crevices, cracks & holes with approved quality of painter's putty and making the surfaces smooth and finishing with two coats of approved quality paint at all heights with acrylic emulsion paint (internal quality) of first quality and of approved manufacturers and approved shades.	125.00	M2
386	Prov. & applying duco paint as per following process:- 1) Filling dents and unevenness using wood filler putty and sanding it 180 no. sand paper 2) Applying 1st coat of primer with thinner (1 thinner : 1.5 primer) 3) sanding the surface again and fill the dents using wood filler putty 4) Apply one coat of primer on repaired surface and sand the surface with 220 & 320 no. sand paper 5) Apply 2 coat of duco paint (Duco NC lacquer 1 part: Duco thinner 2 part).	40.00	M2
387	Supplying providing and applying to wall with water base acrylic emulsion paint of approved manufacture and of approved colour and shade including scaffolding etc complete as directed by EIC and application as per manufacturer's recommendation, including scaffolding ,cleaning surface etc. Acrylic emulsion paint 1 coat	125.00	M2
388	Providing and applying emulsion primer along with anti fungus treatment as per requirement including opening up of crevices, cracks & holes and making v grooves, and filling up with approved quality of crack filler and making the surfaces smooth and finishing with two coats of approved quality paint at all heights with acrylic emulsion paint (external quality) of first quality and of approved manufacturers and approved shades.	75.00	M2
389	Providing all necessary tools ,tackles ,preparing the surface by scraping, chipping to remove loose rust, paint, detrimental foreign matter etc. Providing and applying one coat of high build zinc phosphate primer 35 microns DFT. Applying two finish coats of leafy aluminum paint (IS 2339) of 30 microns DFT of each coat complete as directed by EIC at all heights. total thickness of DFT shall not be less than 95 microns	40.00	M2
390	P/A Birla white putty, Mix Birla white wall care putty with clean water slowly to make paste. Continue the mixing for 10-15 minutes till a uniform paste is formed. Apply the first coat on already moistened wall surface. After drying of first coat of putty just rub the surface gently with west sponge or rub the surface very gently with the putty blade in order to remove the loose particles. Allow the surface to dry for at least 3 hours and then apply second coat.	40.00	M2

391	Providing and applying of 4 to 8 mm thick lime pop punning over all types of plastered surfaces of walls ceiling beams columns etc. To bring surface in plumb line and level, including making surface smooth, providing required grooves on top of skirting etc. The cost shall include all labour, materials, scaffolding, protecting adjoining surface, cleaning etc complete.	40.00	M2
392	Providing and applying one coat of surface tolerant epoxy primer at 50 microns DFT followed by two finishing coats of high-build coal tar epoxy in recommended DFTs (100 microns DFT per coat) for chequered plates / gratings. Total thickness of DFT shall not be less than 250 microns. Item includes preparing the surface by scraping, sand papering, cleaning, solvent cleaning wherever required to remove oil/grease & painting with two coats of high-build coal tar epoxy in recommended DFT.	40.00	M2
393	Preparing the surfaces of wood by removing the existing stains, dirt, etc. By sand papering, filling cracks, depressions etc. with approved quality of putty or wax wherever required and as recommended by TPCL engineer and applying coats of French polish.	40.00	M2
394	P/A melamyne Polish (Make asian paint or equivalent approved by Tata Power) on wooden surface including all tools ,tackles ,plant, equipment (i) Scrubbing with sand paper (ii) Applying lac polish/spirit and lak dana solution (iii) filling small holes/cracks/scratches making surface even with putty/whiting mix with desired raw/burnt/burnt turkey amber sienna and lac polish (iv) Apply sand paper again on applied putty/whiting for finishing surface (v) Apply 2 coats of polish with buffing	40.00	M2
395	Providing all necessary tools tackles services etc. For removing & providing high quality PU polish on door as directed by site engineer. Shade and color of the polish shall be same as previous shade & color.	40.00	M2
396	Prov. & applying luminous paint of required shade, rate shall be inclusive of scrapping of surface to make it free from dirt, oil and algae, applying one coat of water based primer and two coats of luminous paint	40.00	M2
397	Providing Services for removal of grass / shrubs (of size up to 3 feet height) by uprooting them or cutting them from base, rate shall be inclusive of man, tools, disposal of wild growth outside tata power premises	200.00	M2
398	Providing & spraying weedicide at switchyards in power house, rate shall be inclusive of material, spraying tools, manpower so as to complete the job. Vendor should submit MSDS of weedicide prior to use on site.	200.00	M2
399	Providing Services for moss removal by spraying bleaching powder over the area, leaving it for 30 minutes and spray water over it	200.00	M2

400	Providing services for manual shifting of materials from one designated location to another location within the Tata Power Premises. The scope includes lifting, carrying, placing, and repositioning of materials as instructed by the Site engineer. The service shall be executed safely, efficiently, and without damage to materials, property, or surroundings, using appropriate resources, tools, and handling methods. All activities shall comply with applicable safety standards and site regulations laid down by Tata Power.	300.00	M2
401	Supplying natural red soil at site as directed by EIC	15.00	M3
402	Providing & supplying good cow dung manure, loading & unloading at site etc.	25.00	M3
403	Providing Services for completing / attempting choke up clearance in any sewage line by using traditional method of using 8 mm / 10 mm reinforcement bar, pouring in water with pressure as much as possible as instructed by EIC	40.00	M
404	Providing Services of municipal corporation suction tank & its operating team	10.00	EA
405	Providing Services for cleaning of sewage chamber of all sizes by removing its muck and disposing it away from residential area outside tata power premises	25.00	EA
406	Providing Services for removal of gravel & boulders filled in transformer foundation or in switch yard ground and shifting within 100 meter lead inside tata power premises	25.00	M3
407	Providing Services & material for laying gravels (50 - 60 mm) in transformer foundation with gravels & boulders (200 - 250 mm) available at site as instructed by EIC	25.00	M3
408	Prov services & material gravel in switch yard of size 50 - 60 mm in layer maximum upto 300 mm depth, rate shall be inclusive of shifting material within 200 meter lead, levelling of surface	25.00	M3
409	Providing & laying river / sea sand bags (min weight 20 kg per bag), shifting & laying cable trenches	25.00	EA
410	Providing Services for river / sea sand filling in trenches and levelling, rate shall be inclusive of man, material, shifting of sand upto 100 m lead.	25.00	M3
411	Providing Services of removal of sand bags and shifting it to designated place as instructed by EIC	25.00	EA
412	Providing Services for laying of existing sand bags, rate shall be inclusive of shifting of sand bags upto lead of 100 m	25.00	EA
413	Providing all tools, material & manpower for constructing of new earth pit incl Providing and laying of fine sand in layer in earthing pit, salt, coal, bentonite in earthing pit in layers & 8mm thickness MS plate above it. Rate shall include the cost of loading, transporting and unloading, shifting of material at the designated place & number painting on earth pit plate with synthetic enamel paint as directed by EIC. Size of earth pit as follows 600mm x 600mm	25.00	EA

414	Providing all tools, material & manpower for constructing of new earth pit incl Providing and laying of fine sand in layer in earthing pit, salt, coal, bentonite in earthing pit in layers & 8mm thickness MS plate above it. Rate shall include the cost of loading, transporting and unloading, shifting of material at the designated place & number painting on earth pit plate with synthetic enamel paint as directed by EIC. Size of earth pit as follows 900mm x 900mm	25.00	EA
415	Providing all tools, material & manpower for constructing of new earth pit incl Providing and laying of fine sand in layer in earthing pit, salt, coal, bentonite in earthing pit in layers & 8mm thickness MS plate above it. Rate shall include the cost of loading, transporting and unloading, shifting of material at the designated place & number painting on earth pit plate with synthetic enamel paint as directed by EIC. Size of earth pit as follows 1200 mm x 1200mm	25.00	EA
416	Supplying 3 m long marconite rod by casting marconite compound around 20 mm dia copper rod, rate shall be inclusive of man, material, tools, transportation and installation at site, rod must be free from visible cracks	25.00	EA
417	Refurbishment of existing earth pit rate shall be including removing of existing earthing rod of any size, sand, coal, bentonite, existing earthing pit cover of mild steel /aluminum chequered plate of any size and thickness. making of new earth pit by prov. & laying of fine sand , salt ,coal ,bentonite in earthing pit in layers & 8 mm thick MS plate above it. incl transport, shifting of material & number painting on earth pit plate with synthetic enamel paint. for 600 mm x 600mm	25.00	EA
418	Refurbishment of existing earth pit rate shall be including removing of existing earthing rod of any size, sand, coal, bentonite, existing earthing pit cover of mild steel /aluminum chequered plate of any size and thickness. making of new earth pit by prov. & laying of fine sand , salt ,coal ,bentonite in earthing pit in layers & 8 mm thick MS plate above it. incl transport, shifting of material & number painting on earth pit plate with synthetic enamel paint. for 900 mm x 900mm	25.00	EA
419	Refurbishment of existing earth pit rate shall be including removing of existing earthing rod of any size, sand, coal, bentonite, existing earthing pit cover of mild steel /aluminum chequered plate of any size and thickness. making of new earth pit by prov. & laying of fine sand , salt ,coal ,bentonite in earthing pit in layers & 8 mm thick MS plate above it. incl transport, shifting of material & number painting on earth pit plate with synthetic enamel paint. for 1200 mm x 1200mm	25.00	EA
420	Providing all material, tools and tackles, service for brazing of 0.2 copper conductor	25.00	NO
421	laying copper conductor,0.2mm, providing all tools & tackles for laying conductor in line as directed by EIC	25.00	M

422	Providing & applying Acrylic waterproofing coat over RCC roof including removing of existing waterproofing treatment, removing damaged or loose portion of roof substrate, preparing surface free of dirt, oil etc., filling unlevelled surfaces with polymer modified mortar prepared by Dr. Fixit URP & filling surface cracks with Dr.Fixit Crack X, grouting of roof with non shrinkable polymeric grout, then applying primer coat of Dr. Fixit primeseal two coats of Dr. Fixit New coat with fibreglass mat	40.00	M2
423	Providing and laying brickbat coba in sunken portion of WCs, bathrooms, etc., consisting of one part of cement, 2 parts of broken brickbats varying from 12 mm to 25 mm thick and one part of lime mortar to two parts of sand as specified including preparing the surface by applying and grouting a slurry coat of neat cement using 2.75 kg/m2 of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface	40.00	M2
424	Providing and applying of Shalitex primer (solvent base) followed by 3mm superthermolay laying by hot torch application followed by providing and applying of shalitex primer (solvent base) followed by 3mm superthermolay laying by hot torch application. Top surface : providing and applying silver shield (bituminous aluminum coating) (With 5 year guarantee).	40.00	M2
425	Providing and laying intenal cement based water proofing treatment with China Mosaic finish including preparation of surface as required for treatment of roofs, balconies, terraces, RC gutters, etc. as per approved mehtodology	50.00	M2
426	Preparation & curing clean the surface & provide geotextile (minimum 300gsm). Provide PVC membrane (made of virgin PVC)alkor bright (minimum 1.5mm thick) over the surface &start placing from lowest point. Unroll the membrane half way align & fix themembrane 1st layer with the help of anchors & aluminium washers & adjacentlayer with hot air welding & applying unifrom pressure by roller/wet cloth toremove entrap air. Membranes to be fixed with aluminium strips at the end aboveparapet wall.	40.00	M2
427	Providing, fixing & removing plywood (12mm to 20 mm thickness) covers of existing machine units/pump etc. (actual area of openings covered by plywood be measured.)	40.00	M2
428	Providing services for chipping of loose concrete from beams, columns, slabs & all other concrete surfaces to expose sound concrete beneath using light chisel & hammer & also preparing concrete surface to receive further treatment, disposing the debris as directed	40.00	M2

429	Providing services for cleaning reinforcement of total rust by tapping or using wire brush or any other suitable way including from behind and around the reinforcement bars to give it a totally rust free finished steel surface. Measurement shall be on basis of repair surface area. Providing and applying approved chemical rust remover with paint brush and removing loose particles after 24 hours of its application. Measurement shall be on basis of repaired surface area	30.00	M2
430	Providing & applying corrosion inhibitor, the exposed reinforcing bars shall be cleaned thoroughly to remove corrosion scales using buffing wheel and emery cloth. The exposed surface shall be washed with water jet followed by applying two coats of anticorrosive chemical of approved brand on cleaned rebars as per manufacturers specification and directions of engineer-in-charge. (surface area of concrete treated will be measured for payment)	30.00	M2
431	Corrosion Treatment :- Removing existing corrosion by means of mechanical wire brush on exposed surfaces of reinforcement, providing and applying Alkaline based Rust Converter RUST GUARD in single coat over the exposed rusted reinforcement as per the manufacturer specifications and instructions. Providing and Applying two coats of Zinc rich Primer on re-inforcement , STEEL GUARD at all heights etc complete.	30.00	M2
432	Treatment For Separation Cracks :- Opening up the junction of brick work and beam / column, sealing the junction by metal packing/filling by polymer mortar, then overlaying the joints / crack by approved fibre sheet (strip) approx 200mm wide, applying bond coat of approved polymeric slurry before and after the fibre sheet is fixed over the joint (junction / crack) etc complete.	30.00	M
433	Providing material & treating cracks by filling , Cleaning the crack surface with the help of clean water, drying the surface in natural sun, providing & applying the bonding coat, providing & fixing fiber cloth 25mm to 50 mm width, filling the same with polymer putty, providing & applying 2 coats of acrylic polymer to that width of the surface cure natural for 24 hrs. etc. complete.	30.00	M
434	Carefully opening the cracks in plaster, cleaning the cracks with electrical air blower/water & filling the cracks with polymer modified cementitious mortar in proportion 1:5:15 (i.e. Polymer: cement: well graded quartz sand by wt.) including polymer bonding coat & seal coat, curing etc. complete. (Note: Width of cracks upto 6 mm and depth upto 20mm.)	30.00	M
435	Cleaning & filling the joints/gaps between the window with the help of PU Sealant of approved make etc complete in all respect from the both sides.	30.00	M

436	Providing and applying bond coat on the prepared surface to receive new polymer mortar/polymer modified concrete, with two components epoxy based bonding coat concrete 1414 of BASF/Nitobond ep of FISROC/ Fitbond EA of Conmix or equivalent material in one full coat. Laying of reinstatement polymer mortar or micro concrete shall be completed within the overlay time of bonding coat. Item rate inclusive of all man, material, transportation, tool etc.	30.00	M2
437	Providing and applying of polymer modified mortar single component, alkaline resistant fibre reinforced, dual shrinkage-compensated, thixotropic, cementitious patch repair mortar as suitable material and finishing with trowel carefully compacting the same around the rebar's and finishing to bring it in line with existing concrete surface on the columns, beams & slabs etc., 25 mm thick polymer / latex modified mortar plaster	30.00	M2
438	Providing and laying of micro concrete, approved brand in proportion 1:1 with metal no.1 including mixing, waterproof shuttering, pouring, consolidating, scaffolding, curing as per MFG specifications, transportation at site, identification of leakage source, including dewatering of pits whenever required till completion of job etc complete as directed. (Measurement will be taken on consumption of micro concrete only, metal/aggregate will not be measured separately.)	30.00	KG
439	<p>Providing and applying Prodecoat 0770 as per following methodology</p> <ol style="list-style-type: none"> 1. Cleaning entire surface with high pressure water jet pump 2. Allow surface to dry 3. Open visible cracks in 5 mm * 5 mm width & depth. 4. Apply one coat of POLYSEAL-0724 in the opened cracks uniformly. 5. Allow it to dry for 4 Hours. 6. Fill the cracks with polymer sealant AQUASEAL 7. Apply first coat of PRODECOAT- 0770 uniformly with brush or roller 8. Allow it dry for 60 minutes 9. Apply second coat of PRODECOAT-0770 	30.00	M2
440	Providing & applying one coat of primer and two coats of elastomeric paint having an sel elongation upto 200 % applied to the surface at interval of not less than 6 hours to the approved shade and colour etc. complete. RAINGUARD .(,Providing & applying two coats of Elastomeric coating having 200-300% elongation over a coat of primer over properly prepared plaster surface including scrapping all loose material on existing plastered surface etc complete as directed.)	30.00	M2

441	Providing & applying Expanded Foam (FST-Foam Duct Sealant 250) including Cartridge Set with Mixing Nozzle for any cable entry points gap filling work as directed by TATA power Engineer. The rate shall includes the cost of materials & associated equipments required for the job.	30.00	EA
442	Hiring of JCB with fuel, operator and carrying out work as directed for 8 hours shift	10.00	SFT
443	Providing service of 90 ton crane meeting all the requirement of tata power safety norm, rate should be quoted for 8 hr shift	5.00	SFT
444	Prov. Services of compressor / tractor breaker for breaking of PCC / RCC / rock, rate shall be inclusive of manpower, transportation, fuel charges, mobilization charges, operator charges. Rate will be for 8 working hours shift	10.00	SFT
445	Prov. Services of JCB breaker for breaking of PCC / RCC / rock, rate shall be inclusive of manpower, transportation, fuel charges, mobilization charges, operator charges. Rate will be for 8 working hours shift	10.00	SFT
446	Providing service for hiring of Ferrana meeting all the requirement of Tata power safety norm, rate should be quoted for 8 hrs shift	15.00	SFT
447	Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 10 kms)	15.00	SFT
448	Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 20 kms)	15.00	SFT
449	Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 30 kms)	15.00	SFT
450	Prov. Services for material shifting of any type of material in Tata magic or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance 30 to 50 kms)	15.00	SFT
451	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 10 kms)	15.00	SFT
452	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 20 kms)	15.00	SFT
453	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance up to 30 kms)	15.00	SFT
454	Prov. Services for material shifting of any type of material in Tata 407 or equivalent vehicle as approved by EIC, rate shall be quoted for one side travelling with max 4 workmen (for distance 30 to 50 kms)	15.00	SFT
455	Prov. Services of concrete pump for grade up to M30 and distance up to 20 meter / height up to 10 meter	12.50	SFT

456	Prov. Services of manlifter up to 60 feet height for 8 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
457	Prov. Services of manlifter up to 60 feet height for 4 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
458	Prov. Services of manlifter up to 80 feet height for 8 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	10.00	SFT
459	Prov. Services of manlifter up to 80 feet height for 4 hours shift for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
460	Prov. Services of manlifter up to 100 feet height for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
461	Prov. Services of manlifter up to 120 feet height for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
462	Prov. Services of manlifter up to 150 feet height for work with all necessary documents as per Tata power safety norms with one supervisor	12.50	SFT
463	Prov. 2 HP submersible pump for dewatering of pits or other excavated space including diesel, transportation and operator service	12.50	SFT
464	Providing and fixing of tubular H-frame scaffolding/ pipe coupling / modular cup lock scaffolding, material: steel, Tata power standards upto 5 m height including covering it externally with nylon net and dismantling the same after completion of work, scaffolding material shall be in healthy condition and inspected before use by scaffolding inspector, additional information: payment will be made as per area of elevation	40.00	M2
465	Providing and fixing of tubular H-frame scaffolding/ pipe coupling / modular cup lock scaffolding, material: steel, Tata power standards from 5 m & above height including covering it externally with nylon net and dismantling the same after completion of work, scaffolding material shall be in healthy condition and inspected before use by scaffolding inspector, additional information: payment will be made as per area of elevations	40.00	M2
466	Providing and fixing of tubular h-frame scaffolding/ pipe coupling / modular cup lock scaffolding, material: steel, as per Tata power standards including covering it externally with nylon net and dismantling the same after completion of work, scaffolding material shall be in healthy condition and inspected before use by scaffolding inspector, additional information: payment will be made as per area of elevation	40.00	M3
467	Supplying potable water by tanker, rate shall be inclusive of pumping water up to 8 m height as and when required	40.00	KL
468	Supplying potable water tanker to ground level or below storage tank	40.00	KL

Note: Above Quantities are tentative. Tata Power reserves the right to curtailed / enhance the quantities before the placement of Purchase Order.

It may be noted that all future correspondence will be strictly done only with Interested Vendors who have done the above steps (As mentioned in section "B") in time with Authorized Person, and only through Tata Power E-Tender System.
