TENDER DOCUMENT
FOR

CIVIL WORKS
(VOLUME 2)

PROJECT:

PROPOSED CONSTRUCTION OF SHRIMAN BHAUSAHEB GANDHI (CBSE) INTERNATIONAL SCHOOL
FOR
Shri SAPDJ Pathshala
SOLAPUR

EMPLOYER:

Shri SAPDJ Pathshala

AT

New Walchand Campus opp. WIT College Solapur

ARCHITECTS:

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BASIC PRICES OF MAJOR MATERIALS

The following basic rates mentioned are inclusive of transportation to the work site and Loading & Unloading. The rates are excluding GST on both material and transportation

Sl. No.	Item	Unit	Rate (in Rs.)
1.	Cement	Bag	380
2.	Steel – Fe 550	MT	70,000
3.	Structural Steel	MT	85,000
4.	Polished 19mm thk Mudgal Gray Granite	M^2	1200
5.	Polished 19mm thk Ilkal Red granite	M^2	1450
6.	Flush Door – 25mm thk	M^2	990.00
7.	Flush Door – 30mm thk	M^2	1040.00
8.	1.0mm thk laminate	M^2	375
9.	19mm thk polished black granite	M^2	2000
10.	38mm thk polished black granite	M^2	32000
11.	19mm thk polished steel grey granite	M^2	1400
12.	Glazed ceramic tiles (600mm X 300mm) (Toilet dado)	M^2	500
13.	Glazed vitrified tiles (600mm X 1200mm)	M^2	700
14.	Antiskid vitrified flooring (300mm X 300mm)	M^2	500
15.	Satin finish vitrified flooring (600mm X 600mm)s	M^2	700
16.	Glazed vitrified tiles Dado (600mm X 600mm)		600
17	19mm thk Ruby red granite	M^2	2000

18.	550 x 550 Kota stone with cut edges	M^2	650
19.	Matt finish vitrified flooring (800mm X 800mm)	M^2	750
20.	Texture paint	M^2	220
21.	Wood polymer composite frames – 75 x 125	MT	1100
22.	Wood polymer composite frames – 65 x115	MT	950
23.	Wood polymer composite frames – 55 x105	MT	655

LIST OF APPROVED MAKES FOR CIVIL WORKS

1.	Cement	ACC, Birla Super, Ultratech
2.	Reinforcement Steel (Fe 500)	INDUS, BHUVALKA, CHAMUNDI
3.	Non-modular ground moulded burnt bricks	Refer Specifications
4.	Ceramic Tiles	Kajaria, Johnson, Nitco or equivalent
5.	Vitrified Tiles	Somany, Nitco, RAK or equivalent
7.	Waterproofing Compound	Fosroc, Roff, BASF
9.	Aluminum sections	Jindal, Indal, Hindalco
10.	Glazing / Glass	Saint Gobin, Modi Guard, Ashai, Guardian
11.	Flush shutter	Greenply, Century, Shogun
13.	Laminate	Greenlam, Merino, Timex
16.	Floor spring	Ozone, Doorset
17.	Mild steel sections	TATA, JSW, Shankara
18.	Mirror	Saint Gobin, Modi Guard, Guardian
19.	Paint	Asain, Berger
20.	Grouting Materials	Fosroc, Roffe, BAL
21.	Locks	D-LINK, Godrej, Enox, Yale
22.	Mortise Locks	D-LINK, Kich, Enox
23.	Expansion bolts	Hilti, Fischer
24.	Adhesives	Fevicol, Vamicol, Araldite
25.	Powder Coated Hardware	Ebco, Hetich

26.	WPC Sections	V3, Wuddy
27.	Outdoor Tiles	Johnson, Pavit
28.	False Ceiling	Armstrong, Saint Gobin, Gypcon
29.	Readymade Putty	Birla, Asian
30.	Puff roofing sheets	Tata Blue
31.	PVC Tile beading, G.I Plaster mesh, Tile Spacers.	Arpitha or equivalent
32.	Texture paint	Birla, JK, Asian
33.	UPVC Window	Aparna Venster, Finesta, Deceuninck

NOTE:

1. The Contractor shall produce samples before procurement of the material for approval of the Architect for all materials required for Works. The material of the makes out of the above as approved by the Architect shall be used on the work

2. In respect of materials for which approved makes are not specified as above, the same shall be decided by the Architect and shall be as per sample got approved from the Architect before procurement.

3. The Contractor shall submit samples of all materials in advance for approval.

A Brief to all the contractors:

The tender is in two parts,

Volume - I : Terms & conditions.

Volume - II : Bill of Quantities.

Part –A : Items to be considered as slab area basis.

Part –B : Items to be considered as item rate basis.

Part –C : Set of tender drawings containing architecture, structure frame work and plumbing drawings. The set also contains reference images and artistic impressions in 3D for reference only

Important instructions

1. All the terms and conditions listed in Volume –I to be strictly followed.
2. Complete co-ordination with electrical (low & high voltage) Vendor, fire vendor and other civil works to be facilitated.
3. All wall chasing work for electrical conduits to be covered and plastered with expanded GI mesh. Reference image attached.
4. In no case masonry work shall be used as under shuttering for the beam above. Wall to be built strictly after casting the beams and slabs.
5. The measurement given in the drawings supersedes the actual measurement of the Autocad drawings.
6. The GFC may vary from tender drawings while detailing the tender drawings.
7. All plumbing shafts shall have external plaster.
8. The RCC rates shall be inclusive of shuttering cost and is not payable extra.
9. The scaffolding for the building during construction shall be part of tender Volume-II. The primary contractor (slab area basis contractor) shall permit to use the scaffolding as and where required by other vendors on terms and condition mutually agreed between the parties.
10. The primary contractor shall share the electricity and water with other vendors on mutually agreed terms.
11. The contractor may contact architect by keeping the client in loop for clarifications. All communication shall be deemed official.

Scope of work **not to be considered** as slab area basis are listed below,

1. RCC sump, OHT including fixing and providing PHE puddle flanges. The above shall be item rate tender and shall be executed by others.
2. Amphitheater (OAT) and its MS roof.
3. The peripheral beam supporting the OAT MS roof and Column supports above the roof terrace level.
4. Door, windows, grills and jali
5. Electrical works. (High side and low side)
6. All external works for Civil and PHE & Electrical.

Scope of work **to be considered** as slab area basis are listed below,

1. Inspection chambers and gully traps at the shafts.
2. RWP and pipe sleeves (for terraces verandahs, corridors, staircases).
3. For PHE works all the items to be included as mentioned in the drawings including testing and commissioning excluding the OHT & Sump puddle flanges.
4. All the entry/ exit steps and ramps.
5. All 2M wide Staircases have waist slab and all intermediate court staircases are 1.2M wide having folded plate staircase in profile.

VOLUME -2 PART - A

THE FOLLOWING ITEMS TO BE CONSIDERED AS SLAB AREA BASIS FOR QUOTING

Sl. No.	Description	REMARKS
1	**CONCRETE**	
1.1	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For below footing**	
1.2	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For below plinth beam**	
1.3	Execution in position **Plain Cement Concrete** of mix 1:3:6 with OPC cement @220kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.84cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For Flooring in ground floor**	
1.4	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For sills**	
1.5	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications - **For Terracece parapet Coping**	
1.6	Execution in position **Plain Cement Concrete** of mix 1:3:6 with OPC cement @220kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.84cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For 65mm thk Leveling top for class room stage over cinder fill.**	

Sl. No.	Description	REMARKS
1.7	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For sunken portion flooring**	
1.8	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For Terracece screed concrete average 7.5cm thk**	
	T O T A L 2.0	
2	**REINFORCED CEMENT CONCRETE**	
	Contractor may consider using machine mix concrete in place of RMC with prior approval from Architects/Clients if required quality of RMC is not available & rate shall include using vibrator in RCC	
2.1	Execution **cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR FOOTING**	
2.2	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including atthed pilasters, columns, lintles, pillars, posts, struts, buttresses, string or ling courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications **M-25 RCC FOR PLINTH BEAM**	

Sl. No.	Description	REMARKS
2.3	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including atthed pilasters, columns, lintles, pillars, posts, struts, buttresses, string or ling courses, parapets, coping, bed blocks, anchor blocks, plain window Sills, fillets etc., including cost labour, HOM curing, complete but excluding cost of reinforcement as per specifications **M-25 RCC FOR COLUMN**	
2.4	Execution in position **Reinforced cement concrete** of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications. **M-20 RCC FOR LINTEL**	
2.5	Execution in position **Reinforced cement concrete** of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391cum, with superplastisiser @0.225lts, machine mixed, well compted for plain chajja of 8.5 cms. average thickness, upto ground floor level, including cost of labour, HOM of machinery, finishing, curing, complete as per specifications. Specification **M-20 RCC FOR CHAJJA**	
2.6	Execution in position **Reinforced cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR BEAMS**	
2.7	Execution in position **Reinforced cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR SLAB**	
2.8	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in, including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications **For Stairecase**	

Sl. No.	Description	REMARKS
2.9	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works, including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications. **For Shear wall**	
3	Providing and removing centering , shuttering , strutting , propping etc and removal of form work for foundation, footings,bases of column for mass concrete including cost of all materials , labours as per specifications - **For Footing with MS shuttering**	
3.1	Providing and removing centering, shuttering, strutting, propping etc.., and remove of form work for sides and soffits of beams, beams haunchings, cantilevers girders and lintels not exceeding 1m in depth including cost of all materials, labours as per specifications - **For Plinth Beam with MS shuttering**	
3.2	Providing and removing centering, shuttering, strutting, propping etc.., f**or columns, pillars,** piers, abutments, post and struts, squars / rectangular / polygon in plan including cost of all materials, labours as per specifications. **- For column with MS shuttering**	
3.3	Providing and removing centering, shuttering, strutting, propping etc.., and remove of form work for sides and soffits of beams, beams haunchings, cantilevers girders and lintels not exceeding 1m in depth including cost of all materials, labours as per specifications **For Lintel with ply shuttering**	
3.4	Providing and removing centering, shuttering, strutting, propping etc., for **chajjas**, corbels etc., including edges including cost of all materials, labour complete as per specifications. **With ply shuttering**	
3.5	Providing and removing centering, shuttering, strutting, propping etc.., and remove of form work for sides and soffits of beams, beams haunchings, cantilevers girders and lintels not exceeding 1m in depth including cost of all materials, labours as per specifications **For Roof Beam with ply shuttering**	
3.6	Providing and removing centering , shuttering , strutting , propping etc and removal of form work for flat surface such as suspended floors , roofs landing and etc....thickness upto 200mm, including cost of all materials , labours as per specifications. **For Roof Slab with MS shuttering**	
3.7	Providing and removing centering , shuttering , strutting , propping etc and removal of form work for flat surface such as suspended floors , roofs landing and etc....thickness upto 200mm, including cost of all materials , labours as per specifications. **For Roof Slab ht 0-7.2 Mtr with MS shuttering (DOUBLE HIEGHT SLAB)**	
3.8	Providing and removing centering , shuttering , strutting , propping etc ..and removal of forms work forslopings surfaces including folded plates where inclinations to horizontals planes does not exceed 30 degree requiring shutterings only on under side including cost of all materials , labours as per specifications - **For sloping roof slab with Ply / MS shuttering**	

Sl. No.	Description	REMARKS
3.9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification - **For WAIST SLAB STAIRCASE with ply shuttering**	
3.10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification - **For FOLDED PLAT STAIRCASE with ply shuttering FOR INTERMEDIATE TERRACES**	
3.11	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including atthed pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. **For shear wall with MS shuttering (lift walls)**	
	T O T A L 3.0	
4	**REINFORCEMENT & STRUCTURAL STEEL WORKS**	
4.1	T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, pling in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of labour, HOM of machinery complete as per specifications. - **TMT bars Fe 550**	
	T O T A L . 4.0	
5	**MASONRY**	
5.1	Execution of **granite / trap/ basalt size stone masonry below plinth beam** with cm1:6 edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m. apart in the eh course including cost of, labour , curing complete as per specifications.	
5.2	Execution of Masonry wall with **230mm thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of materials, labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications	
5.3	Execution of Masonry wall with **115mm thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications.	
5.4	Execution of **600mm x 600mm catch basin** at all levels constructed using **115mm thk burnt brick masonry** with 1:4 cement mortar, including internal plaster 1:4 , curing, cleaning of cement mortar fall, labour, etc., complete	

Sl. No.	Description	REMARKS
5.5	Execution of **450mm x 450mm catch basin** at all levels constructed using **115mm thk burnt brick masonry** with 1:4 cement mortar, including internal plaster 1:4 , curing, cleaning of cement mortar fall, labour, etc., complete	
	T O T A L 5.0	
	NOTE: Contractor shall commence the finishing works after the required completion of works from PHE, Fire & Electrical contractors.	
6	**PLASTERING WORKS**	
6.1	Execution of 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of labour, curing etc., complete as per specification . **(FOR CEILING) - cement mortar 1:4**	
6.2	Execution of 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of labour, curing etc., complete as per specification **(FOR DOUBLE HEIGHT CEILING) - cement mortar 1:4**	
6.3	Execution of 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of labour, curing complete as per specifications. **(FOR INTERNAL WALLS) - cement mortar 1:4**	
6.4	Execution of **Plaster external surfaces** of block masonry walls/RCC members in two layers consisting 15mmthk first layer in 1:6 cement mortar and 12mm thk second layer of 1:4 cement mortar including sponge finishing for the outer layer as specified by the consultants, mortar is mixed with WPC of approved make as per directions & manufacturers specifications all in line and level including curing, scaffolding, hacking RCC surfaces, raking joints, finishing of corners & edges, providing grooves as per the design and details and drip course under all external soffits etc. complete as per drawing.	
6.5	Execution of **Rough cement plastering** 15mm thick in single coat with cement mortar to block masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of labour, curing complete as per specifications - **Cement mortar 1:4 Rough Plaster**	
6.6	Execution of **Lath plaster** with cement mortar 1:3, 5cms thick with 6mm dia mild steel bars at 20 cms c/c both horizontally and vertically fixed with chicken mesh for drop chajja, fia, bking to cup boards including cost of all labour, providing and removing form work HOM curing, complete as per specifications.	

Sl. No.	Description	REMARKS
6.7	Execution of **plastering the electrial conduite grooves** with 1:4 cement mortar in two coats: first coat in 1:3 cement mortar in rough plastering and 2nd coat in 1:4 cement mortar for finishing coat including provising GI mesh for the grooved portion, labour, scaffoliding, curing, etc., complete (item shall be executed only when work is done after completioning of wall plastering works)	
	100mm wide	
	150mm wide	
	200mm wide	
6.8	Execution of **Plastering sunken slabs** in two layers of min 20mm thick cement mortar 1:4 including smooth finishing as specified by the consultants, mortar is mixed with WPC of approved make as per directions & manufacturers specifications all in line and level including curing, scaffolding, hacking RCC surfaces, raking joints, providing 100mm wide galvanised plaster mesh for the joints between the rcc member and the masonry surface etc., complete	
	T O T A L 6.0	
7	**WEATHER PROOFING**	
7.1	Execution of **Brick Bat coba waterproofing** treatment including preparation of surface as required for trearment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and griuting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprieatry water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment.(b) Laying cement concrete using broken brick bats 25 mm to 100mm size with 50% of cement mortor 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortor 1:5 admixed with proprietary water proffing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proffing compound (d) Finishing the surface with 20mm thick jointless cement mortor of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of labour complete as per specifications. **TERRACE SLAB WATER PROOFING**	
7.2	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, over the sunken slabs and corners of slab & beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water proofed surface for minimum 3 days to check for water tightness etc., complete **For Sunken slabs in toilet**	

Sl. No.	Description	REMARKS
7.3	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, over the sunken slabs and corners of slab & beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water over waterproofed surface for minimum 3 days to check for water tightness etc., complete **For Sunken slabs in INTERMIDEATE TERRACE**	
7.4	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, IS Code 13182-2020 over the Plinth beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water over waterproofed surface for minimum 3 days to check for water tightness etc., complete **For PLINTH BEAM**	
7.5	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, IS Code 13182-2020 over the Plinth beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water over waterproofed surface for minimum 3 days to check for water tightness etc., complete **For RETAINING WALL**	
	T O T A L . 8.0	
8	**MISCELLANEOUS WORKS**	
8.1	Execution of spraying / injecting chemical emulsion for preconstructional **anti-termite treatmen**t of soil under existing floors using chemicals emulsions at one liter/ hole 300mm apart including drilling 12mm. dia holes and plugging with cement mortar 1:2 proportion to match with existing floors, with chlorophyriphos emulsion concertrate 20% , including cost of chemicals , diluting in water to 1% concentration, labour , HOM of equipment , complete as per specifications.	
8.2	Execution of **Cinder fill / light weight block fill** in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on Terraced roof or sunken slabs, laid to slope compting, including cost of labour, curing complete as per specifications.	
	T O T A L 9.0	
9	**FLOORING WORKS**	
	The floor finish margin considered is 50mm including morter for all tiles and grnaite. (consider 75MM in kitchen & dining area only)	

Sl. No.	Description	REMARKS
9.1	Execution of 600MM x 600/1200MM **Matt / Antiskid finish Vetrified tile** flooring of approved colour & make laid with 2mm X2mm grooves between tiles in minimum 20mm thk in 1:6 cement mortar with cement slurry and pointing/grouting of joints with laticrate based epoxy grout mixed with pigment matching to the colour of tiles, laid as per pattern, all in line, level including cost of labour, curing, cleaning, acid wash etc.,complete with floor protection . **AS PER FLOOR PLANS**	
9.2	Execution of Item same as above **for 100mm high Skirting in AS PER FLOOR PLANS**	
9.3	Execution of 550MM x 550MM 25mm thk **Kotha stoneSimple Polished** flooring laid between tiles in minimum 20mm thk in 1:6 cement mortar with cement slurry laid as per pattern, all in line, level including cost of labour, curing, cleaning, etc., complete with floor protection. **AS PER FLOOR PLANS**	
9.4	Execution of Item same as above **for 100mm high Skirting in for** class room, labs, staff room & store	
9.5	Execution of **Granite Flooring** using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all labours etc., complete as per specifications - **Polished Granite AS PER FLOOR PLANS in pattern with 150mm wide floor band**	
9.6	Execution of **Skirting** using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 10mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of labours etc., complete as per specifications P**olished Granite for Skirting 100 mm high AS PER FLOOR PLANS**	
9.7	Execution of 600mm X 600/1200mm **Glazed Vetrified tiles dadoing** up to required height using tiles of approved quality and size fixed with 2mm X 2mm grooves in 20mm thk 1:4 cement mortar mixed with waterproofing compound. The joints are finished neatly with laticrated tile grout matching to the colour of the tile including cost of labour, all lead and lift at all levels, loading and unloading, transportation, curing, acid washing, cleaning etc., complete.**1200mm High Vetrified tile dado in corridor & staircase**	
9.8	Execution of **Step risers using 20mm thk 150mm wide Pre Polished Granite slabs** laid over ther RCC steps as raiser in min. 20mm thk 1:3 CM including edge polishing for the exposed edge, labor, lead and lift, loadinig and unloading, transportation, tools and tackles, cutting, grindng etc., complete.	
9.9	Execution of **20mm thk Pre Polished Granite slabs for staircase treads & landing** laid over cement mortar in 1:4 as per design and drawings including edge polishing for the treads on sides which getting exposed, 3nos 4mm x 4mm groove 20mm C/C, finishing of the corners of the granite as per the design, labor, lead and lift, tools and tackles, cutting as per the size and pattern, grinding, covering the finished flooring with jute & POP & cleaning the same when required etc.complete all as per specification & direction rate includes edge nosing	

Sl. No.	Description	REMARKS
9.10	Execution of 10mm th **Antiskid vitrified tiles** for flooring of **toilets** using tiles of **600mm X 600mm** of approved colour & make laid with 2mm X2mm grooves between tiles in minimum 20mm thk in 1:6 cement mortar with cement slurry and pointing/grouting of joints with laticrate based epoxy grout mixed with pigment matching to the colour of tiles, laid as per pattern, all in line, level including cost of labour, curing, cleaning, acid wash etc., complete. **antiskid vitrified tiles for toilet flooring**	
9.11	Execution of 10mm th **600mm X 600 / 1200mm Glazed vitrified tiles dadoing** up to1800mm height using tiles of approved quality and size fixed with 2mm X 2mm grooves in 20mm thk 1:4 cement mortar mixed with waterproofing compound. The joints are finished neatly with laticrated tile grout matching to the colour of the tile including cost of labour, all lead and lift at all levels, loading and unloading, transportation, curing, acid washing, cleaning etc., complete. **For toilet dado**	
9.12	Execution of 10mm th **antiskid vitrified tiles** for flooring of using tiles of **600mm X 600/1200mm** of approved colour & make laid with 2.5mm X 2.5mm grooves between tiles in minimum 65mm thk in 1:4 cement mortar with cement slurry and pointing/grouting of joints with laticrate based epoxy grout mixed with pigment matching to the colour of tiles, laid as per pattern, all in line, level including cost of all labour, curing, cleaning, acid wash etc., complete. **antiskid vitrified tiles for kitchen area flooring**	
9.13	Execution of 10mm th **600mm X 600/1200mm Glazed vitrified tiles dadoing** up to required height using tiles of approved quality and size fixed with 2.5mm X 2.5 mm grooves in 20mm thk 1:4 cement mortar mixed with waterproofing compound. The joints are finished neatly with laticrated tile grout matching to the colour of the tile including cost of labour, all lead and lift at all levels, loading and unloading, transportation, curing, acid washing, cleaning etc., complete. **1800mm high glazed ceramic tiles for kitchen dado**	
9.14	Execution of 50mm thick **I.P.S flooring** with M20 grade concrete with 'Ironite' as hardener mixed with concrete topping (ratio 2 kgs/cement bag) including mixing, tamping, finished in level, curing, cleaning etc., complete all as per specifications.	
9.15	Execution of flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all labours etc., complete as per specifications - **Polished granite for ledge wall top 150mm wide**	
9.16	Execution of flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all labours etc., complete as per specifications cost include edge polish - **Polished granite for window sills 150mm wide**	
	T O T A L 10.0	
	TOTAL FOR CIVIL WORKS	

VOLUME -2 PART - B

THE FOLLOWING ITEMS TO BE CONSIDERED AS LABOUR ITEM RATE BASIS FOR QUOTING

Sl. No.	Description	Qty	Unit	Rate	Amount
1	**EARTHWORK**				
1.1	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually and removing the excavatted stuff to a distance not exceeding 50m and lift upto 1.5m ,excavated surface levelled and neatly dressed ,disposed erath to be levelled after breaking of clods and neatly dressed as per specification.	R/o	Cum		
1.2	Earthwork excavation for foundation of building, water supply ,sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, shifting the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications	3,000.00	Cum		
1.3	Excavation for foundation of buildings, water supply & sanitary lines & electrical conduits etc., either in pits or in trenches 1.50m & above in width in **hard rock by chiselling and / or wedging** where blasting is prohibited, including stacking the xcavated stuff clear from edges of excavation with lead upto 50m including cost of labour, HOM complete as per specifications	R/o	Cum		
1.4	Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, **in soft rock** including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM complete as per specifications.	1,800.00	Cum		
1.5	Filling of earth brought from outside and approved by the consultant by manual means for building excluding boulders for filling sides of footing & foundation trenches and below flooring in layers of 150mm, including breaking the clods, watering, compacting each layer with vibratory compactor and at un-accessible places with wooden/ steel rammers to achieve 95% proctor density at optimum moisture content, to get solid hard compacted surface, all labour, machineries etc., complete **for open air theater (OAT) up to 3.6m high**	2,000.00	Cum		
1.6	Filling available earth in sides of foundations up to plinth in layers not exceeding 20cms in depth, compting eh deposited layer by ramming after watering with lead up to 1.5m including cost of all labour complete as per specifications	3,800.00	Cum		
	T O T A L 1.0				
2	**CONCRETE**				
2.1	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For below footing**	267.00	Cum		
2.2	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For Below Retaining wall footing**	18.00	Cum		
2.3	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For Below Pump Room**	9.00	Cum		
2.4	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For Below Sump tank**	16.00	Cum		
2.5	Execution in position **Plain cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- FOR GRADE SLAB**	110.00	Cum		

Sl. No.	Description	Qty	Unit	Rate	Amount
2.6	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For below plinth beam**	134.00	Cum		
2.7	Execution in position **Plain Cement Concrete** of mix 1:3:6 with OPC cement @220kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.84cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For Flooring in ground floor**	347.00	Cum		
2.8	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For sills**	3.00	Cum		
2.9	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications - **For Terracece parapet Coping**	3.00	Cum		
2.10	Execution in position **Plain Cement Concrete** of mix 1:3:6 with OPC cement @220kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.84cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For 65mm thk Leveling top for class room stage over cinder fill.**	2.00	Cum		
2.11	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For sunken portion flooring**	2.00	Cum		
2.12	Execution in position **Plain Cement Concrete** of mix 1:2:4 with OPC cement @240kgs, with 20mm and down size graded granite metal coarsed aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, plinth and cills, including cost of labour, waterproofing compound, HOM of machinery, curing complete as per specifications **For Terracece screed concrete average 7.5cm thk**	5.00	Cum		
2.13	Execution in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Terrace floor columns **(for green concrete)**	20.00	Cum		
	T O T A L 2.0				
3	**REINFORCED CEMENT CONCRETE**				
	Contractor may consider using machine mix concrete in place of RMC with prior approval from Architects/Clients if required quality of RMC is not available & rate shall include using vibrator in RCC				
3.1	Execution **cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR FOOTING**	1,227.00	Cum		

Sl. No.	Description	Qty	Unit	Rate	Amount
	Execution **cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR RETAINING WALL FOOTING**	44.00	Cum		
3.2	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including atthed pilasters, columns, lintles, pillars, posts, struts, buttresses, string or ling courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications **M-25 RCC FOR PLINTH BEAM**	205.00	Cum		
3.3	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including atthed pilasters, columns, lintles, pillars, posts, struts, buttresses, string or ling courses, parapets, coping, bed blocks, anchor blocks, plain window Sills, fillets etc., including cost labour, HOM curing, complete but excluding cost of reinforcement as per specifications **M-25 RCC FOR COLUMN**	10.00	Cum		
3.4	Execution in position **Reinforced cement concrete** of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications. **M-20 RCC FOR LINTEL**	5.00	Cum		
3.5	Execution in position **Reinforced cement concrete** of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391cum, with superplastisiser @0.225lts, machine mixed, well compted for plain chajja of 8.5 cms. average thickness, upto ground floor level, including cost of labour, HOM of machinery, finishing, curing, complete as per specifications. Specification **M-20 RCC FOR CHAJJA**	3.00	Cum		
3.6	Execution in position **Reinforced cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR BEAMS**	5.00	Cum		
3.7	Execution in position **Reinforced cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR SLAB**	3.00	Cum		
3.8	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in, including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications **For Stairecase**	R/o	Cum		
3.9	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works, including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications. **For Shear wall**	R/o	Cum		
3.10	Execution in position **Reinforced cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR AMPHITHEATER GRADE SLAB**	200	Cum		
	SUMP AND OHT				
3.11	Execution **cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) **- M-25 RCC FOR SUMP RAFT FOOTING**	51.00	Cum		

Sl. No.	Description	Qty	Unit	Rate	Amount
3.12	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including atthed pilasters, columns, lintles, pillars, posts, struts, buttresses, string or ling courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications **M-25 RCC FOR SUMP SLABS**	25.00	Cum		
3.13	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including atthed pilasters, columns, lintles, pillars, posts, struts, buttresses, string or ling courses, parapets, coping, bed blocks, anchor blocks, plain window Sills, fillets etc., including cost labour, HOM curing, complete but excluding cost of reinforcement as per specifications **M-25 RCC FOR SUMP WALL**	62.00	Cum		
3.14	Execution in position **Reinforced cement concrete** of Design Mix M25 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications. **M-25 RCC FOR SUMP STAIRCASE**	1.20	Cum		
3.26	Execution in position **Reinforced cement concrete** of design mix M25 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391cum, with superplastisiser @0.225lts, machine mixed, well compted for plain chajja of 8.5 cms. average thickness, upto ground floor level, including cost of labour, HOM of machinery, finishing, curing, complete as per specifications. Specification **M-25 RCC FOR OHT**	36.00	Cum		
	T O T A L 3.0				
4	**REINFORCEMENT & STRUCTURAL STEEL WORKS**				
4.1	T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, pling in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of labour, HOM of machinery complete as per specifications. - **TMT bars Fe 550**	115.00	Ton		
4.2	Erecting Tubular Truss of span from 10M upto 35M. All the members are welded together with gusset plate as per drawing. The entire truss is anchored in Rcc column by using M.S. anchor bolts at teh support, with base plate and shoe plate. the work included cutting straightening. Execution in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all, labour charges, and hire charges of machineries for cutting weldind grinding and erection equipments with all lead and lift transportation etc complete as per specification.- **STRUCTURAL STEEL**	83.00	Ton		
	T O T A L . 4.0				
5	**MASONRY**				
5.1	Execution of **granite / trap/ basalt size stone masonry below plinth beam** with cm1:6 edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m. apart in the eh course including cost of, labour , curing complete as per specifications.	R/O	Cum		
5.2	Execution of Masonry wall with **230mm thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of materials, labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications	25.00	Cum		

Sl. No.	Description	Qty	Unit	Rate	Amount
5.3	Execution of Masonry wall with **115mm thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications.	20.00	Sqm		
5.4	Execution of Masonry wall with **115mm thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications. **AMPHITHEATER SEATING**	650.00	Sqm		
5.5	Execution of load bearing wall with **solid concrete blocks** having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications with solid concrete blocks of **Size 400x200x200mm**	R/O	Sqm		
5.6	Execution of load bearing wall with **solid concrete blocks** having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications with solid concrete blocks of **Size 400x150x200mm**	R/O	Sqm		
5.7	Execution of load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications with solid concrete blocks of **Size 400x100x200mm**	R/O	Sqm		
5.8	Execution of **Planter box & seater using 9" thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications	40.00	Sqm		
5.9	Execution of **4" thk precasted clay jaali wal**l at all levels using **200mm X 200mm size** of approved design and detail wall is constructed with 1:4 cement mortar in between the jaali blocks including providing and finishing 5mm X 5mm groove horizontally, cost of blocks, cutting of blocks, curing, cleaning of cement mortar fall over the jaali blocks, labour, scaffolding wherever required etc., complete	240.00	Sqm		
5.10	Execution of **600mm x 600mm catch basin** at all levels constructed using **115mm thk burnt brick masonry** with 1:4 cement mortar, including internal plaster 1:4 , curing, cleaning of cement mortar fall, labour, etc., complete	10.00	Sqm		
5.11	Execution of **450mm x 450mm catch basin** at all levels constructed using **115mm thk burnt brick masonry** with 1:4 cement mortar, including internal plaster 1:4 , curing, cleaning of cement mortar fall, labour, etc., complete	6.00	Sqm		
	T O T A L 5.0				
	NOTE: Contractor shall commence the finishing works after the required completion of works from PHE, Fire & Electrical contractors.				
6	**PLASTERING WORKS**				
6.1	Execution of 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of labour, curing etc., complete as per specification . **(FOR CEILING) - cement mortar 1:4**	65.00	Sqm		
6.2	Execution of 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of labour, curing etc., complete as per specification **(FOR DOUBLE HEIGHT CEILING) - cement mortar 1:4**	R/O	Sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
6.3	Execution of 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of labour, curing complete as per specifications. **(FOR INTERNAL WALLS) - cement mortar 1:4**	260.00	Sqm		
6.4	Execution of 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of labour, curing complete as per specifications. **(FOR AMPHITHEATER SEATING) - cement mortar 1:4**	650.00	Sqm		
6.5	Execution of **Plaster external surfaces** of block masonry walls/RCC members in two layers consisting 15mmthk first layer in 1:6 cement mortar and 12mm thk second layer of 1:4 cement mortar including sponge finishing for the outer layer as specified by the consultants, mortar is mixed with WPC of approved make as per directions & manufacturers specifications all in line and level including curing, scaffolding, hacking RCC surfaces, raking joints, finishing of corners & edges, providing grooves as per the design and details and drip course under all external soffits etc. complete as per drawing.	200.00	Sqm		
6.6	Execution of **Rough cement plastering** 15mm thick in single coat with cement mortar to block masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of labour, curing complete as per specifications - **Cement mortar 1:4 Rough Plaster**	R/O	Sqm		
6.7	Execution of **Lath plaster** with cement mortar 1:3, 5cms thick with 6mm dia mild steel bars at 20 cms c/c both horizontally and vertically fixed with chicken mesh for drop chajja, fia, bking to cup boards including cost of all labour, providing and removing form work HOM curing, complete as per specifications.	R/O	Sqm		
6.8	Execution of **plastering the electrial conduite grooves** with 1:4 cement mortar in two coats: first coat in 1:3 cement mortar in rough plastering and 2nd coat in 1:4 cement mortar for finishing coat including provising GI mesh for the grooved portion, labour, scaffoliding, curing, etc., complete (item shall be executed only when work is done after completion of wall plastering works)	R/O	Sqm		
	100mm wide	R/O			
	150mm wide	R/O			
	200mm wide	R/O			
6.9	Execution of **Plastering sunken slabs** in two layers of min 20mm thick cement mortar 1:4 including smooth finishing as specified by the consultants, mortar is mixed with WPC of approved make as per directions & manufacturers specifications all in line and level including curing, scaffolding, hacking RCC surfaces, raking joints, providing 100mm wide galvanised plaster mesh for the joints between the rcc member and the masonry surface etc., complete	R/O	Sqm		
6.10	Execution of **SMOOTH INTERNAL PLASTER SURFACES** of RCC members in two layers consisting 15mmthk first layer in 1:6 cement mortar and 12mm thk second layer of 1:4 cement mortar including sponge finishing for the outer layer as specified by the consultants, mortar is mixed with WPC of approved make as per directions & manufacturers specifications all in line and level including curing, scaffolding, hacking RCC surfaces, raking joints, finishing of corners & edges, as per the design and details etc. complete as per drawing.	202.00	Sqm		
	T O T A L 6.0				
7	**PAINTING WORKS**				
7.1	Execution of painting in two coats with Asian Premier emulsion paint of approved brand on wall surface with one primary coat to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of labour, complete as per specifications - **PAINT FOR INTERNAL WALLS**	21,500.00			
7.2	Execution of painting in two coats with Asian Premier emulsion paint of approved brand on ceilingl surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of labour, complete as per specifications.- **PAINT FOR CEILNG**	15,000.00			

Sl. No.	Description	Qty	Unit	Rate	Amount
7.3	Execution of painting in two coats with Asian Premier emulsion paint on one primary coat of approved brand on ceilingl surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of labour, complete as per specifications.- **PAINT FOR DOUBLE HEIGHT CEILNG**	690.00			
7.4	Execution of painting in two coats with Enamel paint on one primary coat of approved brand on ceilingl surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of labour, complete as per specifications.- **ON CEILING ENAMEL PAINT**	R/o			
7.5	Execution of painting and finishing external walls in two coats with external emulsion paint (Asian APEX ULTIMA) on one primary coat of approved brand and shade to give an even shade over a coat of primer after thoroughly cleaning the surface to remove all dirt and loose powder material, free from mortar drops and other foreign matter including cost of labour, complete as per manufturer's specifications - **PAINT ON EXTERNAL WALLS**	13,000.00			
7.6	Execution of **Ready made wall putty for internal walls /ceiling** using Birla white or JK white make in 1-2 coat as required to give smooth and even surface applied as per manufacturer's specifications including cleaning the surface to receive the wall putty, all labour, scaffolding curing etc.,complete	52,000.00			
7.7	Execution of **Ready made wall putty for external walls** using Birla white or JK white make in 1-2 coat as required to give smooth and even surface applied as per manufacturer's specifications including cleaning the surface to receive the wall putty, all labour, scaffolding curing etc.,complete	2,980.00			
	T O T A L 7.0				
8	**WEATHER PROOFING**				
8.1	Execution of **Brick Bat coba waterproofing** treatment including preparation of surface as required for trearment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and griuting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprieatry water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment.(b) Laying cement concrete using broken brick bats 25 mm to 100mm size with 50% of cement mortor 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortor 1:5 admixed with proprietary water proffing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proffing compound (d) Finishing the surface with 20mm thick jointless cement mortor of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of labour complete as per specifications. **TERRACE SLAB WATER PROOFING**	20	Sqm		
8.2	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, over the sunken slabs and corners of slab & beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water proofed surface for minimum 3 days to check for water tightness etc., complete **For Sunken slabs in toilet**	R/o	Sqm		
8.3	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, over the sunken slabs and corners of slab & beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water over waterproofed surface for minimum 3 days to check for water tightness etc., complete **For Sunken slabs in INTERMIDEATE TERRACE**	R/o	Sqm		
8.4	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, IS Code 13182-2020 over the Plinth beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water over waterproofed surface for minimum 3 days to check for water tightness etc., complete **For PLINTH BEAM**	R/o	Sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
8.5	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, IS Code 13182-2020 over the Plinth beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water over waterproofed surface for minimum 3 days to check for water tightness etc., complete **For RETAINING WALL**	R/o	Sqm		
8.6	Execution of **Water proofing treatment** by first applying 2 coat of Brushbond water proofing compound of FOSROC or equivalent make, over the slabs and corners of slab, walls & beam to be executed by specialist agency's as per manufacturer's specifications including filling all the joints and providing coving at all corners, removing of loose cement slurry on top surface, cleaning, ponding water proofed surface for minimum 3 days to check for water tightness etc., complete **For SUMP EXTERIOR**	110.00	Sqm		
	T O T A L . 8.0				
9	**MISCELLANEOUS WORKS**				
9.1	Execution of spraying / injecting chemical emulsion for preconstructional **anti-termite treatmen**t of soil under existing floors using chemicals emulsions at one liter/ hole 300mm apart including drilling 12mm. dia holes and plugging with cement mortar 1:2 proportion to match with existing floors, with chlorophyriphos emulsion concertrate 20% , including cost of chemicals , diluting in water to 1% concentration, labour , HOM of equipment , complete as per specifications.	R/o	Sqm		
9.2	Execution of **Cinder concrete** in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on Terraced roof or sunken slabs, laid to slope compting, including cost of labour, curing complete as per specifications.	R/o	Cum		
9.3	Execution of Drilling with **Core cutting** machine in RCC beams, slabs, floors etc., for laying pipes and rendering the same in RCC 1:2:4, finishing the same to the satisfaction of the engineer in chage etc., The quoted rate shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes. Core cut shall be done using rebar detector.				
	160mm	25.00	nos		
	110mm	25.00	nos		
	75mm	15.00	nos		
	40mm	15.00	nos		
9.4	Fixing of **mirror for toilet** using 6mm thk best quality clear mirror without any undulations fixed over 12mm thk waterproof ply with 3M make two way adhesive tape alround including fixing 12mm thk waterproof back ply fixed to the wall with screws, edge grinding for the mirror, labour, transpotation, lead, lift etc., all line in level and as per design and details complete. (Size: 450mm X 750mm)	97.00	nos		
9.5	Execution and Fixing Self Supporting **Sandwich PUF Roof Panels (in curve)** STRUPAN or equivalent 50mm thk or of equivalent specification manufactured on Continuous line (mandatory), with comprising of 0.5mm TCT Colour Coated Profiled Sheet on top sheet and 0.45mm TCT on bottom sheet with Trough Depth of 34.5 mm (minimum), Trough pitch 250 mm (minimum) with 2 stiffing ribs at equi - distance in pan centre of each pitch to improve strength and aesthetics with covered width of 1000mm. The Colour Coated sheets will have substrate of Galvalume 150 AZ and Yield Strength 550 MPA as per ASTM A 792. Coating shall be of Silicone/Regular Modified Polyester on both the external and internal steel wall facings of 25 micron finish. The void between the sheets will be CFC free Polyurethane foam of Density 40 kg/m3, thermal conductivity of 0.024 W /m K, closed cell contents greater than 90% with adhesion strength Metal to Foam 80-100 KPa. The thickness of Panel shall be 30 mm outer to outer excluding the profile i.e. 84.5 mm (minimum) from crest height to bottom sheet. The length of the Panel shall be to suit the site length requirement. The side lapping and overlapping joints of the self supporting Panels should be vapour tight. Side to side overlap should have foam gasket compressed to 60% on assembly to ensure leak free roofing. The rate should include cost of all hardware & edge flashings all around the roof. The PUF Panels supplied shall have guard film protection on all exposed surfaces & shall confirm to IS – 12436 -1988	1,280.00			
9.6	Execution of **PUDDLE FLANGES AND MANHOLE COVERS as per PHE drawing for Sump** complete as per specifications.				
	150mm dia	3.00	Nos		
	100mm dia	4.00	Nos		
	80mm dia	6.00	Nos		
	65mm dia	4.00	Nos		
	50mm dia	3.00	Nos		

Sl. No.	Description	Qty	Unit	Rate	Amount
	MAN HOLE COVERS	6.00	Nos		
	T O T A L 9.0				
10	**FLOORING WORKS**				
	The floor finish margin considered is 50mm including morter for all tiles and grnaite. (consider 75MM in kitchen & dining area only)				
10.1	Execution of 600MM x 600/1200MM **Matt / Antiskid finish Vetrified tile** flooring of approved colour & make laid with 2mm X2mm grooves between tiles in minimum 20mm thk in 1:6 cement mortar with cement slurry and pointing/grouting of joints with laticrate based epoxy grout mixed with pigment matching to the colour of tiles, laid as per pattern, all in line, level including cost of labour, curing, cleaning, acid wash etc.,complete with floor protection . **AS PER FLOOR PLANS**	R/o	Sqm		
10.2	Execution of Item same as above **for 100mm high Skirting in AS PER FLOOR PLANS**	R/o	Sqm		
10.3	Execution of 550MM x 550MM 25mm thk **Polished Kota stoneSimple polish** flooring laid between tiles in minimum 20mm thk in 1:6 cement mortar with cement slurry laid as per pattern, all in line, level including cost of labour, curing, cleaning, etc., complete with floor protection. **AS PER FLOOR PLANS**	R/o	Sqm		
10.4	Execution of Item same as above **for 100mm high Skirting in for** class room, labs, staff room & store	R/o	Sqm		
10.5	Execution of **Granite Flooring** using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all labours etc., complete as per specifications - P**olished Granite AS PER FLOOR PLANS in pattern with 150mm wide floor band**	R/o	Sqm		
10.6	Execution of **Skirting** using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 10mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of labours etc., complete as per specifications P**olished Granite for Skirting 100 mm high AS PER FLOOR PLANS**	R/o	Sqm		
10.9	Execution of 600mm X 600mm **Glazed Vetrified tiles dadoing** up to required height using tiles of approved quality and size fixed with 2mm X 2mm grooves in 20mm thk 1:4 cement mortar mixed with waterproofing compound. The joints are finished neatly with laticrated tile grout matching to the colour of the tile including cost of labour, all lead and lift at all levels, loading and unloading, transportation, curing, acid washing, cleaning etc., complete.**1200mm High Vetrified tile dado in corridor & staircase**	R/o	Sqm		
10.10	Execution of **Step risers using 20mm thk 150mm wide Pre Polished Granite slabs** laid over ther RCC steps as raiser in min. 20mm thk 1:3 CM including edge polishing for the exposed edge, labor, lead and lift, loadinig and unloading, transportation, tools and tackles, cutting, grindng etc., complete.	R/o	Sqm		
10.11	Execution of **20mm thk Pre Polished Granite slabs for staircase treads & landing** laid over cement mortar in 1:4 as per design and drawings including edge polishing for the treads on sides which getting exposed, 3nos 4mm x 4mm groove 20mm C/C, finishing of the corners of the granite as per the design, labor, lead and lift, tools and tackles, cutting as per the size and pattern, grinding, covering the finished flooring with jute & POP & cleaning the same when required etc.complete all as per specification & direction rate includes edge nosing	R/o	Sqm		
10.12	Execution of 10mm th **Antiskid vitrified tiles** for flooring of **toilets** using tiles of **600mm X 600mm** of approved colour & make laid with 2mm X2mm grooves between tiles in minimum 20mm thk in 1:6 cement mortar with cement slurry and pointing/grouting of joints with laticrate based epoxy grout mixed with pigment matching to the colour of tiles, laid as per pattern, all in line, level including cost of labour, curing, cleaning, acid wash etc., complete. **antiskid vitrified tiles for toilet flooring**	R/o	Sqm		
10.13	Execution of 10mm th **600mm X 600 / 1200mm Glazed vitrified tiles dadoing** up to1800mm height using tiles of approved quality and size fixed with 2mm X 2mm grooves in 20mm thk 1:4 cement mortar mixed with waterproofing compound. The joints are finished neatly with laticrated tile grout matching to the colour of the tile including cost of labour, all lead and lift at all levels, loading and unloading, transportation, curing, acid washing, cleaning etc., complete. **For toilet dado**	R/o	Sqm		
10.15	Execution of 10mm th **antiskid vitrified tiles** for flooring of using tiles of **600mm X 600/1200mm** of approved colour & make laid with 2.5mm X 2.5mm grooves between tiles in minimum 65mm thk in 1:4 cement mortar with cement slurry and pointing/grouting of joints with laticrate based epoxy grout mixed with pigment matching to the colour of tiles, laid as per pattern, all in line, level including cost of all labour, curing, cleaning, acid wash etc., complete. **antiskid vitrified tiles for kitchen area flooring**	R/o	Sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
10.16	Execution of 10mm th **600mm X 600/1200mm Glazed vitrified tiles dadoing** up to required height using tiles of approved quality and size fixed with 2.5mm X 2.5 mm grooves in 20mm thk 1:4 cement mortar mixed with waterproofing compound. The joints are finished neatly with laticrated tile grout matching to the colour of the tile including cost of labour, all lead and lift at all levels, loading and unloading, transportation, curing, acid washing, cleaning etc., complete. **1800mm high glazed ceramic tiles for dining & kitchen dado**	R/o	Sqm		
10.17	Execution of 50mm thick **I.P.S flooring** with M20 grade concrete with 'Ironite' as hardener mixed with concrete topping (ratio 2 kgs/cement bag) including mixing, tamping, finished in level, curing, cleaning etc., complete all as per specifications.	120.00	Sqm		
10.18	Execution of **VDF FLOORING** M20 Grade 50mm vacuum de-watered flooring: de watering operation consisting of providing side shuttering with MS channels, angles to the required levels, Vibrating the concrete by using screed vibrator, de-watering using vacuum pumps by suction method and finishing the top surface to required level (not more than 3mm water level) and grade using skim floaters/discs/power trowels. Covering the finished concrete surface with 200 micron thick polythene sheet and curing etc with deep brush finish and 8x8mm groove @ 2mt C/C., complete, as per drawing, specification. **FOR AMPHITHEATER STEPS**	650.00	Sqm		
10.19	Execution of 15mm thick 75mm high **I.P.S SKIRTING** with M20 grade concrete with 'Ironite' as hardener mixed with concrete topping (ratio 2 kgs/cement bag) including mixing, tamping, finished in level, curing, cleaning etc., complete all as per specifications. **AMPHITHEATER STEPS**	1,850.00	Sqm		
10.20	Execution and fixing of **30mmx30mm SS L- Angle Tread edges** at all levels fixed with SS screws of appropriate size as per the detail drawings including labour, lead, lift etc., compelte **AMPHITHEATER TREADS**	180.00	Sqm		
10.21	Execution of **40mm thk polished granite for Amphitheater seat** laid horizontal over 25mm thk 1:4 cement mortar laid as per the pattern including all labour, tools and tackles, transportation, loading, unloading, cutting, etc., includng providing edge polishing for the exposed portion of the granite, all on site incidental activities, complete	300.00	Sqm		
10.22	Execution of **VDF FLOORING** M20 Grade 85mm to 50 mm vacuum de-watered flooring: de watering operation consisting of providing side shuttering with MS channels, angles to the required levels, Vibrating the concrete by using screed vibrator, de-watering using vacuum pumps by suction method and finishing the top surface to required level (not more than 3mm water level) and grade using skim floaters/discs/power trowels. Covering the finished concrete surface with 200 micron thick polythene sheet and curing etc with deep brush finish and 8x8mm groove @ 2mt C/C With Epoxy Grouting., complete, as per drawing, specification. **FOR TERRACE BASKET BALL COURT**	447.00	Sqm		
10.23	Execution of **wall cladding** using 19mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm × 12mm grooves in joints including cost of all labour, curing etc., complete as per specification - **Leather finish Granite & Polished granite for LIFT CLADDING**	66.00	Sqm		
10.24	Execution of **wall cladding** using 19mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm × 12mm grooves in joints including cost of all labour, curing etc., complete as per specification - **Pre Polished Granite for LIFT CLADDING**	99.00	Sqm		
10.25	Execution of **10mm thk outdoor vitrified tiles** using tiles of **600mm X 600mm** of approved shade and colour for flooring laid on a bed of 25mm thick cement mortar 1:3 mix with 2.5mm X 2.5mm spacer joints, pointing the joints with epoxy grout to match the colour of tiles, all materials, labours, curing tiles etc., at all levels, and heights. Rate to include for laying tiles as per pattern given in drawing, cost of labour, curing, cleaning, covering the finished flooring with jute & POP & cleaning the same when required etc. all complete. **outdoor vitrified tiles in outdoor yoga area**	R/o	Sqm		
10.26	Execution of Hybrid water based **HPU 500 paint** including cleaning the surface before application, primer coat, colour hybrid PU base coat, Hybrid PU top coat & game line marking. **For Basket ball Play Court.**	250.00	Sqm		
10.33	Execution of flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all labours etc., complete as per specifications - **Polished granite for ledge wall top 150mm wide**	10.00	Sqm		
10.34	Execution of flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all labours etc., complete as per specifications cost include edge polish - **Polished granite for window sills 150mm wide**	10.00	Sqm		
10.36	Execution of 300mm wide **plinth protection** along the building line laid with PCC 1:2:4 laid in slope (85mm to 70mm) over the PCC bed including finishing the top and front edge with 1:4 cement morter, all labour, curing, etc., all in line & level and as per design and details complete	353.00	Sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
10.37	Execution of platform using prepolished , water cut/gang **40mm thick telephonic Blk Granite**. Laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing , finished with cement mortar, pointed with colour pigments to mth the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing.	10.00	Sqm		
10.38	Execution of **20mm X 20mm WPC beading** fixed to the masonry wall with screws in line and level as per the details including finishing the beading with two caots of synthetic enamel paint over a coat of wooden primer, all labour, transportaion, loading & unloading, lead & lift, wastage etc. complete **WPC Beading in toilet & corridor**	3,500.00	Sqm		
10.39	Execution of flooring using prepolished, gang saw/water cut 19mm thick granite laid in straight and curve with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of labours etc., complete as per specifications - **Polished granite 150mm wide bands for corridor.**	R/o	Sqm		
	T O T A L 10.0				
11	**DOOR AND WINDOWS**				
	Refer the detailed drawings before quoting				
11.1	Execution of engineered wood door frame fabricated using **Wood Plastic Composites profiles (WPC)** of cross section **75 mm X 125mm** with a density of 1250-1300 kg/m3, resistant to water, termite, fungal and UV, using four numbers of L shaped MS or plastic clamps at the corners of the frame to fix it firmly to form a rectangular shape door frame and provided with six numbers of 260mmx25mmx5mm size z shaped MS flat hold fasts for fixing the door frame in the wall and the material and process for manufturing the door frame confirming to Designs & applying two coats of wood enamel paint on one coat of primer and Specifications including costs of all labour, fabrication, assembling, transportation, erection, incidental and unforeseen charges complete as per the directions of the engineer in charge of the work, but excluding the cost of fixtures.	1,056.00	Rmt		
11.2	Execution of engineered wood door frame fabricated using **Wood Plastic Composites profiles (WPC)** of cross section **65 mm X 115mm** with a density of 1250-1300 kg/m3, resistant to water, termite, fungal and UV, using four numbers of L shaped MS or plastic clamps at the corners of the frame to fix it firmly to form a rectangular shape door frame and provided with six numbers of 260mmx25mmx5mm size z shaped MS flat hold fasts for fixing the door frame in the wall and the material and process for manufturing the door frame confirming to Designs & applying two coats of wood enamel paint on one coat of primer and Specifications including cost of all labour, fabrication, assembling, transportation, erection, incidental and unforeseen charges complete as per the directions of the engineer in charge of the work, but excluding the cost of fixtures.	182.00	Rmt		
11.3	Execution of engineered wood door frame of requires size fabricated using **Wood Plastic Composites profiles (WPC)** of cross section **55 mm X 100** mm with a density of 1250-1300 kg/m3, resistant to water, termite, fungal and UV, using four numbers of L shaped MS or plastic clamps at the corners of the frame to fix it firmly to form a rectangular shape door frame and provided with six numbers of 260mmx25mmx5mm size z shaped MS flat hold fasts for fixing the door frame in the wall and the material and process for manufturing the door frame confirming to Designs & applying two coats of wood enamel paint on one coat of primer and Specifications including cost of all labour, fabrication, assembling, transportation, erection, incidental and unforeseen charges complete as per the directions of the engineer in charge of the work, but excluding the cost of fixtures.	704.00	Rmt		
11.4	Execution of **30mm thk Flush shutter** for rooms using 30mm thk solid core block board with 6mm thick teak wood edge lipping alround the shutter & both side of the shutter is finished with 1mm thk laminate of approved make, shade & pattern. Shutter is fixed to the WPC frame with SS hinges with 10mm clear gap from the finished floor level.The door shall include 4mm thk glass view panel of size 200mm x 750mm fixed to the door shutter with teak wood beading with 3 x 4 groove in it. All the wooden surfaces are finished with colourless polish including sandpaering, buffing & preparing the surface to recieve the polish, fixing of all hardware wherever required as per the design details, cessories, etc., complete as per Specification and drawings	630.00	Sqm		
11.5	Same as above item but without view panel	68.00	sqm		
11.6	Same as item no.11.4 but 250mm X 750mm powder coated aluminium louver	71.00	sqm		
11.7	Execution of **Flush shutter for toilets** using **25mm thk** solid core block board with 6mm thick teak wood edge lipping all around the shutter & out side and inside is finished with 1mm thk laminate of approved make, shade & pattern. Shutter is fixed to the WPC frame with SS hinges with 10mm clear gap from the finished floor level.The cost shall include fixing of hardwares, tower bolts, aldrops wherever required as per the design details, necessories, etc., complete as per Specification and drawings.	230.00	Sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
11.8	Execution of **Double shuttered doors with flush shutter** using **30mm thk** solid core block board with 6mm thick teak wood edge lipping all around the shutter & out side and inside is finished with 1mm thk laminate of approved make, shade & pattern. Shutter is fixed to the WPC frame with SS hinges with 10mm clear gap from the finished floor level. The door to include 4mm thk glass view panel of size 200mm x 750mm fixed to the door shutter with teak wood beading with 3 x 4 groove in it. finished with enamel paint, fixing of hardwares, tower bolts, aldrops wherever required as per the design details, necessories, etc., complete as per Specification and drawings.	27.00	Sqm		
11.9	Execution of **40mm X 6mm WPC beading** fixed to the masonry wall with screws in line and level as per the details including finishing the beading with two caots of synthetic enamel paint over a coat of wooden primer, labour, transportaion, loading & unloading, lead & lift, wastage etc. complete	896.00	Rmt		
11.10	Execution of **12mm X 12mm WPC beading** fixed to the masonry wall with screws in line and level as per the details including finishing the beading with two caots of synthetic enamel paint over a coat of wooden primer, labour, transportaion, loading & unloading, lead & lift, wastage etc. complete	1,419.00	Rmt		
11.11	Execution of **20mm X 20mm WPC beading** fixed to the masonry wall with screws in line and level as per the details including finishing the beading with two caots of synthetic enamel paint over a coat of wooden primer, labour, transportaion, loading & unloading, lead & lift, wastage etc. complete	1,128.00	Rmt		
11.12	Execution and fixing **UPVC two track sliding shutter windows** of approved make as per the design and details using UPVC sections as per the Indian standards & 5mm thk clear glass fixed with rubber beading, fixing the windows to the masonry walls with anchor bolts/screws as per manufacturer's specifications,sliding system, handles, scaffolding, sealing the gap between the window frame and plastered surface with transparent silicon sealant etc., complete as per directions.	807.00	sqm		
11.13	Execution and fixing **UPVC partially fixed & partially fixed glass louvered windows** of approved make as per the design and details using UPVC sections as per the Indian standards & 5mm thk clear glass fixed with rubber beading for fixed portion and for glass louvers including fixing the windows to the masonry walls with anchor bolts/screws as per manufacturer's specifications, scaffolding, sealing the gap between the window frame and plastered surface with transparent silicon sealant etc., complete as per directions.	86.00	sqm		
11.14	Execution and fixing **UPVC partially fixed & partially two track sliding shutter windows** of approved make as per the design and details using UPVC sections as per the Indian standards & 5mm thk clear glass fixed with rubber beading, fixing the windows to the masonry walls with anchor bolts/screws as per manufacturer's specifications,sliding system, handles, scaffolding, sealing the gap between the window frame and plastered surface with transparent silicon sealant etc., complete as per directions.	44.00	sqm		
11.15	Execution and fixing **fixed glass louvered UPVC ventilators** of approved make as per the design and details using UPVC sections as per the Indian standards outer frame fixed to the masonry wall/rcc member with screw and rawl plug and 5mm thk clear glass louvers fixed with louver brackets fixed to the main frame. All fabrication is done as per the detail drawings fixed at all levels including edge grinding of the glass louvers, sealing the gap between the upvc section and plastered surface with transparent silicon sealant etc., complete as per the directions.	10.00	sqm		
11.16	Execution and fixing **partially fixed & partially glass louvered UPVC ventilators** of approved make as per the design and details using UPVC sections as per the Indian standards outer frame fixed to the masonry wall/rcc member with screw and rawl plug and 5mm thk clear glass louvers fixed with louver brackets fixed to the main frame. All fabrication is done as per the detail drawings fixed at all levels including edge grinding of the glass louvers, sealing the gap between the upvc section and plastered surface with transparent silicon sealant etc., complete as per the directions.	5.00	sqm		
11.17	Execution and fixing **fixed glass UPVC ventilators** of approved make as per the design and details using UPVC sections as per the Indian standards outer frame fixed to the masonry wall/rcc member with screw and rawl plug and 5mm thk clear glass louvers fixed with louver brackets fixed to the main frame. All fabrication is done as per the detail drawings fixed at all levels including edge grinding of the glass louvers, sealing the gap between the upvc section and plastered surface with transparent silicon sealant etc., complete as per the directions.	10.00	sqm		
11.18	Execution and fixing **fixed glass UPVC window** of approved make as per the design and details using UPVC sections as per the Indian standards outer frame fixed to the masonry wall/rcc member with screw and rawl plug and 5mm thk clear glass louvers fixed with louver brackets fixed to the main frame. All fabrication is done as per the detail drawings fixed at all levels including edge grinding of the glass louvers, sealing the gap between the upvc section and plastered surface with transparent silicon sealant etc., complete as per the directions.	72.00	sqm		
11.19	Execution and fixing following **hardware fixtures** of approved make and design for door and windows with screws and nails as per the directions				
	Stainles steel matt finished 125mm long Hinges	1,057.00	no		
	Stainles steel matt finished 75mm long Hinges	387.00	no		

Sl. No.	Description	Qty	Unit	Rate	Amount
	Stainles steel matt finished 300mm long handles	368.00	no		
	Stainles steel matt finished 200mm long handles	82.00	no		
	Stainles steel matt finished 150mm long handles	258.00	no		
	Stainles steel matt finished 300mm long tower bolt	12.00	no		
	Stainles steel matt finished 200mm long tower bolt	380.00	no		
	Stainles steel matt finished 150mm long tower bolt	130.00	no		
	Stainles steel matt finished 300mm long aldrop	176.00	no		
	Stainles steel matt finished 200mm long aldrop	46.00	no		
	Stainles steel matt finished 150mm long aldrop	130.00	no		
	Stainles steel matt finished magnetic catcher	129.00	no		
	Nylon bush for the door stopper	216.00	no		
	Morise lock	25.00	no		
	Cylindrical lock	R/0	no		
	Door closures	R/0	no		
	Floor spring	17.00	no		
	Turn key knob	12.00	no		
	T O T A L 11.0				
12	**FABRICATION WORKS**				
	Refer the detailed drawings before quoting				
12.1	Execution and fixing 1mm thick **M.S. sheet garage door** with frame and diagonal bres of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying 2 coat of enamel paint on a priming coat of red lead paint cost of labour, HOM complete as per specifications Double leaf door of size 2.4x2.4m **(Terrace doors)**	10.00	sqm		
12.2	Execution and fixing **M.S.grill work for windows and ventilators** weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with 2 coat of enamel paint on a coat of red lead primer, cost of, labour and HOM of machinery complete as per specifications	19,640.00	kgs		
12.3	Execution and fixing of **MS Railing for staircase** using 50mm X 6mm MS flats for vertical balustrade embedded in the rcc members and 20mm dia MS rods are welded horizontally to the vertical members including providing 75mm X 8mm MS flat for handrail & end balustrade . All the MS fabrication is done as per the detail drawings and the railing is embedded in the concrete includinng all labour, cutting, welding, grinding of exess welding material, finishing all the MS sections with two coats of matt finish synthetic enamel spray paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete				
	Ground floor	27.00	Sqm		
	First floor	27.00	Sqm		
	Second floor	27.00	Sqm		
	Third floor	27.00	Sqm		
	Fourth floor	27.00	Sqm		
	Fifth floor	27.00	Sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
12.4	Execution and fixing of **MS Railing for corridor, intermediate terrace & Intermediate Staircase** using 50mm X 6mm MS flats for vertical balustrade embedded in the rcc 1000mm C/C, 75mm x 8mm top handrail horizontal member & 50mm x 6mm MS flat horizintal bottom member. 20mm MS rods are placed vertically @ 125mm C/C between top and bottom horizontal members.. All the MS fabrication is done as per the detail drawings and the railing is embedded in the concrete includinng all labour, cutting, welding, grinding of exess welding material, finishing all the MS sections with two coats of matt finish synthetic enamel spray paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete				
	First floor	261.00	Sqm		
	Second floor	185.00	Sqm		
	Third floor	175.00	Sqm		
	Fourth floor	249.00	Sqm		
	Fifth floor	230.00	Sqm		
12.5	Execution and fixing of 20mm thk **230mm wide M.S rungs** and fixed to the concrete member @ 400mm c/c with lock set concrete adhesive including cost labour charges, curing complete as per specifications.	25.00	no		
12.6	Execution and fixing of **Shaft covering** at all levels using MS frame work made of 66mm X 33mm MS sections for outer framework & 40mm X 40mm for intermidiate sections to which 30mm X 40mm wood polymer composite sections are fixed at 80mm c/c with GI screws of appropriate size as per the detail drawings including all labour, scaffolding, wastage, lead, lift etc., compelte	250.00	sqm		
12.7	Execution and fixing of **50mm X 50mm MS box .** All the MS fabrication is done as per the detail drawings and the Fencing is embedded in the concrete includinng all labour, cutting, welding, grinding of exess welding material, finishing all the MS sections with two coats of matt finish synthetic enamel paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete. **for basket ball court fencing on terrace.**	410.00	RMT		
12.8	Execution and fixing of **50mm x 50mm GI chain link mesh .** All the MS fabrication is done as per the detail drawings and includinng all labour, cutting, welding, grinding of exess welding material, finishing with two coats of matt finish synthetic enamel paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete. **for basket ball court fencing on terrace.**	85.00	sqm		
12.9	Execution of **150mm X 20mm WPC CLADDING** fixed to MS Fencing with adjustable washers & screws with eye opening, in line and level as per the details including labour, transportaion, loading & unloading, lead & lift, wastage etc. complete. **for basket ball court fencing on terrace.**	417.00	RMT		
12.10	Execution and fixing of **50mm X 100mm X 2MM MS box PERGOLA .** All the MS fabrication is done as per the detail drawings and the pergola is welded to MS plates embeded in the concrete includinng all labour, cutting, welding, grinding of exess welding material, finishing all the MS sections with two coats of matt finish synthetic enamel paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete. **for PERGOLA.**	1,200.00	kgs		
	T O T A L 12.0				
13	**EXTERNAL DEVLOPMENT WORKS**				
13.1	Providing and laying paving of **pre cast concrete Key stone pavers** (100mm X 200mm) of following colours made of M40 grade concrete of 60mm /65mm thickness of approved pattern, make, of compressive strength 450KG /sq. cm. Paver blocks should be laid on a 55mm / 50mm thk M-sand bed over WMM with basket weave pattern with a gap of 1.5mm between the blocks filled with sand including compacting the paving with vibrator, labour, laying, curing, lead, lift, loading, unloading etc., complete as per the detail drawings & directions	735.00	sqm		

Sl. No.	Description	Qty	Unit	Rate	Amount
13.2	Providing and laying pre cast **concrete kerb** (size 150mm X 375mm) of M40 grade, approved make & shape laid as per the design over PCC bed /WMM/GSB with minimum 25mm 1:4 cement mortar at the bottom of the kerb and for packing the gaps between the kerbs including finishing the recessed joints with cement slurry, all labour, lead, lift, loading, unloading, curing, etc., as per detail drawings & directions complete.	675.00	Rmt		
13.3	**BITUMINOUS ROAD**				
	Execution **25mm thk bituminous concrete** using crushed aggregates of Grade II, using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II with 5.4% VG-30 Bitumen premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. The design mix should be approved before execution.				
	Granular Sub Base - Plant Mix Method. Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401				
	Primer Coat over WMM/WBM Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg/m2 using mechanical means.	2,150.00	sqm		
	Providing and applying **primer coat** for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqm over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set including cleaning of road surface, cost of all material, labour, HOM complete as per specifications				
	Providing and applying **tack coat** using VG 30 grade bitumen on granular base such as WMM surfaces hot bitumen primed at 3 kg per 10 sqm, heating bitumen in boiler fitted with spray set including cleaning of road surface, cost of labour, HOM complete as per specifications.				
	Providing and laying **50mm thk bituminous macadam** on prepared surface using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II with 5.6% VG-30 Bitumen with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat & including lead, lift and cost of all labour, HOM complete as per specifications.				
13.4	**EXTERNAL DRAIN**				
	Excavation by manual means for **EXTERNAL DRAIN** 1m wide and 0.9m to 1.2m in depth **in soft rock** including stacking the excavated stuff clear from edges of excavation with lead upto 300mt including cost of labour, HOM complete as per specifications.	425.00	Cum		
	Execution in position **Plain Cement Concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compted, in foundation, including cost of labour, HOM of machinery, curing complete as per specifications. **For EXTERNAL DRAIN**	36.00	Cum		
	Execution in position **Reinforced cement concrete** of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in, including cost of labour, HOM curing, complete but excluding cost of reinforcement as per specifications **For EXTERNAL DRAIN**	115.00	Cum		
	Placing in position **Precast cement concrete Drain Cover** of size 750mm x 600mm and thickness 80m. M25 grade as per design drawing, including cost of labour, HOM curing, complete **For EXTERNAL DRAIN**	590.00	nos		

Sl. No.	Description	Qty	Unit	Rate	Amount
13.5	T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, pling in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of labour, HOM of machinery complete as per specifications. - **TMT bars Fe 550**	7.00	ton		
13.6	Execution and fixing of 75mm x 25mm x 1.6mm MS box vertical members of height 1700mm @ 180mm C/C. 2nos of 30mm dia MS pipe horizontal member inserted and welded to vertical members . All the MS fabrication is done as per the detail drawings and includinng all labour, cutting, welding, grinding of exess welding material, finishing with two coats of matt finish synthetic enamel paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete. **for Boundary Wall Grill**	150.00	sqm		
13.7	Execution and fixing **Main Gate** using 150mm x 75mm C- Channel gate frame with 75mm x 25mm x 1.6mm MS box vertical members of height 2000mm @ 180mm C/C. 2 nos of 30mm dia MS pipe horizontal member inserted and welded to vertical members . All the MS fabrication is done as per the detail drawings and includinng all labour, cutting, welding, grinding of exess welding material, finishing with two coats of matt finish synthetic enamel paint of approved make and shade over a coat of metal primer as per manufacturer's specificaitons and consultanting architect's instructions complete. **for Entry Main Gate**	32.00	sqm		
13.8	Execution of Masonry wall with **230mm thk burnt brick masonry** with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:4 for super structure including cost of materials, labour charges, scaffolding, lead, lift, transportaton, curing complete as per specifications - **FRONT COMPOUND WALL**	16.00	Cum		
	T O T A L 13.0				
	TOTAL FOR CIVIL WORKS				
	Contractor must adhere to the following points as his scope of works in slab area basis Quote				
1	ESI & PF Group insurance & all statutory requirements				
2	Labors, Materials Transportation charges (if materials are bought by contractor)				
3	Labors accommodation (Define some area, water supply and electricity will be single point)				
4	Medical and safety (PPE), work permit process shall be taken by contractor.				
5	Scaffolding and shuttering Materials intercarting vehicle				
6	site dressing works before column marking and PCC work				
7	Supervising works				
8	Curing work with Gunny bags which contractor shall be providing				
9	Binding wire, cover blocks / spacers, chairs, De-shuttering lubricant etc. is in the contractors scope for supply and exec				
10	Petrol Vibrator (Petrol is contractors scope) / Electrical vibrator with 60mm and 40mm needle				
11	The contractor shall provide Barrels\ Drums for water stock at site				
12	The contractor shall provide dewatering pumps and curing pumps				
13	The contractor shall provide surveyor with Total Station for Co-ordinates fixing, Bolt and structures alignment and leveli				
14	The client offers a single point of electricity supply, remaining electrical points will be contractors part.				
15	The contractor will make his own arangement for supply of raw water to the site work				
16	DG sets for supply of electrical during power disruption, maintenance and repairs part of contractors scope				