

NOTICE INVITING TENDER - CC27SVP001

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.	Miscellaneous Civil works for GIS Building at Kalwa Sub-station.	CC27SVP001	1,80,000 /-	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 – 24th April 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 – Manekji Wadia Building, Nanik Motwani Marg, Fort, Mumbai

400023. Branch Code – 60

Bank & Branch Code –

400240015 Account No –

00600110000763

Account type – CC

IFSC Code – HDFC0000060

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 Tender reference number (**CC27SVP001**) and evidence of

payment of tender fee

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. Pre-qualification Requirement Criteria:

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>1. Bidder should have minimum 05 years of experience in the Civil, Structural, Fabrication, Architectural & PHE works associated with the construction of GIS building.</p> <p>2. Bidder must have successfully executed the following quantum of works on cumulative basis during the last 05 calendar years.</p> <p>A) Earthwork: 800 M3. B) RCC Work: 300 M3 C) Reinforcement steel works: 75 Tonnes D) Structural Steel Work: 50Tonnes</p> <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 4 Crore.	Audited Profit & Loss statement 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

C. Estimated Quantity: (BOQ)

Price Bid Format_CC26SVP001_Miscellaneous Civil works for GIS Building at Kalwa sub-station			
BILL OF QUANTITIES - CIVIL, STRUCTURAL,Architectural & ROAD WORKS			
Sr. No.	Item Description	UOM	Quantity
I	EARTHWORK		
1	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.	Cum	490
2.0	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.	Cum	280
3.0	Excavation below existing Ground Level for foundations, drains, compound wall and underground tanks or any other structure within the OWNER's Premises in hard rock by ordinary chiseling; clearing away vegetation trees of all girth, bushes, underground roots, stumps etc., including shoring (excluding shore pile), strutting and all safety provisions, by providing adequate slopes using hard barricading as per OWNER's standards including careful handling of underground utilities etc., including backfilling as directed by the Owner, stacking and multiple handling of earth within the OWNER's Premises and disposal of surplus earth beyond plot boundary in MCGM approved area etc. as directed by Engineer-in-charge, including dewatering, preparing the bed for foundation etc. Payment for earth works shall be on net plan area of PCC. No payment will be made for side slopes, working area etc. The rate shall be inclusive of taking permission from Collector/MCGM or any other authorities beyond MCGM limit for the dumping place in consultation with the Municipal and/or other Local Authorities & Debris Management Cell. Contractor should ensure that this disposal cause no nuisance to the residents of town. Disposal is at the risk and cost of the Contractor. From existing ground level to a depth of 3 m	Cum	100

4	Providing and filling well graded excavated earth suitable for backfill including compacting in layers of 300mm with mechanical equipments to achieve a proctor density of 95% etc., complete as directed by the Engineer. (Bidder to consider a lead upto 100m as in Item1 above)	Cum	408
5	Providing & laying dry trap granite/quartzite/gneiss/rubble stone soling with maximum 230mm size hard stone set in regular lines, hand packed and interstices thoroughly filled with small chips including filling in with good quality murum and compacted with 8 to 10 tonne rollers and spreading 12mm thick layer of grit on top, etc. complete in all aspects as directed by the Engineer-in-Charge.	Cum	86
6	Supplying and Providing pre-constructional anti-termite treatment, and creating a chemical barrier, under and on sides of trenches, wall footings, top surface of plinth filling, including junction of wall and floor along the perimeter of building, with approved emulsifiable insecticides at the rates and concentrations as per IS.6313 (Part-II) and as directed by Engineer. (Treated plinth area of the building at ground floor only shall be measured) (Contractor to submit guarantee against termite attack for a period of 5 years.)	Sqm	450
II	CONCRETE AND ALLIED WORKS		
7	Providing and laying Ready Mix Concrete, M15 Grade using 20 mm downgraded aggregates below ground for blinding layer under R.C.C foundation and bedding, bottom of pits, sumps, chambers, trenches, anchor blocks, rubble masonry and brick walls etc. as per drawing or as directed by the Engineer-in-Charge including vibrating, compacting, curing, shuttering if required, etc. complete.	Cum	106
8	Providing and placing in position Ready Mix Concrete of M30 grade for all shapes, at all levels above or below ground including admixtures if any, centering, shuttering, scaffolding, vibrating, compacting, curing, dewatering, levelling, cutouts, openings, finishing, removal of formwork, etc. complete, for all lead and lifts, to obtain class F1 finish with leak proof concrete as per specifications/drawings and as directed by the Engineer- in-Charge for the following items (excluding reinforcement and structural steel):		
8-a	RCC raft foundation	Cum	125
8-b	RCC walls and slab	Cum	240
9	Providing and placing in position Ready Mix Concrete of M20 grade for all shapes, at all levels above or below ground including admixtures if any, centering, shuttering, scaffolding, vibrating, compacting, curing, dewatering, levelling, cutouts, openings, finishing, removal of formwork, etc. complete, for all lead and lifts, to obtain class F1 finish with leak proof concrete as per specifications/drawings and as directed by the Engineer- in-Charge for the following items (excluding reinforcement and structural steel):		

9-a	Foundation of cable trenches	Cum	15
9-b	RCC wall for cable trench.	Cum	30
10	P/L precast covers Concrete G- M20 P/Laying precast covers Concrete Grade M20: as per specific in drawing including lifting & erection with equipment at required locations also includes Supplying, Providing and placing in position reinforced cement concrete for precast covers for following structure works including vibrating, curing, de-watering wherever necessary, providing construction joints, leaving cutouts/ pockets for placing of inserts/ embedments, etc., complete, including cost of providing form work for all shapes with lifting arrangement with Hook as per issued drawing but excluding the cost of providing reinforcement all as per specifications and as directed by the Engineer. This Item is to be ready mix (RMC)	Cum	45
III	BRICK WORKS		
11	Providing 1st class Brick Masonry of 115 mm and above as per approved drawing in cement mortar 1:4 (1 cement : 4 coarse sand) using best quality locally available first class kiln bricks having crushing strength of 50 Kg/sqcm and water absorption not more than 20% confirming to IS 12894, in walls, parapets, etc., at all levels including scaffolding, curing, raking of joints, providing RCC transomes and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transomes and mullions shall be paid separately in respective items).	CUM	60
12	Providing internal cement plaster 12 mm thick plain finish in single coat in cement mortar 1:4 with hacking, surface preparation, including scaffolding and curing, grooves, bands, drip moulds, at all levels, heights and location including providing and fixing chicken mesh of 22 gauge, with about 15 cm width of approved quality at the junction of reinforced cement concrete members and brick work, including fixing mesh in position by necessary drilling in concrete/ B.B masonry, etc. complete.	Sqm	350

13	Providing & applying 20 mm thick external sand faced plaster in cement mortar 1:4 using addition of integral water proofing compound 100% virgin polypropylene fibrillated fibres @125 gm/bag of cement as per manufacturer's specifications waterproofing compound of approved make as per the manufacturer's specifications, in two layers (first layer of 14 mm thickness and the second layer of 6 mm thickness) including forming key to receive the finishing coat, on all types of external surfaces using coarse, clean sand including surface preparation, curing both the coats, bends, grooves, drip moulds, at all levels, heights and location including all scaffolding, curing, providing and fixing chicken mesh of 22 gauge, with about 15 cm. width of approved quality at the junction of reinforced cement concrete members and brick work, including fixing mesh in position by necessary drilling in concrete/ B.B masonry, etc. complete.	Sqm	490
IV	STEEL WORKS		
14	Supply, Cleaning, cutting, bending, as per drawings and placing in position High yield strength deformed reinforcement bars conforming to IS: 1786 at all locations and levels including binding with soft annealed 18G black wire, etc. Complete as shown on drawings and as directed by the Engineer (No payment will be made for staper bar, layer pin, chair, tie rods and other supports, binding wires, laps)		
14-a	a) For HYSD bars conforming to grade Fe 500D of IS 1786	MT	60
15	Supplying, cutting, fabricating and erecting structural steel work in rolled / builtup sections fixed with connecting plates or angles, gussets, cleats, channels as per drawings including cutting, fabricating, hoisting, erecting at all levels and locations, fixing in position, making welded/bolted connections and with two coats of zinc silicate primer (One shop coat and one site coat) and painting with finishing coats of synthetic enamel paint to get desired finish, including scaffolding, preparation of surfaces, transporting, loading, unloading etc. complete as directed by the Engineer-in-Charge.	MT	65
16	Supplying, cutting, fabricating and erecting M.S. anchor bolts, pipe sleeves, channels, angles, plates, rails, beams and all other types of inserts in concrete members and placing them in position as specified on drawings at all locations and at all levels, etc. including two coats of approved oil paint over one coat of zinc phosphate primer with finishing coats of synthetic enamel paint to get desired finish over exposed surfaces, including scaffolding, preparation of surfaces, transporting, loading, unloading etc. complete as directed by the Engineer-in-Charge.	MT	10

17	Providing and fixing 2 hrs Fire rated protection of specified thickness over structural steel as per ASTM E119 using cementitious vermiculite concrete, water based Structural Steel Compound to be applied over pre-primed surface already coated with two coats of Epoxy primer at Contractor's Fabrication site, including scaffolding / access, preparation of surfaces and application as per Manufacturer's specifications, etc. complete.	Sqm	200
18	Providing and applying, 2 hrs Fire rated protection of specified thickness as per BS 5950-8:2003, using vermiculite or intumescent paint including necessary surface preparation, scaffolding, etc., complete as per specifications and as directed by the Engineer-in-Charge.	Sqm	200
19	Supplying, fabricating, delivering to site, loading, unloading, etc. and erecting chequered plate of diamond shape pattern including all operations but not limiting to such as straightening, cutting, drilling, grinding, welding (weight not included), making holes for lifting, cleaning and preparing surface by power tools and wire brushing and applying on the soffit of chequered plate one shop coat of zinc phosphate primer after fabrication and one coat of the same after erection and finishing coats of synthetic enamel paint of approved shade to get desired finish, etc. complete as per specifications and as directed by the Engineer-in-Charge.	MT	7
20	Providing and fixing the rebars of RE 500 of Hilti at required locations and levels including drilling the hole, etc. complete as directed by the Engineer-in-Charge.'		
20-a	16 dia	Nos	10
20-b	20 dia	Nos	20
20-c	25 dia	Nos	20
21	Supplying, providing and fixing pre-coated metal sheets of 0.5mm total coated thickness (bare galvalume thickness 0.47mm), trough type, zinc aluminium alloy coated (zinc aluminium 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 and SMP coating of DFT 20 microns over 5 micron primer on internal surface of sheeting and including all connections and matching fixtures and accessories such as but not limited to J or L bolts & hooks, nuts with washers etc., complete as per manufacturers recommendations and as approved by the engineer at all levels including scaffolding, preparation of surfaces, transporting, loading, unloading etc. complete as directed by the Engineer-in-Charge (Area measured as laid. No overlapping shall be paid. Bidder shall indicate the rate for laying and fixing).	Sqm	100

22	P/F Stud Providing & Fixing of MS studs (100m Length 19mm dia) with all required tool tackles , Welding , transportation as directed by TATA Power Engineer in charge.	NO	500
23	Grouting base 45N/mm2 "Grouting of the bases of equipment / stanchions including anchor bolt pocket/ pipe sleeves etc. With premixed free flowing non-shrinking grout of the following strengths as per the manufacturer's instructions. Grout having a minimum strength of 45 N / mm2"	M3	2.0
23	P/f Puff sheet 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.	M2	450
25	Providing & Fixing of Decking Sheet with all required tool tackles , transportation erection all inclusive as directed by TATA power in-charge. Deck Sheet Specification JSW Make (0.8mmthk ,345MPa, 150GSM) or equivalent (Approval to be taken From Engineer or Design team).	M2	200.00
26	P/F 16 SWG SS Wire Mesh 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.	sqm	350
V	Roads		
27	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	SQM	50

28	"Excavation in ordinary earth, soft & decomposed rock which include rock/boulders/slag/slate/laterite, sand/gravel/clay/murum, rubble of all kinds; including all safety provisions by providing shoring and strutting, removal of vegetation, shrubs, royalty, etc., removal and disposal of excavated material from the site, temporary stacking of selected earth and its multiple handling and spreading within the internal premises as directed by the Engineer-in-Charge, including dewatering, foundation bed preparation, backfilling and compaction, disposal of materials beyond plot boundary in MCGM approved area etc. complete in all aspects as described and as directed by the Engineer-in-Charge.(Contractor to take permission from Collector/MCGM/concern authorities for the dumping place in consultation with the Municipal and/or other Local Authorities & Debris Management Cell. Contractor should ensure that this disposal cause no nuisance to the residents of town. Disposal is at the risk and cost of the Contractor.)"	M3	25
29	Providing, laying, spreading and compacting specified Granular Sub-Base consisting of materials like natural sand, murum, gravel, crushed stone or combination thereof in sub base course (Grade II of GSB (Table 400-1) including premixing at OMC carriage of material, spreading in uniform layers as specified in drawings or as directed by the ENGINEER, and compacting with power vibratory roller to achieve the specified density, etc complete in all respect and as per MORTH (IV R) Clause 401).	m3	25
30	Providing, laying, spreading & compacting specified graded stone aggregates to wet mix macadam specification including premixing the material at OMC in mechanical mixer (pug mill), carriage of mixed material, by tipper to site, laying in uniform layers of specified thickness in sub base / base course on a well prepared sub grade / sub base by mechanical pavers and compacting with power vibratory roller to achieve the desired density [including all materials, labour, machinery, lighting, guarding, barricading and maintenance of diversion etc. complete, in all respect as per MORTH (IV R) Clause 406.	m3	25
31	Providing and applying prime coat using bitumen emulsion conforming to IS 8887 on the prepared surface complete in all respect as per MORTH (IV R) clause 502 for rate of spread 1 Kg per Sq m	m2	50
32	Providing and applying tack coat using bitumen emulsion conforming to IS 8887 on the prepared surface complete in all respect as per MORTH (IV R) Clause 503.	m2	50

33	Providing & Laying Dense Bituminous Macadam (DBM) course of required thickness using 60/ 70 grade bitumen at 5% on prepared surface with specified graded crushed aggregates for base/ binder course including loading of material with F.E. loader and hot mixing of bitumen filler with aggregates in hot mix plant, transporting the mixed material with tipper to paver and laying with sensor paver finisher to the required level, grades and rolling with vibratory roller to achieve the desired density etc. complete in all respect as per MORTH (IV R) Clause 507, etc complete in all respect,	m3	10
34	Providing and laying open graded Bituminous Concrete or Asphalt concrete of minimum 40 mm thick on prepared surface with specified graded stone aggregate for wearing course including loading of aggregates with F.E. loader and hot mixing of bitumen filler with aggregates in hot mix plant transporting the mixed material with tipper to pavers and laying with sensor pavers finisher to the required level, grades, and rolling with 8 - 10 T smooth wheeled tandem type vibratory rollers to achieve the desired density etc. excluding cost of tack coat, etc complete in all respect using 60/ 70 grade bitumen at 5% or more as per the approved Job Mix Formula as per MORTH (IV R) Clause 509.	m3	10
35	Providing and placing in position Ready Mix Concrete of M25 grade for all shapes, at all levels above or below ground including admixtures if any, centering, shuttering, scaffolding, vibrating, compacting, curing, dewatering, levelling, cutouts, openings, finishing, removal of formwork, Filling of all tie rod holes with non-shrink grout(Dr. Fixit Pidigrout 10M as per manufacturers specification) etc. complete, for all lead and lifts, to obtain class F1 finish with leak proof concrete as per specifications/drawings and as directed by the Engineer-in-Charge for the following items (excluding reinforcement and structural steel):All foundations including bottom slabs of tunnels, trenches, Underground tanks, pile caps, grade slabs, etc.	Cum	10
VI	MISCELLANEOUS WORKS		
36	Supplying, Providing and laying cement concrete screed of varying thickness (Min 25mm thick and maximum 125 mm thick) with 10mm down graded coarse aggregates over cast insitu/ precast RCC surfaces as shown on the drawings and as directed by the Engineer, for the following mixes: (i) M 20 Grade Concrete	CUM	8
37	Aluminium Ventilators of size 200mm x 500mm	SQM	5

38	Supply and laying of HDPE pipe 250MM DIA, of suitable grade as per IS 4984:1995. Jointing of pipes by suitable method. Vendor to ensure pipes are not bend or choked while laying and suitable for laying cables. Pipes shall be cleaned before handing over and during cable layi	RM	25
39	CISE, Supplying, fabricating and erecting Tubular Handrailing of height 1200mm of 32 mm dia. and 25 mm dia. NB light class, GI pipes 304 mat finish /brush steel finish consisting of one GI rail and connecting with wall with all necessary GI bends, GI tee joints, GI fixtures, GI fittings, etc. The assembly should be standy and with smooth surfaces at joints/ junctions. All GI sections, pipes etc to be supported with documents for the quality.Note: Material to be provided by the contractor." and design will be decided by Engineer In charge.	RM	55
40	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	SQM	25
41	Providing & fixing exhaust fans at toilets. 300mm dia as per approved make like Crompton, Bajaj etc.	No	10
42	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	SQM	200
43	"P/S/E Galvalume plain Sheet gutters 0.3Mx0.3M & min 0.65mm th and above with stiffner& with hexa head self drilling screws of size no. 12-14 x 15 mm at every crest with EPDM washers and colour head to match colour of sheeting as per approved drgs, to be supplied by contractor including end laps as per spec and sealing of laps with silicon non-hardening type sealant and foam filler as per EICincluding all openings required as per drg, testing for leak etc. complete. laid for area. "	M	100
44	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	M	50

VII	REPAIR WORK OF RCC/LOAD BEARING STRUCTURES		
45	PROVIDING AND FIXING BEST QUALITY 38MM THICK SINGLE/DOUBLE LEAF FLUSH DOOR FRONT / EXTERNAL DOOR SHUTTER FINISHED WITH APPROVED 1.5MM THK. COLOUR LAMINATE OF APPROVED MAKE FROM BOTH SIDE IN ONE PIECE WITHOUT JOINTS OR BROKEN EDGES OF MAKE SIGNATURE, GREENLAM, CENTURY OR MARINO , WITH 125MM X 75MM TEAK WOOD FRAME WITH PROVISION OF 10 MM THICK TEAK WOOD BEADING AROUND THE SHUTTER ETC. COST SHALL ALSO INCLUDE ALL NECESSARY HARDWARE AND THEIR ACCESSORIES LIKE S.S. BALL BEARING HINGES MINIMUM 4 NOS PER LEAF, DOOR HANDLE, DOOR CLOSURE, STOPPER, LOCKING ARRANGEMENTS, TOWER BOLT ETC. OF MAKE GODEREJ, DORMA, ENOX, HAFELE, OZONE OR EQUIVALENT AND AS PER APPROVED PALETTE. Rate shall also include removing of existing door & disposal outside the company premises	M2	10
46	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	M2	100
47	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	M2	100
48	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.	M2	50
49	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.	M2	12

50	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 & shutter with 50-60 micron, including 6 mm thick fire rated glass panel for clear vision 200 * 300 mm, SS 304 fire rated ball bearing hinges , with panic bar single point, external trim, door closer & installation	M2	10
51	Providing Damp proof course, 75 mm thick with Cement Concrete grade M20 using 20 mm down graded aggregate with approved water proofing compound to proportion recommended by manufacturer including providing form work/side shuttering as required vibrating, curing etc complete.	M2	10
52	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.	NO	10
53	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 mm diameter.	NO	10
54	Demolition of old canteen including disposal of all existing material outside & dismantling of structural members and return the scrap to MSETCL or as directed by TATA Power EIC.	AU	1
55	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	M	200
56	Providing all material, tools and tackles, service for brazing of 0.2 copper conductor	NO	25
57	laying copper conductor,0.2mm, providing all tools & tackles for laying conductor in line as directed by EIC	M	100
58	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	EA	10

59	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	EA	10
60	Supplying, cutting, fabricating and erecting G.I. anchor bolts (with galvanization up to 610gsm), pipe sleeves, channels, angles, plates, rails, beams and all other types of inserts in concrete members and placing them in position as specified on drawings at all locations and at all levels, etc. including preparation of surfaces, transporting, loading, unloading etc. complete as directed by the Engineer-in-Charge.	MT	0.25

ii) Control Room Building Work:

Sr. No.	Item Description	Unit	Quantity
1	P/F UPVC windows 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.	M2	40
2	P/F SWR 160mm PVC Pipe Type A Providing & fixing SWR 160 mm dia PVC pipe type a with self fit 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	M	67
3	P/L Granite for sill Providing and fixing 15 mm thick black granite on window sill, 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.	M	27

4	<p>P/L polished Kota in treads</p> <p>Providing and laying polished kota of colour as approved by Owner having a minimum thickness of 20 mm in treads of steps and staircase in one piece with rounded nosing and 3 Nos of anti skid grooves on 1:4 cement mortar (1 cement : 4 course sand) bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with pigment to match shade of white marble , curing, rubbing, polishing and cleaning complete at all levels.</p>	M2	34
5	<p>P/L polished granite in treads</p> <p>Providing and laying polished granite of colour as approved by Owner having a minimum thickness of 20 mm in treads of steps and staircase in one piece with rounded nosing and 3 Nos of anti skid grooves on 1:4 cement mortar (1 cement : 4 course sand) bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with pigment to match shade of white marble , curing, rubbing, polishing and cleaning complete at all levels.</p>	M2	19
6	<p>P/L granite in floor</p> <p>Providing and laying granite in floor of quality and colour as approved by Owner having a minimum thickness of 20 mm in plain or diamond pattern on 1:4 cement mortar (1 cement : 4 course sand) bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with matching colour pigment, curing, rubbing, machine polishing and cleaning complete at all levels.</p>	M2	8
7	<p>PRVD/FIX KOTAH STONE SKIRT 20MM</p> <p>PROVIDING AND FIXING OF KOTAH STONE SKIRTING, THICKNESS: 20 MM, HALF TILE (MACHINE CUT AND MACHINE POLISHED) WITH NECESSARY CEMENT MORTAR BEDDING, FLOATING WITH MATCHING COLOUR CEMENT, CURING, MACHINE POLISHING, CLEANING ETC. COMPLETE</p>	M2	20
8	<p>P/F/E Tubular Handrail - SS 2 Rail</p> <p>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</p>	M	35
9	<p>P/F/E Tubular Handrail - SS 1 Rail</p> <p>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</p>	M	15

10	<p>P/F paver block - 80 mm</p> <p>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</p>	M2	200
11	<p>Silicon sealant</p> <p>Poviding & applying silicone sealant of Dow / Dr. Fixit silicon sealant suitable for Aluminium to cement plaster surface</p>	M	90
12	<p>Prvov. & const. Brick masonry 230mm</p> <p>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.</p>	M3	65
13	<p>Providing internal cement plaster 6 mm thick to ceiling in a single coat in cement mortar 1:4 to rough/fair concrete surface, in all positions with hacking, surface preparation, including scaffolding, curing, grooves, bands, drip moulds, etc. complete.</p>	M2	151
14	<p>P/A Internal plaster 12 mm</p> <p>Providing internal cement plaster 12 mm thick plain finish in single coat in cement mortar 1:4 with hacking, surface preparation, including curing, grooves at all levels, heights and location, including providing and fixing chicken mesh of 22 gauge, with about 15 cm. width of approved quality at the junction of reinforced cement concrete members and brick work.</p>	M2	267
15	<p>P/A external plaster 20mm</p> <p>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</p>	M2	290
16	<p>MAK&CUT CORE IN RCC WALL/SLAB,250MM</p> <p>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.</p>	NO	10

17	<p>Providing and applying wall punning up to 12mm thick with approved white cement-based putty, including surface preparation, application of Bond Aid, fixing Jali tape at joints and cracks, maintaining plumb line and proper kat kona (corners), forming grooves above skirting, and finishing to a smooth, even surface ready for painting.</p> <p>The rate shall include cost of all materials, labour, scaffolding, protection of adjoining surfaces, cleaning, and all incidental works complete as directed by the Engineer-in-Charge.</p>	sqm	267
18	<p>Providing and applying Cement Based Birla White Putty in two coats over a plastered surface to give a smooth levelled finish to receive paint. Surface to be pre-wetted and made free of any loose particles and stains etc. The cost shall include all labour, materials, etc complete.</p>	sqm	267
19	<p>Providing and applying two coats of first quality Oil Bound Distemper internal paint of approved colour and shade over one coat of primer, including scaffolding, preparing the surface to receive the primer and finishing coats complete.</p>	m2	50
20	<p>P/A Acrylic Emulsion Interior</p> <p>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.</p>	M2	267
21	<p>P/A Acrylic Emulsion Exterior</p> <p>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.</p>	M2	290
22	<p>P/F fire rated door with panic bar</p> <p>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 & shutter with 50-60 micron, including 6 mm thick fire rated glass panel for clear vision 200 * 300 mm, SS 304 fire rated ball bearing hinges , with panic bar single point, external trim, door closer & installation</p>	M2	15
23	<p>P/F Antistatic false flooring-600mm</p> <p>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</p>	M2	100

24	P/F PVC false ceiling 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.	M2	70
25	P/F FRP chajja 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)	M2	30
26	Skirting - Anti-skid vitrified tiles, Providing and fixing 100 mm high skirting 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.	RM	42
27	Providing and laying for vitrified tiles in dado 12 mm thick of Nitco / Kajaria / Johnson approved quality and shade in required position on 30 to 40 mm thick 1:4 cement mortar bedding including cement float, filling joints with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, finished to line, length and slope as required, etc. complete.	M2	35
28	Providing and laying for anti skid vitrified tiles in dado 12 mm thick of Nitco / Kajaria / Johnson approved quality and shade in required position on 30 to 40 mm thick 1:4 cement mortar bedding including cement float, filling joints with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, finished to line, length and slope as required, etc. complete.	M2	100
29	Providing and laying for flooring, vitrified tiles in flooring 12 mm thick of Nitco / Kajaria / Johnson approved quality and shade in required position on 30 to 40 mm thick 1:4 cement mortar bedding including cement float, filling joints with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, finished to line, length and slope as required, etc. complete.	M2	101
30	CLC/AAC/Siporex block masonry - 4" 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)	M2	10

31	<p>SERVICE TYPE: Providing and fixing both sided gypsum Partition walls using Gyprock soundblock board of required thickness of saint Gobain or equivalent as per approved drawings including scaffolding/access, making cut-out of required sizes and supporting framework for door opening as specified in approved drawings and manufacturer specification using metal stud frame sections ,ceiling sections , connecting clip, drywall screws, anchor bolts, backing strips, includes filling and finishing with Jointing compound, Joint Paper tape and two coats of Drywall Top Coat as specified in specification , etc.all complete as per the the approved drawings and Manufacturer specifications.</p>	M2	10
32	<p>Providing and fixing solid core flush door with TW frame in Single / Double leaf 35 mm thk. wide Marine type of exterior grade with / without vision panel as per detailed drawings, approved marine plywood facing on both sides without glazing and venetians, with core of block board all necessary T.W. lipping of door thickness, C.P., Brass and S.S. ball bearing Hinges minimum 4 nos per leaf, fixtures and fastenings, door handles, door locks and laminate finish to the satisfaction of Architect. Laminate shall be 1mm thick on both sides, in one piece without joints or broken edges of make Signature, Greenlam, Century or equivalent. The hardware except door hinges shall be paid seperately</p>	M2	10
33	<p>Providing and fixing polished granite pantry platform 675 mm deep consisting of 20 mm thick black Granite for counter top over 40 mm thick Kadappa stone slab, 25 to 30 mm thick both side polished kadappa verticles and 150 mm high facial patti in polished granite with nosing, 25 mm thick horizontal Kadappa shelves, including making chases in walls and floor and finishing neat with cement mortar 1:2, providing opening in granite and kadappa for Stainless Steel sink and taps and making moulding and edge polishing all complete as directed by Engineer-in – Charge. All exposed edges of Kadappa and Granite to be polished to the satisfaction of the Engineer as per the design (Supply and fixing of Stainless Sink sink shall be paid separately). All joints shall be made water tight in perfect line level and slope as desired. Only plan area shall be measured for payment. Wastage due to dimentional difference pattern and size shall be to the contractor's account. Filling and finishing of joints shall be done with cement and colour pigments</p>	M2	35
34	<p>Providing and fixing mirror min 8 mm thick with 3/4" bevelling of make Saint Gobain or equivalent fixed on the wall with SS studs</p>	M2	10

35	<p>Providing and fixing polished granite for washbasin counter consisting of 20 mm thick Granite for counter top over 40 mm thick Kadappa stone slab, 25 to 30 mm thick and 180 mm high facial patti in polished granite with nosing including making chases in walls and finishing neat with cement mortar 1:2, providing opening in granite and kadappa for washbasin, drain and taps and making moulding and edge polishing all complete as directed by Engineer-in –Charge. All exposed edges of Kadappa and Granite to be polished to the satisfaction of the Engineer as per the design (Supply and fixing of washbasin and taps shall be paid separately). All joints shall be made water tight in perfect line level and slope as desired. Only plan area shall be measured for payment. Wastage due to dimensional difference pattern and size shall be to the contractor's account. Filling and finishing of joints shall be done with cement and colour pigments.</p>	SQM	6.10
36	<p>CISE, "P/F under counter shutter Providing all the materials ,fabricating and erecting under counter shutters (century or greenply Marine ply) shutter with frame and laminate finish . The Flush door shall consist of 16 mm thick marine ply with groove. & including 6mm thick teak wood lipping over all the four edges of the shutter. with colour laminate from outside and white laminate from inside. The shutter shall be provided with associated fixtures (chrome plated brass fixtures) of approved make & quality as approved and directed"</p>	M2	20
ELECTRICAL			
37	<p>Surface Mounted Panel LED Light 12W Providing, Installing, Testing and commissioning of surface mounted panel LED light of Bajaj, Wipro . including all necessary hardware, fittings etc. Job to be complete in all respect as directed by engineer-in-charge. 100mm dia Circular Recessed- 12 watts LED lights</p>	EA	20
38	<p>Surface Mounted Panel LED Light 15W Providing, Installing, Testing and commissioning of surface mounted panel LED light of Bajaj, Wipro . including all necessary hardware, fittings etc. Job to be complete in all respect as directed by engineer-in-charge. 150mm dia Circular Recessed- 15 watts LED lights</p>	EA	1
39	<p>Surface Mounted Panel LED Light 18W Providing, Installing, Testing and commissioning of surface mounted panel LED light of Bajaj, Wipro . including all necessary hardware, fittings etc. Job to be complete in all respect as directed by engineer-in-charge. 200mm dia Circular Recessed- 18 watts LED lights</p>	EA	20
40	<p>S & F 18 mm thk profile light "18 mm thk profile light(15 W) Supply and fixing of profile LED light of bajaj . make including driver circuit and all associated accessories job to be completed in all respect as directed by engineer-in-charge."</p>	M	30

41	"Spot light - 10 watt Providing & fixing circular led spot light of Phillips / Panasonic / Wipro make 10 watt light, rate shall be inclusive of removal of existing fixture, making cutout for installation and finishing the surface.	M	30
42	P&F Switch Board - Upto 4 Module "Providing and fixing modular Switch boards of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) make required to cater all the light points, luminary, AC, TV sceens and all other electrical fixture. including concealed box, switch plate, switched etc alongwith all other accessories required to complete the job in all respect and as directed by engineer-in-charge. Upto 4 modules	EA	15
43	P&F Switch Board - 6 Module "Providing and fixing modular Switch boards of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) make required to cater all the light points, luminary, AC, TV sceens and all other electrical fixture. including concealed box, switch plate, switched etc alongwith all other accessories required to complete the job in all respect and as directed by engineer-in-charge. 6 MODULE	EA	15
44	P&F Switch Board - 8 Module "Providing and fixing modular Switch boards of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) make required to cater all the light points, luminary, AC, TV sceens and all other electrical fixture. including concealed box, switch plate, switched etc alongwith all other accessories required to complete the job in all respect and as directed by engineer-in-charge. 8 modules	EA	2
45	P&F Switch Board - 12 Module "Providing and fixing modular Switch boards of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) make required to cater all the light points, luminary, AC, TV sceens and all other electrical fixture. including concealed box, switch plate, switched etc alongwith all other accessories required to complete the job in all respect and as directed by engineer-in-charge. 12 modules	EA	3
46	P&F 5Amp Socket "Providing, Supply & Fixing of 5Amp SOCKET Make - ANCHOR ROMA"	EA	50
47	P&F 5Amp Switch "Providing, Supply & Fixing of 5Amp SWITCH Make - ANCHOR ROMA"	EA	50
48	P&F 5/15A Switch Supply, Install, Testing and commissioning of 5/15A Switch of make havells / anchor or equivalent for TV, desktop, laptops, charging point etc. including all associated accessories, job to be completed in all respect as directed by engineer-in-charge.	EA	10

49	P&F 5/15A Socket Supply, Install, Testing and commissioning of 5/15A sockets of make havells / anchor or equivalent for TV, desktop, laptops, charging point etc. including all associated accessories, job to be completed in all respect as directed by engineer-in-charge.	EA	10
50	SITC 15A Socket Supply, Install, Testing and commissioning of 15A sockets of make havells / anchor or equivalent for microwave, fridge, AC etc. including all associated accessories, job to be completed in all respect as directed by engineer-in-charge.	EA	10
51	P/L 1.5MM SQ WIRE Providing & laying 1.5 M2m 3 pair wire of approved brand Polycab including PVC conduit where required, all tools and tackles, laying etc complete as directed.	M	200
52	P/L 2.5MM SQ WIRE Providing & laying 2.5 M2m 3 pair wire of approved brand Polycab including PVC conduit where required, all tools and tackles, laying etc complete as directed.	M	450
53	P/L 4MM SQ WIRE Providing & laying 4 M2m 3 pair wire of approved brand Polycab including PVC conduit where required, all tools and tackles, laying etc complete as directed.	M	50
54	P/L 6MM SQ WIRE Providing & laying 6 M2m 3 pair wire of approved brand Polycab including PVC conduit where required, all tools and tackles, laying etc complete as directed.	M	10
55	Supplying and fixing fan hooks made of 12 mm diameter Mild Steel (MS) rod of 1000 mm length including necessary bend, etc. complete.	nos.	10
SANITARY AND PLUMBING			
56	Providing services for plumbing works such as repair works of existing pipe lines, leakages, removal of chokes etc. as per the site condition & as directed by TATA Power Engineer.	EA	1
57	P/F CPVC Pipe 19mm "SERVICE TYPE: Providing & replacing damaged CPVC . pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete. 19mm"	M	50
58	P/F CPVC Pipe 25mm "SERVICE TYPE: Providing & replacing damaged CPVC . pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete. 25mm"	M	15

59	<p>Prov. & Fix CP Floor Trap - 100 mm PROVIDING AND FIXING BEST INDIAN MAKE CIRCULAR MIRROR OF 550MM DIA OF MAKE: MODI FLOAT, SAIN GOBIN, I.A.G . SILVERED LOCALLY, WITH PLAIN EDGE AS REQUIRED, COMPLETE. MIRROR SHALL BE FIXED WITH 25 MM DIA. SS STUDS. RATE SHALL INCLUDE PROVIDING ALL NECESSARY HARDWARE ALL COMPLETE AT ALL HEIGHTS.</p>	EA	6
60	<p>P/S/F Angle Cock: Providing and fixing of angle cock, make: jaquar serious Florentine including fixing at site etc complete</p>	NO	6
61	<p>PRVD&FIX 2-WAY BIB COCK SERVICE TYPE: PROVIDING AND FIXING OF BIB COCK, TWO WAY AS DIRECTED INCLUDING ALL TOOL & TACKLE</p>	NO	6
62	<p>PRVD&FIX STOP COCK,20MM SERVICE TYPE: PROVIDING AND FIXING OF STOP COCK, CP CONCEALED, DIAMETER: 20 MM, MAKE: JAQUAR</p>	NO	6
63	<p>PROVIDING&FIXING OPEN TYPE SOAP DISPENSE PROVIDING AND FIXING OPEN TYPE SOAP DISPENSER , MAKE: SHRESMO, CODE:SHD 12618, MATERIAL: POLYRESIN, COLOR: BROWN</p>	EA	6
64	<p>PROVIDING&FIXING HAND DRIER UNIT COMPLETE PROVIDING AND FIXING HAND DRIER UNIT COMPLETE WITH ELECTRICAL CONNECTIONS OF ASCON PRIMA SERIES OR EURONICS, ONIDA .., MAKE:ASKON , PRIMA SERIES HAND DRYER AS 210R (MS), SPECIFICATIONS:FULLY AUTOMATIC WITH IR SENSOR, SIZE: H 240 X W 285 X D 145, TYPE: TWIN BLOWER, POWER :1000 W, 230 VAC, SINGLE PHASE</p>	EA	3
65	<p>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</p>	M2	250
66	<p>Providing and fixing mechanically operated rolling steel shutters fabricated from 18 gauge 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 and 2 coats of approved synthetic enamel paint over a coat of zinc primer complete.</p>	M2	2

iii) PHE Works:

Sr. No.	Description of Item	Unit	Quantity
I.	PLUMBING WORKS		
A	EXTERNAL DRAINAGE		
1	Construction of best quality approved make stoneware gully trap 150 x 100mm with D.I. Grating including embedding trap in cement concrete 1:4:8 and constructing chamber of size 300 x 300mm x 300mm deep inside clear in brick masonry 230mm thick in cement mortar 1:3, 12mm thick water proof cement plaster in cement mortar 1:3, inside finished with floating coat of neat cement and rough finished outside, providing and fixing D.I. frame and hinged cover 300mm (clear opening) weighting not less than 8.0 Kgs. painting with three coats of anti-corrosive black bitumastic paint, all complete as per specifications of the Engineer-in-Charge. (Excluding Excavation).	Nos	10
2	<p>Construction of inspection chamber of internal dimension of 900x600mm upto depth of 1500mm outside plant area constituting of following items:-</p> <p>PCC foundation bed in M:15, 150 mm thick size 1100 x 1250 mm</p> <p>250 mm thick best quality approved brick masonry walls in CM 1:3.</p> <p>Internal walls plastered in CM 1:3 with water proofing compound</p> <p>External walls plastered in CM 1:3 with sponge finish</p> <p>Benching and channeling in PCC M:15 smooth</p> <p>C.C. M15 coping on top 150 mm thick.</p> <p>MCGM approved heavy duty 12.5tn load carrying capacity DI frame and cover of Class B 125</p> <p>75 mm wide filled (Vata) all round brick masonry and c.c. bed in CM 1:3.</p> <p>Making necessary inlet/outlet connections all complete.</p>	Nos	2
3	Construction of circular sewer manholes more than 1500mm depth and less than 2300mm having clear internal dia. At the top 600mm and 1200mm at the bottom with 230mm thick brick masonry in cement mortar 1:3, M:15 cement concrete foundation, 230mm thick, haunches and benching in M:15 cement concrete, water proof cement plaster 1:3 & 12mm thick both internal and external surface finished with floating coat of neat cement providing and fixing C.I. steps weighing not less than 5.3 kg. each as required at 340mm centre to centre, D.I. circular type cover & frame of internal dia. 600mm heavy type weighing not less than 175 Kg. (Grade C-250) fixed over 100mm thick R.C.C. coping in M:15 cement concrete provided with M.S. reinforcements of 10mm dia. rods at 100mm centre both ways painting the frame, cover & steps with two coats of anticorrosive bitumastic paint, testing, all complete as per specifications outside plant area. (Excluding Excavation).	Nos	1

4	Providing and fixing in manhole best quality approved make salt glazed stoneware master trap including making necessary connections, providing and fixing cleaning plug, embedding in concrete M:15 all complete.		
4-a	200mm dia.	Nos	1
5	Providing and laying 1:3:6 cement concrete for bedding, pipe supports and encasing the pipes, including necessary form work, compaction, curing de-watering, etc. All complete as per specifications and directions of the Engineer-in-Charge.	Cum	1
6	Providing & laying RCC NP3 class Hume pipe conforming to IS 458 in slope with RCC collar in cement sand joint in 1:3 proportion including cutting the pipes to required length, complete.		
6-a	200 mm dia.	Rmt	20
6-b	150 mm dia.	Rmt	40
ii	WATER SUPPLY PIPES AND FITTINGS (DOWN FEED SYSTEM)		
7	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.		
7-a	15mm dia	Rmt	15
7-b	20mm dia.	Rmt	15
7-c	25mm dia.	Rmt	20
7-d	32mm dia.	Rmt	20
7-e	40mm dia.	Rmt	15
7-f	50mm dia.	Rmt	15
8	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724. pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports, grip bolts, clamps, scaffolding, etc. all complete as per specification & direction of Engineer-in-Charge.		
8-a	20mm dia	Rmt	5
8-b	25mm dia	Rmt	12
8-c	32mm dia.	Rmt	20
8-d	40mm dia.	Rmt	15

8-e	50mm dia.	Rmt	15
9	Providing and fixing water meter of MCGM approved make (Leader/Capston) including providing and fixing matching Control Valve, strainer, non-return valve, complete including excavation, constructing suitable brick masonry chamber 230mm thick 1:3 cement mortar with plaster inside, outside in cement mortar 1:3 to house water meter, strainer and valves and provide 125 Kgs. cast iron frame and cover for the chamber, with locking arrangement all complete as per direction of the Engineer-in-Charge. (Valve chamber size 900 x 600 x 600mm)		
9-a	50mm dia. Chamber size: 900 x 600 x 600mm	Nos	1
iii	VALVES		
10	Providing and fixing C.S. heavy approved make ball valves screwed type of the following diameters (20 Kg/cm ²)		
10-Jan	50mm dia	Nos.	1
10-b	40mm dia	Nos.	1
10-c	32mm dia.	Nos.	1
10-d	25mm dia.	Nos.	1
10-e	20mm dia.	Nos.	1
11	Providing and fixing ball cock heavy duty with copper float all complete.		
11-a	50mm dia.	No.	1
11-b	40mm dia.	No.	1
12	Providing and fixing 20mm dia. Automatic (RB) air release valve including providing and fixing cut off & drain valve, making necessary inlet/outlet connection and fixing with M.S. Brackets complete.	Nos	1
iv	WATER SUPPLY TRANSMISSION MAIN UPTO O.H.TANK		
13	Supplying & providing the concealed and buried GI pipes with protective PVC tape with 50% overlap etc., complete (The quantity of pipe is included in item Nos 122)		
13-a	40 mm dia	Rmt	20
13-b	50 mm dia	Rmt	10
13-c	65 mm dia	Rmt	10
14	Providing and fixing G.M. gate valve screwed type with required 300x300mm masonry chamber in brick bat & C.I. cover all complete.		
14-a	40 mm dia	Nos	1
14-b	50 mm dia	Nos	1
14-c	65 mm dia	Nos	1
v	SOIL, WASTE, VENT, ANTI SY-PHONAGE AND INTERNAL DRAINAGE PIPES & FITTINGS		

15	Supplying, fixing and testing UPVC soil, waste and ventpipes (SWR) including ventcaps conforming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, vent cowls, etc., laid underfloor / fixed on walls at all levels, and in pipe shaftsetc.,complete.The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clampsetc. as per specification & direction of Engineer-in-Charge.		
15-a	75mm dia.	Rmt	40
15-b	100mm dia.	Rmt	20
15-c	150mm dia.	Rmt	10
16	Providing and fixing UPVC Aquarious Brand heavy class pipe for drains including providing and fixing necessary fittings such as elbows, tees union fittingsetc. including cutting holes and pockets chasing in the wall or floors as required and making good the same to original conditions after concealing the pipes where required, lagging the concealed pipes with hessain cloth dipped in hot black bitumen, testing, all complete as per specifications of the following diameters. (for Sink,Drain, and Urinal Drains)		
16-a	32mm dia.	Rmt	5
16-b	40mm dia.	Rmt	5
16-c	50mm dia.	Rmt	3
17	Providing and fixing C.P. Brass heavy quality gratings (3mm thick) for floor drains including making necessary recessment grouting with neat cement all complete to the satisfaction and direction of the Engineer-in-Charge.	sqmts	12
18	Providing and fixing cleanouts consisting of Nickel Bronze clean out ring and disc with three SS screw connecting to P.V.C. pipe all complete to the satisfaction and direction of the Engineer-in-Charge.		
18-a	160mm dia.	Nos	2
18-b	110mm dia.	Nos	2
18-c	80mm dia.	Nos	2
19	Providing and fixing PVC Pan connectors with or without vent holes straight/bend including providing & jointing with lead caulked joints.	Nos	3
20	Providing and fixing PVC. heavy approved Nahani Traps with minimum 40mm seal including fixing the same with the solvent cement joints complete to complete to the satisfaction and direction of the Engineer-in-Charge.		
20-a	Size 100 x 75mm.	Nos	7
21	Supply, installation, testing commissioning of UPVC "P" Trap in solvent cement joints all complete.		
21-a	110mm dia.	Nos	9
vi	RAIN WATER PIPES & FITTINGS		

22	Supplying, fixing and testing rain water pipes of UPVC (SWR) confirming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, cowls, etc., laid underfloor / fixed on walls, and in pipe shafts etc.,complete.The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps etc. as per specification & direction of Engineer-in-charge.		
22-a	200mm dia.	Rmt	5
22-b	150mm dia.	Rmt	50
22-c	100mm dia.	Rmt	25
23	Providing and fixing cast iron dome shaped grating including making proper recessment, grouting with cement mortar 1:1 Anti corrosive painting as approval all complete as per specifications.		
23-a	150mm dia.	Nos	4
23-b	110mm dia.	Nos	2
23-c	SANITARY FIXTURES & FITTINGS		
24	Providing and fixing approved off white vitreous china European water closet comprising of the following for complete installation. European water closet off white Wall Hung including PVC 'P' trap with seat cover CP brass hinges, rubber bushes (1 No.) [Hindware Studio 20061 or parryware Indus Walvit] 6 Ltrs dual type concealed type PVC flush cistern with adjustable flow rate, push button plate, flush pipe & bend all complete.Hindware concealed or Parryware Linea make. 15mm dia. CP heavy approved quality 2-way bib tap with wall flanges (1 No.).Jaguar florentine or allied series. 15mm dia. Approved quality health faucet with flexible tube & wall hook (1 No.).Jaguar or equivalent. 15mm dia. Approved quality angle valve (1 No.).Jaguar or equivalent. Total of all with making necessary inlet/outlet connection all complete.	Sets	2
25	Providing and fixing Over Counter wash basins of company Hindware 10065 or Parryware C0419 Colour : white, comprising of the following for complete installation. Oval shaped Over counter type wash basin. (1 No.) C.I. Bracket suitable for above (1 Pair) 32mm dia. CP waste coupling (1 No.) JAGUAR or equivalent 32mm dia.CP bottle trap with extension piece, CP wall flange complete. (1 Set) JAGUAR or equivalent 15mm dia. CP heavy angle, stop cock with wall flanges (2 Nos) JAGUAR or equivalent 15mm dia. CP heavy inlet connection pipe (2 Nos) 15mm dia. CP pillar tap,JAGUAR florentine FLR-5009B / allied series or equivalent Total of all with making necessary inlet/outlet connection all complete. Hand Towel Dispenser of company : Kimberly clark , Cat no : 02010 (White)	Sets	6

26	Providing and fixing stainless steel sink of size 900 x 450 (19 gauge) single bowl, drain board including 40mm dia. Waste coupling, CP bottle trap, waste flexible pipe upto nahani trap, water tap Jaguar make with aerator and making inlet/outlet connections all complete as per specifications and directions of the Engineer-in-Charge. (For Kitchen / Pantry) [Nirali, parryware or equivalent.	Nos	1
27	Providing & fixing storage type water cooler with Aquaguard of the following capacity, I.S.I marked, stainless steel front panel, C.P. brass push cock, inlet float valve with all plumbing & electrical accessories, inlet, outlet, overflow and PVC drain out connection to F.D. complete as required.		
27-a	Cooling capacity 40 Lts/hr, Storage capacity 80 Lts.	Nos	1
28	Providing and fixing ultra White Vitreous China half stall wall hung standard urinals Hindware Smart Catalogue No. (60011) or Parryware New Magnum No. C0575 or equivalent including fixing the same in concealed C.I. brackets. CP spreader, CP dome shaped waste coupling, CP bottle trap with flanges flush pipe making inlet and outlet connections, including automatic urinal flushing system all complete as per the specifications and directions of the Engineer-in-Charge.	Nos	2
29	Providing and fixing frosted glass Urinal partition (815 x 385x150mm) with CP brass bolts, anchor fastners & MS clips as recommended & directed by the Engineer-in-Charge.	Nos	3
30	Providing and fixing C.P. open type toilet paper holder 200 x 150mm, including fixing the same with C.P. screws complete. Of JAGUAR Continental series or equivalent approved make.	Nos	2
31	Providing and fixing open type soap dispenser with inlet / outlet connection all complete. JAGUAR or equivalent approved make	Nos	4
32	Providing and fixing soap dish holder with inlet / outlet connection all complete. JAGUAR or equivalent approved make	Nos	4
33	Providing and fixing robe hooks (double) including fixing the same with CP screws complete. [JAGUAR-1191N]	Nos	2
34	Providing and fixing hand drier unit complete with Electrical connections of Ascon prima series or Euronic or equivalent.	Nos	2
35	Supplying, fixing SS 20mm dia 300 mm long straight grab bar with flanges, fixed with SS screws complete. [JAGUAR-1101N]	Nos	1
vii	Miscellaneous Works		
36	Providing and fixing PVC water tank of Sintex or Equivalent make including installing in position, making water tight inlet and outlet connections, preparing base for tank, painting etc complete as per specifications and direction of Engineer.		
36-a	5000 litre capacity	Nos	2
36-b	Providing and fixing mirror min 8 mm thick with 3/4" bevelling of make Saint Gobain or equivalent fixed on the wall with SS studs	sqmts	10
37	Designing of scheme, preparation of drawings and seeking approval from owner for		
37-a	Rain water harvesing system including underground tank, pipe connections, cleaning mechanism (filtration), overflow protection mechanism etc. complete as per MCGM guidelines.	LS	1
37-b	Plumbing and strom water drainage scheme	LS	1
37-c	sewage and waste water scheme	LS	1

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.
