

## NOTICE INVITING TENDER

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

### **A. Summary of the tendered packages:**

<b>Tender Enquiry No.</b>	<b>Work Description</b>	<b>EMD(Rs.)</b>	<b>Tender Participation Fee (Rs.)</b>	<b>Last date and time for Payment of Tender Participation Fee*</b>
CC26AM013	General Civil Works for 245 KV GIS outdoor GIS & Control room Building at Salsette receiving station.	9,00,000/-	Rs. 2,000/-	1500 Hrs. 28th February 2026

**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 **Saturday – 28<sup>th</sup> February 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 **CC26AM013**.

Authorization Letter along with proof of submission of tender fee should be e-mail to **Mr. Anuj Mehra** ([anuj.mehra@tatapower.com](mailto:anuj.mehra@tatapower.com)) and copy to **Ms. Vaishali Kachare** ([vaishali.Kachare@tatapower.com](mailto:vaishali.Kachare@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: Prequalification Criteria (Technical & Commercial):**

Pre-qualification Requirement Criteria			
1	2	3	4
S No	Parameter	Tata Power Requirement	Documents To be submitted by Vendor to ascertain meeting of Pre-qualification requirement
1	Bidder's Technical Capability to handle jobs detailed in the Tender	<p>a) Bidder should have experience in executing at least one G+1 building construction project that includes architectural and Public Health Engineering works within the last eight calendar years.</p> <p>The Bidder must have successfully executed the following quantum of works (including supply of all materials) on cumulative basis during the past 8 (eight) calendar years in the two above noted projects:</p> <ul style="list-style-type: none"> <li>- RCC - 2700 cubic meters</li> <li>- Reinforcement works - 375 Tons</li> <li>- Structural steel works - 200 Tons</li> </ul> <p>b) Bidder to submit credentials for supporting the above 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>	Bidder to submit list of jobs and major order executed including Order Copies. (Pls. update list in adjacent sheet of PQR2)
2	ISO Certifications	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.	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.
3	Capability of Handle Job financially if awarded	Annual Turnover of the bidder for last 03 years shall not be less than INR Calculated Cost 9 Crs.	Copy of audited balance sheet and P&L statement for last 3 financial years.

**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: (BOM)

### 1. Summary Sheet

Sr. No.	Description	Qty	Nos	Total Price (INR)
A	Civil Work (Details as Per Sheet 1.0)	1	Lum	-
B	Architecture Work (Details as Per Sheet 2.0)	1	Lum	-
C	Plumbing and Sanitary fittings (Details as Per Sheet 3.0)	1	Lum	-
D	Total (A+ B+C+D) Inclusive of all Freight, Transportation, P&F + BOCW CESS other charges	3	Lum	-
E	Applicable GST on (D)	\\ Please fill the number	%	-
G	LANDED TOTAL COST Considering GST + All Taxes and Duties.			-

### 2. Civil Work

Sr. No.	Service Codes	Description	Qty	Nos	Unit Price (INR )	Total Price (INR)
A		<b>EARTHWORK</b>				
1	4135145	Excavation below existing Ground Level for foundations, drains, compound wall and underground tanks or any other structure within the OWNER#s Premises in ordinary earth, soft/weathered rock, which includes rock/boulders/slag/slate/laterite and gravel/ clay/ murrum of all kinds, rubble, concrete debris, scrap steel, clearing away vegetation trees of all girth, bushes, underground roots, stumps etc., including shoring, 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. Vendor has to submit shoring design for approval without any additional cost 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. <b>From existing ground level to a depth of 3 m</b>	2764	M3		

2	4135148	Excavation below existing Ground Level for foundations, drains, compound wall and underground tanks or any other structure within the OWNER#s Premises <b>in hard rock by ordinary chiselling</b> ; clearing away vegetation trees of all girth, bushes, underground roots, stumps etc., including shoring, 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. Vendor has to submit shoring design for approval without any additional cost 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	30	M3		
3	4135151	Excavation below existing Ground Level for foundations, drains, compound wall and underground tanks or any other structure within the OWNER#s Premises <b>in hard rock by mechanical chiselling</b> by pneumatic/hydraulic rock breaker; clearing away vegetation trees of all girth, bushes, underground roots, stumps etc., including shoring, 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. Vendor has to submit shoring design for approval without any additional cost 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	50	M3		
4	4097437	Providing and filling well graded excavated earth suitable for backfill including compacting in layers of 300mm with mechanical equipment's to achieve a proctor density of 95% etc., complete as directed by the Engineer.	633	M3		
5	4135155	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 murrum 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.	627	M3		
6	4135156	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 mollifiable 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)  <b>(Contractor to submit guarantee on Rs. 1000 stamp paper, guaranteeing against termite attack for a period of 5 years.)</b>	480	M2		

7	4135157	Dismantling and disposal of brick masonry at all levels and listing the scrap material as directed by the Engineer-in-Charge with all leads and lifts, etc. complete in all aspects as described and as directed by the Engineer-in-Charge. The rate quoted shall be inclusive of factors like MCGM disposal, Royalty & Collector's permission, stacking, spreading and backfilling, etc. (Contractor to take 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.)	50	M3		
8	4135158	Dismantling and disposal of plain concrete at all levels and listing the scrap material as directed by the Engineer-in-Charge with all leads and lifts, etc. complete in all aspects as described and as directed by the Engineer-in-Charge. The rate quoted shall be inclusive of factors like MCGM disposal, Royalty & Collector's permission, stacking, spreading and backfilling, etc. (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.)	20	M3		
9	4135159	Dismantling and disposal of reinforced cement concrete including reinforcement at all levels, listing the scrap material and returning the reinforcement steel to Owner's store at Dharavi/Tata Power store as directed by the Engineer-in-Charge with all leads and lifts, etc. complete in all aspects as described and as directed by the Engineer-in-Charge. The rate quoted shall be inclusive of factors like MCGM disposal, Royalty & Collector's permission, stacking, spreading and backfilling, etc. (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.)	50	M3		
10	4135160	Dismantling and disposal of structural steel, listing the scrap material and returning the structural steel to Owner's store at Dharavi/Tata Power store/Tata Power store as directed by the Engineer-in-Charge with all leads and lifts, etc. complete in all aspects as described and as directed by the Engineer-in-Charge. The rate quoted shall be inclusive of factors like MCGM disposal, Royalty & Collector's permission, stacking, etc. (Contractor to take 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.)	1	MT		
11	4135161	Dismantling and disposal of rubble masonry above ground and listing the scrap material as and returning to Owner's store at <b>Dharavi/Tata Power store</b> as directed by the Engineer-in-Charge with all leads and lifts, etc. complete in all aspects as described and as directed by the Engineer-in-Charge. The rate quoted shall be inclusive of factors like MCGM disposal, Royalty & Collector's permission, stacking, etc. (Contractor to take 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.)	50	M3		

12	4135162	Dismantling and disposal of rubble soiling/ wall/ foundation below ground and listing the scrap material as and returning to Owner's store at <b>Dharavi/Tata Power store</b> as directed by the Engineer-in-Charge with all leads and lifts, etc. complete in all aspects as described and as directed by the Engineer-in-Charge. The rate quoted shall be inclusive of factors like MCGM disposal, Royalty & Collector's permission, stacking, etc. (Contractor to take 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.)	50	M3		
13	4125115	Providing all labour tools and tackles for removing chain link fence and returning the scrap to stores as directed by EIC	10	M2		
<b>Sub Total (A)</b>						-
<b>B</b>	<b>CONCRETE AND ALLIED WORKS</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR)</b>	<b>Total Price (INR)</b>
14	4135164	Providing and laying Ready Mix Concrete of M15 Grade using 20 mm downgraded aggregates above ground for coping to plinth or parapet, transoms and mullions, for protection of dowel bars of slabs, beams, columns, etc. moulded or chamfered as per drawing or as directed by the Engineer-in-Charge including shuttering, formwork, vibrating, compacting, curing, etc. complete for all lifts and levels.	215	M3		
15	4135165	Providing and laying Ready Mix Concrete, M15 Grade using 20 mm downgraded aggregates below ground for blinding layer under R.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.	115	M3		
16		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, centring, shuttering, scaffolding, vibrating, compacting, curing, dewatering, levelling, cut-outs, 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):				
a	4135178	All foundations including bottom slabs of tunnels, trenches, Underground tanks, pile caps, grade slabs, etc.	397	M3		
b	4135179	RCC columns, pedestals, brackets, walls	454	M3		
c	4135180	RCC slabs, staircase steps, waist slabs, beams, lintels, chajjas, etc.	880	M3		
d	4135181	RCC sunshades, Architectural features like fins, pardi etc.	50	M3		
17	4135349	Providing and placing in position <b>plum concrete</b> 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.	10	M3		
18	4135182	Supplying, Providing and erecting in position pre-cast concrete trench cover units of specified sizes and thickness using reinforced cement concrete of grade M25 with 20 mm down graded coarse aggregates and peripheral flats of 3mm thick including form-work to give fair and smooth finish, casting, vibrating using surface vibrators, curing, storing, providing lifting arrangement, loading/ unloading, transporting, load testing etc. Complete as per specification and as directed by the Engineer.	150	M3		
19		Making holes/openings in brick wall (depth of hole not exceeding 450 mm) and finishing the same with plaster in CM 1:4 as directed by Engineer and at all locations and levels.				

a	4135343	Greater than 100 mm dia. But less than 300 mm dia. Or equivalent in area (with fire proofing brick).	20	No		
b	4135344	Greater than 300 mm dia. But less than 750 mm dia. Or equivalent in area (with fire proofing brick).	20	No		
20		Drilling and/or making holes/ openings in reinforced concrete of any grade (depth of hole not exceeding 500 mm) and finishing the same with plaster in CM 1:4 in slabs, beams, columns, foundations, etc. Of existing/ already cast structures as directed by Engineer at all locations and levels.				
a	4135345	Greater than 50 mm dia. But less than 100 mm dia.	10	No		
b	4135346	Greater than 100 mm dia. But less than 300 mm dia.	10	No		
21		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.				
a	4135347	Grout having a minimum strength of 30 N / mm <sup>2</sup>	5	m <sup>3</sup>		
b	4135348	Grout having a minimum strength of 45 N / mm <sup>2</sup>	5	m <sup>3</sup>		
<b>Sub Total (B)</b>						-
<b>C</b>	<b>STEEL WORKS</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR )</b>	<b>Total Price (INR)</b>
22	4135350	"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 ( <b>No payment will be made for stepper bar, layer pin, chair, tie rods and other supports, binding wires, laps</b> ) <b>a) For HYSD bars conforming to grade Fe 500D of IS 1786"</b>	248	MT		
23	4135352	Providing structural steel work in rolled / built up 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 phosphate primer (One shop coat and one site coat & Paint DFT as per FQP) 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.	235	MT		
24	4135353	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.	20	MT		
25	4135356	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.	150	M <sup>2</sup>		
26	4135357	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.	3	MT		

27		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.'				
a	4135358	10 dia	10	Nos		
b	4135359	12 dia	10	Nos		
c	4135360	16 dia	10	Nos		
d		20 dia	20	Nos		
e		24 dia	20	Nos		
28	4135361	Supplying, laying and fixing of 0.55mm thick coloured galvalume sheeting system for roofing including all accessories such as ridge pieces, eaves, barge boards, expansion joint pieces, corner pieces, apron pieces, gutter, etc. with galvanised steel fasteners/bolts (of self-tapping type), seam, bolts and nuts, 8 mm dia. GI Limpet washers and bitumen washers, etc. complete including cutting to shape and size required including necessary sealants, taping, flashing, etc. complete as per design and specifications & colour as approved by Engineer-in-Charge, as specified on drawings at all locations and 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).	1600	M2		
29	4135362	Supplying, laying and fixing of 0.55mm thick coloured galvalume sheeting system for or Vertical and inclined side sheeting / Cladding. including all accessories such as ridge pieces, eaves, barge boards, expansion joint pieces, corner pieces, apron pieces, gutter, etc. with galvanised steel fasteners/bolts (of self-tapping type), seam, bolts and nuts, 8 mm dia. GI Limpet washers and bitumen washers, etc. complete including cutting to shape and size required including necessary sealants, taping, flashing, etc. complete as per design and specifications & colour as approved by Engineer-in-Charge, as specified on drawings at all locations and 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).	5	M2		
30	4302379	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).	1,260.00	M2		
31	4302522	Providing & Fixing of Edge angle of primary manufacturer ( TATA , JSW etc) as directed and approved by Tata Power Engineer in-charge.	1,260.00	M		
32	4302521	Providing & Fixing of MS studs ( 100m Length 19mm dia) with all required tool tackles , Welding , transportation as directed by TATA Power Engineer in charge.	2520	Nos		
33	4212105	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.	1122	M2		
34	4212164	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	500	M		
<b>Sub Total (C)</b>						-
<b>D</b>	<b>Roads</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR )</b>	<b>Total Price (INR)</b>

35	4137388	<p><b>Excavation in roads</b> Excavation in ordinary earth, soft &amp; 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 &amp; 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.)</p>	50	M3		
36	4135431	Providing, laying, spreading and compacting specified <b>Granular Sub-Base</b> 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).	50	M3		
37	4135432	Providing, laying, spreading & compacting specified graded stone aggregates to <b>wet mix macadam</b> 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.	50	M3		
38	4135433	Providing and applying <b>prime coat</b> 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	100	M2		
39	4135434	Providing and applying <b>tack coat</b> using bitumen emulsion conforming to IS 8887 on the prepared surface complete in all respect as per MORTH (IV R) Clause 503.	100	M2		
40	4135435	Providing & Laying <b>Dense Bituminous Macadam (DBM)</b> 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,	30	M3		
41	4135436	Providing and laying open graded <b>Bituminous Concrete or Asphalt concrete</b> of 30mm or 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.	10	M3		
<b>Sub Total (D)</b>						-
<b>E</b>	<b>MISCELLANEOUS WORKS</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR )</b>	<b>Total Price (INR)</b>

42	4135421	Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting in 1:4 C.M, including plugging of both the ends with gunny bags, brick masonry in C.M 1:4 with plaster in C.M. 1:4 and curing, etc. complete as specified and as directed by Engineer-in-Charge. (All the pipes supplied shall confirm to relevant IS codes. The Contractor shall also arrange to get the pipes tested in accordance with tests specified in IS 3597:1985 at Contractor's cost and as directed. Testing shall be carried out in presence of Engineer-in-Charge. Laying of pipes shall be carried out as per IS 783 including all leads and lifts, etc. complete as directed by Engineer-in-Charge. 150 mm dia	10	M		
43	4135422	"Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting in 1:4 C.M, including plugging of both the ends with gunny bags, brick masonry in C.M 1:4 with plaster in C.M. 1:4 and curing, etc. complete as specified and as directed by Engineer-in-Charge. (All the pipes supplied shall confirm to relevant IS codes. The Contractor shall also arrange to get the pipes tested in accordance with tests specified in IS 3597:1985 at Contractor's cost and as directed. Testing shall be carried out in presence of Engineer-in-Charge. Laying of pipes shall be carried out as per IS 783 including all leads and lifts, etc. complete as directed by Engineer-in-Charge. 250 mm dia"	25	M		
44	4135423	"Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting in 1:4 C.M, including plugging of both the ends with gunny bags, brick masonry in C.M 1:4 with plaster in C.M. 1:4 and curing, etc. complete as specified and as directed by Engineer-in-Charge. (All the pipes supplied shall confirm to relevant IS codes. The Contractor shall also arrange to get the pipes tested in accordance with tests specified in IS 3597:1985 at Contractor's cost and as directed. Testing shall be carried out in presence of Engineer-in-Charge. Laying of pipes shall be carried out as per IS 783 including all leads and lifts, etc. complete as directed by Engineer-in-Charge. 300 mm dia"	15	M		
45	4135424	"Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting in 1:4 C.M, including plugging of both the ends with gunny bags, brick masonry in C.M 1:4 with plaster in C.M. 1:4 and curing, etc. complete as specified and as directed by Engineer-in-Charge. (All the pipes supplied shall confirm to relevant IS codes. The Contractor shall also arrange to get the pipes tested in accordance with tests specified in IS 3597:1985 at Contractor's cost and as directed. Testing shall be carried out in presence of Engineer-in-Charge. Laying of pipes shall be carried out as per IS 783 including all leads and lifts, etc. complete as directed by Engineer-in-Charge. 450 mm dia"	25	M		
46	4135425	"Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting in 1:4 C.M, including plugging of both the ends with gunny bags, brick masonry in C.M 1:4 with plaster in C.M. 1:4 and curing, etc. complete as specified and as directed by Engineer-in-Charge. (All the pipes supplied shall confirm to relevant IS codes. The Contractor shall also arrange to get the pipes tested in accordance with tests specified in IS 3597:1985 at Contractor's cost and as directed. Testing shall be carried out in presence of Engineer-in-Charge. Laying of pipes shall be carried out as per IS 783 including all leads and lifts, etc. complete as directed by Engineer-in-Charge. 600 mm dia"	25	M		
47	4135426	"Providing and laying RCC NP2 class Hume pipe with collar joint including jointing and filleting in 1:4 C.M, including plugging of both the ends with gunny bags, brick masonry in C.M 1:4 with plaster in C.M. 1:4 and curing, etc. complete as specified and as directed by Engineer-in-Charge. (All the pipes supplied shall confirm to relevant IS codes. The Contractor shall also arrange to get the pipes tested in accordance with tests specified in IS 3597:1985 at Contractor's cost and as directed. Testing shall be carried out in presence of Engineer-in-Charge. Laying of pipes shall be carried out as per IS 783 including all leads and lifts, etc. complete as directed by Engineer-in-Charge. 900 mm dia"	10	M		

48	4135443	Providing, Supplying, placing, aligning, fixing and testing in position high density polyethylene pipes of approved manufacture conforming to Series II of IS:4984 with all types of fittings (readymade or fabricated) including jointing using butt welding etc complete with a working pressure of 6 kg/cm2 for the following diameters at locations as indicated on drawings: (Excavation and backfilling shall be paid under relevant item). OD 110 mm	5	M		
49	4135444	"Providing, Supplying, placing, aligning, fixing and testing in position high density polyethylene pipes of approved manufacture conforming to Series II of IS:4984 with all types of fittings (readymade or fabricated) including jointing using butt welding etc complete with a working pressure of 6 kg/cm2 for the following diameters at locations as indicated on drawings: (Excavation and backfilling shall be paid under relevant item). OD 160 mm"	15	M		
50	4135445	"Providing, Supplying, placing, aligning, fixing and testing in position high density polyethylene pipes of approved manufacture conforming to Series II of IS:4984 with all types of fittings (readymade or fabricated) including jointing using butt welding etc complete with a working pressure of 6 kg/cm2 for the following diameters at locations as indicated on drawings: (Excavation and backfilling shall be paid under relevant item). OD 200 mm"	15	M		
51	4135446	"Providing, Supplying, placing, aligning, fixing and testing in position high density polyethylene pipes of approved manufacture conforming to Series II of IS:4984 with all types of fittings (readymade or fabricated) including jointing using butt welding etc complete with a working pressure of 6 kg/cm2 for the following diameters at locations as indicated on drawings: (Excavation and backfilling shall be paid under relevant item). OD 250 mm"	5	M		
52	4064209	SERVICE TYPE: PROVIDING AND FIXING OF PIPE, MATERIAL: PVC, DIAMETER: 100 MM, PLUMBING SERVICES INCLUDING ALL REQUIRED TOOLS, TACKLES, MATERIALS AND FIXURES, INCLUDING LOADING, UNLOADING AND TRANSPORTATION UP TO SITE FOR REMOVING AND REPLACING/LAYING ETC.COMplete AS DIRECTED FOR FOLLOWING ITEMS	100	M		
53	4207435	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	264	M		
54	4085730	P/F galvalume ridges: - supplying laying and fixing galvalume ridges matching with HISPAN or HISTREN profile sheets thickness 0.50 mm (steel 550 MPa) as per relevant IS specifications/ manufacturer recommendations of "CRIL" or approved equivalent make including supplying and fixing approved make fasteners, washers, labour services, scaffolding as required etc. complete as directed.	80	RM		
55		AQI sensor machine with Digital Display Supply Installation & Commissioning of Sensor Based Air Quality Monitoring System with Cloud Access & public display Strip 4ft(L)x3ft(H) (1220mmX915 mm)(P6 Muti Colour ) LED display with RS485 and WIFI data transfer integration. AQBot PM ( PM1, Pm2.5, PM10, PM100), Ebvizom -Cloud -Overview Dash board -Device management User Management as per KDMC/BMC norms for Pollution Control.	1	Nos		
56		Supply Installation & Commissioning Mist Spray Machine	1	Nos		-
<b>Sub Total (E)</b>						-

Total (A + B+C+ D + E )

Inclusive of all Freight , Transportation , P&F and BOCW Cess other charges

-

### 3. Architecture Work

Sr. No.	Service Codes	Description	Qty	UOM	Unit Price per UOM (INR )	Total Price (INR)
A	<b>MASONARY, PLASTER, WATER PROOFING AND ALLIED WORK</b>					
1	4135902	Providing <b>Brick Masonry, 230 mm thick</b> and above, in cement mortar 1:5 (1 cement: 5 coarse sand) using best quality locally available first class kiln bricks having crushing strength of 35 Kg/sqcm and water absorption not more than 20%, at all levels in <b>foundation, plinth and steps</b> including dewatering, scaffolding, raking of joints, curing, etc. complete.	15	M3		
2	4135903	Providing <b>Flyash Block Masonry</b> (Charbhuj Infrastructure make or equivalent make), <b>190 mm thick</b> and above in cement mortar 1:5 (1 cement: 5 coarse sand) using best quality locally available flyash blocks having crushing strength of 50 Kg/sqcm and water absorption not more than 10%, at all levels in foundation, plinth and steps including dewatering, scaffolding, raking of joints, curing, etc. complete.	15	M3		
3	4135904	Providing Brick Masonry, 230 mm thick and above, in cement mortar 1:5 (1 cement: 5 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%, <b>in superstructure for walls, parapets, etc.</b> , at all levels and locations, including scaffolding, curing, raking of joints, providing RCC transoms and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transoms and mullions shall be paid separately in respective items)	224	M3		
4	4135905	Providing <b>Flyash Block Masonry</b> (Charbhuj Infrastructure make or equivalent make), <b>190 mm thick</b> and above in cement mortar 1:5 (1 cement: 5 coarse sand) using best quality locally available flyash blocks having crushing strength of 50 Kg/sqcm and water absorption not more than 10%, in superstructure for walls, parapets, etc., at all levels, including scaffolding, curing, raking of joints, providing RCC transoms and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transoms and mullions shall be paid separately in respective items)	224	M3		
5	4135906	Providing Brick Masonry 115 mm thick in cement mortar 1:4 (1 cement : 4 coarse sand) using best quality locally available first class kiln bricks having crushing strength of 35 Kg/sqcm and water absorption not more than 20%, in superstructure for walls, parapets, etc., at all levels including scaffolding, curing, raking of joints, providing RCC transoms and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transoms and mullions shall be paid separately in respective items)	34	M2		
6	4135907	Providing Block Masonry (Charbhuj Infrastructure make or equivalent make) 110 mm thick in cement mortar 1:4 (1 cement : 4 coarse sand) using best quality locally available first class kiln blocks having crushing strength of 50 Kg/sqcm and water absorption not more than 10%, in superstructure for walls, parapets, etc., at all levels including scaffolding, curing, raking of joints, providing RCC transoms and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transoms and mullions shall be paid separately in respective items)	20	M2		

7		Providing and laying <b>integral cement-based water proofing</b> treatment with China Mosaic finish including preparation of surface as required for treatment of roofs, balconies, terraces, RC gutters, etc. consisting of following operations.	25	M2		
8		(a) Applying and grouting a slurry coat of neat cement using 2.75 kg/m <sup>2</sup> of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface before treatment.				
9		(b) Laying cement concrete using broken bricks/brick bats 25 mm to 100 mm size 50% of cement mortar 1:5 (1 cement:5 coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645 to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slabs.				
10		(c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS: 2645.				
11	4135910	(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement 4 coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 mm x 300 mm square where required or preparing the surface to receive tiles on it with Drip mould in cement mortar at the junction of plaster and parapet.				
12		(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. .				
13		(f) Finally finishing top with fixing assorted pieces of glazed tiles on a layer of neat cement grout 10 mm thk, properly tamping to the required grade including curing, cleaning with dilute acid, etc. complete.				
14		(g) All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.				
15		(h) With average thickness of 150 mm and minimum thickness at Khurra as 75 mm.				
16	4135911	<p>Providing and laying <b>integral cement based water proofing</b> treatment with 50mm thick IPS finish including preparation of surface as required for treatment of roofs, balconies, terraces, RC gutters, etc. consisting of following operations.</p> <p>(a) Applying and grouting a slurry coat of neat cement using 2.75 kg/m<sup>2</sup> of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface before treatment.</p> <p>(b) Laying cement concrete using broken bricks/brick bats 25 mm to 100 mm size 50% of cement mortar 1:5 (1 cement:5 coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p> <p>(c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS: 2645.</p> <p>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement 4 coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 mm x 300 mm square where required or preparing the surface to receive tiles on it with Drip mould in cement mortar at the junction of plaster and parapet.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.</p>	450	M2		

		(f) Finally finishing top with fixing assorted pieces of glazed tiles on a layer of neat cement grout 10 mm thk, properly tamping to the required grade including curing, cleaning with dilute acid, etc. complete. (g) All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-. (h) With average thickness of 150 mm and minimum thickness at Khurra as 75 mm.				
a		Providing and laying <b>water proofing treatment in sunken portion of WCs, bathrooms, etc.</b> , by applying cement slurry mixed with Armour Crete of M/s The Structural Water Proofing Company Pvt. Ltd. or Tape Crete of M/s. CICO Engg. Service or approved equivalent consisting of applying :	25	M2		
b	4135912	(a) First layer of slurry of cement @0.488 kg/sqm mixed with Armour Crete or Tape Crete @ 0.253 kg/sqm. This layer shall be allowed to air cure for 4 hours.				
c		(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with Armour Crete or Tape Crete @ 0.126 kg/sqm. This layer shall be allowed to air cure for 4 hours followed with water curing for 48 hours.				
d		(c) All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.				
17		The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.				
18	4135913	Providing and laying <b>brickbat coba in sunken portion of WCs, bathrooms, etc.</b> , 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 (one part of lime 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 <sup>2</sup> of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface before treatment, necessary watering, ramming, etc. all complete (Rate shall include wattas, finishing, etc.) (Thk/Depth upto 250mm.). All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.	25	M2		
19	4146005	P/A Crystalline water proofing system Supplying all materials, adding crystalline water proofing system for concrete works applicable for RCC raft, side walls of basement, cable trenches, tunnels, underground tanks, over head tanks, roof slabs, etc as per manufacturer's guidelines. Contractor to provide a leak proof warranty for a period of minimum 10 years for all the concrete waterproofing works covered under this item. (Note: Concrete will be paid as per RCC Items of BOQ issued with PO. This item is only for adding crystalline waterproofing compound)	396	KG		
20	4135915	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, 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.	1833	M2		

21	4135916	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) on all types of external surfaces using coarse, clean sand including surface preparation, curing both the coats, bends, grooves, drip moulds and all scaffolding, curing, 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.	800	M2		
<b>Sub Total (A)</b>			-			
<b>B</b>	<b>FLOORING, DADO</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price per UOM (INR )</b>	<b>Total Price (INR)</b>
22	4135919	Providing and laying 50 mm thick heavy duty Ironite floor finish of 1mx1m panel size with Ironite hardener topping, under layer of 38 mm thick cement concrete of grade M25 and top layer of 12 mm thick metallic concrete of mix 1:2 (1 cement hardener mix : 2 stone aggregate 6 mm nominal size) by volume with metallic hardening compound of approved quality mixed as per manufacturer's recommendation including cement slurry, side shuttering, rounding off edges and glass strips of 50mm height x 5mm thick in required panels, etc. complete.	10	M2		
23	4135918	Providing and laying 50 mm thick heavy duty Ironite floor finish of 1mx1m panel size with Ironite hardener topping, under layer of 38 mm thick cement concrete of grade M25 and the top 5 mm thickness shall be Heavy duty chemical and abrasion resistant epoxy resin floor screed Nito floor TF 30 topped with Nito floor FC 150, manufactured by M/S Fosroc or its approved equivalent for operating floor including all connected works as per manufacturer recommendations	1050	M2		
24	4206151	CISE, Providing supplying and application of dielectric flooring of 2mm thick including surface preparation, repairing to construction joint, crack sealing , pothole ceiling , etc. of minimum current resistance of 45kva as per BDV Requirement.	2250	M2		
25	4135920	Providing and laying <b>ordinary polish Kota</b> of approved quality minimum 25 mm thick 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 pigment to match shade of kota stone, curing, rubbing, machine polishing and cleaning complete at all levels.(Size shall not be less than 600 mm x 600 mm) in floors.	20	M2		
26	4135921	Providing and laying in required position <b>dado or skirting or risers of kota</b> of quality and colour as approved by Owner having a minimum thickness of 25 mm on 12 mm (average) thick, 1:3 cement mortar ( 1 cement : 3 course sand) bedding including filling joints with neat cement slurry mixed with matching colour pigment, curing, rubbing, hand polishing and cleaning complete at all levels.	15	M2		
27	4135922	Providing and laying <b>granite</b> 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.	20	M2		
28	4135923	Providing and laying in required position <b>dado or skirting of granite</b> of quality and colour as approved by Owner having a minimum thickness of 20 mm on 12 mm (average) thick, 1:3 cement mortar ( 1 cement : 3 course sand) bedding including filling joints with neat cement slurry mixed with matching colour	20	M		

		pigment, curing, rubbing, hand polishing and cleaning complete at all levels.				
29	4135924	Providing and laying polished <b>granite</b> of colour as approved by Owner having a minimum thickness of 20 mm in <b>treads</b> 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.	400	M2		
30	4135925	Providing and laying polished <b>kota</b> of colour as approved by Owner having a minimum thickness of 20 mm in <b>treads</b> 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.	10	M2		
31	4135926	Providing and laying 10 mm thick <b>Acid Alkali resistant Tile</b> of Johnson Endura ivory approved by owner Ivory colour using acid resistant mortar bedding and joints filled with acid resistant cement as per IS : 4457 on mortar 1:4 (1 appropriate cement : 4 course sand ) bedding to give an overall thickness of 50 mm including, curing and cleaning complete at all levels.	150	M2		
32	4135927	Providing and laying 10 mm thick <b>Acid Alkali resistant Tile Dado</b> of Johnson Endura ivory make approved by owner, Ivory colour using acid resistant mortar bedding and joints filled with acid resistant cement as per IS : 4457 on 12 mm thick mortar 1:4 (1 appropriate cement : 4 course sand ) bedding including, curing and cleaning complete at all levels.	155	M2		
33		Providing and fixing 600 mm x 600 mm x 12 mm thick Vitrified tiles of Nitco Cosmic Ultra Charge or equivalent / Kajaria / Johnson approved quality and shade in flooring and skirting, on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.				
a	4135934	for 300x300	1	M2		
b	4135935	For 600x600	754	M2		
34		Providing and fixing 10 mm thick <b>Ceramic Glossy finish</b> tiles of Nitco / Kajaria alps blanco/ Sand Stone Blanco/ Johnson flutes jutes/ Serbia Copper/ Radiant Brown or equivalent approved quality and shade <b>in dado</b> on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.		M2		
a	4310548	for 600x600	5	M2		
b	4135931	for 450x300	1	M2		
c	4135932	for300x600	1	M2		
35		Providing and fixing 10 mm thick Glazed vitrified tiles for dado of Nitco / Kajaria alps blanco/ Sand Stone Blanco/ Johnson flutes jutes/ Serbia Copper/ Radiant Brown or equivalent approved quality and shade in dado on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.				
a	4310618	for 600x600	50	M2		
b	4310617	for 450x300	1	M2		
c	4310620	for300x600	1	M2		
36	4135936	Providing and laying for flooring, <b>Antiskid Vitrified Tile</b> 600 mm x 600 mm x 12 mm thick of Nitco / Kajaria approved quality and shade in required position on 20 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.	15	M2		

37	4135937	<p>"Providing and fixing Anti static <b>false flooring 300 mm high</b> with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of:</p> <p>a) pedestal supports made of 25 od, 1.5 mm thk MS seamless pipe welded vertically at the centre of 100 x 100 x 3 mm thick die pressed MS base plate with hard PVC bushing on top free end.</p> <p>b) Jack heads made of pressure die cast, galvanised, square , 2 mm the MS sheet, with 4 Nos 2 x 10 mm die cut notches, 90 degrees apart, to hold the stringers. And with a centrally welded M16 x100 mm stud with nut for level adjustment up to +/- 25 mm.</p> <p>c) 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.</p> <p>d) Truly levelled and aligned removable composite floor panels of 610 x 610 x 31 mm made of 1.5 mm thick MS die formed bottom tray, 1.5 mm thick top plate with cavity filled with specially designed light weight concrete.</p> <p>e) The top surface shall be finished with non combustible high pressure laminate antistatic tiles conforming to BS-2050 of 1998 table III</p> <p>Including making steps including treads and risers or ramp, making openings/ cutouts, levelling, cutting, drilling, cleaning, etc. complete.</p> <p>same as above but 600 high"</p>	25	M2		
38	4135938	<p>"Providing and fixing Anti static <b>false flooring 600 mm high</b> with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of:</p> <p>a) pedestal supports made of 25 od, 1.5 mm thk MS seamless pipe welded vertically at the centre of 100 x 100 x 3 mm thick die pressed MS base plate with hard PVC bushing on top free end.</p> <p>b) Jack heads made of pressure die cast, galvanised, square , 2 mm the MS sheet, with 4 Nos 2 x 10 mm die cut notches, 90 degrees apart, to hold the stringers. And with a centrally welded M16 x100 mm stud with nut for level adjustment up to +/- 25 mm.</p> <p>c) 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.</p> <p>d) Truly levelled and aligned removable composite floor panels of 610 x 610 x 31 mm made of 1.5 mm thick MS die formed bottom tray, 1.5 mm thick top plate with cavity filled with specially designed light weight concrete.</p> <p>e) The top surface shall be finished with non combustible high pressure laminate antistatic tiles conforming to BS-2050 of 1998 table III</p> <p>Including making steps including treads and risers or ramp, making openings/ cutouts, levelling, cutting, drilling, cleaning, etc. complete.</p> <p>same as above but 600 high"</p>	365	M2		
39	4135940	<p>Providing and laying 60mm thick precast concrete <b>Paver Blocks</b> having compressive strength not less than 30N/mm<sup>2</sup> of approved, make, pattern, colour, over a layer of sand with necessary compaction etc complete at the locations shown in drawings including concrete kerbing wherever required all executed as per relevant IRC specifications &amp; IS:15658 and directions of the Engineer</p>	380	M2		
40	4135941	<p>Providing and laying 60mm thick precast <b>GRASS PAVERS</b> blocks having compressive strength not less than 30N/mm<sup>2</sup> of approved, make, pattern, colour, over a layer of sand with necessary compaction etc complete at the locations shown in drawings including concrete kerbing wherever required all executed as per relevant IRC specifications &amp; IS:15658 and directions of the Engineer</p>	210	M2		
<b>Sub Total (B)</b>					-	

C	FINISHES, PAINTING		Qty	UOM	Unit Price (INR )	Total Price (INR)
41	4135942	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. 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.	1170	M2		
42	4135943	Providing and applying <b>Cement Based Birla White Putty</b> 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.	1170	M2		
43	4243902	Providing & applying one coat of Dura life base coat/or equivalent followed by two top coats of ULTIMA PROTEK of Asian paints/or equivalent on all exterior surfaces at all levels, including Cleaning of surface with jet cleaning machine(Bio wash), Opening the Cracks in v groove shape, Filling up the cracks with Crack seal Compound, curing, all scaffolding , etc., complete as per manufacturer's specifications and as directed by the Engineer in-charge. Vendor to submit Paints waterproofing warranty for 10 years and paint performance warranty for 10 years from Asian Paints.	585	M2		
44	4135946	Providing and applying two coats of first quality <b>Acrylic Washable Internal Paint</b> of approved colour and shade over one coat of primer, including scaffolding, preparing the surface to receive the primer and finishing coats complete.	1700	M2		
45	4135947	Providing and applying two coats of first quality <b>Oil Bound Distemper</b> 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.	761	M2		
46	4135948	Providing and applying 2 or more coats of <b>acid/alkali resistant chlorinated rubber paint</b> of Asian or equivalent and of approved colour to walls and ceiling of battery room. Including preparation of surface to receive paint, providing and applying bitumen primer confirming to IS 158 complete all as per manufacturer's recommendations and as approved by ENGINEER, complete as per specifications.	371	M2		
47	4135949	Providing and fixing 15 mm thick <b>black granite on window sill</b> 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.	45	M		
48	4135950	Providing and fixing 15 mm thick black granite on all four sides opening in step fashion 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.	20	M		
<b>Sub Total (C)</b>			-			
D	DOORS, WINDOWS AND PARTITION		Qty	UOM	Unit Price (INR )	Total Price (INR)

49	4136579	Providing and fixing <b>aluminium work for partitions Fully glazed with min 6 mm thick with toughened sheet glass</b> with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, with <b>50 microns thk. powder coated</b> fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer.	5	M2		
50	4310619	Providing and fixing aluminium work for partitions Fully glazed with min 6 mm thick with toughened sheet glass transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15) with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, with anodised coated fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer.	5	M2		
51	4135957	Providing and fixing Anodized aluminium work for windows with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, colour glass of st gobain or equivalent all complete as per architectural drawings and the directions of Engineer. i) Operable	55	M2		
52	4135958	"Providing and fixing Anodized aluminium work for windows with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, colour glass of st gobain or equivalent all complete as per architectural drawings and the directions of Engineer. ii) Sliding"	1	M2		
53	4135959	"Providing and fixing Anodized aluminium work for windows with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with	10	M2		

		expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, colour glass of st gobain or equivalent all complete as per architectural drawings and the directions of Engineer. iii) Fixed"				
54	4136574	Providing and fixing Anodized aluminium work for windows with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, colour glass of st gobain or equivalent all complete as per architectural drawings and the directions of Engineer.  Same as above but with 50 microns thk. powder coated  i) Operable	1	M2		
55	4136575	"Providing and fixing Anodized aluminium work for windows with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, colour glass of st gobain or equivalent all complete as per architectural drawings and the directions of Engineer. Same as above but with 50 microns thk. powder coated ii) Sliding"	1	M2		
56	4136576	"Providing and fixing Anodized aluminium work for windows with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C P brass/ stainless steel screws, colour glass of st gobain or equivalent all complete as per architectural drawings and the directions of Engineer. Same as above but with 50 microns thk. powder coated iii) Fixed"	1	M2		

57	4136577	Providing and fixing <b>Anodized aluminium work for ventilators</b> with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, with figured glass louvers C P brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer.	5	M2		
58	4136578	Providing and fixing with 50 microns thk. powder coated aluminium work for ventilators with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including filling the gaps between opening and aluminium frame with silicon sealant or poly-sulphide sealant as directed, necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ Neoprene felt, with toughened glass, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, with figured glass louvers C P brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer.	1	M2		
59	4136583	Providing and fixing <b>Z Louvers</b> in Plain Panel of approved colour consisting of panel 0.6mm thick with round edges panel length up to 6mtrs coil coated on a continuous paint line double baked and roll formed from enamelled corrosion Resistance Aluminium Alloy AA3005 (Al.Mg.) for higher strength and good Roll forming characteristics. Panels shall be clipped at a distance of 86 mm to baked enamelled Aluminium panel stringer 33mm wide and 86mm deep x 0.95 mm thick in a standard length of 5mtrs made of double baked enamelled Aluminium Alloy AA5050 (Al.Mg.) white to hold the panel in a module of 86mm centre to centre. The prongs on stringers shall be to accommodate an angle of 21.30 Degrees between two panels. stringers shall be fixed at 150 mm from panel ends and at a distance of maximum 900 mm centre to centre across the panel span. The carrier shall be fixed to a suitable structure by means of rigid fixing details. All properties and specifications shall comply with ECCA directives and more specifically EN 1396:1996	20	M2		
60	4136584	Providing and fixing double action heavy duty <b>hydraulic floor spring</b> of approved brand and manufacture IS:6315 marked, Hardwyn / Everite make or approved equivalent for doors including cost of cutting floors as required, embedding in floors and stainless-steel cover plates with brass pivot and single piece M S Sheet outer box with slide plate, etc. complete as per the direction of Engineer.	5	Nos		
61	4136585	Providing and fixing Electrically 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. Provision of wicket gate shall be paid under separate item, in that case area of wicket gate shall be deducted from this item for payment.	15	M2		

62	4136586	<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. Provision of wicket gate shall be paid under separate item, in that case area of wicket gate shall be deducted from this item for payment.</p>	15	M2		
63	4136587	<p><b>P/F hollow metal pressed door 25x25x3</b>  Providing and fixing hollow metal pressed section door made up of MS door frame, 150 x 65 x 1.25mm thick with single rebet, MS pad plates welded at all hinge and lock locations, MS frame spacers at 600 centre to centre, base ties 2 numbers, 25 x 25 x 3 mm MS angle, MS holdfast 300 x 25 x 6 mm at maximum 600mm centre to centre ( minimum 6 Nos), Neoprene bushings glued to frame with synthetic adhesive and shutter 45 mm thick flush welded fabricated with 2 outer skins of 1.25 mm thick MS sheet, 1mm thick steel sheet stiffeners at 500mm centre to centre, 6mm thick MS flat along perimeter of shutter including 150 mm long heavy duty MS hinges at maximum 600 mm centre to centre ( minimum 3 Nos for each shutter, iron oxidised 200 long tower bolt for each shutter, 300 long door handles- 2 Nos for each shutter, spring loaded door stopper for each shutter, concealed type lever lock with handle including one coat of red oxide primer and 2 coats of synthetic enamel paint, filling the hollows of door frame with CM 1:6, etc. complete for all lifts.  For single shutter Same as above but for double shutter with 25 x 25 x 3 mm angle welded to one shutter for beading at meeting point."</p>	15	M2		
64	4136588	<p><b>P/Fhollow metal pressed door 25x45x3"</b>  Providing and fixing hollow metal pressed section door made up of MS door frame, 150 x 65 x 1.25mm thick with single rebet, MS pad plates welded at all hinge and lock locations, MS frame spacers at 600 centre to centre, base ties 2 numbers, 25 x 25 x 3 mm MS angle, MS holdfast 300 x 25 x 6 mm at maximum 600mm centre to centre ( minimum 6 Nos), Neoprene bushings glued to frame with synthetic adhesive and shutter 45 mm thick flush welded fabricated with 2 outer skins of 1.25 mm thick MS sheet, 1mm thick steel sheet stiffeners at 500mm centre to centre, 6mm thick MS flat along perimeter of shutter including 150 mm long heavy duty MS hinges at maximum 600 mm centre to centre ( minimum 3 Nos for each shutter, iron oxidised 200 long tower bolt for each shutter, 300 long door handles- 2 Nos for each shutter, spring loaded door stopper for each shutter, concealed type lever lock with handle including one coat of red oxide primer and 2 coats of synthetic enamel paint, filling the hollows of door frame with CM 1:6, etc. complete for all lifts.  For single shutter Same as above but for double shutter with 25 x 45 x 3 mm angle welded to one shutter for beading at meeting point."</p>	15	M2		
65	4136589	<p>Providing &amp; fixing factory made 2 hour rated fire doors by Shakti Met-Dor / Ahura Mazda or approved equivalent single &amp; double shutter, the door frames will be built into brick or block walls using corrugated TEE anchors not welded to the frames (first fix). Frames may also be fixed on plastered openings with the help of Anchor Fasteners (second fix). Door frames must be supplied to knockdown form with butt joints for bolted assembly at site. Door leaves will be 46mm thk. fully flush, double skin door shell with Lock Seam joints at style edges. In-fill to give the required rigidity and effective acoustics &amp; thermal insulation. Vision glass will be provided in circular / square/ rectangular shape. Stainless steel ball bearing butt hinges 3mm thk. fixed flush to the frame &amp; shutter. Mortise sash lock : OZML-DL1-SS-55 with SS lever handles :make Zone : Model OMH - 11L, Over head door closer - Model : NSK - 6825 ,mortise dead bolt, mortise latch, panic</p>	50	M2		

		deviceetc. to be provided as required. Concealed extended lever action flush bolts to be provided on top of the door to the leading style. The rate shall include all the necessary hardware, vision glasses, adhesive tapes & silicon sealant complete as described above.				
66	4136590	Providing and fixing <b>solid core flush door with TW frame</b> in Single / Double leaf 38 mm thk. Marine type of exterior grade as per detailed drawings, approved marine plywood facing on both sides without glazing and venetians, all necessary 12 x 18 mm teak wood beading / moulding and 6 x 35 mm T.W. lipping, C.P. ,Brass and S.S. Hinges, fixtures and fastenings, door handles, door locks and laminate finish to the satisfaction of Architect. Laminate shall be 1mm thick on both sides of make Signature, Greenlam, Century or equivalent.	5	M2		
		Providing and fixing 22G aluminium sheets as kick-plate for doors.				
		Providing and fixing 2mm thick /approved quality rubber sealing strip, around doors and windows for making them airtight as per specifications and drawings.				
		Providing and fixing approved quality hydraulic door closer conforming to IS:3564 as per drawings and as directed by the Engineer.				
67	4199143	Providing and fixing <b>solid core flush door with Granite Frame</b> in Single / Double leaf 38 mm thk. Marine type of exterior grade as per detailed drawings, approved marine plywood facing on both sides without glazing and venetians, all necessary 12 x 18 mm teak wood beading / moulding and 6 x 35 mm T.W. lipping, C.P. ,Brass and S.S. Hinges, fixtures and fastenings, door handles, door locks and laminate finish to the satisfaction of Architect. Laminate shall be 1mm thick on both sides of make Signature, Greenlam, Century or equivalent.	5	M2		
		Providing and fixing 22G aluminium sheets as kick-plate for doors.				
		Providing and fixing 2mm thick /approved quality rubber sealing strip, around doors and windows for making them airtight as per specifications and drawings.				
		Providing and fixing approved quality hydraulic door closer conforming to IS:3564 as per drawings and as directed by the Engineer.				
66	4310615	Double / single shutter door same as above with 6 mm thick transparent toughened glass on top half portion with teakwood framework all-round and at centre for panelling.	1	M2		
67	4136595	Providing,Fabrication,Erection,Alignment,Welding,etc., of <b>stainless steel Railing for staircase/ ramp/ floors 1200 mm High</b> with AISI 304 SATIN Polished steel with with main 50mm dia SS pipe as main runner and 25mm dia pipe at 3 levels along the running length of the staircase and vertical supports in 35mm dia SS pipes @1200mm c/c, the pipe to be 1.5mm thick including stainless steel beading / stainless steel cleats / stainless steel fasteners, toe guard plate wherever specified; of grade SS:304,annealed ,pickled and polished to bright finish, in square / round shape, including all material, equipment, handling, transportation, cutting, bending, welding, fastening, preparation and checking of fabrication drawing, and getting the same approved, site fabrication,testing,etc.,all complete, as per specification,drawings,and instruction of the Engineer.	10	M		
68	4136596	Supplying, fabricating, transporting to site, loading, unloading etc. and erecting <b>S.S. pipe removable/fixd type 1200 mm High</b> with AISI 304 SATIN Polished steel with 50mm dia SS pipe as main runner and 25mm dia pipe at 3 levels along the running length, ss plate as toe guard with vertical pipes at maximum spacing of @1200mm c/c, the pipe to be 1.5mm thick, including stainless steel beading / stainless steel cleats / stainless steel fasteners, toe guard plate wherever specified; of grade SS:304,annealed ,pickled and polished to bright finish, in square / round shape, including all material, equipment, handling, transportation, cutting,	10	M		

		bending, welding, fastening, preparation and checking of fabrication drawing, and getting the same approved, site fabrication,testing etc.,all complete, as per specification,drawings,and instruction of the Engineer.				
69	4136597	Providing, fabricating and fixing in position <b>SS Hand Rail along walls</b> with SS Pipe 50 mm dia and min. 1.5mm thick wall with all necessary fitting as the main runner joined to 25mm dia SS pipe and vertical bracket 2mm thick held on to walls by means of fasteners base plates to be @ every 1000mm c/c etc. complete.	10	M		
70	4136682	Providing and fixing <b>2hr fire rated both sided Gypboard Partition</b> walls 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.	20	M2		
<b>Sub Total (D)</b>			-			
<b>E</b>	<b>False Ceiling</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR )</b>	<b>Total Price (INR)</b>
71	4136676	<b>MINERAL FIBRE grid FALSE CEILING</b> of Saint Gobain or equivalent (600x600mm grid). Bidder to provide adequate steel sections (Channels, I or T sections) and hanger supports to cater to the false ceiling loads. Standard sections as spelled out in Saint Gobain or equivalent manufacturer catalogue to be provided. OWNER would check the design and adequacy and has the right to reject if found inadequate.	767	M2		
71	4136677	<b>Metal tiles</b> (powder coated galvanized steel) grid <b>FALSE CEILING</b> of armstrong or equivalent (600x600mm grid). Bidder to provide adequate steel sections (Channels, I or T sections) and hanger supports to cater to the false ceiling loads. Standard sections as spelled out in armstrong or equivalent manufacturer catalogue to be provided. OWNER would check the design and adequacy and has the right to reject if found inadequate.	10	M2		
72	4136678	Providing all materials and fixing <b>monolithic Gypsum FALSE CEILING</b> of Saint Gobain or equivalent. Bidder to provide adequate steel sections (Channels, I or T sections) and hanger supports to cater to the false ceiling loads. Standard sections as spelled out in Saint Gobain or equivalent manufacturer catalogue to be provided. OWNER would check the design and adequacy and has the right to reject if found inadequate.	10	M2		
<b>Sub Total (E)</b>			-			
<b>Total (A + B+C+ D + E )</b>			-			
<b>Inclusive of all Freight , Transportation , P&amp;F and BOCW Cess other charges</b>			-			

#### 4. Plumbing and Sanitary fittings

Sr. No.	Service Codes	Description	Qty	UOM	Unit Price per UOM (INR )	Total Price (INR)
A		EXTERNAL DRAINAGE				

1	4135455	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).	12	Nos		
2	4135456	Construction of inspection chamber of internal dimension of 900x600mm upto depth of 1500mm outside plant area constituting of following items:-	3	Nos		
a		PCC foundation bed in M:15, 150 mm thick size 1100 x 1250 mm				
b		250 mm thick best quality approved brick masonry walls in CM 1:3.				
c		Internal walls plastered in CM 1:3 with water proofing compound				
a		External walls plastered in CM 1:3 with sponge finish				
b		Benching and channelling in PCC M:15 smooth				
c		C.C. M15 coping on top 150 mm thick.				
a		MCGM approved heavy duty 12.5tn load carrying capacity DI frame and cover of Class B 125				
b		75 mm wide filled (Vata) all round brick masonry and c.c. bed in CM 1:3.				
c		Making necessary inlet/outlet connections all complete.				
3	4135457	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).	1	Nos		
4	4135458	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.				
a		200mm dia.	1	Nos		
5	4135459	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.	2	M3		
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.				
a	4135460	200 mm dia.	10	M		
b	4135461	150 mm dia.	10	M		
<b>Sub Total (A)</b>						-

B	WATER SUPPLY PIPES AND FITTINGS (DOWN FEED SYSTEM)		Qty	UOM	Unit Price per UOM (INR)	Total Price (INR)
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 marmor 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.				
a	4135462	15mm dia	10	M		
b	4135463	20mm dia.	10	M		
c	4135464	25mm dia.	10	M		
d	4135465	32mm dia.	10	M		
e	4135466	40mm dia.	15	M		
f	4135467	50mm dia.	15	M		
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.				
a	4135468	20mm dia	5	M		
b	4135469	25mm dia	5	M		
c	4135470	32mm dia.	5	M		
d	4135471	40mm dia.	1	M		
e	4135472	50mm dia.	1	M		
9		Providing and fixing water meter of MCGM approved make (Leader/Capstone) 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)				
a	4135473	50mm dia. Chamber size: 900 x 600 x 600mm	1	Nos		
<b>Sub Total (B)</b>						-

C	VALVES		Qty	UOM	Unit Price (INR)	Total Price (INR)
10		Providing and fixing C.S. heavy approved make ball valves screwed type of the following diameters (20 Kg/cm2)				
a	4135474	50mm dia	1	Nos.		
b	4135475	40mm dia	1	Nos.		
c	4135476	32mm dia.	1	Nos.		
d	4135477	25mm dia.	1	Nos.		
e	4135478	20mm dia.	1	Nos.		
11		Providing and fixing ball cock heavy duty with copper float all complete.				
a	4135479	50mm dia.	1	No.		
b	4135480	40mm dia.	1	No.		
c	4135481	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.	4	Nos		
<b>Sub Total (C)</b>						-
D	WATER SUPPLY TRANSMISSION MAIN UPTO O.H. TANK		Qty	UOM	Unit Price (INR)	Total Price (INR)
12		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 Nos122)				
a	4135482	40 mm dia	20	M		
b	4135483	50 mm dia	47	M		
c	4135484	65 mm dia	47	M		
13		Providing and fixing G.M. gate valve screwed type with required 300x300mm masonry chamber in brick bat & C.I. cover all complete.				
a	4135485	40 mm dia	3	Nos		
b	4135486	50 mm dia	4	Nos		
c	4135487	65 mm dia	4	Nos		
<b>Sub Total (D)</b>						-
E	SOIL,WASTE, VENT, ANTI SY-PHONAGE AND INTERNAL DRAINAGE PIPES & FITTINGS		Qty	UOM	Unit Price (INR)	Total Price (INR)
14		Supplying, fixing and testing UPVC soil, waste and vent pipes (SWR) including vent caps 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 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.				
a	4135488	75mm dia.	15	M		
b	4135489	100mm dia.	10	M		
c	4135490	150mm dia.	1	M		
15		Providing and fixing UPVC Aquarius Brand heavy class pipe for drains including providing and fixing necessary fittings such as elbows, tees union fittings etc. 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 hessian cloth dipped in hot black bitumen,				

		testing, all complete as per specifications of the following diameters. (for Sink, Drain, and Urinal Drains)				
a	4135491	32mm dia.	5	M		
b	4135861	40mm dia.	10	M		
c	4135862	50mm dia.	1	M		
16	4135863	Providing and fixing C.P. Brass heavy quality gratings (3mm thick) for floor drains including making necessary re cement grouting with neat cement all complete to the satisfaction and direction of the Engineer-in-Charge.	5	M2		
17		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.				
a	4135864	160mm dia.	1	Nos		
b	4135865	110mm dia.	1	Nos		
c	4135866	80mm dia.	1	Nos		
d	4135867	Providing and fixing PVC Pan connectors with or without vent holes straight/bend including providing & jointing with lead caulked joints.	2	Nos		
18		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.				
a	4135868	Size 100 x 75mm.	4	Nos		
19		Supply, installation, testing commissioning of UPVC "P" Trap in solvent cement joints all complete.				
a	4135869	110mm dia.	2	Nos		
<b>Sub Total (E)</b>						-
<b>F</b>	<b>RAIN WATER PIPES &amp; FITTINGS</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR )</b>	<b>Total Price (INR)</b>
19		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.				
a	4135870	200mm dia.	1	M		
b	4135871	150mm dia.	24	M		
c	4135872	100mm dia.	16	M		
20		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.				
a	4135873	150mm dia.	4	Nos		
b	4135874	110mm dia.	4	Nos		
21		Providing and fixing lead sheet flashing sheet of size 300mm x 300mm to suit the following dia pipes/rain water outlet using lead sheets weighing not less than 27.5 Kg. Per sq.m.including moulding to proper shape and grade including cutting of R.C.C. roof slab or wall as required and providing and fixing with cement mortar 1:2 with water proof compound etc. all complete as per specifications and directions of the Engineer-in-Charge.				

a	4135875	200mm dia. Pipe	1	Nos		
b	4135876	150mm dia. Pipe	4	Nos		
c	4135877	100mm dia. Pipe	1	Nos		
<b>Sub Total (F)</b>					-	
<b>G</b>	<b>SANITARY FIXTURES &amp; FITTINGS</b>		<b>Qty</b>	<b>UOM</b>	<b>Unit Price (INR )</b>	<b>Total Price (INR)</b>
22	4135878	Providing and fixing approved off white vitreous China European water closet comprising of the following for complete installation.	2	Sets		
a		European water closets 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]				
b		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.				
c		15mm dia. CP heavy approved quality 2-way bib tap with wall flanges (1 No.).Jaguar florentine or allied series.				
d		15mm dia. Approved quality health faucet with flexible tube & wall hook (1 No.).Jaguar or equivalent.				
e		15mm dia. Approved quality angle valve (1 No.)Jaguar or equivalent.				
f		Total of all with making necessary inlet/outlet connection all complete.				
23	4135879	Providing and fixing Over Counter wash basins of company Hindware 10065 or Parryware C0419 Colour : white, comprising of the following for complete installation.	2	Sets		
a		Oval shaped Over counter type wash basin. (1 No.)				
b		C.I. Bracket suitable for above (1 Pair)				
c		32mm dia. CP waste coupling (1 No.) JAGUAR or equivalent				
d		32mm dia.CP bottle trap with extension piece, CP wall flange complete. (1 Set) JAGUAR or equivalent				
e		15mm dia. CP heavy angle, stop cock with wall flanges (2 Nos) JAGUAR or equivalent				
f		15mm dia. CP heavy inlet connection pipe (2 Nos)				
g		15mm dia. CP pillar tap,JAGUAR florentine FLR-5009B / allied series or equivalent				
h		Total of all with making necessary inlet/outlet connection all complete.				
i		Hand Towel Dispenser of company : Kimberly clark , Cat no : 02010 (White)				
24	4135880	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.	1	Nos		
25	4135882	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.	1	Nos		
26	4135883	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.	2	Nos		
27	4135884	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.	2	Nos		
28	4135885	Providing and fixing open type soap dispenser with inlet / outlet connection all complete. JAGUAR or equivalent approved make	2	Nos		

29	4135886	Providing and fixing soap dish holder with inlet / outlet connection all complete.JAGUAR or equivalent approved make	2	Nos	
30	4135887	Providing and fixing robe hooks (double) including fixing the same with CP screws complete. [JAGUAR-1191N]	2	Nos	
31	4135888	Providing and fixing hand drier unit complete with Electrical connections of Ascon prima series or Euronics or equivalent.	2	Nos	
32	4135889	Supplying, fixing SS 20mm dia 300 mm long straight grab bar with flanges, fixed with SS screws complete. [JAGUAR-1101N]	2	Nos	
<b>Sub Total (F)</b>					-
<b>Total (A + B+C+ D + E )</b>					-
<b>Inclusive of all Freight , Transportation , P&amp;F and BOCW Cess other charges</b>					-