



AN ISO 9001 & 14001 COMPANY

## **TENDER DOCUMENT**

NIT No: SRO/CON/ETS/193 dated 10.01.2024.

FOR

**Tender for “Construction of Training Center, Substation, Meter Kiosk Civil Works for Construction of New Technology Centre at Sriperumbudur, Tamil Nadu”**

### **VOLUME – III**

Price Bid

**ENGINEERING PROJECTS (INDIA) LIMITED**  
(A GOVT. OF INDIA ENTERPRISE)  
Southern Regional Office, Chennai

Validate

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Help

**Item Wise BoQ**Tender Inviting Authority: **ENGINEERING PROJECTS (INDIA) LIMITED**

Name of Work: Tender for "Construction of Training Center, Substation, Meter Kiosk Civil Works for Construction of New Technology Centre at Sriperumbudur, Tamil Nadu"

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0.001	PREAMBLE GENERAL						
0.002	All the rates for earthwork, piling works etc. shall include all kinds of necessary dewatering for successful completion of works using approved means and as directed by Engineer-In-Charge, including disposing off of the water as directed.						
0.003	Section-VII: Works Requirement shall be read along with BOQ for scope, mode of measurements and other conditions.						
0.004	Contractor shall provide and maintain Field Laboratory in a satisfactory manner till the completion of work to ensure site control on quality of materials and the works and shall strictly comply with provision of Indian/ International Standards at no extra cost. All other regular tests including requisite materials shall be carried out as directed either at approved laboratory or at site at no extra cost.						
0.005	The dimensions shown in the drawings shall have to be verified by the contractor at site before execution of the items and necessary allowance's have to be made as per the actual dimensions available at site.						
0.006	The quantity and rates mentioned in the Bill of Quantities shall be applicable anywhere in the MSME-Sriperumbudur premises.						
0.007	All pre-fabrication works wherever possible shall be carried outside the Employer's premises, only assembling and finishing work will be allowed within the Site.						
0.008	Items of work provided in this schedule but not covered in the specifications shall be executed strictly as per instructions of the Project Manager.						
0.009	Unless specifically mentioned in the contract document, the tenderer shall quote for the finished items and shall provide for the complete cost towards labour, materials, plant and machinery, operational costs, necessary safety measures, levies, taxes, royalty, octroi / LBT transport, repairs, rectification, maintenance till handing over to Owner, revenue expenses, contingencies, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the works according to the contract.						
0.01	The quantities of the various items mentioned in the schedule of items are approximate and may vary up to any extent or may not be executed altogether. The quoted rates of each item shall remain firm as long as mentioned in the conditions under this contract. The contractor, in his own interest, should get an indication of the probable extent of the work to be executed under any particular item in this schedule, before undertaking any preliminary and enabling work or purchasing bought out components related to the work.						
0.011	Project Manager's decisions shall be final and binding on the contractor regarding clarifications of items in this schedule with respect to the other sections / parts of the Contract.						

Signature of the Bidder with Seal

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EPIL

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0.012	The rates quoted shall be inclusive of all mock-ups, associated samples prior to any mass production or procurement as per complete satisfaction of the Project Manager including dismantling, demolishing and carting away the material and making good of the surface.						
0.013	Unless otherwise specified, the rates quoted shall be for complete item i.e. inclusive of supply, installation, testing, commissionng , handing over etc. complete with all necessary works not specifically mentioned but required for satisfactory performance of the systems / works.						
0.014	The rate to include barricading the ducts, openings, ifany, by providing 20 gauge MS/Aluminium Jalli at those locations.						
0.015	Any fault that occurs during the time of production, shifting or installation of finished materials, the same should be replaced with good one as per the instruction from Project Manager.						
0.016	For pile boring, Direct mud circulation (DMC) or Bailer and chisel technique has been considered in BOQ.If any other approved method is used by contractor, the same shall not be paid extra and shall be paid as per the item rates of DMC or Bailer and chisel technique method only.						
0.017	If any item to be executed is not present in the specific section but available in other section of BOQ, then same item from other section shall be operated. No extra shall be paid under these circumstances.						
0.018	Unless otherwise explicitly mentioned, PortlandPozzolana Cement (PPC) shall be used.						
0.019	The abbreviations used in the Specification and Bill of Quantities shall be read as follows :						
0.02	INR :- Indian Rupees						
0.021	IS :- Indian Standard						
0.022	IRC :- Indian Road Congress						
0.023	EIC :- Engineer In Charge						
0.024	A.S.T.M :- American Society for Testing and Materials						
0.025	A.W.S :- American Welding Society						
0.026	MM or mm :- Millimetre /s						
0.027	CM & cm :- Centimetre /s						
0.028	RM (rm) / RMT (Rmt) / m :- Running metre /s						
0.029	KG (kg) :- Kilogram /s						
0.03	Tonne/t/M.T. :- Metric ton/s (1000 Kilogram's)						
0.031	Dia./ dia. :- Diameter						
0.032	Sq.m. / sqm :- Square metre						
0.033	Cu.m / cum :- Cubic metre						
0.034	Cu.Ft.:- Cubic feet						
0.035	Lit., L :- Liters						
0.036	No.:- Number/s						

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0.037	Qty:- Quantity						
0.038	L.S :- Lump sum.						
0.039	Drg.No. :- Drawing number						
0.04	PCC:- Plain Cement Concrete						
0.041	RCC:- Reinforced cement concrete						
0.042	HSD:- High Yield strength Deformed bars.						
0.043	M.S. / MS :- Mild Steel						
0.044	CRS:- Corrosion resistance steel.						
0.045	CTD:- Cold Twisted Deformed steel.						
0.046	TMT :- Thermo Mechanically Treated Bars						
0.047	EXCAVATION						
0.048	Rate shall include the Clearing and Grubbing of the fill area including, removal of shrubs, plants and stumps, disposal of rubbish / excavated stuff to contractor's own disposal area, watering, compaction etc. comple.						
0.049	The rate for excavation shall include carting away the debris, pieces of rock, earth etc. to the dumping ground for all lifts and leads (Inside the premises as per the instruction or Outside the site premises with the permission / NOC of local statutory authority.)						
0.05	The rates shall include all kinds of dewatering with approved means and as directed by Engineer-In-Charge, including disposing off of the water as directed.						
0.051	All excavation and backfilling shall be measured net. All type of excavation and backfilling shall be measured upto P.C.C. line only. The Contractor shall excavate additional minimum 600 mm on all directions, beyond PCC line, to facilitate working allowance for the works like waterproofing, painting etc as per IS 1200 (Part 1) - 1992, clause 4.2.5.1. No extra payment shall be made towards this additional excavation.						
0.052	The rate for excavation shall include for shoring the sides or trenches with approved timber/steel accessories wherever necessary to prevent the sides from falling including bailing or pumping out of water (natuarally occurring water met with while excavating the pits) if found necessary. If there are any shrubs, bushes, trees etc., are to be removed, roots of the trees should be removed for minimum depth 1.5m. All these materials shall be neatly stacked at site and to be handed over to the Employer.						
0.053	Boulders which may be encountered in the excavations and which can be removed by crow bars/bucket of poclain excavator from the parent-matrix shall be removed and shall form part of this item and no separate payment shall be made towards the same.						
0.054	Contour level to be taken jointly before starting anyexcavation/ filling at every 3 / 5 meter grids.						

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0.055	Should contractor excavate to a greater depth or width than shown on the drawing or instructed by Project Manager, the contractor shall fill the same at his own expense in such greater depth or width of excavation with Plum concrete as described for foundation by Project Manager and no separate payment shall be made towards the same.						
0.056	Tree cutting and disposing of the trees (if any) to be done as per Project Manager's instructions.						
0.057	The excavated material,as directed by Project Manager, shall be retained at the locations within the site or disposed off outside the plot boundry in the approved dump yard of Local Municipal Authority or any other place. The rate of excavation includes cost of all necessary licences, Royalty charges and permissions from appropriate authorities and the owner for the disposing the unsuitable earth/material.						
0.058	Contractor shall take all necessary steps to ensure that the temporary soil retention system (touching piles, diaphragm wall or any other shoring system) is not damaged or disturbed during the excavation activity. In case any damages occurred, the Contractor shall make good such damages during the progress of the work at his own cost.						
0.059	The final approved founding strata shall be left absolutely clean by removing loose, slushy soil, murrum and weathered rocks with necessary tools & tackles, cleaning the surface by wire brush and carting away the debris, dewatering to keep site dry at all times till laying and curing of PCC etc. are all complete to the approval of Project Manager.						
0.06	The rate of excavation are inclusive of providing and maintaining in good condition, barricadding all along excavated pits with minimum 75 mm dia bullies of 2 mheight with signes of DANGER on it.						
0.061	REINFORCED CEMENT CONCRETE						
0.062	The items mentioned in the Price Schedule / BOQ are applicable to any part, any structural / civil component to be constructed under this scope and contract and the same are not limited to buildings only.						
0.063	No additional payment shall be made for extra cement usage in the design mix for concrete from batching plant at site.						
0.064	All concrete shall be machine mixed and machine vibrated.						
0.065	All concrete shall be controlled Mix Concrete.						
0.066	The rates shall be inclusive of everything necessary required for delayed pour.						
0.067	For shuttering, all props shall be adjustable steel props						
0.068	STRUCTURAL STEEL WORKS						
0.069	Contractor shall carryout Die penetration Tests on 10% of total fabricated structural steel to ensure weld quality.						
0.07	DEMOLITION AND DISMANTLING WORKS						

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0.071	Demolished materials shall be segregated based on their type and shall be used within the site for various purposes such as filling in landscape mounds, backfilling, reusing steel reinforcement for non structural works such as curbing etc. Rest of the segregated debris shall be sold for backfilling/ any other reuse offsite. Contractor shall produce the challans of the debris sold out offsite.						
0.072	While carrying out demolition / dismantling works and disposing off the debris, special due care shall be taken towards safety. The owner and the consultants shall be indemnified from all liabilities.						
0.073	MASONRY						
0.074	Rates quoted for all items shall include the cost of the following :						
0.075	a) All scaffolding, ladders, platforms, staging and plant required in the execution of work to any height and depth						
0.076	b) Hacking and Roughening of concrete or other surface in contact with masonry for bond.						
0.077	c) Raking cut joints to 12mm depth for plastering and pointing						
0.078	d) Levelling up and preparing top of masonry for Damp proof course						
0.079	e) Hold fasts, bolts and such other inserts as directed by the Project manager						
0.08	f) Keeping the masonry work well wetted for two weeks or as directed by the Project manager						
0.081	g) Work at all heights, levels, depths, unless otherwise specified						
0.082	h) Providing through bond stones at every 1.0 m apart in each course in stone masonry						
0.083	i) Curved, straight and inclined masonry works						
0.084	j) Soaking of bricks in water for minimum period of 60 minutes so that the entire brick is soaked in water						
0.085	k) Cost of all materials, transport to site and labour						
0.086	l) An pipe fittings and specials, spouts, hold fasts and other fixtures which are required to be built into the walls shall be embedded, as specified, in their correct position as the work proceeds unless otherwise directed by the Project Manager.						
0.087	m) Building in ends of beams, joists, slabs, lintels, sills, trusses etc.,						
0.088	n) Stones used for UCR masonry shall be granite trap and/or basalt unless otherwise specified						
0.089	o) Provision to be made for cut-outs (Openings for sanitary, electrical, fire fighting or any other services) and after completion of the services work, all the cut-outs and openings to be made good, matching the surroundings						
0.09	p) Solid / Hollow block shall conform to IS : 2185.						
0.091	PLASTER AND FINISHING						

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0.092	The Plaster shall be of sufficient thickness to fill up all undulations in the surfaces of masonry and to provide a true surface for wall/ceiling plaster. Special care shall be taken to soak the walls before applying the plaster and finishing the surface of plaster to ensure uniform texture and free from air cracks. Before starting the work sufficient Number of button marks shall be done to plumb and level to achieve uniform finish.						
0.093	All External Windows shall be finished to slope outwards and not less than 1 in 48. The exterior shall be finished as per sample approved, by wooden float but the interior shall be as per sample finished smooth.						
0.094	The contractor shall make good all the grooves, pockets, etc. after the scaffolding is removed.						
0.095	The rate for all types of plaster given below should be inclusive of the following items						
0.096	a) Forming of drip mould/ bands, grooves of sizes as required etc., wherever grooves are to be provided horizontally/ vertically for in accordance with the drawings.						
0.097	b) Cost of All material and labour						
0.098	c) Hacking concrete surfaces to be plastered or rendered						
0.099	d) Preparation of surfaces by raking out joints, wetting the surface etc.,						
0.1	e) Work at all heights, levels and situations.						
0.101	f) Washing floors, cleaning glass and leaving premises clean and tidy after the plastering is done. Disposing off the debris outside the site						
0.102	g) Curing of the plaster works.						
0.103	h) Providing necessary scaffolding, ladder, platform for any height and depth and removing the same after the work is completed.						
0.104	i) Neat finishing of junctions of plaster and skirting						
0.105	j) Screening and washing approved fine aggregates						
0.106	PAINTING / FINISHING						
0.107	Paint shall be applied as per the specification and to Manufacturer's specification and instructions.						
0.108	The quoted rate shall include curing, protecting the painted surface and adjacent work, and thoroughly cleaning of the premises.						
0.109	Paint shall be ready mixed and of premium quality of the approved brand and manufacturer. The paint shall generally conform to the chemical composition and other characteristics laid down in the relevant Indian standard specification. It is desired that materials of one manufacturer only shall be used as far as possible and paint of one shade be obtained from the same manufacturing batch. All paints shall be subjected to analysis from random samples taken at site from the painter's bucket, if so desired. Any materials found not conforming to the relevant specification shall have to be removed by the Contractor from the site at no extra cost.						

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0.11	All primer coats shall be compatible to the material of the surface to be finished as well as to the finishing coats to be applied.						
0.111	All coats shall be thoroughly dry before being sand papered or before the succeeding coat is applied. Coats of painting as specified are intended to cover surfaces perfectly. In case the surface is not covered properly by applying the specified number of coats, further coats shall be applied by the Contractor when so directed by the Project Manager at no extra cost.						
0.112	Painting shall be done by skilled labourers in a workman like manner. All materials shall be evenly applied so as to be free from sags, runs, crawls, or other defects. All coats shall be of proper consistency and shall be well brushed out, so that no brush marks are visible, except varnish and enamels which shall be uniformly flowed on. The brushes shall be clean and in good condition before application of paint.						
0.113	Net surface area of the painting/ finishing works shall be measured for the payment. No any painting coefficient shall be applicable for any type of paint.						
0.114	The rate to include the following:						
0.115	a) All surface preparation, suitable number of base coats required, primers and suitable finishing to the complete satisfaction of the Engineer in Charge.						
0.116	b) Scaffolding and all leads and lifts						
0.117	c) Proper curing in between the two subsequent coats						
0.118	d) Touch ups to the paint after the scaffolding is removed						
0.119	e) Minimum Guarantee of TEN Years for all externalpaints on requisite stamp paper						
0.12	f) Any splash or spray of paint shall be removed immediately after painting work. All doors and windows or any other area which is not to be painted shall be protected by suitable tape with paper. All this material shall be removed disposed without damaging the paintedsurface.						
0.121	LANDSCAPING						
0.122	Unless otherwise specifically mentioned in the items, the Contractor shall carryout following works at no extra cost to the Employer.						
0.123	The Contractor will supply and install 3.0 metres high barricades for safeguarding landscape development area and works, as indicated in the drawing. He may also install the barricades in the landscape development area according to his own understanding if he feels that any part of the landscape area is bound to be damaged for any reason, after taking prior permission from the Employer/ Employer's Representative.						



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0.124	The Contractor will supply, install and maintain at his own cost, the watering system for the landscape, which will take care of the requirement for particular plants, save water and does not waste water, including any requirements specified by the Landscape Architect appointed by contractor. He will give full details of the layout, size of the pipe with watering attachment hose details. All equipment must conform to international standards and / or Indian Standards if available. The design of the irrigation system has to be approved by Employer/ Employer's representative.						
0.125	All equipment required for development shall be made available by Contractor, and its maintenance shall be his responsibility. This includes Tagara, Phawdas, Hose Pipes, Ground Roller, Manual and/or Electric lawn Mowers, Sprinklers, etc.						
0.126	Contractor will ensure that all plants remain free of diseases, pests, etc during development and maintenance periods. The contractor shall, without any additional charge renew any dead or defective plant material and shall fully maintain including watering, de- weeding etc. of the whole landscape as mentioned above.						
0.127	The Contractor shall maintain Nursery at his own cost at designated locations as shown in the drawing or at a suitable location within the plot as directed by Employer/ Employer's Representative. The Nursery will be fenced with gates for protection from cattle. The area of Nursery will be approximately 5000sqm. The item would include construction and maintenance of Green Houses if required.						
0.128	Contractor shall follow pre construction and during construction soil erosion control measures as per the NBC Part 10, section 1, Chapter 4 – Protection ofLandscape during Construction.						
0.129	The contractor in co-ordination with the Employer as applicable shall ensure conservation and storage of top soil: Topsoil shall be stripped to a depth of 200 mm from areas proposed to be occupied by buildings, roads, paved areas and external services. It shall be stockpiled to a height of 400 mm in designated areas and shall be re-applied to site during plantation of the proposed vegetation. Topsoil shall be separated from sub-soil debris and stones larger than 50 mm diameter. The stored topsoil may be used as finished grade for planting areas. It is the landscape contractor's responsibility to conserve top soil that is not disturbed by the civil contractor.						
0.13	The Contractor shall:						

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0.131	I. Furnish the source of top soil to Employer/ Employer's Representative.II. Study the soil report provided with the tender document, providing soil details such as pH, alkalinity, total soluble salts, porosity, sodium content and organic matter. Ref. Soil Test Report.III. Use the restored soil at site for landscape purpose, manure mixture, Neemcake, weedicide shall be added if required.IV. Not consider any external soil source unless the existing soil conserved from site is lacking in quality and/or quantity.						
0.132	Soil Analysis for Top Soil fertility determination						
0.133	To determine the fertility of top soil for conservation, soil investigation shall be carried out by an NABL accredited laboratory.Adequate number of test samples of soil from a depth of 10-200mm below ground level shall be collected from at least 5 representative locations from site, preserved and transported (as per standard procedures specified by the laboratory) carefully to the laboratory for carrying out necessary tests.All relevant Indian Standards for sampling and conducting laboratory tests shall be followed.This soil samples shall be analyzed to determine soil type, texture, total organic content, pH, extractable nutrients such as nitrogen, phosphorus, potassium, salinity, cation exchange capacity, % base saturation and extractable heavy metals.The soil analysis report from the laboratory shall also include a statement on the fertility and suitability of the soil for plant growth based on the analysis, in addition to the test results.						
0.134	Top Soil conservation						
0.135	Top soil shall be removed for conservation to a depth of 200 mm (not more than 400 mm) and shall be separated from subsoil debris and stones larger than 50 mm diameter.It shall be stockpiled to a height of 400 mm in designated areas. The stockpiled topsoil shall be protected from erosion during storage by installing earthen berms/solid walls, temporary seeding (using native grass), covering with mulch or plastic, etc.The topsoil shall be protected with sand bags/solid walled enclosures (2 feet high) on all sides for containment.Appropriate drainage channels shall be dug around the storage area to prevent flooding of the top soil storage area.The top soil shall be reapplied to site during plantation of the proposed vegetation as finished grade for planting areas.Seeding will take place immediately after resspreading topsoil and decompacting, unless timing is inappropriate (for e.g., not in mid-summer).						
0.136	The contractor to identify erosion prone areas on site and protect them from construction activities throughout the construction period. Prevent / mitigate the disturbances caused to site due to construction activity.						

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0.137	The contractor shall execute a sedimentation and erosion control plan that conforms to the best management practices highlighted in the National Building Codes of India (NBC) Part 10, section 1, Chapter 4 – Protection of Landscape during Construction. This standard describes two types of measures that can be used to control sedimentation and erosion. Stabilization measures include temporary seeding, permanent seeding and mulching. Structural control measures include earth dikes, silt fence, sediment trap, and sediment basin. All of these measures are intended to stabilize the soil to prevent erosion.						
0.138	The erosion and sedimentation control plan must be approved by Employer/ Employer's Representative and the erosion sedimentation control plan must be maintained throughout the execution period.						
0.139	The contractor shall execute measures of protection and preservation of existing landscape on site during entire construction time.						
0.14	Design, execute and maintain a temporary storm water management layout for the duration of construction activity. The storm water management layout should conform to National Building Codes of India (NBC) Part 10, section 1, chapter 4 – Protection of Landscape during Construction.						
0.141	Contractor should take measures to prevent entry of any soluble/ insoluble construction waste to enter the water table/ water ways/ ravines on site.						
1	1.0) ARCHITECTURAL WORKS						
1.001	1.1) PLASTER WORKS						
1.002	1.1.1) External Wall Plaster						
1.003	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	item1	4965.00	sqm		0.00	INR Zero Only
1.004	1.1.2) Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.						
1.005	1.1.2.1) from 10 to 13.0m	item2	93.00	sqm		0.00	INR Zero Only
1.006	1.1.2.2) from 13.0 to 16.0m	item3	11.00	sqm		0.00	INR Zero Only
1.007	1.1.2.3) from 16.0 to 19.00	item4	300.00	sqm		0.00	INR Zero Only
1.01	1.1.3) Forming groove of uniform size from 10 to 15mm x 6 mm (one even size) in plastered surface as per approved pattern using wooden battens, nailed to the under layer including removal of wooden/ PVC battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and direction of the Engineer.	item5	1681.00	meter		0.00	INR Zero Only
1.011	1.1.4) Internal Wall Plaster						
1.012	1.1.4.1) 12 mm cement plaster of mix 1:6 (1 cement : 6 coarse sand)	item6	12662.00	sqm		0.00	INR Zero Only
1.013	1.1.5) Cement Putty						
1.014	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	item7	12662.00	sqm		0.00	INR Zero Only

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1.015	1.1.6) Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite/perlite respectively conforming to IS: 2547 (Part - 1 & II) 1976, applied on hacked / uneven background such as bare brick/ block/ RCC work on walls & ceiling at all floors and locations, finished in smooth line and level etc. complete	item8	17016.00	sqm		0.00	INR Zero Only
1.016	1.1.7) Ceiling Plaster						
1.017	1.1.7.1) 6 mm cement plaster of 1:3 of Mix 1:3( 1Cement:3 fine sand)	item9	8331.00	sqm		0.00	INR Zero Only
1.018	1.1.8) Providing & Fixing chicken wire mesh / wired fabric (12.5mm x 24 SWG) in strips of 200 mm widths or as required over junctions between concrete & brick / block masonry at all heights and locations prior to plastering including drilling, nailing etc complete as directed by Engineer In Charge.	item10	2344.00	sqm		0.00	INR Zero Only
1.019	1.1.9) Extra for providing and mixing water proofingmaterial in cement plaster work in proportion recommended by the manufacturers	item11	505.00	Per bag of 50 kg cement		0.00	INR Zero Only
1.02	1.1.10) Extra for plastering on circular work notexceeding 6 m in radius						
1.021	1.1.10.1) In two coats	item12	168.00	sqm		0.00	INR Zero Only
1.022	1.2) FLOORING, SKIRTING AND DADO WORKS						
1.023	1.2.1) Kota Flooring						
1.024	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cementmortar 1 : 4 (1 cement : 4 coarse sand) : 25mm thick	item13	870.00	sqm		0.00	INR Zero Only
1.025	1.2.2) Kota stone Tread Risers						
1.026	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing, making machine cut groves as per drawing needs, making necesory cutouts for railing including pre finished nosing in treads of steps of Kota stone complete.	item14	170.00	sqm		0.00	INR Zero Only
1.03	1.2.4) Granite Stone Flooring						
1.031	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent	item15	2620.00	sqm		0.00	INR Zero Only
1.032	1.2.5) Granite Stone Tread Risers						

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1.033	Providing and laying Polished Granite stone flooring in risers of steps, skirting, dado and pillars with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing , making machine cut groves as per drawing needs, making neccessory cutouts for railing including prefinished nosing in treads of steps & using single length up to 2.00 metre.etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent	item16	20.00	sqm		0.00	INR Zero Only
1.034	1.2.6) Granite stone Wall Cladding						
1.035	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.8mm thick Granite of any colour and shade	item17	1.00	sqm		0.00	INR Zero Only
1.036	1.2.7) Vitrified Tile Flooring						
1.037	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. as per direction of Engineer in charge.						
1.038	1.2.7.1) Size of Tile 600x600 mm	item18	3050.00	sqm		0.00	INR Zero Only
1.04	1.2.8) Ceramic Tile Dado						
1.041	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	item19	870.00	sqm		0.00	INR Zero Only
1.042	1.2.9) Access/ False Floor						
1.043	Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :						

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1.044	a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mm x 75mm x 3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.						
1.045	b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.						
1.046	c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.						
1.047	450 mm Finished Floor Height (FFH).	item20	34.00	sqm		0.00	INR Zero Only
1.048	1.2.10) Wooden Flooring						
1.049	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws, polishing complete with :						
1.05	Second class teak wood	item21	124.00	sqm		0.00	INR Zero Only
1.051	1.2.11) Granite Kitchen/ Basin Platforms						

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1.052	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.						
1.053	Area of slab over 0.50 sqm	item22	103.00	sqm		0.00	INR Zero Only
1.054	1.2.12) Granite Facia/drops						
1.055	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	item23	110.00	metre		0.00	INR Zero Only
1.056	1.2.13) Extra For cutout for Sink						
1.057	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edgesetc. complete.	item24	6.00	each		0.00	INR Zero Only
1.058	1.2.14) Urinal Partitions						
1.059	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.						
1.06	Granite Stone of approved shade	item25	14.00	sqm		0.00	INR Zero Only
1.061	1.2.15) Epoxy Flooring						
1.062	Providing and applying antifungal self leveling 3mm EPU ( epoxy-polyurethane) topping system including coving at floor wall junction, necessary surface preparation by cleaning and de-dusting. The System shall be executed in three stages, firstly by applying a solvent free epoxy primer which has a volumetric ratio of mixing @ 200 microns dft, then laying 1.8mm self leveling epoxy based screed and finally applying a solvent free EPU ( epoxy- polyurethane), self leveling coating to yield a dft of 1000 microns. The EPU coating shall be a two component with volumetric ratio of mixing. No fillers shall be added at the site while laying the self leveling EPU including Aisle or zone marking in different colours etc. complete as directed & approved by Engineer In-Charge.	item26	1176.00	sqm		0.00	INR Zero Only
1.063	1.3) PAINTING WORKS						
1.064	1.3.1) OBD						
1.065	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :						
1.066	New work (two or more coats) over and including water tinnable priming coat with cement primer	item27	5891.00	sqm		0.00	INR Zero Only

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1.067	1.3.2) Premium Acrylic Emulsion Paint						
1.068	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.						
1.069	Two coats	item28	8376.00	sqm		0.00	INR Zero Only
1.07	1.3.3) Synthetic Enamel Paint ( Low VOC)						
1.071	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.						
1.072	Two coats	item29	45.00	sqm		0.00	INR Zero Only
1.073	1.3.4) WeatherProof Exterior Paint						
1.074	Finishing walls with Premium Acrylic Smooth exteriorpaint with Silicone additives of required shade :						
1.075	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	item30	6311.00	sqm		0.00	INR Zero Only
1.076	1.3.5) Textured Paint						
1.077	Finishing walls with textured exterior paint of requiredshade :						
1.078	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm	item31	45.00	sqm		0.00	INR Zero Only
1.079	1.3.6) Cement Paint						
1.08	Finishing walls with water proofing cement paint ofrequired shade :						
1.081	New work (Two or more coats applied @ 3.84 kg/10 sqm)	item32	1000.00	sqm		0.00	INR Zero Only
1.082	1.3.7) Epoxy Paint						
1.083	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat,preparation of surface, etc. complete.						
1.084	On steel work	item33	150.00	sqm		0.00	INR Zero Only
1.085	1.3.8) Applying priming coats with primer of approved brand and manufacture, having low VOC (VolatileOrganic Compound) content.						
1.086	1.3.8.1) With water thinnable cement primer on wallsurface having VOC content less than 50 grams/litre	item34	8376.00	sqm		0.00	INR Zero Only
1.087	1.3.8.2) With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	item35	26.00	sqm		0.00	INR Zero Only
1.088	1.3.9) melamine polish on wood work ( one or more coat)	item36	26.00	sqm		0.00	INR Zero Only
1.089	1.4) FALSE CEILING, PARTITION, WALL LINING ETC.						
1.09	1.4.1) 12.5 mm gypsum fire resistant board						



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1.091	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c.	item37	292.00	sqm		0.00	INR Zero Only
1.092	including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I						
1.093	1.4.2) PVC Laminated Gypsum Tiles						

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1.094	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.	item38	1499.00	sqm		0.00	INR Zero Only
1.095	12.5mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.						
1.096	1.4.3) Providing & Fixing of Armstrong or Equivalent Soft Fibre Accosuticle Suspended System with Optra ( Vector) Edge tiles with armstron 38mmsemi concealed system or equivalent. The tiles should have Humidity resistance ( RH) of 95%, NRC 0.9-1.00, Light reflectance>85%, Thermal Conductivity K=NA w/m k, fire performance UK class0/class1( BS476PT-6 &7), in module size of 600x600x20 suitable for Green Building application, with recycled content of 66% GW & 74% RW. ceiling system have Armstrong Silhouette 15mm suspension system having rotary stitching on all T sections, i.e. main runner ,1200mm special Tees ( ( without override & end details) , need to be installed with suspension system of Armstong make or equivalent. The tile & Grid System used together should carry a 30 year warranty.	item39	151.00	sqm		0.00	INR Zero Only

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1.097	The rate shall include making cutouts for various lights, duct doors,grills for specified size etc for which no extra will be paid separately. Rate also include providing addiitonal trims at the ends , middle & aroundd cutouts for light fittings/AC grills and providing additional supports from ceiling wheer main/cross members are cut due to light fittings/ACgrills etc; complete all as per trim detail drawing. Teh rate shall include the cove as per dwg ( no extra RMT will be paid for any cove patta) verticle as well horizontal surfaces as per detailed dwg. Actual " visible" surfaces of horizontal and verticle will be measured and paid						
1.098	1.4.4) Providing & Fixing of Armstrong or Equivalent wall panelling - Optra Acoustic wall panelling with square edges made of the glass substrate 25mm thick & wrapped on the front side with accousticly transparent and classified for firereaction Class B-S1,d1 as Per EN13501, Fabric with an option of colours ivory, autumn orange, Pista green, starw gold Rustic Green,Burgundy,Rust, Peacock Blue, Asg Grey, Mocha or as per choice of architect , of size 600X1200mm providing a minium sound absorption level 0.90NRC , to be fixed to wall using Wall panel impalers supplied by Armstrong or Equivalent.Fabric panelling to be class I Fire rated with approved mounting system. the product to be Impact moisture and ,ildew resistance.	item40	130.00	sqm		0.00	INR Zero Only
1.099	1.4.5) Providing , fabricating ,assembling,& fixing inposition aluminium partitions						
1.1	1.4.5.1) Alu. Framing for Partitions						
1.101	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in- charge. (Glazing, paneling and dash fasteners to be paid for separately), Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	item41	622.00	kg		0.00	INR Zero Only
1.102	1.4.5.2) Alu. Framing for Doors						
1.103	For shutters of doors, including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	item42	112.00	kg		0.00	INR Zero Only
1.104	1.4.5.3) Glazing in partition & Doors						

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1.105	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).	item43	92.00	sqm		0.00	INR Zero Only
1.106	1.4.5.4) Prelaminated Particle Board						
1.107	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling bottom fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.- Pre-laminated particle board with decorative lamination on both sides	item44	34.00	sqm		0.00	INR Zero Only
1.108	1.4.5.5) Hydraulic Floor Spring for Doors						
1.109	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge: stainless steel cover plate minimum 1.25 mm thickness	item45	3.00	each		0.00	INR Zero Only
1.11	1.4.6) Modular toilet Partitions: Providing & fixing in position 12mm thick High Pressure laminated Toilet cubicles of Size 1100mm(w)X1500mm(L)x 2100mm(Ht),door size 610mm(w)X1925mm( Ht) with SS legs including all necessary hardware's of SS304 & SS door nob, SS privacy thumb, SS Coat Hook, Door Stopper.Make merino titan box up series or equivalent	item46	20.00	sqm		0.00	INR Zero Only
1.111	1.5) DOORS, WINDOWS, GLAZING, CLADDING,FAÇADE ETC.						
1.112	1.5.1) Wood Work For Frames						
1.113	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).						
1.114	Second class teak wood	item47	8.00	cum		0.00	INR Zero Only
1.115	1.5.2) Dash Fasteners t door frames						
1.116	Providing and fixing carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.						
1.117	10X120mm	item48	7.00	each		0.00	INR Zero Only
1.118	1.5.3) Pressed steel door frames						

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1.119	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: Profile B Fixing with adjustable lugs with split end tail to each jamb	item49	392.00	metre		0.00	INR Zero Only
1.12	1.5.4) Flush Doors						
1.121	1.5.4.1) Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters						
1.122	1.5.4.2) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws & finishing as per Engineer in charge	item50	240.00	sqm		0.00	INR Zero Only
1.123	1.5.4.3) Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I) ON One side only	item51	240.00	sqm		0.00	INR Zero Only
1.124	1.5.4.4) Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	item52	240.00	sqm		0.00	INR Zero Only
1.125	1.5.4.5) Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):						
1.126	1.5.4.5.1) Rectangular or Square	item53	37.00	sqm		0.00	INR Zero Only
1.127	1.5.5) Providing and fixing pre-polished Granite Stone work for wall lining 200mm - 300mm wide, on 12mm thk cement mortar 1:3 (1 cement : 3 fine sand), inclusive of all mitred joinery inclusive of all necessary joinery in Araldite and cement paste etc. All exposed surfaces and edges to be chamfered and mirror polished with 6mm wide groove to be made in wall at the junction of stone and finished surface of wall including scaffolding, curing etc. complete as directed by Engineer In Charge. Polished Granite stone slab shall be Jet Black, Cherry Red, Elite Brown, Cat Eye or approved equivalent	item54	13.00	rmt		0.00	INR Zero Only
1.128	1.5.6) FRP doors frames						
1.129	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	item55	75.00	metre		0.00	INR Zero Only
1.13	1.5.7) FRP doors shutters						

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1.131	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	item56	35.00	sqm		0.00	INR Zero Only
1.132	1.5.8) Toughened Glass Doors						
1.133	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door Handle, Lock and Stopper To be paid separately)	item57	10.00	sqm		0.00	INR Zero Only
1.134	1.5.9) Providing and fixing ss 304-handles 600mm inlength of dorma or equivalent make, complete as per direction of Engineer-in-charge.	item58	1.00	nos		0.00	INR Zero Only
1.135	1.5.10) Providing and fixing dorma or equivalent make universal corner lock with locking plate & including all necessary accessories with ss polish , complete as perdirection of Engineer-in-charge.	item59	1.00	nos		0.00	INR Zero Only
1.136	1.5.11) Aluminum Doors Windows Ventilators						
1.137	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in- charge. (Glazing, paneling and dash fasteners to be paid for separately) ,Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)						
1.138	doors , windows,ventilators main frame	item60	850.00	kg		0.00	INR Zero Only
1.139	1.5.12) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)						
1.14	doors windows shutter frames	item61	700.00	kg		0.00	INR Zero Only
1.141	1.5.13) Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in- charge. (Cost of aluminium snap beading shall be paid inbasic item):						

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1.142	1.5.13.1) With float glass panes of 5.0 mm thickness	item62	300.00	sqm		0.00	INR Zero Only
1.143	1.5.13.2) With float glass panes of 8 mm thickness	item63	30.00	sqm		0.00	INR Zero Only
1.144	1.5.13.3) With Frosted glass panes of 4 mm thickness	item64	18.00	sqm		0.00	INR Zero Only
1.145	1.5.14) Prelaminated Particle Board						
1.146	1.5.14.1) Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling for bottom panel of 0.9m, fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in- charge.- Pre-laminated particle board with decorative lamination on both sides	item65	30.00	sqm		0.00	INR Zero Only
1.147	1.5.15) Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in- charge complete.Upto 5mm depth and 5mm width	item66	450.00	Metre		0.00	INR Zero Only
1.148	1.5.16) Structural Glazing						
1.149	1.5.16.1) Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. ( The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).	item67	423.00	kg		0.00	INR Zero Only

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1.15	1.5.16.2) Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including: (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including: (b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.	item68	62.00	sqm		0.00	INR Zero Only
1.151	(c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass. (d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight. (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.						



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1.152	The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge. Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places. Note:-2. The following performance test are to be conducted on structural glazing system if area of area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately.						
1.153	The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories 1. Performance Laboratory Test for Air Leakage Test (- 50pa to - 300pa) & (+50pa to +300pa) as per ASTM E- 283-04 testing method for a range of testing limit 1 to 200 mVhr 2. Static Water Penetration Test. (50pa to 1500pa) as per ASTME- 331-09 testing method for a range up to 2000 ml. 3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml 4. Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTME-330- 10 testing method for a range upto 50 mm 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test Tests to be conducted on site. 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml						

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1.154	1.5.16.3) Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6- 12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge.	item69	46.00	sqm		0.00	INR Zero Only
1.155	The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of above item No. 1.5.13.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.						
1.156	1.5.16.4) Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineerin- Charge.	item70	7.00	sqm		0.00	INR Zero Only

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1.157	1.5.16.5) Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in-Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.(Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevent Item*). (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35%, Light reflection internal 10 to 15%, light reflection external 10 to 20%, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	item71	10.00	sqm		0.00	INR Zero Only
1.158	1.5.17) Rolling Shutter						
1.159	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.						
1.16	1.5.17.1) 80x1.25 mm M.S. laths with 1.25 mm thick top cover	item72	253.00	sqm		0.00	INR Zero Only
1.161	1.5.17.2) Providing and fixing ball bearing for rolling shutters.	item73	26.00	each		0.00	INR Zero Only
1.162	1.5.17.3) Extra for providing mechanical device chain and crank operation for operating rolling shutters.						
1.163	1.5.17.5) Exceeding 16.80 sqm in area	item74	174.00	sqm		0.00	INR Zero Only
1.164	1.5.17.6) Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).	item75	113.00	sqm		0.00	INR Zero Only
1.165	1.5.18) Door Accessories						
1.166	1.5.18.1) Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws, etc. complete	item76	27.00	each		0.00	INR Zero Only
1.167	i) Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :150X10mm	item77	152.00	each		0.00	INR Zero Only

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1.168	1.5.18.3) Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :250X10mm	item78	9.00	each		0.00	INR Zero Only
1.169	1.5.18.4) Providing and fixing bright finished brass handles with screws etc. complete:100 mm	item79	229.00	each		0.00	INR Zero Only
1.17	1.5.18.5) Providing and fixing bright finished brass handles with screws etc. complete:125 mm	item80	93.00	each		0.00	INR Zero Only
1.171	1.5.18.6) Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	item81	71.00	each		0.00	INR Zero Only
1.172	1.5.18.7) Providing and fixing bright finished brass door latch with necessary screws etc. complete :250x16x5 mm	item82	291.00	each		0.00	INR Zero Only
1.173	1.5.18.8) Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	item83	53.00	each		0.00	INR Zero Only
1.174	1.5.18.9) Grab bars/ pull bars made of SS 304 for disabled toilet doors	item84	2.00	each		0.00	INR Zero Only
1.175	1.5.18.10) Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :100mm	item85	1.00	each		0.00	INR Zero Only
1.176	1.5.18.11) Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete : 200X10mm	item86	32.00	each		0.00	INR Zero Only
1.177	1.5.18.12) Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125mm	item87	64.00	each		0.00	INR Zero Only
1.178	1.5.18.13) Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised(anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete:-Single rubber stopper	item88	2.00	each		0.00	INR Zero Only
1.179	1.5.18.14) Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	item89	16.00	each		0.00	INR Zero Only
1.18	1.5.18.15) Providing and fixing concealed latch for the sliding windows , with approved qquality ,colour as matched the powercoating colour of aluminium window sections with necessary screws etc complete as per direction of Engineer- in-charge.	item90	30.00	each		0.00	INR Zero Only
1.181	1.5.19) Air Transfer Grills to Door						

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1.182	Providing and fixing powder coated (powder coating not less than 40 microns) non vision extruded aluminium "Air Transfer Grill" of required sizes to be fixed in the opening made in the laminated/ non decorative flush door shutters. The grill shall be with minimum 1.20 mm thick aluminium sections, in approved size, shade, and pattern, shape, as per the aproved drawing and as per directions of Engineer in charge. Rate shall be inclusive of cutting the door shutter as per approved grill size, providing and fixing required depth of teak wood lipping on the cutting edges of opening of flush door shutter with finishing. :- 6mm thick Compact Sheet						
1.183	1.5.19.1) 0.450X0.300	item91	9.00	each		0.00	INR Zero Only
1.184	1.5.19.2) 0.600x0.300	item92	3.00	each		0.00	INR Zero Only
1.185	1.5.20) Panic Bar						
1.186	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete	item93	14.00	each		0.00	INR Zero Only
1.187	1.5.21) Fire rated Doors						
1.188	Providing & Fixing two hour fire rated single / double leaf openable doors with fire retardant infill paanel of "Shakti" or equivalent, of zinc coated steel frame, single rebate profile of size 100 x 57 mm with bending radius of 1.2 mm, fabricated using 1.20 mm thick galvanized steel sheet (18 gauge) and Fully flush type of 46 mm thick Single / Double leaf shutters, of Pressed Galvanized steel sheet conforming to IS 277, conforming to IS 3614 ( Part 2 ) 1992 BS467 ( Part 20 & 22 0 & ISO834, with electrostatic powder coating or polyurethane coating, including vision glass panel 300X450mmm & fire rated all fixtures and fastenings as specified like SS double ball bearing butt hinges 3nos per shutter, tower bolts 1 no, door stoppers 2 no, SS Handle 19mm Dia, 250 mm long with both side key operation (as approved by the CONSULTANT) and two aldrops per shutter, and providing Master key, Grand master key etc complete as directed by Engineer In Charge.	item94	110.00	sqm		0.00	INR Zero Only
1.189	1.5.22) Cement Fibre Board						
1.19	Supplying and installation of moisture resistant/fire resistant 8 mm thick Heavy duty fiber cement board (High pressure steam cured) conforming to IS 14862:2000 of category III type B as per standard sizes fixed with self- drilling / tapping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm, Steel frame shall be paid separatly.	item95	19.00	sqm		0.00	INR Zero Only
1.191	1.5.23) GRC Jali						
1.192	Providing & Fixing Glas Reinforced Jalli works cast in custom designed moulds as per design detail including frame to hold it.	item96	65.00	sqm		0.00	INR Zero Only
1.193	1.5.24) Precast Cement Jali						

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1.194	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits & fixing						
1.195	40 mm thick	item97	50.00	sqm		0.00	INR Zero Only
1.196	1.5.25) Mirror						
1.197	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	item98	33.00	each		0.00	INR Zero Only
1.198	1.5.26) Providing , installation, testing and comissioning of Electric Motor of # Pahse of Max Safe laod carrying Capcity 2000kg. TO be installed on Rolling Shutter with necessary fittings , accessories etc complete as per specification and direction of enginner -in -charge( inclusive of 1year Guarantee & warranty)	item99	1.00	Nos.		0.00	INR Zero Only
1.199	1.6) METAL WORKS - RAILING, GRILLS, FABRICATION, ETC.						
1.2	1.6.1) SS Railing						
1.201	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	item100	1132.00	kg		0.00	INR Zero Only
1.202	1.6.2) Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.						
1.203	1.6.2.1) M.S. Tubes	item101	93.00	kg		0.00	INR Zero Only
1.204	1.7) Signages towards Fire Fighting Servicess						
1.205	1.7.1) Providing and installing in position the following types of signboards made out of 3 mm thick "Opaque" PVC foam board with computer cut, PVC non reflective self adhesive vinyl painted foam board, etc. complete with fastners as per direction of Engineer In Charge.						
1.206	1.7.1.1) Floor identification signages ("GOUND FLOOR", "FIRST FLOOR" , etc) at each stair enclosure on every floor, indicating the floor nos. in words. Lettering size size shall be 75 mm with contrasting colour from background. Size shall be 150 mm x 400mm.	item102	8.00	Nos.		0.00	INR Zero Only
1.207	1.7.1.2) Fire Exit Signage (with Hanging chain) at each stair on every floor, any change in direction and 25 m interval as per NBC 2016 indicating the direction of fire exit. Lettering size size shall be 75 mm with contrasting colour from background. Size shall be 150 mm x 400mm.	item103	9.00	Nos.		0.00	INR Zero Only

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1.208	1.7.1.3) Fire Exit Signage (without Hanging chain) at each stair on every floor, any change in direction and 25 m interval as per NBC 2016 indicating the direction of fire exit. Lettering size size shall be 75 mm with contrasting colour from background. Size shall be 150 mm x 400mm.	item104	8.00	Nos.		0.00	INR Zero Only
1.209	1.7.1.4) Fire Extinguisher signage for all fire extinguisher locations, text letter size shall be 75 mm with contrasting colour from background. Size shall be 150 mm x 400mm.	item105	28.00	Nos.		0.00	INR Zero Only
1.21	1.7.1.5) Fire alarm call point at each stair enclosure on every floor, text letter size shall be 75 mm with contrasting colour from background. Size shall be 150 mm x 400mm.	item106	6.00	Nos.		0.00	INR Zero Only
1.211	1.7.1.6) Fire hose reel signage for fire shaft location, text letter size shall be 75 mm with contrasting colour from background. Size shall be 150 mm x 400mm.	item107	6.00	Nos.		0.00	INR Zero Only
1.212	1.7.1.7) Fire evacuation plan of A3 size at 25m interval with contrasting colour from background. Size shall be 300 mm x 450mm.	item108	8.00	Nos.		0.00	INR Zero Only
2	2.0) CIVIL WORKS						
2.015	2.2) EARTH WORK						
2.016	2.2.1) Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 500 m and lift upto 1.5 m, as directed by Engineer-in-charge.						
2.017	2.2.1.1) All kinds of soil	item109	1235.00	cum		0.00	INR Zero Only
2.018	2.2.2) Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 500 m.						
2.019	2.2.2.1) All kinds of soil	item110	160.00	cum		0.00	INR Zero Only
2.02	2.2.3) Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.						
2.021	2.2.3.1) All kinds of soil.	item111	499.00	cum		0.00	INR Zero Only
2.022	2.2.4) Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 500 m and lift upto 1.5 m, as directed by Engineer-incharge						
2.023	2.2.4.1) Ordinary rock	item112	10.00	cum		0.00	INR Zero Only
2.026	2.2.7) Providing and laying minimum 230 mm thick dry rubble (soling) packing for foundation with approved hard stone set in regular lines, hand packed, filling the interstices with small stone chips and sand, ramming, watering and compacting, etc. complete as directed by Engineer-In-Charge.	item113	3600.00	Sqm		0.00	INR Zero Only

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2.028	2.2.8A) Filling in Plinth with non expansive approved local earth locally known as Hill earth or approved equivalent, free from vegetations, brought from outside including supply in layers not exceeding 20 cms in thickness, confining the fill, and consolidating / compacting the deposited layer by mechanical means / compactors, plate vibrators and watering etc., to achieve desired density as specified complete as per specification and as directed by Engineer-In-Charge. (Quoted rate to include cost of compaction to achieve at least 95% modified Proctor Density)	item114	900.00	cum		0.00	INR Zero Only
2.029	2.2.9) Providing and injecting chemical emulsion for pre- construction anti termite treatment and creating a chemical barrier using Chloropyriphos Emulsifiable 1.0 % concentration or Imidacloprid Emulsifiable 0.075% concentration by weight below grade slab, Plinth Beams and Columns, along the external perimeter of building including back fill soil, expansion joints, surrounding of pipes, water conduits or at places suggested by Engineer/ Site-in-charge etc complete as per IS 6313 Part II and Technical specification. (Plinth Area at ground floor only shall be measured). Contractor shall give a performance guarantee of 10 years)	item115	3600.00	sqm		0.00	INR Zero Only
2.03	2.2.10) Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :						
2.031	2.2.10.1) All kinds of soil						
2.032	2.2.10.1.1) Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	item116	200.00	metre		0.00	INR Zero Only
2.033	2.2.10.1.2) Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	item117	20.00	metre		0.00	INR Zero Only
2.034	2.2.11) Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m.						
2.035	2.2.11.1) All kinds of soil						
2.038	2.2.12) Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :						
2.039	2.2.12.1) Ordinary rock :						
2.04	2.2.12.1.1) Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	item118	200.00	metre		0.00	INR Zero Only
2.041	2.2.13) Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (including dewatering)						



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2.042	2.2.13.1) Ordinary rock :						
2.044	2.2.14) Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.						
2.046	2.2.15) Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.						
2.048	2.2.16) Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift above 1.5 m and upto 3m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.						
2.05	2.2.17) Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :						
2.053	2.3) PLAIN CEMENT CONCRETE WORK						
2.054	2.3.1) Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
2.055	2.3.1.1) "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	item119	330.00	cum		0.00	INR Zero Only
2.056	2.3.1.2) 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size).	item120	10.00	cum		0.00	INR Zero Only
2.057	2.3.2) Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars,posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :						
2.058	2.3.2.1) 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	item121	10.00	cum		0.00	INR Zero Only
2.059	2.3.2.2) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	item122	10.00	cum		0.00	INR Zero Only
2.06	2.3.3) Extra for concrete work in superstructure above floor V level for each four floors or part thereof.						
2.061	2.3.3.1) 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	item123	10.00	cum		0.00	INR Zero Only

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2.062	2.3.4) Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	item124	286.00	sqm		0.00	INR Zero Only
2.063	2.3.5) Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20mm nominal size).	item125	38.00	sqm		0.00	INR Zero Only
2.064	2.3.6) Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	item126	33.00	sqm		0.00	INR Zero Only
2.065	2.3.7) Providing and laying 1:5:10 mix Plum concrete with maximum size of aggregates as 40mm and plums upto 200mm size and upto 30% by volume of concrete mix, for filling in plinth, underside of foundations, etc., complete.	item127	55.00	cum		0.00	INR Zero Only
2.066	2.4) REINFORCED CEMENT CONCRETE WORK						
2.067	FORMWORK						
2.068	2.4.1) Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
2.069	2.4.1.1) Foundations, footings, bases of columns, etc. for mass concrete.	item128	160.00	sqm		0.00	INR Zero Only
2.07	2.4.1.2) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	item129	3520.00	sqm		0.00	INR Zero Only
2.071	2.4.1.3) Suspended floors, roofs, landings, balconies and access platform	item130	9442.00	sqm		0.00	INR Zero Only
2.072	2.4.1.4) Lintels, beams, plinth beams, girders, bressumers and cantilevers	item131	11196.00	sqm		0.00	INR Zero Only
2.073	2.4.1.5) Columns, Pillars, Piers, Abutments, Posts and Struts	item132	9254.00	sqm		0.00	INR Zero Only
2.074	2.4.1.6) Stairs, (excluding landings) except spiral- staircases	item133	271.00	sqm		0.00	INR Zero Only
2.075	2.4.1.7) Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	item134	19.00	sqm		0.00	INR Zero Only
2.076	2.4.1.8) Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	item135	30.00	sqm		0.00	INR Zero Only
2.077	2.4.1.9) Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).						
2.078	2.4.1.9.1) Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	item136	952.00	sqm		0.00	INR Zero Only
2.079	2.4.1.10) Cornices and mouldings	item137	9.00	sqm		0.00	INR Zero Only
2.08	2.4.1.10.1) Extra for shuttering in circular work of foundations, footings, bases of columns, etc. including machine / equipment foundations for mass concrete	item138	11.00	sqm		0.00	INR Zero Only

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2.081	Reinforcement Note:- 1) The reinforcement consumed shall be measured as per client approved measurements. 2) The excess quantity of reinforcement steel more than allowable wastage shall be recovered from as per relevant ACC clauses						
2.082	2.4.2) Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
2.083	2.4.2.1) Thermo-Mechanically Treated bars HYSD Fe500D or more (Excluding Cost of Steel including fabrication and binding wire etc.)	item139	14938.00	kg		0.00	INR Zero Only
2.0833	2.4.2.1 a) Thermo-Mechanically Treated bars HYSD Fe500D or more including supply and fabrication	item140	28000.00	Kg		0.00	INR Zero Only
2.084	2.4.3) Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.						
2.085	2.4.3.1) Thermo-Mechanically Treated bars HYSD Fe500D or more (Excluding Cost of Steel including fabrication and binding wire etc.)	item141	300000.00	kg		0.00	INR Zero Only
2.0855	2.4.3.1 a) Thermo-Mechanically Treated bars HYSD Fe500D or more including supply and fabrication	item142	117000.00	kg		0.00	INR Zero Only
2.086	Concrete						
2.087	2.4.4) Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of cantering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete,improve workability without impairing strength and durability as per direction of the Engineer-in-charge. (Note :- Minimum Cement content shall be 350 kg/cum)						
2.088	2.4.4.1) All works upto plinth level	item143	341.00	cum		0.00	INR Zero Only
2.089	2.4.4.2) All works above plinth level upto floor V level	item144	2900.00	cum		0.00	INR Zero Only
2.091	2.4.5) Extra for providing richer mixes at all floor levels.						
2.092	2.4.5.1) Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Minimum Cement content shall be 360 kg/cum)						
2.093	2.4.5.1.1) All works upto plinth level	item145	156.00	cum		0.00	INR Zero Only
2.094	2.4.5.1.2) All works above plinth level upto floor V level	item146	2900.00	cum		0.00	INR Zero Only
2.103	Expansion Joint						

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2.104	2.4.7) Providing and fixing Pre-formed joint fillers "Shalitex" or equivalent board with bitumen primer as adhesive to concrete and masonry surfaces in separation/expansion joints including 200 micron PVC sheet on top to avoid ingress of cement slurry in Shalitex board or equivalent complete as per direction of engineer in charge.						
2.105	2.4.7.1) 12 mm thick	item147	93.00	sqm		0.00	INR Zero Only
2.108	2.4.10) Supplying, fabricating, delivering at site and fixing in position M.S. inserts as per drawing made out of rolled steel sections, plates, angles, bars, including cleaning, Grinding and removing the welding burr, scales, and preparing surface for and applying one coat of red oxide zinc chromate primer and Two coats of Synthetic Enamel paint after fabrication etc. complete as directed by Engineer In Charge.	item148	931.00	kg		0.00	INR Zero Only
2.109	2.4.11) Supplying, Fabricating and fixing in position PVC pipe sleeves of length not exceeding 450mm and confirming to IS 13592 :1990 typeB up to 150 mm and IS 4985 of 6 kg pressure 150 mm and above in concrete or in masonry at any level and location as shown on drawings including jointing, encasing, bending, threading, etc complete as directed by engineer in charge.						
2.11	2.4.11.1) Upto 75mm	item149	29.00	metre		0.00	INR Zero Only
2.111	2.4.11.2) 100 mm dia	item150	16.00	metre		0.00	INR Zero Only
2.112	2.4.11.3) 150 mm dia	item151	5.00	metre		0.00	INR Zero Only
2.113	2.4.12) Providing and applying water swellable-bar at starter & all construction joints, of c/section 20mmX5mm, it shall have unrestrained volumetric expansion more than 200% in 30 days, Hydrostatic pressure resistance of 50 meters. It shall be fixed to the concrete using a gun grade hydrophilic adhesive / or mechanically fixed by non corrosive nailing as recommended by manufacturer complete as directed by engineer in charge.	item152	121.00	metre		0.00	INR Zero Only
2.114	2.4.13) Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints. 200 mm wide	item153	28.00	metre		0.00	INR Zero Only

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2.115	2.4.13.1) Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical locations in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge. (Material shall conform to ASTM 6063).						
2.116	2.4.13.1.1) Floor Joint of 100 mm gap	item154	20.00	metre		0.00	INR Zero Only
2.117	2.4.13.2) Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall conform to ASTM 6063.)						
2.118	2.4.13.2.1) Wall Joint of 100 mm gap	item155	7.00	metre		0.00	INR Zero Only

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2.119	2.4.13.3) Providing and fixing of expansion joint system of approved make and manufacture for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates as per ASTM B221-02. The system shall be such that it provides water tight roof to roof /roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel.						
2.12	Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063.)						
2.121	2.4.13.3.1) Roof Joint of 100 mm gap	item156	25.00	metre		0.00	INR Zero Only
2.122	2.4.14) Designing, Detailing, Providing and installing 50 / 75mm thk SNPG-400 expansion joint system or approved equivalent for wall to wall and wall to column joints at all levels and locations designed for multi- directional movement and comprised of continuous extruded cover plate and snap-locked to base frame (Cover plate shall be fixed with continuous seal at both end of top plate) conforming to ASTM 6063 and in accordance with the drawings and manufacturers specifications including all necessary material and works etc. complete for satisfactory performance of the system as directed by Engineer-In-Charge. Note: 1) The system shall be 100% waterproof and shall be designed for underground waterpressure of 4.5m. 2) Contractor shall submit leakproof guarantee bond for waterproofing of entire expansion joint system on the on court fee stamp of Rs. 100/- or of appropriae value in the approved format for 10 years after completion and handing over the building to the owner.	item157	13.00	metre		0.00	INR Zero Only

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2.123	2.4.15) Providing and placing in position 100mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath, trenches and chambers of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways, neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick, 100mm wide MS sheet duly painted over priming coat, reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in- Charge.	item158	19.00	cum		0.00	INR Zero Only
2.124	2.4.16) Providing and casting in Situ Reinforced Cement Concrete shall be minimum M25 for slab on grade or on floor with coarse aggregate of size 20mm downgraded excluding reinforcement but including side shuttering and construction in panels / staggered strip method, finishing the concrete with power floater and Ride on Trowel (ROT) as per the specifications, including providing necessary construction/ contraction / expansion /isolation joints as shown on drawing and joints required at various locations like equipment foundations, columns, walls, etc of size 5 mm wide x 50 mm deep & filling with Polysulphid sealant applied over primer laid as per manufacturer's specification/ drawings etc complete as directed by Engineer In Charge.	item159	346.00	cum		0.00	INR Zero Only
2.125	2.4.16.1) Extra over above item of slab on grade and floor slab, for Vacuum processing of concrete slab to remove surplus water using TREMIX VACUUM SYSTEM or approved equivalent including necessary surface vibration, floating of surface with power trowel after vacuum processing to obtain clean, smooth / broom & level finished surface etc. complete as directed by Engineer In Charge.	item160	1726.00	sqm		0.00	INR Zero Only
2.126	2.4.17) Providing controlled joint of size 5 mm wide x 25 mm deep for slab on grade by saw cutting with approved mechanical means including & filling with Polysulphide sealant etc. complete as per manufacturer's specification/ drawings and as directed by Engineer In Charge. Note: The groove making shall be done with mechanical saw and operation shall be carried out within 48 Hrs concreting etc complete.	item161	150.00	metre		0.00	INR Zero Only
2.127	2.4.18) Machine Foundations in grade M30 concrete with 20 mm downgraded coarse aggregate, including making pockets, grooves, slots, aligning and inserting anchor bolts, etc as may be necessary, as directed by Engineer In Charge. (Excluding cost of Anchor bolts, and the same shall be paid separately)	item162	5.00	cum		0.00	INR Zero Only
2.128	2.4.19) Grouting pockets, holes, pipe sleeves of any shape or size, column bases, machine bases etc. including supply, mixing, surface cleaning, backing, wedging, finishing, side forms for exposed surfaces with champhering (if any) & curing etc complete as directed by Engineer In Charge with..						

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2.129	2.4.19.1) Non-shrink free flow hydrogen free cement based grout (ready mixed) GP2 or approved equivalent grout of any thickness as directed by 'ENGINEER', etc. complete as directed by Engineer In Charge.	item163	1.00	cum		0.00	INR Zero Only
2.13	2.4.20) Providing & Fixing 75MM thickness of specifically extruded high performance polymer based sheet (SIL FIL of Supreme or equivalent) in expansion joint as filler board, with minimum density 28 kg / Cu. Mt & compression strength of 0.21 Kg / Sq.M, when tested as per ASTM D-3575, including using double sided adhesive of 2 MM x 25 MM x 25 MM at four places per sq.mtr to the casted surface etc complete as directed by Engineer In Charge for.	item164	23.00	sqm		0.00	INR Zero Only
2.131	2.4.21) Providing, supplying and mixing waterproofing compound Conplast X421 IC of Fosroc or approved equivalent conforming to IS:2645-2003 & IS:9103-1999, as per dose recommended by manufacturer etc. complete as directed by Engineer In Charge.	item165	524.00	litre		0.00	INR Zero Only
2.132	2.5) STRUCTURAL STEEL WORK						
2.137	2.5.4) Steel work welded in built up sections/ framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.						
2.138	2.5.4.1) In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	item166	105.00	kg		0.00	INR Zero Only
2.139	2.5.4.2) In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	item167	105.00	kg		0.00	INR Zero Only
2.156	2.6) WATERPROOFING WORK						
2.157	2.6.1) Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	item168	191.00	sqm		0.00	INR Zero Only
2.158	2.6.2) Providing and laying in sunken area with broken AAC Block laid, consolidated, finished smooth, including finishing the top layer with 20 mm water proof cement mortar 1 : 4 (1 cement : 4 coarse sand) with approved water proofing compound as per manufacturer specifications etc. all complete as per directions of the Engineer-in-Charge.	item169	98.00	cum		0.00	INR Zero Only



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2.159	2.6.3) Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.						
2.16	b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						
2.161	c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surfaces with 20 mm thick jointless cement mortar of mix 1:4 (1 cement : 4 course sand) admixed with waterproofing compound conforming to IS :2645 and approved by Enginner in charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300 x 300 mm square and 3 mm deep.						
2.162	e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in- Charge :						
2.163	2.6.3.1) With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	item170	2041.00	sqm		0.00	INR Zero Only
2.164	2.6.4) U.G. TANK / OH WATER TANKS – INTERNAL AREAS						

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2.165	2.6.4.1) Providing & Applying 2 coats of CFTRI approved, waterproof coating with high performance two component pre-packed cementitious waterproofing, with a mix ratio of (liquid: Powder), parts by wt. - 1:1.4 @ 2.2 Kg/sqm to achieve DFT of 1.5mm over the wall & floor surface as per the manufacturers' specification & drawing with the turnkey execution to be done by the manufacturer through its in house subsidiary execution company and with 10 years composite warranty against leakages, to be provided by the principal manufacturer / civil contractor. All the coats to be applied in right angle to each other. The coating shall have following properties: Tensile strength : 2.6 N/mm2 as per ASTM D 412, Elongation at break, % : 120 as per ASTM D 412, Adhesion strength : 1 N/mm2 as per ASTM D 4541, crack bridging : 2mm as per ASTM C 836, Water penetration (5 bar pressure) : 1% as per BS EN 12390, Hardness, Shore A : 60 as per ASTM D 2240, RCPT permeability : 92% as per ASTM C 1202-97, including proper surface preparation as per manufacturers' specification, cleaning work, removal of loose concrete and filling cracks with polymer modified mortar using SBR Latex, URP. All the honeycombed areas & construction joints shall be identified and injected with cement slurry admixed with expansive additive, AM	item171	623.00	sqm		0.00	INR Zero Only
2.166	Making of angle fillets all around the periphery of the wall with polymer modified mortar using SBR Latex, URP, etc, complete. Protection Cum Hygiene Coat: Providing & applying 2 coats of two component, water-based epoxy resin with additive fillers, anti-algae, anti-fungal, Non- flammable, Non-toxic, hygiene cum damp-proof coating @ 4 sqm / Kg, as directed by the manufacturer with the turnkey execution to be done by the manufacturer through its in house subsidiary execution company and with 10 years composite warranty against leakages, to be provided by the principal manufacturer / civil contractor. The coating shall be Certified by CFTRI as per 21 CFR 175 – 300 of US – FDA. Mixing Ratio (Base: Hardner: Water) – 1:1:1, Specific Gravity : 1.2, Water vapour permeance : 244.48 g/m2/24 hrs, as per IS 7809/Pt 2/1977, Adhesion strength: 2.5 N/mm2 as per ASTM D 4541 : 02, as per manufacturers' specification, etc, complete as directed by engineer in charge.						
2.174	2.6.7) WATERPROOF SEALING AROUND THE UTILITIES/ PIPES PASSING THROUGH RCC WALL ETC	item172	36.00	sqm		0.00	INR Zero Only

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2.175	Supplying & sealing the pipe inserts, etc provided in the floor & walls with 1.5 mm thick two sided non-reinforced polymerized bituminous self adhesive Tape, to seal the joint between pipes/inserts and the core cuts. The Tape shall have Softening point (R&B) >60°C as per ASTM D 36, Elongation, (Compound) > 500% as per ASTM D 412, Water absorption at 24 hrs < 0.3 as per ASTM D 570, Water permeability @ 5bar : Nil as per BS EN 12390, Adhesion strength : 1.0 N/mm as per ASTM D 1000, Cold temperature flexibility < -6°C as per UEAtc, followed by grouting the gaps around the pipe / inserts with a non shrink cementitious waterproof grout, 10M, shall conform to ASTM C 109 - 1999 18, ASTM C 1107, Grade C,all followed by sealing with Liquid Applied PU flashing of Flexi PU with reinforcing polyester mesh embedded between the two coats of Flexi PU, at the junction of the pipes and slab / wall area, including proper cleaning of the junctions and sealing the junction with PU sealant conforming to ASTM C-920-S, NS, 25 & BS EN ISO—11600: 2003 Type F & G as per manufacturers' specification, etc, complete as directed by engineer in charge.						
2.184	2.6.9) PARAPET WALL	item173	659.00	sqm		0.00	INR Zero Only
2.185	Waterproofing Treatment:- Providing & Applying 2 coats of waterproof coating with high performance two component pre-packed cementitious waterproofing coating, with a mix ratio of (liquid: Powder), parts by wt. - 1:1.4 @ 2.2 Kg/sqm to achieve DFT of 1.5mm over the wall surface as per the manufacturers' specification & drawing with the turnkey execution to be done by the manufacturer through its in house subsidiary execution company and with 10 years composite warranty against leakages, to be provided by the principal manufacturer / civil contractor. All the coats to be applied in right angle to each other. The coating shall have following properties: Tensile strength : 2.6 N/mm2 as per ASTM D 412, Elongation at break, % : 120 as per ASTM D 412, Adhesion strength : 1 N/mm2 as per ASTM D 4541, crack bridging : 2mm as per ASTM C 836, Water penetration (5 bar pressure) : 1% as per BS EN 12390, Hardness, Shore A : 60 as per ASTM D 2240, RCPT permeability : 92% as per ASTM C 1202-97, including surface preparation as per site condition, etc, complete as directed by engineer in charge..						
2.186	Protection to Waterproof coating – Vertical Surface:						
2.187	Supplying & laying a protective plaster at vertical portion in 15 mm thickness in Sand Cement mortar (1:3) admixed with integral compound conforming to IS 2645, Pidiproof LW+ / Proofsol LWP @ 220ml per bag of cement to vertical surface including application of acrylic bond coat and sand sprinkling to create key to plaster, etc, complete.						
2.188	2.7) MISCELLANEOUS CIVIL WORK ITEMS						

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2.189	2.7.1) Rebar anchoring / dowelling for following diameter of bars including scaffolding , drilling holes to required depth in existing RCC member with due care of PT Tendons, cleaning the holes embedding and fixing reinforcement rods with Fischer Chemical FISV360s / 'lockset' or equivalent compound as per manufacturer's specifications, making good surface to the satisfaction of Engineer, etc complete, as directed by the engineer In Charge. (Reinforcing bars shall be paid in relevant Item)						
2.19	2.7.1.1) 12 mm (160mm min. embedment depth) or as per the design requirement.	item174	103.00	each		0.00	INR Zero Only
2.191	2.7.1.2) 16mm (210mm min. embedment depth) or as per the design requirement.	item175	33.00	each		0.00	INR Zero Only
2.192	2.7.1.3) 20mm (260 mm min. embedment depth) or as per the design requirement.	item176	23.00	each		0.00	INR Zero Only
2.193	2.7.1.4) 25mm (325 mm min. embedment depth) or as per the design requirement.	item177	23.00	each		0.00	INR Zero Only
2.194	2.7.2) Drilling with core cutting machine in RCC slabs, walls etc. wherever required in buildings, manholes, ducts etc. for laying pipes, and making good the same to give an even finish . The rate shall include the cost of drilling core, providing water proofing compound for sealing the joints around the pipes, nominal reinforcement wherever required, scaffolding and labour charges for working at all levels, leads and heights. (Maximum thickness of RCC members shall be 300mm) and as directed by Engineer-In-Charge.						
2.195	2.7.2.1) Upto 200mm dia	item178	6.00	each		0.00	INR Zero Only
2.197	2.7.4) Providing and laying 75 to 100 micron HDPE film over compacted earth/blinded soling to act as vapour barrier including cutting lapping, jointing etc. complete: Rate to include net overlapping of joints by 100mm. Sealing joints with adhesive (Only plan area to be measured for payment). complete as directed by engineer in charge.	item179	1010.00	sqm		0.00	INR Zero Only
2.2	2.7.7) Providing and fixing tapered / parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification", to reinforcement bars including threading, enlargement at connection by forging, retecting the prepared reinforcement bars and related operations as required to complete the works per direction of Engineer-in-Charge. (The length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made)						
2.201	2.7.7.1) Coupler for 20 mm diameter reinforcement bar	item180	98.00	each		0.00	INR Zero Only
2.202	2.7.7.2) Coupler for 25 mm diameter reinforcement bar	item181	79.00	each		0.00	INR Zero Only
2.203	2.7.7.3) Coupler for 32 mm diameter reinforcement bar	item182	65.00	each		0.00	INR Zero Only

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2.204	2.7.8) Providing and fixing skylight of polycarbonate sheet of approved shape/ design 16mm thick Multicell X- structure with maximum 18% transparency and UV (Ultra Violate) protected with necessary fixing system of 60 x 60 and EPDM Rubber gasket fixed to supporting structural steel frame. Polycarbonate sheet will be as approved by Engineer-In-Charge. Fabrication of the skylight will be done from the approved fabricators. (Supporting MS frame shall be included). The unit rate includes the cost of all ancillary works including aluminum antidust tapes, aluminium U-profile to seal the ends as required for proper completion of work as per drawing, specifications and as directed by Developer including the cost of scaffolding, curing, all other accesery & fixing arrangement etc. complete. The surface area of polycarbonate sheet of skylight shall be measured for payment.	item183	706.00	sqm		0.00	INR Zero Only
2.205	2.7.9) Providing and erecting Galvalume / Zinalume Sheets from approved manufacturers / suppliers (Lloyds / Interarch / Tata BlueScope) manufactured with steel of yield strength 550 MPa., 0.5 TCT with metallic organic coating of 150 gem Zinc Aluminium including all accessories like hexa- head, self drilling screws of size no. 12-14 x 15 mm at every crest with EPDM washers and colour head to match colour of sheeting as per approved fabrication drawings, which are to be supplied by contractor including all sides, end laps as per specifications and sealing of laps with silicon non-hardening type sealant and foam filler wherever required as directed by Engineer-in-Charge, making openings as per drawings, including testing for leakages etc. complete. Note: Net covered area will be considered for payment						
2.218	2.7.16) Providing and fixing Chemical Anchor Fasteners of Hilti / Fischer / Mungo Make or equivalent conforming to IS 1367 Part 3 as specified below at required locations and level including drilling the hole, cleaning with blow pump and anchoring the bolt with chemical as per manufacturer's specifications etc complete as directed by Engineer In Charge for..						
2.219	2.7.16.1) M12 x 110	item184	105.00	each		0.00	INR Zero Only
2.22	2.7.16.2) M16 x 125	item185	70.00	each		0.00	INR Zero Only
2.221	2.7.17) Providing granular bedding with carefully compacted backfill at all level using graded hard crusher broken stone 100% passing through 20 m sieve,20-50% passing through 10 mm sieve and 100% retained on 6 mm sieve,laying in layers not more than 15 cm thick including ramming,watering,compaction etc.complete for pipe bedding and surrounding as per drawing and as directed by the engineer in charge.(Width of bedding=OD+400 mm)	item186	30.00	cum		0.00	INR Zero Only
2.222	2.7.18) Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete						
2.223	2.7.18.1) 150 mm dia RCC pipes.	item187	20.00	metre		0.00	INR Zero Only
2.224	2.7.18.2) 300 mm dia RCC pipes.	item188	210.00	metre		0.00	INR Zero Only

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2.225	2.7.18.3) 450 mm dia RCC pipes.	item189	20.00	metre		0.00	INR Zero Only
2.226	2.7.18.4) 600 mm dia RCC pipes.	item190	4.00	Metre		0.00	INR Zero Only
2.227	2.7.19) Providing and constructing inspection chamber of clear inner size 1200mm x 1500mm in 230 mm thick Brick Masonry wall up to depth 1m and 340mm thick from 1 m to 2m depth in cement mortar 1:4 (Bricks shall have minimum crushing strength of 5 N/sq.mm), with 20mm thick waterproof cement plaster in cement mortar 1:3 on outer faces and 12mm thick neat waterproof cement plaster in cement mortar 1:3 on inner faces including 200 mm minimum thick foundation and 150mm thk coping at top in concrete grade M15, plastering and cement rendering chamber bottom, making connections with inlet and outlet pipes, fixing approved quality RCC manhole cover with frame complete including excavation, backfilling, providing and embedding orange coloured safety foot rest of minimum 6 mm thick plastic encapsulation as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, at 300mm c/c, shuttering, de-shuttering, curing, scaffolding, dewatering if necessary etc. complete as per drawing and as directed by Engineer- in-Charge for depth						
2.228	2.7.19.1) Chamber depth up to 1.2 m, for M.D. (Medium duty) Covers & frames conforming to I.S. 12592 Part-I & Part-II. Note: Depth shall be measured from bottom of the chamber cover	item191	6.00	each		0.00	INR Zero Only
2.229	2.7.20) Providing and constructing inspection chamber of clear inner size 1500mm x 1500mm in 230 mm thick Brick Masonry wall up to depth 1m and 340mm thick from 1 m to 2m depth in cement mortar 1:4 (Bricks shall have minimum crushing strength of 5 N/sq.mm), with 20mm thick waterproof cement plaster in cement mortar 1:3 on outer faces and 12mm thick neat waterproof cement plaster in cement mortar 1:3 on inner faces including 200 mm minimum thick foundation and 150mm thk coping at top in concrete grade M15, plastering and cement rendering chamber bottom, making connections with inlet and outlet pipes, fixing approved quality RCC manhole cover with frame complete including excavation, backfilling, providing and embedding orange coloured safety foot rest of minimum 6 mm thick plastic encapsulation as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, at 300mm c/c, shuttering, de-shuttering, curing, scaffolding, dewatering if necessary etc. complete as per drawing and as directed by Engineer- in-Charge for depth						
2.23	2.7.20.1) Chamber depth more than 1m and up to 1.5 m, for M.D. (Medium duty) Covers & frames conforming to I.S. 12592 Part-I & Part-II. Note: Depth shall be measured from bottom of the chamber cover	item192	8.00	each		0.00	INR Zero Only

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2.231	2.7.21) Supplying, fabricating and Erecting Chain Link fencing of G.I. mesh of size 50 x 50 mm diamond pattern of 4mm dia. GI wire and as per specifications and drawings, including providing and erecting 65 x 65 x 8 angle posts @ 2.4m C/C with cross support at every 8th pole and at corners, MS Angle 35mm x 35mm x 3mm thick at top and bottom of chain link with necessary U hooks, nuts and bolts, washers, total height of fencing @ 2.5m above ground including embedding the angle post in cement concrete block of size 0.45m x 0.45m x 0.6m of grade M15 (20mm downgraded), with necessary excavation, cleaning and preparing surface, applying one coat of red oxide zinc chromate primer and two coats of Synthetic Enamel paint after fabrication and touchup paint after erection if required of approved manufacture, brand, colour, shade etc. complete as directed by Engineer In Charge.	item193	21.00	metre		0.00	INR Zero Only
2.232	2.7.22) Providing, detailing, and fabricating as per specifications, transporting to site and erecting MS Swing type gate fabricated using MS Hollow pipe sections and GI Chain link fabric of size 50 x 50mm (diamond pattern with 4mm dia. of GI wire) including fixing bolts, nuts, washers, cleats, stiffeners, gussets and all necessary operations such as but not limited to straightening, bending, cutting, drilling, grinding, machining if specified, welding etc. complete including cleaning, Grinding and removing the welding burr and preparing surface and applying one coat of red oxide zinc chromate primer and one coat of Epoxy paint after fabrication and second coat of Epoxy paint after erection, with approved colour, shade and brand etc. including touching up with primer and paint etc. complete as directed by Engineer In Charge.	item194	743.00	kg		0.00	INR Zero Only
2.233	2.7.23) Providing and spreading ballast using 80mm size stone metal for thickness of 100mm all complete as directed by Engineer In Charge.	item195	9.00	cum		0.00	INR Zero Only
2.234	2.7.24) Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :						
2.235	2.7.24.1) Two or more coats on new work	item196	6.00	sqm		0.00	INR Zero Only
2.241	2.8) BLOCK WORK						
2.242	2.8.1) Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	item197	9.00	cum		0.00	INR Zero Only

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2.243	2.8.1A) Providing and laying autoclaved aerated cement blocks Masonry of thickness 100mm with AAC blocks in proper line and level in superstructure above plinth level up to floor V level, in polymer adhesive as recommended by block manufactures or from saint gobain weber or leticrete make, including all scaffolding, staging, curing, all lifts, all labour, hire and fuel charges for all tools and plants employed etc. complete to the satisfaction of the Engineer-in-charge and as directed. Rate shall include providing Concrete Binders in proportion 1:2:4 (1 cement : 2 Coarse sand : 4 Aggregates), 75mm thick reinforced with 2 nos. of 8 mm dia Fe 500 bars, RCC binders to be at every 1 metre interval from floor level. The rate to be inclusive of cost of reinforcement and formwork, cover blocks for reinforcement and all other incidental charges etc., all complete and as directed. The rate shall also include closing the gap between the masonry and RCC beam / slab finished to required slope as directed by the Engineer-in-charge. Note:- The width of the joints shall not exceed 10mm.	item198	286.00	cum		0.00	INR Zero Only
2.245	2.8.3) Providing and laying autoclaved aerated cement blocks masonry with 150mm/200mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineerin- Charge. (The payment of RCC band and reinforcement shall be made for seperately).	item199	9.00	cum		0.00	INR Zero Only
2.246	2.8.3A) Providing and laying autoclaved aerated cement blocks Masonry of thickness 150mm/200mm/230mm/300 mm with AAC blocks in proper line and level in superstructure above plinth level up to floor V level, in polymer adhesive as recommended by block manufactures or from saint gobain weber or leticrete make, including all scaffolding, staging, curing, all lifts, all labour, hire and fuel charges for all tools and plants employed etc. complete to the satisfaction of the Engineer-in-charge and as directed. Rate shall include providing Concrete Binders in proportion 1:2:4 (1 cement : 2 Coarse sand : 4 Aggregates), 75mm thick reinforced with 2 nos. of 8 mm dia Fe 500 bars, RCC binders to be at every 1 metre interval from floor level. The rate to be inclusive of cost of reinforcement and formwork, cover blocks for reinforcement and all other incidental charges etc., all complete and as directed. The rate shall also include closing the gap between the masonry and RCC beam / slab finished to required slope as directed by the Engineer-in-charge. Note:- The width of the joints shall not exceed 10mm.	item200	1265.00	cum		0.00	INR Zero Only
2.247	2.8.4) Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
2.248	2.8.4.1) Cement mortar 1:4 (1 cement : 4 coarse sand)	item201	26.00	cum		0.00	INR Zero Only



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2.249	2.8.5) Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level in all shapes and sizes in :						
2.25	2.8.5.1) Cement mortar 1:4 (1 cement : 4 coarse sand)	item202	46.00	cum		0.00	INR Zero Only
3.262	3.5) CIVIL WORK						
3.284	3.5.9) Providing and fixing 600 mm long MS hot dip galvanized Puddle Flange ANSI B 16.5, 150# fabricated out of 6 mm thick MS plates of suitable size and pipe shall be confirming to IS:1239 heavy class pipes properly fixed in walls / top slab of tanks. The entire fittings shall be hot dipped galvanized after fabrication. Length shall be minimum 600 mm or wall thickness plus 200 mm on either side (which ever is more). Inclusive of all blank flanges as per detail design .Each Puddle shall be flanged on outer side for connection of pipe / fittings all complete as per directions of Engineer-In-Charge.						
3.285	3.5.9.1) 250mm dia.	item203	1.00	each		0.00	INR Zero Only
3.286	3.5.9.2) 200mm dia.	item204	1.00	each		0.00	INR Zero Only
3.287	3.5.9.3) 150mm dia.	item205	3.00	each		0.00	INR Zero Only
3.288	3.5.9.4) 100mm dia.	item206	6.00	each		0.00	INR Zero Only
3.289	3.5.9.5) 80mm dia.	item207	2.00	each		0.00	INR Zero Only
3.29	3.5.9.6) 65mm dia.	item208	5.00	each		0.00	INR Zero Only
3.291	3.5.9.7) 50mm dia.	item209	8.00	each		0.00	INR Zero Only
3.292	3.5.9.8) 40mm dia.	item210	3.00	each		0.00	INR Zero Only
3.293	3.5.9.9) 25mm dia.	item211	5.00	each		0.00	INR Zero Only
10	10.0) EXTERNAL SERVICES WORKS						
10.001	10.1) Sewerage system						
10.002	10.1.1) Manholes						
10.003	10.1.1.1) Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :						
10.004	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg):						
10.005	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	item212	20.00	each		0.00	INR Zero Only
10.006	10.1.1.2) Extra for depth for manhole						
10.007	size 90 X 80 cm						
10.008	10.1.1.2.1) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	item213	4.00	Metre		0.00	INR Zero Only

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10.009	10.1.1.3) Constructing brick masonry circular type manhole 0.91 M. internal dia at bottom and 0.56 M. dia at top with F.P.S. bricks in cement mortar 1:4 (1 cement: 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand: 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size ) finished with a floating coat of neat cement all complete as per standard design						
10.01	0.91 M deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to IS : 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) including centering shuttering all complete with excavation, footrest and 12 mm thick cement plaster at the external surface.						
10.024	10.1.1.6) Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS:10910, on 12 mm dia. Steel bar conforming to IS:1786, having minimum cross section as 23mm x 25 mm and overall minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded leg having 2 mm tread on top surface by ribbing or chequering besides necessary and adequated anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per spaeifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	item214	180.00	each		0.00	INR Zero Only
10.025	Cement Plaster 1:3 (1cement:3 coarse sand) finished with a floating coat of neat cement						
10.026	10.1.1.7) 12mm thick cement plaster	item215	180.00	sqm		0.00	INR Zero Only
10.027	10.1.1.8) Providing sand cast iron drop connection externally for 60cm drop from branch sewer line to main sewer manhole including inspection & cleaning eye with chain & lid , sand cast iron drop pipe and bend encased all round with cement concrete 1:5:10( 1cement: 5 fine sand: 10 graded stone aggregate 40mm nominal size) with all centering and shuttering required , cutting holes in walls and making good with brick work in cement mortar 1:4 ( 1 cement : 4 coarse sand) plastered with cement mortar 1:3 ( 1cement : 3 coarse sand) on inside of the manhole wall, lead caulked joints between sand cast iron pipes and fittings , stiff cement mortar 1:1 ( 1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications:						
10.028	10.1.1.8.1) 150mm dia. sand cast iron drop connection	item216	1.00	each		0.00	INR Zero Only

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10.029	10.1.1.9) Extra for depths beyond 60cm of sand cast iron drop connection complete:						
10.03	10.1.1.9.1) For 150mm dia. sand cast iron drop connection	item217	1.00	each		0.00	INR Zero Only
10.031	10.1.1.10) Providing and fixing square mouth S. W. Gully trap class SP-1 complete with C.I. grating brick masonry chamber with F.P.S bricks and water tight CI cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:						
10.032	150x100mm size P type						
10.033	10.1.1.10.1) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	item218	28.00	each		0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only					