

Premises & Estate Department, Amaravati Local Head Office
भारतीय स्टेट बैंक State Bank of India

NAME OF THE WORK: Proposed Construction of RCC buildings, 1 Bungalow for DGM (Ground Floor + 1 Upper Floor) and 16 flats for AGM / CM (Stilt + Ground Floor + 3 Upper Floors)
(Civil, Elevation, Plumbing & Sanitary, Electrical , Fire Fighting, CCTV and Landscape works)
at No. 95-20, Block No. 2, S.P. Bungalow Road, Guntur, Andhra Pradesh.

PRICE BID

Name of Contractor	
--------------------	--

- 1 The subject work has been called on works contract basis and prevailing GST for the same is 18%. Any change in GST $\pm$ during the currency of contract shall be on SBI account. The Tenderer shall abide by prevailing GST act.
- 2 L1 (lowest quote) will be determined based on the total quoted amount including GST.
- 3 This BOQ specifications has to be read in conjunction with detailed technical specification and tender drawings, if any.

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	<u>INDEX</u>				
	MR: MARKET RATE NS: NON SCHEDULE RA: RATE ANALYSIS SOR: SCHEDULE OF RATES sqm: SQUARE METER cum: CUBIC METER meter: RUNNING METER each: PER NUMBER mt: METRIC TON kg: KILO GRAM LS: LUMPSUM				
	PREAMBLE				
	Rate shall be inclusive of following:				
i	The serviceable and unserviceable materials shall be stacked separately and properly in the designated place and to be Stacked/Stored at designated till the disposal / reuse of the same. The debris, excess materials is to be carted outside the premises and disposed off at the Guntur Municipal Corporation designated place up to any lead, lift and level by the Contractor at his own cost.				
ii	For all the civil work 53 grade OPC cement of approved make to be used. For Plastering & waterproofing works PPC cement of approved make can be used.				
iii	Unless otherwise specified, only River Sand should be used. If the silt content is more than permissible limits, contractor will arrange washing of sand in rotary screw type washing machines within quoted rates and no extra payment shall be eligible for the same.				
iv	Approved Cement make: ULTRATECH/ ACC/ RAMCO/ MAHA/ NAGARJUNA/ COROMANDAL/ BHARATI or as approved by Architect / Bank Engineer.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
v	Approved RMC make: ULTRATECH/ ACC/ RAMCO/ MAHA/ NAGARJUNA/ COROMANDAL/ BHARATI or as approved by Architect / Bank Engineer.				
vi	Approved TMT make: SAIL/ VSP/ JSW/ TATA or as approved by Architect / Bank Engineer.				
vii	All the civil work, whether new or repair, must be cured for at least 7 days preferable by ponding, using gunny bags etc.				
viii	For all work, water to be used must be fresh, potable and pure without any salinity and turbidity.				
	Contractor to ensure the following while quoting their rates for all items:				
a	The Contractor should provide MS Scaffolding for all the Items with the following specifications : Providing and fixing double scaffolding system (cup lock type) made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal and vertical tubes joining with cup and lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Architect / Bank Engineer.				
b	Providing and fixing temporary support arrangements such as Steel Props (Up to any number whenever and wherever as directed by the Architect / Bank Engineer) to support the structure provisionally during the project duration for all trades of work, etc. and maintaining the props in position till required & as directed by the consultant including other safety elements such as bracing, steel angles, working platforms, plates etc., which shall be provided & considered in the quoted rates for the areas in the vicinity in adequate numbers as directed. All trades of works indicated herein under shall include all leads & lifts & working up to any heights, depths & levels.				
c	The Contractor should provide Shop drawings and sample works for all items whichever necessary as per the direction of Architect / Bank Engineer for the following items: MS / SS fabrication, Structural Glazing, Curtain wall Glazing, ACP Panelling, Gate, etc.				
d	The Contractor should engage qualified and experienced Site Engineers on the site from the Start of the Project to Completion of the Project.				
e	The Contractor should provide furnished conference room (Minimum 30 Sqmt) and site office, (Minimum 20 Sqmt) with Toilet, tables, chairs, electrical fittings and computer / laptop for Architect / Bank Engineer before commencement of the work.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
f	The Contractor should Earmark the Proposed 1.55 Acres land out of 3.70 Acres land as per the drawing issued by Architect / Bank Engineer.				
g	The Contractor should mark centre line and Footings of Columns with Total station /Electronic survey instrument.				
h	Water and Power supply for the Entire Construction shall be arranged by the Contractor at his own cost. If the contractor intends to drill borewell, the cost of drilling, pumps, panels, etc. shall be borne by the contractor only. No cost shall be paid by the bank.				
i	The contractor shall submit to the Water Board and Sewerage Board / Electrical board / local authorities necessary services drawings, layouts and documents, etc., required for getting approval for both temporary and permanent connections. On completion of works, the contractor shall obtain Completion Certificate and any other statutory approvals / Certificates necessary for obtaining Building Completion certificate at his own cost.				
j	Providing all type of PPE (Personal Protective Equipment) to the workforce such as safety shoes, safety helmets, reflective safety jacket, full body safety harness, goggles, gloves, etc. complete for all types of workforces engaged on site for execution of the work.				
k	All rates should be inclusive all loading, unloading, shifting, all leads, lifts, sorting, transportation, labours, tools, plants, machinery etc. complete				
l	Contractors to be fully equipped with Guntur Municipal Corporation regulations / guidelines and are to be followed by contractor till the completion of the project				
m	Water test is mandatory before using for construction purposes and test results shall be submitted to Architect / Bank Engineer. Test shall be carried out at Contractor's cost.				
n	Before starting of Excavation Natural GL levels shall be got verified and approved by Architect / Bank Engineer and Reduced levels to be at the top of different layer and based on the difference levels excavation qty shall be calculated. Area for excavation shall be arrived. Excavation measurement must be only P.C.C. area around Foundation / Raft as per direction of Architect / Bank Engineer.				
o	The contractor shall follow green building certification norms, must ensure the construction process itself is eco-friendly, conserving resources, preventing pollution, and managing waste effectively to meet the standards set by certification bodies like the Indian Green Building Council (IGBC) / GRIHA.				
	Part 'I' - CIVIL WORKS				
1	EARTH WORK				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
1.1	Site Clearance Clearing the site including uprooting of rank vegetation, grass, brush wood and saplings and removal of rubbish etc. including getting out and disposal of removed rank vegetation, grass etc up to any lead and lift, including cost of transportation of excavated material/debris outside the Bank's premises to approved Municipal dumping area or Contractors own dumping area as directed by Architect / Bank's Engineer. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the Architect / Bank's Engineer.	sqm	10088.00	50.00	5,04,400.00
1.2	Excavation in All Kind of Soil, Soft Murrum, Hard Murrum Earthwork in Excavation, manually or by mechanical means, for foundation of walls, column footings, pile caps, raft, foundations, plinth beams, steps, water tanks, cess pits, etc., in all types of soil including soft or hard murum, boulders (upto 0.10 cum) shoring the sides wherever necessary, bailing/pumping out sub-soil /rain water and keeping the foundation trenches and pits dry including carting away surplus materials out of site, all complete as directed.				
	Rate to include necessary cost towards transportation of remaining material rendered surplus outside the Bank's premises/site and disposing the same to approved municipal yard with all lead and lift including labour for loading, unloading surplus excavated earth complete as directed by the Architect / Bank's Engineer. Mode of Measurements: Only PCC area x depth of excavation shall be considered.				
1.2.1	Excavation up to 2.0 meter depth below natural Ground level	cum	3531.00	300.00	10,59,300.00
1.2.2	Excavation beyond 2.00 meter and upto 3.0 mtr. depth from natural Ground Level.	cum	1038.00	350.00	3,63,300.00
1.3	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, 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 :				
1.3.1	All kinds of soil				
1.3.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	meter	1612.00	298.00	4,80,376.00
1.4	Earth Filling with Surplus Excavated Approved Quality Soil Filling approved quality available excavated surplus earth (excluding rock) in trenches, plinth, plinth protection, under floors, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering including all lead, lift and transportation within the site/plot/premises as directed by the Architect / Bank's Engineer.	cum	2022.00	300.00	6,06,600.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
1.5	Earth Filling with Brought Out Earth Supplying approved quality selected earth / hard murrum brought from outside (at contractor's cost) and filling the same in plinth, plinth protection, trenches, around drains, boundary walls, low lying areas for levelling etc. including removing debris, organic matter, etc and spreading in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming (mechanically or manually), watering, dressing, de-watering, if required, to keep site dry while back filling all complete as per specifications and instructions of Architect / Bank's Engineer. The rates include transportation of materials, taking permission of local authorities and paying royalty etc. complete as per the direction of Architect / Bank's Engineer.	cum	2850.00	350.00	9,97,500.00
2	SITE BARRICADING				
2.1	Providing and erecting in position 3.00 to 6.00 metre high temporary barricading at site; using minimum 50x50x3 mm (or as required as per structural drawing of Architect / Bank's Engineer) hollow MS tube posts/ horizontal members/ bracings covered with 1.63 mm thick GI corrugated sheet. The sheet shall be fixed with 30x5 mm MS flat by suitable welding / riveting. MS channel ISLC 75 @ 5.70 kg/m, 50 cm long shall be provided at the bottom having oval shaped holes of size 50x25 mm at both ends with 50 cm long MS angle 40x40x6 mm bracing.				
	Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250 mm long expansion fasteners at both ends.				
	The work shall be executed as per drawing/ direction of Architect / Bank's Engineer which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in- Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour, materials, equipment and works required to execute the job. The barricading shall not be removed without prior approval of Architect / Bank's Engineer.				
	(Note:- Onetime payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work and the same shall be removed and transported by the contractor at his own risk and cost).	sqm	2100.00	1500.00	31,50,000.00
2.2	NYLON SAFETY NETS				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Providing, Fixing and maintaining in position, Nylon safety Nets (75 mm X 75 mm square with 10 mm thick nylon rope.) having width of 4.5 mts. placed alongside periphery of the Building with suitable supporting MS structure of minimum 50 mm dia MS pipes duly anchored on slab with 10 mm thick base plate and anchor fastener (Hilti) 4 Nos. at all corners, and free end of pipe to be tied up with upper floor column with the help of nylon rope 16 mm dia. same supporting system is to be followed for every 4.5 Mtrs. in such a way to have a proper slope during Construction, and removing and re-fixing part of the same as and when required / necessary for smooth progress of the work for individual layers and same should be maintained with cleanliness. All complete as approved by the Architect / Bank Engineer.				
	(Note:- Onetime payment shall be made for providing Safety Net from start of work till completion of work i/c shifting as required and directed. The Safety Net provided shall remain property of the contractor on completion of the work).	sqm	4320.00	160.00	6,91,200.00
3	ANTI-TERMITE TREATMENT				
3.1	Pre-Construction Treatment Carrying out pre-construction Anti-termite treatment using approved Chemical IMIDACLOPRID or equivalent at various stages of construction as per IS 6313:2013 and as recommended by the chemical manufacturer to safeguard the building against termite including execution and submission of guarantee for a period of 10 years (In original agreement on non-judicial stamp paper of required value as per format approved by Bank) against any subterranean pests infestation. The work should be got executed through specialised agencies approved by the Bank.				
	a 1st stage: Treatment to soil below foundation PCC.				
	b 2nd stage: Treatment to soil below grade slab / plinth level slab.				
	c 3rd stage: Treatment of soil along external perimeter of building including Plinth protection.				
	<u>Mode of Measurements:</u> Plinth area of the building shall be measured.				
	<u>Approved Agencies:</u> PCI/ PECOPP/ GODREJ HI-CARE or Equivalent approved by the Bank.	sqm	1040.00	750.00	7,80,000.00
4	CONCRETE WORKS				
	PREAMBLE: Contractor to ensure the following while quoting their rates for all Concrete / RCC work				
	The scope of work under the items includes execution of work at all heights and location including all shapes, curved walls etc. complete.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Quoted rates shall be inclusive of cost Centering, Shuttering (Jack Centering), Scaffolding and execution of work at all depths / heights complete. All shuttering material used for concreting / RCC Work should be of good quality using waterproof plywood of minimum 12 mm thickness to ensure smooth finish as per sample approved by the Architect / Bank Engineer.				
	The scope of work under the items includes execution of work at all heights and location including all shapes, curved walls etc. complete.				
	In case there is bulging / minor honey combing is noticed after removal of shuttering, the contractor will have to rectify the work at his own cost. The decision as to what constitute minor honey combing is left to the Architect / Bank Engineer.				
	The Contractor will be responsible for arranging "design of concrete mix" through approved Institute at their own cost within the quoted rates only and will submit the Test reports to Architect / Bank Engineer. for approval. No extra payment shall be paid on this account.				
	Note: - For lesser / Higher grades of concrete only cement difference shall be calculated based on RMC batch report /Design mix report and same shall be added / deducted including $\pm 15\%$ (Contractor's Profit) from the respective item rates.				
	Checking of top level of slab should be done at every floor and it should be within IS tolerance limit / client requirement.				
	Frequency of testing for all materials like sand, aggregates, cement, steel should be as per IS standard.				
	The use of admixture, fly ash and crush sand should be as per concrete mix design.				
	The plant batching report of RMC concrete for every TM supplied at site shall be maintained at construction site office and submitted along with RA bills.				
	Unless otherwise specified the cement to be used shall be Ordinary Portland Cement (OPC-53) of Approved make along with proportions of fly ash.				
	Unless otherwise specified, only River Sand should be used. If the silt content is more than permissible limits, contractor will arrange washing of sand in rotary screw type washing machines within quoted rates and no extra payment shall be eligible for the same.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
4.1	Plain Cement Concrete (PCC: Volumetric Machine Mix) Providing and laying in position machine mix PCC (plain cement concrete) under foundation, plinth protection, floor slabs, grade slabs, coping, sill concrete etc. including transporting, laying, compacting, finishing the surface in line, level and plumb as per requirement and curing etc. complete. The Rate to include necessary formwork, centring, shuttering, complete in all respects and execution of work at all heights and location with required leads and lifts complete as directed by Engineer in charge.				
4.1.1	PCC 1:4:8 using 40 mm and downgrade metal (Coarse Aggregate).				
4.1.1.1	Levelling Course PCC Under Column Footing, Foundations etc.	cum	137.00	6500.00	8,90,500.00
4.1.1.2	Under Floors, Coping, Sills etc.	cum	266.00	6000.00	15,96,000.00
5	READY MIX CONCRETE (RMC)				
5.1	Ready Mixed Concrete (RMC) for RCC Work in Foundation and Plinth Providing and laying in position Ready mixed Reinforced Cement Concrete for various RCC structural elements in any shape and design as per structural drawings and as directed in foundation and plinth including Columns footings, Stub Columns, Raft, foundation, Plinth Beams, Floor Slabs etc. with cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer having continuous agitation, including pumping of R.M.C. from transit mixer to site of laying, spreading, compacting, finishing in line and level as per site requirements, including all lead, lift and cost of curing etc. complete.				
	The Rate to include necessary formwork, centring, shuttering, including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability complete in all respects and execution of work at all heights and location with required leads and lifts etc. as directed by Architect / Bank's Engineer.				
	For M25 Grade concrete - RCC Work in Foundation and Plinth Note: Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per approved design Mix is payable/ recoverable separately.				
5.1.1	Column Footing, Raft Slab or any other type of RCC foundation.	cum	360.00	9500.00	34,20,000.00
5.1.2	Plinth Beams/Tie Beams	cum	57.00	10000.00	5,70,000.00
5.1.3	RCC Floor slab at Plinth Level.	cum	302.00	10000.00	30,20,000.00
5.1.4	RCC Walls upto Plinth Level.	cum	248.00	10500.00	26,04,000.00
5.2	For M35 Grade - RCC Work in Foundation and Plinth Note: Cement content considered in this item is @ 350 kg/cum. Excess/less cement used as per approved design Mix is payable/ recoverable separately.				
5.2.1	Columns from Footing Top to Plinth level (Stub Columns)	cum	95.00	10700.00	10,16,500.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
5.3	Providing and laying in position Ready mixed Reinforced Cement Concrete for various RCC structural elements in any shape and design as per structural drawings and as directed in Superstructure including Columns footings, Stub Columns, Raft, foundation, Plinth Beams, Floor Slabs etc. with cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer having continuous agitation, including pumping of R.M.C. from transit mixer to site of laying, spreading, compacting, finishing in line and level as per site requirements, including all lead, lift and cost of curing etc. complete.				
	The Rate to include necessary formwork, centring, shuttering, including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability complete in all respects and execution of work at all heights and location with required leads and lifts etc. as directed by Architect / Bank's Engineer. (Rate Excluding cost of reinforcement). (Above Plinth level and upto Floor Five Level).				
	For M25 Grade concrete - RCC Work in Superstructure Note: Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per approved design Mix is payable/ recoverable separately.				
5.3.1	Floor Beams, Sloping Beams, Lintels, Cantilever Beams/Brackets etc. as per Structural Drawings. (Above plinth level and upto floor five level)	cum	297.00	11000.00	32,67,000.00
5.3.2	Floor Slabs of various thickness including Sloping Roofs, Cantilever and Flat Slabs, Portico/Poarch slabs etc. (Above plinth level and upto floor five level).				
5.3.2.1	Above 100 mm	cum	701.00	11300.00	79,21,300.00
5.3.3	Staircase Waist Slabs, Steps, Landings as per design and Drawings. (Above plinth level and upto floor five level).	cum	72.00	11500.00	8,28,000.00
5.3.4	RCC Walls for Sump well, OH Water Storage Tank, Septic Tanks etc. of all thickness upto Floor five level.	cum	32.00	11800.00	3,77,600.00
5.4	For M35 Grade concrete - RCC Work in Superstructure Note: Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per approved design Mix is payable/ recoverable separately.				
5.4.1	Columns, Pillars, Piers, Abutments, Posts, Struts etc. (Above Plinth level and upto Floor Five Level)	cum	395.00	10700.00	42,26,500.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
5.5	Providing and laying in position mechanically mixed Reinforced Cement Concrete (RCC) 1:1½:3 using 20 mm nominal size and downgrade metal of specified grade in Super Structure (Excluding reinforcement) at all levels and hight for various RCC structural elements in any shape and design as per structural drawings and as directed including transporting (manually / mechanically), laying, compacting and finishing the surface in line, level and plumb as required and cost of curing etc. complete. The Rate to include cost of required formwork, centring, shuttering, complete in all respects and execution of work at all heights and location with required lead and lifts complete as directed by Engineer in charge.				
5.5.1	Floor Beams, Sloping Beams, Lintels , Cantilever Beams/Brackets, Cills, etc. as peer Structural Drawings. (Above plinth level and upto floor five level)	cum	192.00	10000.00	19,20,000.00
5.6	STEEL REINFORCEMENT				
5.6.1	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level .				
5.6.1.1	Thermo-Mechanically Treated bars of grade Fe-550 or more.	kg	147959.00	90.00	1,33,16,310.00
5.6.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level (Upto Floor Five level) .				
5.6.2.1	Thermo-Mechanically Treated bars of grade Fe-550 or more.	kg	264248.00	92.00	2,43,10,816.00
5.7	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	meter	135.00	66.00	8,910.00
5.8	Supplying and mixing crystalline waterproofing admixture in cement concrete works for water retaining structures like sumps, OHT etc., in proportions as specified by the manufacturer's specification etc., all complete as directed by the of Architect / Bank Engineer.	kg	593.00	325.00	1,92,725.00
5.9	Supplying and fixing swellable type water stop tape of cross-section around (19 x 25) mm and having a water pressure resistance of atleast 5 bar for construction joint treatment of R.C.C. water storage tanks and sumps including adhesive / sealant, preparation of surface etc., all complete as per manufacturer's specifications and as directed by the of Architect / Bank Engineer.	meter	262.00	673.00	1,76,326.00
5.10	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but, excluding cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	5.00	8971.00	44,855.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
6	MASONRY WORKS				
	Measurement shall be considered Per Cum or Per Sq m for respective items deduction shall be done for RCC Items as per relevant BIS/ standards.				
	Rate shall inclusive of all heights, Sub structure, Superstructure, lift & leads, scaffolding etc. complete.				
6.1	Autoclaved Aerated Cement (AAC) blocks masonry in Superstructure Providing and laying Autoclaved Aerated Cement (AAC) blocks masonry in Superstructure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand) using 150mm/ 230mm / 300 mm thick AAC blocks including providing 100 mm thick RCC band with 4 nos. 8 mm dia TMT bars and 8 mm dia TMT links at 300 c/c in cement concrete mix 1:2:4 at sill level and lintel level including raking out joints, curing, scaffolding etc complete as per direction of Architect / Bank Engineer.				
	Rate should be quoted considering execution of work above plinth level upto and inclusive Floor Five level). Make: Siporex, Aerocon, Billtech, Ecolite, Ascolite Ultratech, Eco green, Brixo				
	Note: The AAC blocks shall contain minimum of 40% flyash by volume of blocks.	cum	792.00	7500.00	59,40,000.00
6.2	Providing and laying autoclaved aerated Concrete (AAC) blocks masonry with 100mm / 125 mm thick with Grade -1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) 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.	sqm	28.00	850.00	23,800.00
	Note: The AAC blocks shall contain minimum of 40% flyash by volume of blocks.				
6.3	Random rubble masonry Providing and constructing Random rubble masonry in Foundation and Plinth using approved quality regular hard stone in C.M. 1:6 including providing headers at specified interval duly staggered in each course, providing corner stones, raking out joints, watering, curing, necessary scaffolding etc. complete.				
	Rate should include levelling up with cement concrete 1:4:8 using graded stone aggregate 20 mm nominal size as required as per site conditions.	cum	129.00	6600.00	8,51,400.00
7	FINISHING WORKS				
	Note: All plaster works measurements shall be considered only as Surface Areas of application and no extra/separate payment for dhar, kani, groove, strips, bands etc.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Only MS Scaffolds shall be used for the all Plastering, painting works.				
	Rate shall inclusive of all heights, Sub structure, Superstructure, lift & leads, curing etc. complete.				
7.1	Ceiling Plaster Providing applying in position 10/12mm (average) thick single coat cement plaster to Ceiling, Soffit of Chejja, Cantilever Balconies or any other RCC projection /surface in approved pattern and design in cement mortar 1:4 in proper line and level using approved quality silt free natural sand (Fine or Coarse as directed) at all heights and locations including necessary scaffolding, roughening of surfaces, curing etc. complete as directed by Architect / Bank's Engineer. Rate includes making Flush/raised/sunk or moulded bands of any width, recesses, making grooves etc. complete as per Architectural drawings and no extra payment shall be considered for the same.	sqm	13478.00	235.00	31,67,330.00
7.2	Internal Wall Plaster Providing and applying in position average 12/15mm thick smooth finish cement Plaster in cement mortar 1:5 to all internal walls, using fine or Coarse sand and adding polypropylene fibre of approved quality in desired quantity per bag of cement as per manufacturers specifications complete. Rate includes providing chicken mesh to all joints of RCC members with block walls in all positions in proper line, level and plumb at all levels and heights with necessary scaffolding, cleaning of surfaces, raking out joints, roughening of surfaces, curing etc complete as directed at site. Rate includes making Flush/raised/sunk or moulded bands of any width, recesses, making grooves etc. complete as per Architectural drawings and no extra payment shall be considered for the same.	sqm	3048.00	300.00	9,14,400.00
7.3	External Plaster Providing and laying in position external Sand Face Cement Plaster, average 20 mm thk, in two coats, with first coat of av. 12 mm thk in Cement Mortar 1:5 using natural silt free fine sand and locations, and second coat of average 6 mm thickness in C.M. 1:4, including necessary staging, scaffolding, curing, roughening the first coat to receive second coat of plaster etc, providing approved water proofing compound @1 kg per bag of cement or as specified by the manufacturer and adding polypropylene fibre of approved make as per manufacturers specifications to prevent shrinkage cracks, complete as directed by the Architect / Bank's Engineer.	sqm	2580.00	450.00	11,61,000.00
7.4	POP Punning Providing and applying average 6 to 9 mm thick POP Punning on internal walls in line and levels, to make the surface smooth suitable for application of paint, including necessary scaffolding etc. complete as per the instructions of Architect / Bank's Engineer. Make: JK or approved equivalent make	sqm	14496.00	300.00	43,48,800.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
7.5	Painting work for Internal surface Providing and applying 2 or more coats of approved acrylic Emulsion paint with roller finish over a coat of primer on internal walls including necessary scaffolding etc. complete as per manufacturers' specifications. Make: Asian / Nerolac / Berger / Dulex	sqm	14496.00	300.00	43,48,800.00
7.5	Putty and Paint work for External External Painting with Higher Graded Elastomeric Paint on new surface Providing and applying Elastomeric Paint to external walls on new surface as under: a) Providing applying 2 or more coats of External grade Birla putty on external walls in line and level including its rubbing with sand paper to ensure smooth and even surface b) Providing and applying one coat of water based Acrylic anti-fungal Primer of approved quality and make as per sample approved.				
	c) Providing and applying one coat of fibre reinforced membrane paint water proofing Coat of "Protek Basecoat" of Asian / "Weather coat long life Roof Guard" of Berger / "Aqua Touch" of ICI or equivalent approved by the SBI having crack bridging ability up to 2.00 mm, superior anti-carbonation and water proofing property. d) Providing and applying 2 or more coats of approved quality External Acrylic Emulsion paint, Exterior grade having weather proof property, resistance to dust and dirt accumulation, resistance to fading of colours etc. of approved colour and shade Ultima Protek (Asian) / Weather coat All Guard (Berger) / Weather Shield Max (ICI) or equivalent approved by the SBI.				
	Note: Rates to include cleaning afterwards, necessary scaffolding / Cradle, debris safety netting, labour etc complete. Make: Asian Paints Ultima Protek / Berger Weather coat Long Life or approved equivalent.	sqm	2580.00	600.00	15,48,000.00
7.6	Synthetic Enamel Paint Providing and applying Synthetic Enamel Paint on doors / windows frame, shutters, railing, grills, gates etc. in two or more coat of approved brand and shade over a priming coat as per manufactures' specifications, after necessary preparation of surface with scrapping, sand paper rubbing, applying putty, including necessary scaffolding etc. Complete as directed by the Architect / Bank Engineer. Paint: Asian, Nerolac, Berger, Dulux	sqm	424.00	400.00	1,69,600.00
8	FLOORING, DADO, SKIRTING AND CLADDING				
	Note: All flooring /dado /cladding works measurements shall be the exposed, visible finished surface area of application. No extra/separate payment for Groove, chamfer edge Polish, moulding, rounding, nosing, overlapping portions, chiselling in walls, tile, curing etc.				
	Rate shall inclusive of all heights, Sub structure, Superstructure, lift & leads, etc. complete.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Rate is including covering the Flooring, kitchen atta with POP / PVC Material as instructed by Architect / Bank Engineer. Contractor is solely responsible for protection of flooring / tiling material and shall replace if found broken, cracked, shade variation at his own cost.				
8.1	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications and making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	100.00	900.00	90,000.00
8.2	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.				
8.2.1	18 mm thick.	sqm	10.00	561.00	5,610.00
8.3	Vitrified Tile Flooring Providing and laying in-position Vitrified tiles in floor and skirting of approved make and colour uniformly in line, level and in approved design, including laying avg. 20 to 25 mm thick bed of CM 1:6 (1 cement: 6 coarse sand) and filling the joints with epoxy based joint filling compound of matching shade, curing the joints etc complete.				
	Rates to include providing and fixing 100 mm high skirting as per drawing flushed with finished surface of wall in line and level and 6 mm wide groove to be made in wall at the junction of skirting and finished surface of wall etc. complete matching to flooring as per direction of Architect / Bank's Engineer. Make: Kajaria, Somany, RAK, Nitco Basic rate of tile not less than Rs: 860 per Sqmt. (Basic rate means Excluding GST, Transportation and Loading and Unloading charges)				
8.3.1	Full body glossy /anti-skid /Matt finish Vitrified tiles				
8.3.1.1	Size of Tile 600 x 600 (10/12 mm thickness to be specified by the manufacturer)	sqm	3537.00	2300.00	81,35,100.00
8.3.1.2	Size of Tile 1000 x 1000 (10/12 mm thickness to be specified by the manufacturer)	sqm	257.00	3100.00	7,96,700.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
8.4	Vitrified Tile Dado Providing and laying in position approved quality and shade Nano polish / Glossy / matt finish joint free / paper cut edges Vitrified tiles in Dado, above Kitchen Platform etc. using approved colour and shade including Digital Print as per sample approved by the Architect / Bank's Engineer fixed over 15mm thick rough finished backing plaster in CM 1:4 fixed with approved quality tile adhesive of Bal Endura /Roff or equivalent approved make including filling joints using white cement/epoxy based joint filling compound with matching pigment including acid cleaning of tiles complete in all respect and at all heights, levels and locations.				
	Rate includes cost of CM 1:4 backing plaster with waterproofing compound, chamfering of tiles at corners and execution of work all heights and locations including necessary scaffolding etc. complete. Make: Kajaria, Somany, RAK, Nitco				
8.4.1	Double Charge Vitrified Wall Tiles of size 1200 x 600 (thickness to be specified by the manufacturer)	sqm	1130.00	2250.00	25,42,500.00
8.4.2	Double Charge Vitrified Wall Tiles of size 1200 x 800 (thickness to be specified by the manufacturer)	sqm	81.00	2500.00	2,02,500.00
8.5	Granite Stone Flooring (Machine Polished / Flame Burnt etc.) Providing and laying in position 18mm ± 2mm thick machine cut pre-polished Granite stone flooring and skirting in approved colour, shade, design and patterns as per architectural drawings laid over 20 mm (average) thick cement mortar 1:6 (1 cement : 6 coarse sand) bedding fixed and jointed with neat cement slurry and filling joints using white cement slurry admixed with pigment of matching shade or epoxy based joint filling compound of approved make including grinding, mirror polishing, curing, nosing, making grooves etc. complete as specified in the Architectural drawings and as directed by the Architect / Bank's Engineer. (Basic rate Rs. 1,800/- per sqm)				
8.5.1	In Staircase landing, midlanding using Granite stone slabs not more than in two pieces for each landing including machine moulded full round edges duly mirror finish/polish complete.	sqm	90.00	2850.00	2,56,500.00
8.5.2	In Staircase steps and risers, in single piece slabs of required size, with full round moulded mirror polished edges complete as per Architectural drawing and as directed by the Architect / Bank's Engineer.	sqm	244.00	3000.00	7,32,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
8.6	GRANITE JAMBS FOR WINDOWS / LEDGE WALLS Providing and Fixing in position 18mm thick $\pm$ 2mm machine cut Mirror polished Granite of desired length for complete opening of the door / windows as per the approved sample for window cills, jambs or any other specified etc. as per the drawing laid to the required level and line including cutting of stone to the required size and shape, edge polishing / chamfered edges, surface preparation including cement backing with 1:1 cement grout, filling and finishing the joints with cement and approved colour pigments, cutting, mirror polishing, curing, cleaning etc. The work shall be carried out as per the directions of the Architect / Bank's Engineer. The rate shall be inclusive of all the materia, labour, hardware, transportation necessary required for the complete execution as directed by the Architect / Bank Engineer.				
	Mirror polished granite stone slab Jet Black, Telephone Black or equivalent.				
	Basic rate of granite Rs. 1,800 / Sqm				
8.6.1	300mm WIDE	meter	1313.00	780.00	10,24,140.00
8.6.2	150mm WIDE	meter	15.00	450.00	6,750.00
8.7	Kitchen / Pantry Platform Providing and fixing in position Kitchen platform/Vanity Counters with minimum 600mm width made as under: <u>Vertical supports</u> : Made out of 18 mm thick white marble slabs sandwich supports (two slabs joined together using Araldite adhesive to full surface area) placed at specified spacing as per detailed drawing and suitable to house modular kitchen under the counter Trolleys. Rate includes providing vertical granite band to vertical supports with moulded/polished edges.				
	Kitchen Counter Top: Finished with 18+/-2mm approved quality, Colour, shade and texture mirror polished Granite slab (minimum length of slab shall not be less than 1.80 Meter for Kitchen counter and one single piece for Vanity Counters for wash basin etc.) resting on 18mm thick <u>white marble base</u> support slab (in one piece) and fixed with CM 1:2 or approved tile adhesive as directed at site.				
	Front Facia: 50 to 75mm wide Granite band in one piece not less than 1.80 RM in length for kitchen counter and required length in one piece for Vanity counters with full round moulded mirror polish edges complete as per Architectural working drawing.				
	Rate should include chasing walls, floors to embed vertical supports and counter top using CM 1:2 including making cutout for kitchen sink, under the counter wash basin, core cutting for pillar cock, bottle trap etc. complete as per directions and instructions of Architect / Bank's Engineer.				
	Basic rate of granite - Rs. 1,800 / Sqm				
8.7.1	Kitchen / Pantry Platform	sqm	104.00	4500.00	4,68,000.00
8.7.2	Vanity Counter for Washbasin	sqm	146.00	4500.00	6,57,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
8.8	Granite Cladding Providing and fixing in position 18mm thick $\pm$ 2mm tolerance, machine cut, Mirror finish Pre-polished Granite slabs in cladding laid in perfect line and level as per approved design and pattern on rough finished 1:4 cement mortar backing plaster of average thickness 20 mm. marble to be fixed to walls using approved tile adhesive of Roff/Bal Endura/ Fevimate including all free edges should be pre chamfered before fixing and filling the joints with epoxy based joint filling compound of matching shade, curing, rubbing/grinding/ polishing the joints etc. complete as directed by the Architect / Bank's Engineer.				
	Rate includes cost of CM 1:4 backing plaster with waterproofing compound, chamfering of tiles at corners and execution of work all heights and locations including necessary scaffolding etc. complete.				
	(Basic Rate: Rs. 1,800/- per Sqm)	sqm	81.00	3850.00	3,11,850.00
8.9	Clay tiles cladding Providing and fixing of clay tiles of size 230x75x10mm thick on 12mm thick cement mortar 1:3 (1 cement: coarse sand) and jointed with Adhesive / cement slurry over rough plaster surface excluding cost of rough plaster surface and the surface painted with red apex paint and black apex paint into the grooves. The work includes cost of all materials, labour charges for all items of work, usage charges for equipment, etc., complete as per specification and as directed by the Architect / Bank's Engineer. Make: Wienerberger	sqm	576.00	9050.00	52,12,800.00
8.10	Stone crete plaster / Washed stone grit plaster Providing and applying on exterior walls grey cement based stone crete plaster at all heights, in two layers, under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the underlayer @ 2kg of cement per square metre, top layer 15mm cement plaster 1½ : 2 (1 cement : ½ coarse sand : 2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and as directed by the Architect / Bank's Engineer.	sqm	449.00	2582.40	11,59,497.60
8.11	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using aluminium channel, nailed / fixed with adhesive to the under layer, including removal of aluminium channel, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Architect / Bank's Engineer. 15mm wide and 15mm deep groove	sqm	449.00	517.20	2,32,222.80
8.12	Providing and applying on Glossy sealer coat over the stone crete plaste complete as per specifications and direction of the Architect / Bank's Engineer.	sqm	449.00	645.60	2,89,874.40

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
9	DOORS, WINDOWS, VENTILATOR & PARTITION WALLS				
	Note: Before fixing Door frame, applying anti-termite / bitumen paint to the wooden surface in contact with walls / columns in 2 coats. Frame shall be fixed with minimum 3 holdfast on each side and shall be fixed in concrete.				
	Rates shall be inclusive of List of hardware makes specified.				
9.1	Wooden Frames Providing and fixing in position Door frames of any size (for example 100 mm x 75 mm / 125 mmx 65 mm) made out of seasoned 2nd Class approved quality Teak Wood, properly fixed to brick wall / R.C.C. columns etc. with 3mm thick 300mm long M.S. hold fast (each door frame to have minimum 6 nos. holdfast) including polishing / painting with enamel paint over a coat of wood primer, applying anti-termite / bitumen paint to the wooden surface in contact with walls / columns etc. complete as directed at site. finished, clear height / length / width of the frame shall be measured for payment.	cum	8.00	135000.00	10,80,000.00
9.2	Providing and fixing panelled or panelled and glazed shutters for doors 35mm thick made out of seasoned 2nd Class approved quality Teak Wood, including polishing the shuttering. The rate includes necessary screw/ fasteners and with following hardware fittings per shutter all complete as per direction of the Architect / Bank's Engineer. (For Main door)				
	(i) 4 Nos. 125mm x 75 x 3.2 mm SS 304 grade ball bearing Butt Hinges with SS Screw. (ii) 2 Nos. SS. Tower Bolt-200mm long with SS Screw. (iii) 1 Nos. SS Alt-drop 300mm long with 20mm shoot fixed with SS Screw. (iv) 1 no 90 mm SS Door Stopper fixed with SS Screw (v) 1 pair 100 mm long SS handle (vi) 2 no's 250mm x 25mm SS handle (vii) 1 Nos. View lens .				
	Laminate / Veneer: Century, Greenlam, Duro, Aerolam, Dolby Glass: Saint Gobain, Aasahi Float, Modi Guard Handles, Hinges and Other Hardware fittings etc: Hettich, Hafele, Godrej, Dorset Main Door locks: Godrej Rim Lock Pentabolt Aries 3KS / 5 Bolt / 1CK Dead bolt	sqm	48.00	9800.00	4,70,400.00
9.3	Providing and fixing 35mm thick factory-made Solid Core Flush Door Single Shutters of approved make (ISI mark confirming to IS:2202) as per sample approved including providing 6mm thick TW lipping all around on edges. Both faces of the shutter duly laminated with 1mm thick approved quality and shade laminate. The rate includes necessary screw/ fasteners, hardware and the cost of polishing/painting of edges of shutter complete with following hardware fittings per shutter:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	(i) 4 Nos. 125mm x 64 x 2.5 mm SS Butt Hinges with SS Screw. (ii) 2 Nos. SS. Tower Bolt-200mm long with SS Screw. (iii) 1 Nos. SS Alt-drop 300mm long with 20mm shoot fixed with SS Screw. (iv) 1 no 90 mm SS Door Stopper fixed with SS Screw (v) 1 pair 100 mm long SS handle(v) 2 no's 250mm x 25mm SS handle				
	(vi) Make of hardware fittings, flush doors shall be as under: Flush Doors: Century, Green, Duro, Kit Laminate / Veneer: Century, Greenlam, Duro, Aerolam, Dolby Glass: Saint Gobain, Aasahi Float, Modi Guard Handles, Hinges and Other Hardware etc: Hettich, Hafele, Godrej, Dorset Cylindrical Door locks: Godrej, Dorma, Dorset.	sqm	137.00	6000.00	8,22,000.00
9.4	FRP Door Providing and fixing in position 32/35 mm thick approved quality and design water proof, solid FRP Doors shutters as per sample approved by the SBI for wash rooms. Each door shutter will have following fittings. (i) 3 no's, 125 mm X 64 mmx 2.5 mm, SS butt hinges, (ii) 1 no's, SS tower bolts 150 mm long, (iii) 2 no's, SS handle 100 mm, (iv) Knob type lock of Godrej/ Enox /Dorma etc. complete. Make: Advance FRP / Sancom Composites/ Arihant Enterprise or approved equivalent.	sqm	123.00	3500.00	4,30,500.00
9.5	Providing and fixing fire-resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120gm/m ²) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96Kg/m ³ . The frame will have a provision of G.I. Anchor fasteners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter. The frame shall be finished with approved fire-resistant primer or Powder coating of not less than 30 microns in desired shade as per the directions of the Architect / Bank's Engineer. (Cost of SS ball bearing hinges is excluded).	meter	130.00	1867.00	2,42,710.00
9.6	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Architect / Bank's Engineer, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m ²) duly filled mineral wool insulation having density min 96 kg/m ³ and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Architect / Bank's Engineer. (panelling to be paid for seperately).	sqm	51.00	10184.00	5,19,384.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
9.7	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m ²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c, including applying a coat of approved fire resistant primer/powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Architect / Bank's Engineer with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20).				
	The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	sqm	51.00	37015.00	18,87,765.00
9.8	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 Architect / Bank's Engineer, all complete.	each	21.00	7090.00	1,48,890.00
9.9	UPVC Window shutters with Frame Providing & fixing in position factory made uPVC white / any colour sliding window up to 1.50 M to 2.4M in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 15. to 2.52 mm thick depending upon the window galvanised mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimensions of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gaskets, wool pile, touch locks with hooks, with single nylon rollers (weight bearing capacity to be 80/ 150 Kg), SS fasteners 100 x 8 mm size for fixing frame to finished wall and 5 degree gradient slope in track (drainage track) comes with threshold, low threshold without threshold option & necessary stainless steel screws etc 8 mm thick toughened glass panes (ST 136), fixed in shutters, flush handle, C handle, D handle with locking arrangements as per manufacturers specifications etc. complete.				
	Make: Fenesta, Reheau, Veka or approved equivalent. Texture to be approved by the Architect / Bank's Engineer.				
9.9.1	Slider (3 track & 3 panels).	sqm	129.00	8000.00	10,32,000.00
9.9.2	2 Side Hung Panels	sqm	7.00	8000.00	56,000.00
9.9.3	Top Hung with Exhaust	sqm	67.00	9700.00	6,49,900.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
9.10	Sliding door with Frame Three track three panels sliding door with two glazed & one (mosquito) wire mesh panels with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on two panels along with multi-point locking system, adjustable nylon rollers with SS 304 body.				
	Using R4 series with frame (115mm & above) x (45mm & above) & both glazed and fly screen sash (44mm & above) x (85mm & above). (Height above 2.5 meter).	sqm	345.00	9700.00	33,46,500.00
9.11	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	Fixed to openings /wooden frames with rawl plugs screws etc	kg	3998.00	215.00	8,59,570.00
10	STEEL WORK				
	All structural steel items are including fabrication, welding, riveting, bolting, scaffolding, finishing, with all accessories, anchor fasteners of Hilti, Fischer or equivalent make including all lead, lifts, heights etc. complete, all as per design, drawings, as per manufacturer's specification and instructions given by Architect / Bank's Engineer.				
10.1	Structural Steel Works Fabricating, providing and fixing in position Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying 2 or more coats of approved synthetic enamel paint over a priming coat approved Zinc Oxide steel primer all complete.	kg	5000.00	130.00	6,50,000.00
10.2	MS Grill Door Providing, fabricating and fixing in position MS tubular grill door at all heights and locations with necessary lifts and lead, loading / unloading etc. complete as per approved design made of angle iron outer frames with mild steel angle sections of size 40x40x6mm joints mitred and welded by angle iron 40x40x6mm or 40x6mm flat pieces to the wall with dash fastener, fixing with 15x3 mm lugs 10cm long embeded in cement concrete block 15x10x10 cm of CC 1:3:6 and MS hollow tubular frames for doors with rectangular / L-type sections, made of 1.60mm thick MS sheet joints mitred, welded and grinded finish, with profiles of required size, and intermediate grill work made out of made of MS flats, square bars, round bars, angles, tees, etc including fixing butt hinges and screws, all necessary fittings, universal shutter lock for both side locking, lock strike plate, handles, including applying two coats of enamel paint over a coat of zinc oxide primer coat of approved make on all surfaces, complete. Rates to include necessary cutting / chasing floor, wall carefully and repairing the sem to its original position ,scaffolding, pulleus, painting of repaired surface complete as per the direction of Architect / Bank's Engineer.	kg	1319.00	166.00	2,18,954.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
10.3	MS Tubular Truss Fabricating, providing and fixing in position Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying 2 or more coats of approved synthetic enamel paint over a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
	Hot finished seamless type tubes.	kg	7350.00	160.00	11,76,000.00
10.4	MS Fabrication work Providing, Fabricating and fixing in-position MS Angle Doors/ window frames, MS Grilles to Windows/ openings, Balcony/ Parapet Railings, MS Gratings, Frames, Guard bars, Ladder, Brackets, Compound Gates, Compound wall Railings/Grilles and other similar MS Fabrication works at all heights and locations with necessary lifts and lead, loading/unloading etc. complete as per approved design made out of MS flats, Square bars, Round Bars, Angles, Tees etc and anchoring the same to walls, Floor, RCC slab etc. using Nut, bolts, holdfasts, Anchor Fasteners etc. as required including two coats of enamel paint over a coat of Zinc Oxide primer complete. Rates to include necessary hardware, cutting / chasing floor, wall carefully and repairing the same to its original position, scaffolding, pulleys, painting of repaired surface complete as directed at site by the Architect / Bank's Engineer.	kg	14541.00	110.00	15,99,510.00
10.5	SS Railing with Toughened Glass Providing and fixing in position Toughened Glass Railing with Stainless Steel framework to Staircase, Balconies, etc. 1000 mm height from Finished floor level comprising of 50mm dia 1.60 mm thick Glossy finished SS Pipe handrail supported on 25/32mm dia. Circular or square, 2.0mm thick (14 Gauge) SS hollow pipes balustrade placed at 900mm centre to centre (or actual division as per site conditions), mounted on SS 304 grade solid base plate 100mm x 8mm and fixed to floor / staircase treads with the help of dash fasteners (HILTI / FISCHER make) including providing and fixing 12mm thick toughened glass panels of required between balustrades using appropriate specially developed high strength SS brackets/patch fittings complete as per Architectural drawings and as directed at site by the Architect / Bank's Engineer.				
	Note: For payment purpose, length of handrails will be taken (between outer edge of glass) excluding the length of railing beyond glass.				
	Using Stainless Steel Grade 316 Sections.	sqm	441.00	50000.00	2,20,50,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
10.6	Stainless Steel Grills / Railing Providing and fixing in position, at all heights, levels and location, stainless steel of specified Grade for balcony Grills, Staircase Railing etc. made up of SS hallow tubes, channels, plates etc. as per approved drawing, including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing rigidly with floor, walls etc. using required accessories including stainless steel dash fasteners, stainless steel bolts etc. of required size on the floor or on side of waist slab, Balconies with suitable arrangements as per approval of Architect / Bank's Engineer.				
	Rates to include necessary civil repair for making the surface good, scaffolding etc. complete as directed at site.				
10.6.1	Using Stainless Steel Grade 316 Sections.	kg	3672.00	400.00	14,68,800.00
11	SITE DEVELOPMENT AND ROAD WORK				
11.1	Wet Mix Macadam Providing and laying in range of 100 to 150 mm thick Wet Mix Macadam layer conforming to clause 40 of Specification for road and bridge works (5th Revision) of MORT&H (Ministry of Road Transports and Highways), including cost of coarse aggregates fine aggregates, etc through cleaning and thoroughly mixing with water in WMM plant at required OMC as approved by the Architect / Bank's Engineer, carrying the premixed materials by means of tipper, trucks or any other approved and suitable arrangements, laying the mixed materials over the prepared surface, level and camber, through rolling with power roller with necessary hand packing and pinning to give an even surface, including running expenses of all plants and machineries, inclusive expenses of proper traffic control during laying to the satisfaction of by the Architect / Bank's Engineer, required quality control tests at required interval etc complete in all respect as directed, compacted thickness of Water Mix Macadam layer in range of 100 to 150 mm.	cum	1958.00	4225.00	82,72,550.00
11.2	Polythene sheet 2mm thick Providing and laying of 2mm thick polythene sheet on WMM as concrete slab vapor retarder to retard moisture from concrete as per the directions of the architect. The sheet shall be fixed with suitable nails as required. The rate shall be inclusive of all the material, labour, hardware, transportation necessary required for the complete execution of the item as directed by the Architect / Bank's Engineer.	sqm	1096.00	449.00	4,92,104.00
11.3	Tack coat Providing and applying tack coat using hot straight run bitumen of grade VG - 10 including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications:				
11.3.1	On W.M.M. @ 0.75 Kg / sqm.	sqm	3329.00	51.00	1,69,779.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
11.4	Bituminous Macadam Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Architect / Bank's Engineer.				
11.4.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	238.00	9432.00	22,44,816.00
11.5	Pre-moulded joint filler Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Architect / Bank's Engineer. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.	meter	731.00	5.00	3,655.00
11.6	Paver Block Providing and laying approved quality chamfered edge factory made, rubber moulded, M-30 grade cement concrete interlocking paver block manufactured through block making machine with strong vibratory compaction, of approved size, design and shape, laid in required colour and pattern including laying 50 mm thick compacted bed of coarse sand, filling the joints with fine sand, finishing and sweeping extra sand etc. in footpath, compound area, driveway etc. complete as per the direction of Architect / Bank's Engineer.				
	The rates to inclusive of cutting of paver blocks unishape shape as per required size and pattern, in ref (terra cotta), black, brown, ash, grey, or any colour. Make: Basant betons, Sobha Limited, Kaptim, Alcock, Vyara, Pavit or equivalent approved by the bank. Sample of Precast C.C. pavers shall be approved by Architect / Bank's Engineer. Note: Thickness may marginally vary as per manufacturer's specifications.				
11.6.1	80 mm thick Paver block	sqm	2203.00	1500.00	33,04,500.00
11.6.2	60 mm thick Grass pavers	sqm	177.00	1405.00	2,48,685.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
11.7	Kerb stone Providing and laying approved quality, factory made M-25 grade cement concrete Kerb Stone of size 450 X 300 X 150mm fixed in proper line, level and curvature, jointed with cement mortar 1:2 (1 cement : 2 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage openings, wherever required, including painting with 2 coats of exterior grade weather proof paint in desired shade complete etc. as per direction of Architect / Bank's Engineer. (Precast C.C. kerb stone shall be approved by Architect / Bank's Engineer).				
	Note: Length of finished kerb edging shall be measured for payment. Make: Basant betons, Sobha Limited, Kaptim, Alcock, Vyara, Pavit or equivalent approved by the bank. Sample of Precast C.C. Kerbs shall be approved by Architect / Bank's Engineer.	meter	96.00	1400.00	1,34,400.00
11.8	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Architect / Bank's Engineer.				
	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	meter	677.00	1068.00	7,23,036.00
11.9	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.				
	With G.I. barbed wire	meter	2474.00	22.10	54,675.40
12	Landscape work				-
12.1	Bed Preparation Preparation of beds for hedging and shrubbery by excavating 600 mm deep and trenching the excavated base to a further depth of 300 mm, refilling pit with mixture of good soil and farm yard manure after mixing it in 2:1 proportion (2 parts of good soil : 1 part of farm yard manure), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. complete. Rate includes stacking of serviceable material or spereading the same within the plot/premises as directed and also disposal of materials declared unserviceable, within or outside the premises, including the cost of transportation, loading/unloading, payment applicable royalty, if any to local administration etc. complete. as directed by of Architect / Bank's Engineer. For per Sqm area - (Soil 0.03 Cum, Organic Manure 21.52 Kg)	sqm	1950.00	4500.00	87,75,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
12.2	Mexican Grass Supplying and laying Mexican Grass Mat of approved quality at all heights / levels / slopes including necessary sand, joints, tapping the mat to avoid the gap between the soil and mat, etc. including necessary manpower, material, etc. complete all as per standard specification and as directed by of Architect / Bank's Engineer. The rates also includes watering and maintenance of the lawn for 60 days or more till the grass forms thick lawn free from weeds fit for moving including supplying & spreading of manure, oil cake such as neem khali, urea etc as per requirement complete.	sqm	1600.00	600.00	9,60,000.00
12.3	Plantation Supply and plantation of various types of healthy decorative / flowering trees, plants, hedges, land covers etc. as per specification and directions of of Architect / Bank's Engineer and also replacing the similar plants in case of death of any plant, during maintenance period. The plants will be selected and approved by the Bank before plantation. The rate shall include cost of excavation, earth, manure and maintenance etc.				
12.3.1	Green Bushes of 300 to 450 mm height	each	450.00	200.00	90,000.00
12.3.2	Flowering Plants of 300 mm and above height	each	3000.00	200.00	6,00,000.00
12.3.3	Medium Sized Plants of 1000 to 1500 height	each	400.00	3000.00	12,00,000.00
12.3.4	Tall Plants of 2000 mm and above height	each	120.00	5000.00	6,00,000.00
12.4	Planters Boxes Providing and fixing in position approved quality Indoor Planter Boxes with stone finish suitable for indoor with organic manure and good soil as directed by of Architect / Bank's Engineer.				
12.4.1	Size 700 X 550 mm	each	50.00	3000.00	1,50,000.00
12.4.1	Size 700 X 550 mm	each	20.00	4500.00	90,000.00
12.5	Cement Planter Providing and fixing approved quality Cement Planter Boxes suitable for exteriors with organic manure and good soil etc. complete as directed by Architect / Bank's Engineer.				
12.5.1	Size 750 X 300 X 260 mm	each	20.00	2000.00	40,000.00
12.5.2	Size 1000 X 300 X 260 mm	each	20.00	2500.00	50,000.00
12.5.3	Size 1200 X 450 X 450 mm	each	20.00	3500.00	70,000.00
12.6	CPVC Pipeline Providing, Laying, cutting, jointing, fixing and Testing of SDR-11 Chlorinated Polyvinyl Chloride (CPVC) Pipes conforming to IS:15778, UV resistant, having thermal stability for hot & cold water supply, including all types of CPVC plain & brass treaded specials and fittings as per the requirement, jointing of pipes and fittings with one step CPVC solvent cement and by Teflon tape on threaded end etc. complete as per the manufacturer's specifications and as per the directions of the Architect / Bank's Engineer. Make of all fittings shall be similar to pipe make including testing of pipes. Rate should include necessary excavation in trenches and refilling and repairing the surface to its original position including execution of work at all heights and locations with necessary scaffolding, staging etc. complete.				
12.6.1	25 mm dia. Pipe	meter	300.00	650.00	1,95,000.00
12.6.2	32 mm dia. Pipe	meter	180.00	700.00	1,26,000.00
12.6.3	40 mm dia. Pipe	meter	60.00	750.00	45,000.00
12.6.4	50 mm dia. Pipe	meter	150.00	800.00	1,20,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
12.6.5	65 mm dia. Pipe	meter	230.00	850.00	1,95,500.00
12.7	Gate Valve Providing and fixing in position ISI marked Class-2 Gate Valve (Screwed End) of approved quality, made up of Bronze, with CI Wheel with minimum working pressure of 15kg/cm ² , confirming to IS : 778 - 1984, with necessary fittings and hardware etc. complete as per the manufacturer's specifications and per the directions of the Architect / Bank's Engineer. Rate should include necessary excavation in trenches and refilling and repairing the surface to its original position including execution of work at all heights and locations with necessary scaffolding, staging etc. complete.				
	Model: Zoloto - 1040B / equivalent in L&T Valves / UNIK / equivalent make approved by SBI				
12.7.1	25 mm nominal bore	each	12.00	550.00	6,600.00
12.8	Non-Return / Check Valve Providing and fixing ISI marked Bronze Non-Return / Check Valve (screwed end) of approved quality confirming to IS: 778 - 1984, for horizontal / vertical flow with all necessary fittings and hardware etc. complete as per the manufacturer's specifications and per the directions of the Architect / Bank's Engineer. Rate should include necessary excavation in trenches and refilling and repairing the surface to its original position including execution of work at all heights and locations with necessary scaffolding, staging etc. complete.				
	Model: Zoloto - 1040B / equivalent in L&T Valves / UNIK / equivalent make approved by SBI				
	Horizontal Line				
12.8.1	25 mm nominal bore	each	8.00	600.00	4,800.00
12.9	Pressure Reducing Valve Set Pressure Reducing Valve Set Providing and fixing ISI marked Diaphragm-less, Pistonoperated Forged Brass Pressure Reducing Valve (Screwed End) of approved quality, tested to a incoming pressure not less than 25 kg/cm ² & outgoing pressure not grater than 2.5 kg/cm ² or similar on GI / CPVC lines with necessary G.I. / CPVC unions, nipples, threaded joints complete, all other necessary fittings and hardware etc. complete as per the manufacturer's specifications and per the directions of the Architect / Bank's Engineer. Rate should include necessary excavation in trenches and refilling and repairing the surface to its original position including execution of work at all heights and locations with necessary scaffolding, staging etc. complete.				
	Model: Zoloto - 1040B / equivalent in L&T Valves / UNIK / equivalent make approved by SBI				
12.9.1	25 mm nominal bore	each	8.00	4000.00	32,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
12.10	Air Release Valves (In Terrace Loop) Providing and fixing ISI marked C.P. Forged Brass Pressure Reducing Valve (Screwed End) of approved quality with all necessary fittings and hardware etc. complete as per the manufacturer's specifications and per the directions of the Architect / Bank's Engineer. Rate should include necessary excavation in trenches and refilling and repairing the surface to its original position including execution of work at all heights and locations with necessary scaffolding, staging etc. complete.				
	Model: Zoloto - 1040B / equivalent in L&T Valves / UNIK / equivalent make approved by SBI				
12.10.1	25 mm nominal bore	each	6.00	3500.00	21,000.00
12.11	Ferrule Providing and fixing ISI marked Ferrule (Screwed End) of approved quality made up of Bronze, including boring and tapping the main with all necessary fittings and hardware etc. complete as per the manufacturer's specifications and per the directions of the Architect / Bank's Engineer.				
	Model: Zoloto - 1040B / equivalent in L&T Valves / UNIK / equivalent make approved by SBI				
12.11.1	25 mm nominal bore	each	16.00	450.00	7,200.00
12.12	Water Meter Providing and fixing Bulk Type Water Meter including direct reading dial in KL with all necessary fittings such as threaded pieces, unions, pressure gauge, isolation cock, flange pieces, rubber insertions, bolts, nuts etc. complete with all necessary testing charges and obtaining test certificates from Municipal Authorities, on following size pipe lines. The meter shall comply to ISO 4064 standard, feasible for class B or Class A installation.				
	Make : Kranti / Belanto / Ascorp / Toshniwal / Konark / equivalent approved by SBI				
12.12.1	50 mm nominal bore	each	2.00	5000.00	10,000.00
12.13	Masonry Chamber Designing and constructing Masonry Chamber with CI Surface Box for water meter / sluice valve / gate valve with details as under: a. Foundation Concrete in cement concrete 1:2:4. b. Brick Masonry 230 mm thick with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in CM 1:4. c. RCC Top Slab 150mm thick in cement concrete 1:1½:3 mix and top & bottom reinforcement 8ø @ 150 c/c both way including embedding the frame of C.I. surface box.				
	d. Plastering inside and outside of average 12 mm thickness with cement mortar 1:3 with a floating coat of neat cement on inside face. e. The rate also includes excavation in all kind of soil up to required depth, dewatering, necessary centring & shuttering, curing, backfilling earth in exposed side, ramming and removing the surplus excavated material and making good the same complete as required.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
12.13.1	Chamber size 30 x 30 x 50 cm (inside) with C.I. surface box 10 x 10 x 7.5 cm (inside) with hinged cover.	each	12.00	2000.00	24,000.00
13	Water proofing				
	Make: Pidilite Industries Ltd. / BASF India Ltd. / Sika / Fosroc / Asian / Dr. Fixit or equivalent approved by SBI. All the waterproofing items shall be carried out by the reputed agency duly approved by Architect / Bank's Engineer.				
	The treatments shall be tested for water tightness and shall be guaranteed for water tightness in bone dry conditions for at least 10 years period. During this period, if any leakage is observed, the same shall be rectified by contractor through said agency to the satisfaction of Architect / Bank's Engineer without any extra cost.				
	The Guarantee shall be furnished on Rs. 500/- non-Judicial stamp paper to cover all the above conditions. The guarantee shall be furnished by the contractor in prescribed format jointly signed by authorized and approved agency to this effect.				
13.1	Waterproofing Treatment to Toilet Sunken and other Internal Wet Areas 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.	sqm	1664.00	850.00	14,14,400.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
13.2	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 Architect / Bank's Engineer over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (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 Architect / Bank's Engineer 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.				
	(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 Architect / Bank's Engineer. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Architect / Bank's Engineer 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 300x300 mm square 3 mm deep.				
	(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 Architect / Bank's Engineer.				
13.2.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	sqm	1004.00	1200.00	12,04,800.00
13.3	Light Weight Filling in the Sunken Portion Providing and filling the cavity of sunken portion of toilets (after application of principal waterproofing treatment to surface of sunk RCC slab) with brick bats broken AAC blocks of 25 mm to 115 mm in size with 50% of cement mortar 1:4 admixed with approved water proofing compound conforming to IS: 2645 complete as directed by the Architect / Bank's Engineer.	cum	236.00	7500.00	17,70,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
13.4	Protective Screed Plaster Providing and applying average 12-15 mm thick protective layer / plaster in cement mortar (1:3) including mixing integral waterproofing admixture of approved quality @ 100 ML / bag of cement including making 300 mm high half round watta at the junctions of floor and wall and keeping the surface rough to receive further finishing including curing and ponding with water for 7 days for testing etc. complete Mode of Measurement: internal surface area of sunken portion (i.e. Length X Width) shall be measured.	sqm	785.00	650.00	5,10,250.00
13.5	Sealing Around Pipe / Sleeve etc. Providing and laying non shrink, free flow, high strength cementitious grout material, of approved quality, to seal the annular gap around pipe periphery and core cut in the slab including providing and applying two-way adhesive tape to be stuck around the pipe periphery within the cutouts section of the slab and prior to laying the grout manufacturers' specifications, followed by providing and applying liquid applied flashing around the pipe periphery joints.	each	195.00	600.00	1,17,000.00
13.6	UG Sump Well and OH Water Storage Tanks Waterproofing Providing and laying waterproofing and protective tank lining system through approved specialized agencies for U/G and O/H storage tank internally consisting of: a. Cleaning the surface of the internal concrete surface of the floor as well as walls thoroughly by wire brushing and washing with high pressure water jet, to remove any loose laitance as well as contaminates, thereafter inspecting the concrete surface to identify any honeycombs, crack, voids or defects in the concrete such as cracks, construction joints etc., and sealing all such locations with solvent free epoxy mortar, using epoxy resin and hardener.				
	b. Thereafter, providing and applying containment membrane lining system consisting of combination of epoxy and polysulphide formulation Epoxy Polysulphide formulation membrane lining cures to produce a tough, flexible coating system with excellent abrasion and chemical resistance and waterproof properties and consists of 2 component, which shall be applied in 2 coats by way of spray or roller to provide a minimum wet film thickness of 0.25 mm per coat with material consumption of approx. 0.3 Kg per Sqm per coat, all as per manufacturers recommendation etc. complete. c. Treatment used should be nontoxic system, to be used in drinking water and potable water tanks, tested to BS 6920.	sqm	2202.00	900.00	19,81,800.00
14	Structural Glazing				
14.1	STRUCTURAL GLAZING WITH DOUBLE GLASS UNITS				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Designing, Providing and installing semi unitised structural glazing with Double glass panel, 6mm toughened Glass of Royal Blue ST 750 of saint gobain (outside) & 6mm thick heat strengthen high performance clear glass (inside) with reflective coating on surface outside and in vision/ spandrel panels including structural silicon sealant of Dow Corning make grade DC 995 or approved make, all mullions, transoms, gutters, sills, trims for vision and spandrel panel and including providing and installing anodised aluminium extruded frame work (minimum 20 microns) in approved colour, stainless steel brackets of SS 316 Grade, clamps, stainless steel bolts, nuts washers & shims, approved stainless steel expansion fasteners (HILTI) or equivalent with stainless steel bolts nuts and washers spacer tape of Norton make Corning make grade DC 789 or of approved make /EPDM gaskets drainage provisions weather seal flashing and seal at all interfaces with building structure, openings, louvered and cladding system etc. all complete as per specifications and shop drawings based on design approved by Architect / Bank's Engineer.				
	The Mullions of 104x61x2mm thk shall be at 600mm C/C distance and transoms of 63x40x1.5 mm thk shall be at 1200 mm C/C distance, extruded section shall be designed to accommodate for double glazing as per the directions. Final size of the Glass panel 600mm X 1200mm.				
	Vision panel of DGU with 6mm toughened Glass of Royal Blue ST 750 of saint gobain +12mm thk argon gas + 6mm thick heat strengthen high performance clear glass as per the directions of Architect / Bank's Engineer.				
	The rate shall be inclusive of all the necessary material, required hardware, labour, transportation, scaffolding necessary for the complete execution of the item, etc. Approved Makes of Glass: Saint Gobain, Asahi float, Modi Guard.				
	NOTES: 1. After completion of the work, the Contractor should do Water test with high pressure for leakages if any after execution as per the directions of Architect / Bank's Engineer. 2. The Contractor should do Maintenance (Cleaning once in every three months interval for Structural Glazing, ACP and Canopy work) for one year at free of cost above defects liability period. 5% value of the work for this item would be hold with the bank, released after completion of Maintenance period.	sqm	20.00	10486.00	2,09,720.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
14.2	Extra for openable side / top hung vision glass panels (DGUs) including providing and supplying at site all accessories and hardware 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 Architect / Bank's Engineer.	sqm	3.00	4254.00	12,762.00
14.3	Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi -rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5.				
	The insulation layer shall have facing (factory bonded on surface # 1of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm / sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminium sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.	sqm	12.00	1830.22	21,962.64
15	Miscellaneous Works				
15.1	Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardant having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Architect / Bank's Engineer.	sqm	54.90	4534.00	2,48,916.60
	Sub-Total Part 'I' - CIVIL WORKS (Excluding GST)				19,81,96,987.44
	Part 'II' - Plumbing and Sanitary Works				
	SANITARY INSTALLATION				
1	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
1.1	W.C. pan with ISI marked white solid plastic seat and lid	each	48.00	5,867.00	2,81,616.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required				
2.1	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	each	48.00	2005.00	96,240.00
3	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink with drain board				
	510x1040 mm bowl depth 250 mm				
3.1	kitchen sink	each	32.00	6254.00	2,00,128.00
4	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	each	48.00	315.00	15,120.00
5	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	flexible pipe				
	32 mm dia				
5.1	kitchen sink waste pipe (flexible)	each	32.00	108.00	3,456.00
6	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.	each	48.00	1448.00	69,504.00
7	Providing and fixing toilet paper holder :				
7.1	C.P. brass	each	48.00	724.00	34,752.00
	WATER SUPPLY				
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. (Concealed work, including cutting chases and making good the walls)				
1.1	20 mm nominal dia Pipes	meter	113.00	485.00	54,805.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. (External work)				
2.1	20 mm nominal dia pipes	meter	270.00	247.00	66,690.00
2.2	25 mm nominal dia pipes	meter	458.00	321.00	1,47,018.00
2.3	32 mm nominal dia pipes	meter	456.00	395.00	1,80,120.00
2.4	40 mm nominal dia pipes	meter	137.00	507.00	69,459.00
2.5	50 mm nominal dia pipes	meter	81.00	716.00	57,996.00
2.6	65 mm nominal dia pipes	meter	15.00	1508.00	22,620.00
3	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
3.1	25 mm nominal bore	each	11.00	561.00	6,171.00
3.2	20 mm nominal bore	each	76.00	487.00	37,012.00
3.3	32 mm nominal bore	each	5.00	621.00	3,105.00
3.4	40 mm nominal bore	each	1.00	744.00	744.00
3.5	50 mm nominal bore	each	2.00	925.00	1,850.00
3.6	65 mm nominal bore	each	1.00	1569.00	1,569.00
4	Providing and fixing uplasticised PVC connection pipe with brass unions :				
4.1	45 cm length				
4.2	15 mm nominal bore	each	53.00	89.00	4,717.00
5	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
5.1	15 mm nominal bore	each	8.00	457.00	3,656.00
6	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
6.1	15mm nominal bore angle cock	each	260.00	518.00	1,34,680.00
7	Excavating trenches by mechanical/manual means of required width for pipes, cables, etc, including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, 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 layers by ramming, watering etc., and disposing of surplus excavated soil as directed, within a lward of 50m:				
7.1	All kind of soil				
7.2	Pipes, cables etc, exceeding 300mm dia but not exceeding 600mm dia	meter	300.00	496.00	1,48,800.00
	DRAINAGE				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
8	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
8.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	3.00	9781.00	29,343.00
9	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
9.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	2.00	17016.00	34,032.00
10	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 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:				
	150 x 100 mm size P type				
10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7.00	2462.00	17,234.00
11	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
11.1	300 mm dia. R.C.C. pipe	meter	20.00	896.00	17,920.00
12	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top 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 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5				
12.1	manhole	each	2.00	22243.00	44,486.00
13	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:				
	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :				
13.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	41.00	6248.00	2,56,168.00
14	Extra for depth beyond 45 cm of brick masonry chamber :				
	For 455x610 mm size				
14.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	32.00	5508.00	1,76,256.00
15	Excavating trenches by mechanical/manual means of required width for pipes, cables, etc, including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, 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 layers by ramming, watering etc., and disposing of surplus excavated soil as directed, within a lead of 50m:				
	All kind of soil				
15.1	Pipes, cables etc, exceeding 300mm dia but not exceeding 600mm dia	meter	297.00	496.00	1,47,312.00
16	Extra for excavating trenches for pipes, cables, etc, in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3m. (Rate is over corresponding basic item for depth upto 1.5 meter)				
	Ordinary rock				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
16.1	Pipes, cables etc, exceeding 80mm dia but not exceeding 300mm dia	meter	100.00	658.00	65,800.00
17	Supplying & fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
17.1	25 mm	meter	275.00	131.00	36,025.00
18	Supplying & drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as required for water level controller.				
18.1	6 x 1.5 sq. mm	meter	275.00	163.00	44,825.00
19	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS:12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (Cap: 5000Ltrs. for DGM Block)	per litre	5000.00	10.00	50,000.00
20	Providing, fixing, testing and commissioning of glazed 50 % colour Vitreous China Wall Mounted Water Closet (Make: Jaquar Cat. No. KUS-WHT- 35953 BIUFSMPM, Concealed Flush Tank (Make: Jaquar Cat. No. JCS-WHT-2400FP), Face Plate (Make: Jaquar Cat. No. JCP-CHR-852415) MS / CI chair brackets, fischer bolts with CP bolts / nuts and with concealed flush tank, solid plastic seat and lid with heavy duty CP hinges and rubber buffers and flap etc. and as directed by the Engineer-in-charge.	each	4.00	21698.00	86,792.00
21	Providing and fixing of glazed white vitreous china counter Top wash basin Size: 530x420x140 mm, Shape - Rectangular (Make: Jaquar Cat. No. JDS-WHM-25907N), Single Lever Basin Mixer (Make: Jaquar Cat. No. KUP-35011BPM), Angle Stope Cock (Make: Jaquar Cat. No. KUP-35053PM), Waste coupling (Make: Jaquar Cat. No. ALD-729), Bottle Trap Pipe Connection (Make: Jaquar Cat. No. ALD-769L300x190) installed above granite/ marble/ wood with basin mixer. The works shall include cutting in walls and making good the walls & floors. and necessary consumables like brass screws, CP extension nipple of approved make, dia and length, wooden plugs, white cement, sealants etc., and as directed by the Engineer-in-charge.	each	5.00	17098.00	85,490.00
22	Providing and fixing, testing and commissioning of shower assembly unit consisting of one no, single lever concealed diverter (Make: Jaquar Cat. No. ALD-079N), one no spout (Make: Jaquar Cat. No. SPJ-37429), one no. CP brass over head Rain Shower arrangements (Make: Jaquar Cat. No. OHS-35497), shower arm (Make: Jaquar Cat. No. SHA-455L600), including cutting, chasing & making good the walls. and as directed by the Engineer-in-charge.	each	3.00	12078.00	36,234.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
23	Providing and fixing of best quality stainless steel Kitchen sink with single bowl and drain board (Make: NIRALI Model Name: OLYMPIA), Single Lever Sink Mixer with Swinging Spout (Table Mounted) with 450mm Long Braided Hoses (Make: Jaquar Cat. No. OPP-15173BPM) 38mm dia CP waste couplings (Make: Jaquar Cat. No. ALD-729), 38mm dia bottle trap (Make: Jaquar Cat. No. ALD-769L300x190) etc complete. The working shall include fixing the sink in position setting in CM etc, complete and also cutting holes in wall and floors and making good the floor.and as directed by the Engineer-in-charge.	each	2.00	18777.00	37,554.00
24	Providing and fixing of CP health faucet (Make: Jaquar Cat. No. ALD-573) consisting of CP angle stop cock with wall flange (Make: Jaquar Cat. No. KUP-35053PM) PVC flexible tube Hand operated spray unit (instant type) and as directed by the Engineer-in-charge.	each	4.00	3967.00	15,868.00
25	Providing and fixing of CP brass overhead shower (Make: Jaquar Cat. No. BSH-1771) and heavy casted shower arm with wall flange (Make: Jaquar Cat. No. SHA-483) or equivalent of approved brand and manufacture and as directed by the Engineer-in-charge.	each	51.00	4893.00	2,49,543.00
26	Providing and fixing of CP brass single lever exposed parts of Hi-flow diverter with wall flange and button (Make: Jaquar Cat. No. OPP-15079NKPM) or equivalent of approved brand and manufacture and as directed by the Engineer-in-charge.	each	51.00	1742.00	88,842.00
27	Providing and fixing of concealed body for single lever diverter with button assembly and cartridge sleeve (Make: Jaquar Cat. No. ALD-079N) or equivalent of approved brand and manufacture and as directed by the Engineer-in-charge.	each	51.00	3212.00	1,63,812.00
28	Providing and fixing of spout with wall flange for shower (Make: Jaquar Cat. No. SPJ-5429S) or equivalent of approved brand and manufacture and as directed by the Engineer-in-charge.	each	51.00	1217.00	62,067.00
29	Providing and fixing of 600mm long 25mm dia CP brass superior quality towel rail and flange with concealed brass screws etc., (Make: Jaquar Cat. No. ACN-1111SM) including cutting & making good the walls, wooden plugs, white cement, sealants etc., Only drilling machines shall be used for making the holes in the walls for fixing, no wall jumper and hammer will be allowed.	each	51.00	1217.00	62,067.00
30	Providing and fixing of CP brass 2way bib cock for Health faucet & Waching Mashine complete. (Make: Jaquar Cat. No. CON-041KN) or equivalent of approved brand and manufacture and as directed by the Engineer-in-charge.	each	69.00	1174.00	81,006.00
31	Providing and fixing Stainless Steel grating of approved quality and colour, rectangle type with openable circular lid 150 mm nominal size square, 100 mm diameter of inner hinged round grating.	each	201.00	450.00	90,450.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
32	Providing and fixing C.P. brass towel ring (Make: Jaquar Cat. No. ACN-1121BN) round with round flange of jaquar brand or equivalent make of approved quality.	each	53.00	901.00	47,753.00
33	Collecting and fixing of 20mm dia CP concealed stop cock with wall flange (Make: Jaquar, Cat. No. CON-083FTX & ALD-089) for DGM Bungalow.	each	5.00	1532.00	7,660.00
34	Providing, fixing, testing and commissioning of PVC normal floor trap of self cleansing design moulded or fabricated, if not available in size of self cleansing design with or without vent arm complete including cutting and making good the walls and floors.				
34.1	110mm dia inlet 75mm dia outlet	each	201.00	427.00	85,827.00
35	Providing, fixing and commissioning of electrically operated storage water heater inner container made from copper including the remal instalation safety valve, vacuum relief valve, neon lamp, mounting brackets, installing in position with coach screws or bolts, nuts, Flexible pipe, testing, commissioning, etc, (Make: AO Smith, Model: Finesse)				
35.1	Cap:10Liters	each	48.00	10380.00	4,98,240.00
36	Providing ,fixing, testing and commissioning of PVC soil, waste and vent pipe confirming to IS 13592 of SWR, including all fittings, like Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste, fixed to wall with properly fabricated MS bracket of suitable size, GI 'U' clamps with bolts, nuts and GI washers complete, for soil and waste pipe lines laid in vertical shafts (Type-A) as per the direction of Enginee-in-charge.				
36.1	75 mm diameter	meter	465.00	262.00	1,21,830.00
36.2	110 mm diameter	meter	349.00	419.00	1,46,231.00
37	Providing, fixing, testing and commissioning of PVC soil, waste and vent pipe confirming to IS 13592 of SWR quality self fit type with socket and solvent cement joint including all fittings, like Bends, Tees, Elbows, Collars, junction, offsets, access pipes, jointing with solvent cement followed by application of leak proof adhesive like FRP paste & laid on floors inside the toilets to the required slope including making necessary bores in masonry walls as applicable, making good the bores with CM 1:3 or cement concrete 1:2:4 as applicable, curing etc., complete. (Type-B) as per the direction of Enginee-in-charge.				
	The horizontal pipes running suspended in the ceiling leel shall be to self fit type with solvent cement joint.				
	Note:				
	i) Including MS brackets fabricated out of L angle / flats, 6mm / 8mm GI 'U' clamps with GI washers and nuts, 12mm / 15 mm dia full threaded GI rods etc., complete.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	ii) Including 12 mm / 15 mm dia full threaded GI rods with necessary washers and nuts etc., for supporting GI MS fire hydrant pipes running in fire duct / terrace Ground / basement floor ceiling level.				
	iii) Including 12 mm / 15 mm dia anchor fasteners for suspending GI rods / brackets etc.				
37.1	75 mm diameter	meter	437.00	496.00	2,16,752.00
37.2	110 mm diameter	meter	224.00	511.00	1,14,464.00
38	Providing and fixing PVC waste Drainage 10kg/cm ² pipe including all fittings, like Bends, Tees, Elbows, Collars, junction, offsets, access pipes, jointing with solvent cement followed by application of leak proof adhesive like FRP paste & laid on floors inside the toilets to the required slope including making necessary bores in masonry walls as applicable, making good the bores with CM 1:3 or cement concrete 1:2:4 as applicable, curing etc., complete as per the direction of Engineer-in-charge.				
38.1	40 mm dia	meter	130.00	115.00	14,950.00
39	Providing and laying of PVC soil and waste pipes for underground drainage line laid under the soil with required slopes, conforming to IS 4985 of Agricultural series - 6 kgs / sq.cm pressure rated with necessary specials of required size jointing with solvent followed by application leak proof adhesives of FRP paste, including haunching / covering the joints with cement concrete 1:3:6 at all the joints and testing of joints etc. complete as per the direction of Engineer-in-charge				
39.1	75 mm dia	meter	36.00	600.00	21,600.00
39.2	110 mm dia	meter	70.00	850.00	59,500.00
39.3	160 mm dia	meter	491.00	1450.00	7,11,950.00
40	Providing, fixing, testing and commissioning of PVC welded rain water head / khurras type grating with puddle flange to fix head in RCC slab specially fabricated from minimum 4mm thick PVC sheet, including removable heavy duty PVC grating of 50 x 3 mm thick PVC flats (Round or Square) as per approved design The quoted rate shall include for necessary grouting the khurras base with approved sealant complete all as shown in the drawing and as specified.				
	Notes:				
	Rate Quoted shall be inclusive of cost of cement, sand and other consumables like hacksaw blade etc.				
40.1	150 x 150mm PVC Grating	each	3.00	2416.00	7,248.00
40.2	200 x 200mm PVC Grating	each	9.00	3685.00	33,165.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
41	RAIN WATER HARVEST PIT Construction of percolation well / rain water recharge pit with precast RCC rings, covering the top with RCC slab including supply and fixing 600 x 600 RCC MH cover CI / MS rungs etc. The quoted rate shall include earth work excavation, back filling, removing excess earth and making good the floor. The percolation well harvest pit shall be constructed as per the detail drawings and specification shall consist of:				
	Alternate layers of brick bats, activated charcoal, gravel, pebbles and topped with M-sand for good infiltration.				
	1Nos. bore holes of 160 mm dia from the bottom of percolation pit for a depth of 6m, drilled by using auger manually.				
	Bore hole to be filled with medium sized pebbles to provide mechanical strength to the holes and enhance infiltration.				
	Rate quoted shall be inclusive of earthwork excavation, back filling, removing of excess earth as per the instructions of engineer - in charge.				
	Open well of 1.5m dia	each	4.00	45000.00	1,80,000.00
42	Making of Core cutting in RCC Slab of all grade for Services as required etc., including scaffolding etc., complete at all levels as per engineer in charge.				
	For pipe dia				
42.1	50mm to 110mm dia	each	112.0	500.00	56,000.00
42.2	150mm to 200 mm dia	each	16.0	700.00	11,200.00
43	Providing and fixing of precast SFRC cover 650 x 650mm with 50 x 50 x 6mm thick with MS L angle frame (medium duty) for Underground sump	each	9.0	4500.00	40,500.00
44	Providing and fixing 600mm long puddle flange consisting of 6mm thick welded GI / MS plate, flanges of suitable size hot dip galvanised to 100 micron properly fixed in walls of water tanks as per specifications and approved drawings and shall be of following diameters.				
44.1	25 mm dia	each	3.0	1250.00	3,750.00
44.2	32 mm dia	each	11.0	1450.00	15,950.00
44.3	50 mm dia	each	5	1950.00	9,750.00
44.4	65 mm dia	each	1.0	2379.00	2,379.00
44.5	100 mm dia	each	9.0	3000.00	27,000.00
	STAFF QUARTERS				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
45	Supplying, installing, testing and commissioning of 2 Nos. of submersible type domestic water transfer pumps (one working + one stand by) for pumping the water from domestic water UG Sump to OHT & Landscaping / Irrigation. The pump shall be coupled to adequate H.P. electrical motor, mounted on a common base frame. Contractor has to take approval from architect for transfer pumps before procurement.				
	The rate quoted shall be inclusive of:				
	Suitable indoor wall mounting type control starter panel with auto / manual change - over switch with overload protection relay mounted in weather proof (IP65) protection MS box with RYB indicators, volt meter and ammeter, etc. complete including dry run protection arrangement, wiring upto panel, earthing etc. complete.				
	Industrial type electronic liquid level controllers with stainless steel probes / sensors or float switch for automatic operation.				
	Alarm indication with signal in the event of pump failure etc.				
	The pump shall be suitable for the following requirements:				
	Flow rate of each pump - 2.50 Cu.m/Hr				
45.1	Pump design head - 30-35 m	nos	4	52500.00	2,10,000.00
46	Supplying, installing, testing and commissioning of Submersible type transfer pumps (1W + 1S) for pumping the water from STP treated water under ground sump to OHT. The pump shall be coupled to adequate H.P. electrical motor, mounted on a common base frame made out of 'GI' with necessary bolts and nuts. Contractor has to take approval from architect for transfer pumps before procurement.				
	The pump shall be suitable for the following requirements:				
	Flow rate of each pump - 1.50 Cu.m/Hr				
	Pump design head - 40-45 m				
	The pumps shall be provided with:				
	Suitable indoor wall mounting type control starter panel with auto / manual change - over switch with overload protection relay mounted in weather proof (IP65) protection MS box with RYB indicators, volt meter and ammeter, etc. complete including dry run protection arrangement, wiring upto panel, earthing etc. complete.				
	Industrial type electronic liquid level controllers with stainless steel probes / sensors or float switch for automatic operation.				
	Alarm indication with signal in the event of pump failure etc.	nos	2.0	52500.00	1,05,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
47	Providing and fixing of PVC encapsulated foot steps 300 mm staggered apart for UG sump tank as per standard make of SFRC or equivalent make fixing in RCC walls during casting of RCC walls.	nos	90.0	450.00	40,500.00
48	Supply, delivery, installation, testing, commissioning of auto-water level controller having photo sensor for avoiding switching the pump on, digital display of water level in the sump/tank, trigger for automatic operation of pumpset when the water level reaches low level, including fixing necessary stainless steel sensors, float level switch, probes, etc. The rate shall also include the control cabling from panel to sump/tank, making connections from the level controller to the pump starter, necessary conduiting, cabling etc. complete. The work has to be done by qualified electrical contractor only. Make: L&T or equivalent.	nos	4.0	22500.00	90,000.00
49	Supply, installation, testing, commissioning of SEWAGE TREATMENT PLANT CAPACITY - 20 KLD - NBR Technology. (excluding civil works) PROCESS DESCRIPTION OF SEWAGE TREATMENT PLANT : In this the waste water will be primarily passed through a settler tank and then passed through an anaerobic baffle reactor and anaerobic filter module for secondary treatment. Effluent from anaerobic filter will be led to tertiary treatment by sand and carbon filter or planted gravel filter. Since the treated water is meant for reuse. The rate quoted shall be inclusive of electrical control cables, power cables, cable trays, transfer pumps and all accessories required to complete the installation.	lumps um	1.0	750000.00	7,50,000.00
50	Supplying, installation, testing, and commissioning of solar water heating system with solar panels / collectors with storage tank capacity of 100trs confirming following specifications for generation of hot water: (Cap.: 100Ltrs.)	nos	4.0	18000.00	72,000.00
51	PUMPS AND ACCESSORIES FOR WATER TREATMENT PLANT:				
51.1	FILTER FEED WATER PUMPS				
	Supplying, installing, testing and commissioning of 2 Submersible type feed water pumps (One working + one stand by) for pumping the water from raw water U.G. sump through sand filter, activated carbon filter and antiscalent doser. The pump shall be coupled to adequate H.P. electrical motor, mounted on a common base frame made out of 'GI' with necessary bolts and nuts. The pump shall be provided with suitable enclosure with strainer arrangement for the protection of pumps.				
	The pump shall be suitable for the following requirements:				
	Flow rate of each pump - 2.50 Cu.m / hr				
	Head - 35 mtr.				
	The rate quoted shall be inclusive of:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Suitable indoor wall mounting type control starter panel with auto / manual change - over switch with overload protection relay mounted in weather proof (IP65) protection MS box with RYB indicators, volt meter and ammeter, etc. complete including dry run protection arrangement, wiring upto panel, earthing etc. complete.				
	1 no. pressure gauge 4" dial with needle valve and tee fittings.				
	2 nos. of Ball valves / Cast iron lever operated slim seal type butterfly valves of CI body (depend on the dia of pipe) and spheroidal graphite iron disc (SG iron), with nitrile rubber seal, tested to 10kg / sq.cm Confirming to BS 5155 / MF6 standards and including a set of GI flanges as per BS - 10 table1, including bolts, nuts, GI washers and neoprene rubber gaskets complete etc., (Inter valve / Audco make) on the delivery side.				
	2 nos. slim seal flap type check valve with CI body and cast steel disc tested to PN - 10kg / sq.cm pressure including a set of GI flanges as per BS - 10 table1 including bolts, nuts, GI washers and neoprene rubber gaskets complete etc., (Inter valve / Audco make) on the delivery side.				
	GI manifold of suitable dia on delivery side and suction side finished neatly with hot dip galvanizing to 100 microns with flanged end on either sides and collar provision for connectivity of above mentioned valves.				
	Make: Wilo (Germany) Brand: Raptor Model: WPO Raptor 15C/3-415-50-2 PUMP Three Phase 1.5 HP, 1.1 kW. Wilo Raptor Series, Single Phase and Three Phase Horizontal open well Submersible Pumps are designed for under water application, and therefore, there is no need for priming or a foot valve. These pumps are suitable for open well or tanks where there are wide actuations in water level. (1W+1S)				
	Make: Unique-Q Tech India Pvt Ltd Brand: Q Digital Model No: QDPC-TP3-7.5 Capacity: Up to 7.5 KW, Twin Pump Controller. Three Phase Unique Features: * Dynamic LCD Display * With Electrical Side All type of protection, Like... Over Voltage, Under Voltage, Short Circuit, Phase Loss, * Load Side: Over Load, No Load, Dry Run Protection. * Built-in Timer * Built-in Water Level Controller. * Multifunction Display – Visualization of: voltage, motor current, upper/lower tank status and alarms.	nos	02	49375.00	98,750.00
52	WATER TREATMENT PLANT (WTP)				
52.1	MS - SAND PRESSURE FILTER				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Supply, installation testing and commissioning of sand pressure filter (SPF) for filtration of raw borewell water. The filter shall be suitable for 2.50 cu.m /hr flow rate and designed to operate for 4 hours and to suspended particals / impurities raw borewell water.				
	The sizing / diameter of SPF shall be designed based on specific velocity 12 cu.m / hr / sq.m area and the approx dia. shall not be less than 450 mm dia				
	The filtration unit shall comply with the following technical requirements:				
	Flow rate - 2.50 cu.m / Hr				
	Back wash duration - 15 minutes				
	Painting Internal - Two coats of anti-corrosive epoxy paint after sand blasting.				
	Painting external - Two coat of redoxide primer and above that a layer of two coats of enamel paint to be done to give the finishing.				
	Filtering Media - Sand/Pebbles				
	Pressure drop across unit. - 0.7Kg/ sq.cm (max)				
	Inlet turbidity - 1.00 as NTU				
	Minimum operating pressure - 3.0kg / sq.cm.				
	Maximum Test pressure - 7.0kg / sq.cm.				
	Dia of sand pressure filter unit - 500 mm dia.				
	Further, the filtration unit shall comprise of the following:				
	The sand pressure filter vessel shall be fabricated out of MS plate (CRCA sheet of TATA make) not less then 6mm thick with dish ends out of 8 mm thick plate and painted internally with two coats of anticorrosive epoxy paint after sand blasting and externally with two coats epoxy primer followed by two coats of enamel paint of approved colour.				
	The Sand Pressure filter shall be fitted with top inlet distribution and bottom collecting system.				
	Pressure gauge shall be provided at inlet and out let of Sand Pressure filter.				
	"V-Notch" of suitable size fabricated out of 6 mm MS plate and finished with hot dip galvanizing to 100 microns including marking of flowrates indication for monitoring of backwash of Sand pressure filter.				
	Initial charge of underbed and multigrade filtering media as required.				
	Complete set of valves, pressure gauge with needle valve and frontal piping at inlet, outlet backwash and drain out point etc., with GI 'B' class pipes (make: Tata / Jindal).				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Concrete bed/pedestals of suitable size and thickness in cement concrete 1:2:4 for mounting the filter base with anchor fastener, bolts and nuts and neatly finished smooth with floating coat of cement mortar.	set	01	95000.00	95,000.00
	Make : Unique-Q Tech India Pvt. Ltd. Brand : UniSoft Model : Unisoft PSF 12 CO Capacity : 12,000 Ltr/Day. MPV: Imported Multiport Valve, Water Capacity : 4.5m³/h, Suited pressure: 0.2-0.6MPa, Keyboard locked function, Inlet/outlet : 1" Size: 2162 (Pentair Structural FRP Vessel) Minimum burst at 600 psi, Tested to 100,000 cycles without leakage (NSF) Color: Natural (Vessel Height 21" and Width 62")				
52.2	MS - ACTIVATED CARBON FILTER (ACF):				
	Supply, installation, testing and commissioning of activated carbon filter for filtration and removal of colour and odour in bore well water. The filter shall be suitable for 2.50 cu.m / Hr flow rate and designed to operate for 4 hours.				
	The sizing / diameter of ACF shall be designed based on a specific velocity of 12 cu.m/ hr / sq.m area and the approx dia shall not be less than 450 mm dia				
	The Activated Carbon Filter unit shall comply with the following technical requirement.				
	Flow rate - 2.50 cu.m / Hr				
	Back wash duration - 15 minutes				
	Painting Internal - Two coats of anti-corrosive epoxy paint after sand blasting.				
	Painting external - Two coat of redoxide primer and above that a layer of two coats of enamel paint to be done to give the finishing.				
	Filtering Media - activated carbon				
	Pressure drop across unit. - 1.0Kg/ sq.cm (max)				
	Inlet turbidity - 1.00 as NTU				
	Minimum operating pressure - 3.0kg / sq.cm.				
	Maximum Test pressure - 7.0kg / sq.cm.				
	Dia of activated carbon filter unit - 450 mm dia.				
	Further, the Activated Carbon Filter unit shall comprise of the following:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	The activated carbon filter vessel shall be fabricated out of MS plate (CRCA sheet of TATA make) not less than 6mm thick with dish ends out of 8mm thick plate and painted internally with two coats of anticorrosive epoxy paint after sand blasting and externally with two coats epoxy primer followed by two coats of enamel paint of approved colour.				
	The Activated Carbon Filter shall be fitted with inlet distribution and bottom collecting system.				
	Pressure gauge shall be provided at inlet and out let of Activated Carbon filter.				
	"V-Notch" of suitable size fabricated out of 6 mm MS plate and finished with hot dip galvanizing to 100 microns including marking of flowrates indication for monitoring of backwash of Activated Carbon filter.				
	Initial charge of underbed and multigrade filtering media as required.				
	Complete set of valves, pressure gauge with needle valve and frontal piping at inlet, outlet backwash and drain out point etc., with GI 'B' class pipes (make: Tata / Jindal).				
	Concrete bed/pedestals of suitable size and thickness in cement concrete 1:2:4 for mounting the filter base with anchor fastener, bolts and nuts and neatly finished smooth with floating coat of cement mortar.	set	01	105000.00	1,05,000.00
	Make : Unique-Q Tech India Pvt. Ltd. Brand : UniSoft Model : Unisoft ACF 12 CO Capacity : 12,000 Ltr/Day. MPV: Imported Multiport Valve, Water Capacity : 4.5m³/h, Suited pressure: 0.2-0.6MPa, Keyboard locked function, Inlet/outlet : 1" Size: 2162 (Pentair Structural FRP Vessel) Minimum burst at 600 psi, Tested to 100,000 cycles without leakage (NSF) Color: Natural (Vessel Height 21" and Width 62")				
52.3	MS - WATER SOFTENER - DOMESTIC USE :				
	Supply, installation testing and commissioning of softener for softening of raw bore well water for domestic use. The softener shall comprise of the following:				
	SOFTENER VESSEL				
	The softener vessel shall be fabricated out of MS plate (CRCA sheet of TATA make) not less than 6mm thick with dish ends out of 8mm thick plate and painted internally with two coats of anticorrosive epoxy paint after sand blasting and externally with two coats epoxy primer followed by two coats of enamel paint of approved colour.				
	Piping and Valves:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	One set of GI piping to connect the control valves with the softener unit and regeneration tank up to the inlet point at UG sump.				
	Complete set of valves, pressure gauge with needle valve and frontal pipe work done with GI 'B' class pipes (Make: Tata / Jindal)				
	"V-Notch" of suitable size fabricated out of 6 mm MS plate and finished with hot dip galvanizing to 100 microns including marking of flowrates indication for monitoring of rinsing softener				
	Pressure gauge shall be provided at inlet and out let of Softener				
	FRP Regeneration Equipment:				
	One FRP salt saturator tank for storage and preparation of brine solution AS PER SYSTEM REQUIREMENT				
	Resin Material:				
	First charge of high capacity polystyrene bead type cation exchange resin of approved quality. The water testing kit shall also be included. The quantity of resin shall be required capacity for hardness of asper water test report PPM. Make of resin shall be Thermax / Auchtel.				
	Water Meter:				
	A gun metal water flow meter (make: Dashmesh/Kranthi) shall be supplied & installed to register the amount of water passed through the softener.				
	Epoxy painting of all equipments, piping, etc., shall be included in the offer.				
	Concrete bed/pedestals of suitable size and thickness in cement concrete 1:2:4 for mounting the filter base with anchor fastener, bolts and nuts and neatly finished smooth with floating coat of cement mortar.				
	Make : Unique-Q Tech India Pvt. Ltd. Brand : UniSoft Model : Unisoft WSP 12 CO Capacity : 12,000 Ltr/Day. MPV: Imported Multiport Valve, Water Capacity : 4.5m³/h, Suited pressure: 0.2-0.6MPa, Keyboard locked function, Inlet/outlet : 1" Size: 2162 (Pentair Structural FRP Vessel) Minimum burst at 600 psi, Tested to 100,000 cycles without leakage (NSF) Color: Natural (Vessel Height 21" and Width 62") Regeneration: Fully Automatic flow based Consisting of 01 No Brine tank (Salt has to be feed manually)				
	DESIGN DATA - Daily requirement 10.00 cu.m / day	set	01	155000.00	1,55,000.00
52.4	CHLORINE DOSER:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Supply, installation, testing and commissioning of on line automatic electronic sodium hypo dosing unit with automatically operated dosing pump etc., The unit shall comprise of the following:				
	One no. single moulded FRP cylindrical type chemical solution tank of 100 litres capacity having detachable lids with moulded inserts for mounting of pumps and stirrer.				
	One on. Electronic diaphragm type positive displacement pump of Asia LMI make, for chemical dosing with plastic head. The electronic pump shall be operated on 220V single phase supply and shall be mounted directly on the tank top.				
	Complete set of pipes, valves and fittings, foot valve magnetic float switch to trip the dosing pump at low level of chemical in the tank.				
	The free chlorine content in the filtered water shall not be less than 0.5 PPM.				
	Min. Actuating Pressure - 0.3 kg/sq cm				
	Max. Working Pressure - 0.5 kg/sq cm				
	Max. Temperature - 50 degree Centigrade				
	Dosing flow range - As per system requirement				
	Dosing flow range - As per system requirement				
	A). One no. single molded FRP/ Eqv. cylindrical type chemical solution tank of 125litres capacity having detachable lids with moulded inserts for mounting of pumps and stirrer. B). One on. Electronic diaphragm type positive displacement pump of e Dose / LCM make, for chemical dosing with plastic head. The electronic pump shall be operated on 220V single phase supply and shall be mounted directly on the tank top. C). Complete set of pipes, valves and fittings, foot valve magnetic float switch to trip the dosing pump at low level of chemical in the tank.	set	01	26000.00	26,000.00
	DGM BUNGALOW				
53	Supplying, installing, testing and commissioning of 2 Nos. of submersible type domestic water transfer pumps (one working + one stand by) for pumping the water from domestic water UG Sump to OHT & Landscaping / Irrigation. The pump shall be coupled to adequate H.P. electrical motor, mounted on a common base frame. The rate quoted shall be inclusive of the following: Contractor has to take approval from architect for transfer pumps before procurment.				
	The rate quoted shall be inclusive of:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Suitable indoor wall mounting type control starter panel with auto / manual change - over switch with overload protection relay mounted in weather proof (IP65) protection MS box with RYB indicators, volt meter and ammeter, etc. complete including dry run protection arrangement, wiring upto panel, earthing etc. complete.				
	Industrial type electronic liquid level controllers with stainless steel probes / sensors or float switch for automatic operation.				
	Alarm indication with signal in the event of pump failure etc.				
	The pump shall be suitable for the following requirements:				
	Flow rate of each pump - 1.00 Cu.m/Hr				
	Pump design head - 30-35 m	nos	04	45000.00	1,80,000.00
54	Supply, installing, testing & commissioning of approved make Booster pump with Pressure vessel for pumping water from OHT to all toilets, showers, including necessary Control Valves, Non-Return Valves and CPVC pipe. with necessary cabling from the pump to panel at PHE Pump room and making a PCC foundation for the pumps (1working+1standby). Contractor has to take approval from architect for transfer pumps before procurment				
	The pump shall be suitable for the following requirements:				
	Flow rate of each pump - 3.60 Cu.m/Hr				
	Pump design head - 15-20 m				
	The pumps shall be provided with:				
	Suitable indoor wall mounting type control starter panel with auto / manual change - over switch with overload protection relay mounted in weather proof (IP65) protection MS box with RYB indicators, volt meter and ammeter, etc. complete including dry run protection arrangement, wiring upto panel, earthing etc. complete.				
	Alarm indication with signal in the event of pump failure etc.	nos	02	55000.00	1,10,000.00
55	Supplying, installation, testing, and commissioning of solar water heating system with Solar cum Heat Pump with storage tank capacity of 300Ltrs confirming following specifications for generation of hot water : (Solar Panel Cap.: 100Ltrs. & Heat pump 300 Ltrs.)	nos	01	225000.00	2,25,000.00
56	PUMPS AND ACCESSORIES FOR WATER TREATMENT PLANT:				
56.1	FILTER FEED WATER PUMPS				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Supplying, installing, testing and commissioning of Submersible type feed water pumps (One working + one stand by) for pumping the water from raw water U.G. sump through sand filter, activated carbon filter and antiscalent doser. The pump shall be coupled to adequate H.P. electrical motor, mounted on a common base frame made out of 'GI' with necessary bolts and nuts. The pump shall be provided with suitable enclosure with strainer arrangement for the protection of pumps.				
	The pump shall be suitable for the following requirements:				
	Flow rate of each pump - 2.50 Cu.m / hr				
	Head - 35 mtr.				
	The rate quoted shall be inclusive of:				
	Suitable indoor wall mounting type control starter panel with auto / manual change - over switch with overload protection relay mounted in weather proof (IP65) protection MS box with RYB indicators, volt meter and ammeter, etc. complete including dry run protection arrangement, wiring upto panel, earthing etc. complete.				
	1 no. pressure gauge 4" dial with needle valve and tee fittings.				
	2 nos. of Ball valves / Cast iron lever operated slim seal type butterfly valves of CI body (depend on the dia of pipe) and spheroidal graphite iron disc (SG iron), with nitrile rubber seal, tested to 10kg / sq.cm Confirming to BS 5155 / MF6 standards and including a set of GI flanges as per BS - 10 table1, including bolts, nuts, GI washers and neoprene rubber gaskets complete etc., (Inter valve / Audco make) on the delivery side.				
	2 nos. slim seal flap type check valve with CI body and cast steel disc tested to PN - 10kg / sq.cm pressure including a set of GI flanges as per BS - 10 table1 including bolts, nuts, GI washers and neoprene rubber gaskets complete etc., (Inter valve / Audco make) on the delivery side.				
	GI manifold of suitable dia on delivery side and suction side finished neatly with hot dip galvanizing to 100 microns with flanged end on either sides and collar provision for connectivity of above mentioned valves.				
	Make: Wilo (Germany) Brand: Raptor Model: WPO Raptor 15C/3-415-50-2 PUMP Three Phase 1.5 HP, 1.1 kW. Wilo Raptor Series, Single Phase and Three Phase Horizontal open well Submersible Pumps are designed for under water application, and therefore, there is no need for priming or a foot valve. These pumps are suitable for open well or tanks where there are wide actuations in water level. (1W+1S)				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Make: Unique-Q Tech India Pvt Ltd Brand: Q Digital Model No: QDPC-TP3-7.5 Capacity: Up to 7.5 KW, Twin Pump Controller. Three Phase Unique Features: * Dynamic LCD Display * With Electrical Side All type of protection, Like... Over Voltage, Under Voltage, Short Circuit, Phase Loss, * Load Side: Over Load, No Load, Dry Run Protection. * Built-in Timer * Built-in Water Level Controller. * Multifunction Display – Visualization of: voltage, motor current, upper/lower tank status and alarms.	nos	02	49375.00	98,750.00
57	WATER TREATMENT PLANT (WTP)				
57.1	MS - SAND PRESSURE FILTER				
a)	Supply, installation testing and commissioning of sand pressure filter (SPF) for filtration of raw borewell water. The filter shall be suitable for 2 cu.m /hr flow rate and designed to operate for 4 hours and to suspended particals / impurities raw borewell water.				
	The sizing / diameter of SPF shall be designed based on specific velocity 6 cu.m / hr / sq.m area and the approx dia. shall not be less than 400 mm dia				
	The filtration unit shall comply with the following technical requirements:				
	Flow rate - 2.00 cu.m / Hr				
	Back wash duration - 15 minutes				
	Painting Internal - Two coats of anti-corrosive epoxy paint after sand blasting.				
	Painting external - Two coat of redoxide primer and above that a layer of two coats of enamel paint to be done to give the finishing.				
	Filtering Media - Sand/Pebbles				
	Pressure drop across unit. - 0.7Kg/ sq.cm (max)				
	Inlet turbidity - 1.00 as NTU				
	Minimum operating pressure - 3.0kg / sq.cm.				
	Maximum Test pressure - 7.0kg / sq.cm.				
	Dia of sand pressure filter unit - 500 mm dia.				
	Further, the filtration unit shall comprise of the following:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	The sand pressure filter vessel shall be fabricated out of MS plate (CRCA sheet of TATA make) not less than 6mm thick with dish ends out of 8 mm thick plate and painted internally with two coats of anticorrosive epoxy paint after sand blasting and externally with two coats epoxy primer followed by two coats of enamel paint of approved colour.				
	The Sand Pressure filter shall be fitted with top inlet distribution and bottom collecting system.				
	Pressure gauge shall be provided at inlet and out let of Sand Pressure filter.				
	"V-Notch" of suitable size fabricated out of 6 mm MS plate and finished with hot dip galvanizing to 100 microns including marking of flowrates indication for monitoring of backwash of Sand pressure filter.				
	Initial charge of underbed and multigrade filtering media as required.				
	Complete set of valves, pressure gauge with needle valve and frontal piping at inlet, outlet backwash and drain out point etc., with GI 'B' class pipes (make: Tata / Jindal).				
	Concrete bed/pedestals of suitable size and thickness in cement concrete 1:2:4 for mounting the filter base with anchor fastener, bolts and nuts and neatly finished smooth with floating coat of cement mortar.	set	01	63000.00	63,000.00
	Brand : UniSoft Model : Unisoft PSF 6 DO MPV Imported Multiport Valve. Water Capacity : 4 5t/h Suited Pressure: 0.1 - 0.6MPa Keyboard locked function Inlet/Outlet 1" Capacity : 6000 Ltr/Day Size : 1665 (Pentair Structural FRP Vessel) Minimum burst at 600 psi, Tested to 250,000 cycles without leakage (NSF) Color: Blue (Vessel Height 65" and Width 16") Regeneration: Fully Automatic flow based				
57.2	MS - ACTIVATED CARBON FILTER (ACF):				
	Supply, installation, testing and commissioning of activated carbon filter for filtration and removal of colour and odour in bore well water. The filter shall be suitable for 2.00 cu.m / Hr flow rate and designed to operate for 4 hours.				
	The sizing / diameter of ACF shall be designed based on a specific velocity of 6 cu.m/ hr / sq.m area and the approx dia shall not be less than 400 mm dia				
	The Activated Carbon Filter unit shall comply with the following technical requirement.				
	Flow rate - 2.00 cu.m / Hr				
	Back wash duration - 15 minutes				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Painting Internal - Two coats of anti-corrosive epoxy paint after sand blasting.				
	Painting external - Two coat of redoxide primer and above that a layer of two coats of enamel paint to be done to give the finishing.				
	Filtering Media - activated carbon				
	Pressure drop across unit. - 1.0Kg/ sq.cm (max)				
	Inlet turbidity - 1.00 as NTU				
	Minimum operating pressure - 3.0kg / sq.cm.				
	Maximum Test pressure - 7.0kg / sq.cm.				
	Dia of activated carbon filter unit - 450 mm dia.				
	Further, the Activated Carbon Filter unit shall comprise of the following:				
	The activated carbon filter vessel shall be fabricated out of MS plate (CRCA sheet of TATA make) not less than 6mm thick with dish ends out of 8mm thick plate and painted internally with two coats of anticorrosive epoxy paint after sand blasting and externally with two coats epoxy primer followed by two coats of enamel paint of approved colour.				
	The Activated Carbon Filter shall be fitted with inlet distribution and bottom collecting system.				
	Pressure gauge shall be provided at inlet and out let of Activated Carbon filter.				
	"V-Notch" of suitable size fabricated out of 6 mm MS plate and finished with hot dip galvanizing to 100 microns including marking of flowrates indication for monitoring of backwash of Activated Carbon filter.				
	Initial charge of underbed and multigrade filtering media as required.				
	Complete set of valves, pressure gauge with needle valve and frontal piping at inlet, outlet backwash and drain out point etc., with GI 'B' class pipes (make: Tata / Jindal).				
	Concrete bed/pedestals of suitable size and thickness in cement concrete 1:2:4 for mounting the filter base with anchor fastener, bolts and nuts and neatly finished smooth with floating coat of cement mortar.	set	01	70000.00	70,000.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Brand : UniSoft Model : Unisoft ACF 6 DO MPV Imported Multiport Valve. Water Capacity : 4 5t/h Suited Pressure: 0.1 - 0.6MPa Keyboard locked function Inlet/Outlet 1" Capacity : 6000 Ltr/Day Size : 1665 (Pentair Structural FRP Vessel) Minimum burst at 600 psi, Tested to 250,000 cycles without leakage (NSF) Color: Blue (Vessel Height 65" and Width 16") Regeneration: Fully Automatic flow based				
57.3	MS - WATER SOFTENER - DOMESTIC USE :				
	Supply, installation testing and commissioning of softener for softening of raw bore well water for domestic use. The softener shall comprise of the following:				
a)	SOFTENER VESSEL				
	The softener vessel shall be fabricated out of MS plate (CRCA sheet of TATA make) not less than 6mm thick with dish ends out of 8mm thick plate and painted internally with two coats of anticorrosive epoxy paint after sand blasting and externally with two coats epoxy primer followed by two coats of enamel paint of approved colour.				
b)	Piping and Valves:				
	One set of GI piping to connect the control valves with the softener unit and regeneration tank up to the inlet point at UG sump.				
	Complete set of valves, pressure gauge with needle valve and frontal pipe work done with GI 'B' class pipes (Make: Tata / Jindal)				
	"V-Notch" of suitable size fabricated out of 6 mm MS plate and finished with hot dip galvanizing to 100 microns including marking of flowrates indication for monitoring of rinsing softener				
	Pressure gauge shall be provided at inlet and out let of Softener				
c)	FRP Regeneration Equipment:				
	One FRP salt saturator tank for storage and preparation of brine solution AS PER SYSTEM REQUIREMENT				
d)	Resin Material:				
	First charge of high capacity polystyrene bead type cation exchange resin of approved quality. The water testing kit shall also be included. The quantity of resin shall be required capacity for hardness of asper water test report PPM. Make of resin shall be Thermax / Auchtel.				
e)	Water Meter:				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	A gun metal water flow meter (make: Dashmesh/Kranthi) shall be supplied & installed to register the amount of water passed through the softener.				
f)	Epoxy painting of all equipments, piping, etc., shall be included in the offer.				
g)	Concrete bed/pedestals of suitable size and thickness in cement concrete 1:2:4 for mounting the filter base with anchor fastener, bolts and nuts and neatly finished smooth with floating coat of cement mortar.				
	Make : Unique-Q Tech India Pvt. Ltd. Brand : UniSoft Model : Unisoft WSP 6 DO Capacity : 6,000 Ltr/Day. MPV : Imported Multiport Valve, Water Capacity : 4.5t/h, Suited pressure: 0.1 - 0.6MPa, Keyboard locked function, Inlet/outlet : 1" Size: 1665 (Pentair Structural FRP Vessel) Minimum burst at 600 psi, Tested to 250,000 cycles without leakage (NSF) Color: Blue (Vessel Height 65" and Width 16") Regeneration: Fully Automatic flow based Consisting of 01 No Brine tank (Salt has to be feed manually)				
	DESIGN DATA - Daily requirement 2.00 cu.m / day	set	01	172000.00	1,72,000.00
57.4	CHLORINE DOSER:				
	Supply, installation, testing and commissioning of on line automatic electronic sodium hypo dosing unit with automatically operated dosing pump etc., The unit shall comprise of the following:				
a)	One no. single moulded FRP cylindrical type chemical solution tank of 100 litres capacity having detachable lids with moulded inserts for mounting of pumps and stirrer.				
b)	One on. Electronic diaphragm type positive displacement pump of Asia LMI make, for chemical dosing with plastic head. The electronic pump shall be operated on 220V single phase supply and shall be mounted directly on the tank top.				
c)	Complete set of pipes, valves and fittings, foot valve magnetic float switch to trip the dosing pump at low level of chemical in the tank.				
d)	The free chlorine content in the filtered water shall not be less than 0.5 PPM.				
e)	Min. Actuating Pressure - 0.3 kg/sq cm				
f)	Max. Working Pressure - 0.5 kg/sq cm				
g)	Max. Temperature - 50 degree Centigrade				
h	Dosing flow range - As per system requirement				
i	Head - 5 - 6 mtr				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Supply, installation, testing and commissioning of on line automatic electronic sodium hypo dosing unit with automatically operated dosing pump etc., The unit shall comprise of the following: A). One no. single molded FRP/ Eqv. cylindrical type chemical solution tank of 125litres capacity having detachable lids with moulded inserts for mounting of pumps and stirrer. B). One on. Electronic diaphragm type positive displacement pump of e Dose / LCM make, for chemical dosing with plastic head. The electronic pump shall be operated on 220V single phase supply and shall be mounted directly on the tank top. C). Complete set of pipes, valves and fittings, foot valve magnetic float switch to trip the dosing pump at low level of chemical in the tank.	set	01	26000.00	26,000.00
	Sub-Total Part 'II' - Plumbing and Sanitary Works (Excluding GST)				87,46,653.00
	Part 'III' - Electrical Works				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	point	892.00	1322.00	11,79,224.00
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	point	46.00	1407.00	64,722.00
3	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required.				
3.1	2x2.5 Sq.mm + 1x 2.5 Sq.mm	meter	4940.00	249.00	12,30,060.00
3.2	2x4Sq.mm + 1x 4 Sq.mm	meter	4373.00	301.00	13,16,273.00
4	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.				
4.1	4x6 Sq.mm+ 2x6 Sq.mm earth wire	meter	754.00	833.00	6,28,082.00
5	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
5.1	25mm dia	meter	1871.00	132.00	2,46,972.00
5.2	40mm dia	meter	1102.00	206.00	2,27,012.00
6	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size phenolic laminated sheet cover in front including painting etc. as required.				
6.1	150mmx75mmx60mm deep	each	25.00	195.00	4,875.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
7	Supplying and fixing Two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required.	each	102.00	334.00	34,068.00
8	Supplying and fixing modular blanking plate on the existing modular plate and switch box excluding modular plate as required.	each	310.00	37.00	11,470.00
9	Supplying and fixing 1 or 2 Module GI box, along with modular base & cover plate for modular switches in recess etc, as required.	each	138.00	269.00	37,122.00
10	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/ 6 & 15/ 16 amps modular socket outlet and 15/ 16 amps modular switch with indicator connection etc. as required.	each	202.00	528.00	1,06,656.00
11	Supplying and drawing of UTP 4 pair CAT 6 LAN cable in the existing surface/recessed steel/PVC conduit as required.	meter	2205.00	52.00	1,14,660.00
12	Supplying and drawing 2 Pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/recessed steel/PVC conduit as required.	meter	1001.00	35.00	35,035.00
13	Supplying and drawing co-axial TV RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/recessed steel/PVC conduit as required.	meter	474.00	43.00	20,382.00
14	Wiring for Group controlled (looped) light point /fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	point	25.00	773.00	19,325.00
15	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/ 6 amps modular socket outlet and 2 nos. 5/6 A modular switch, connection etc. as required. (For light plugs to be used in non residential buildings)	each	47.00	610.00	28,670.00
16	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	each	229.00	430.00	98,470.00
17	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	each	86.00	656.00	56,416.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
18	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) Supplying and fixing 5 A to 32 A rating, 240/415 V, 10KA , "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Supplying and fixing following rating, double pole, (single phase and neutral), 240/415 V, residual current circuit breaker (RCCB), having a sensitivity current 100-300 ma in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
18.1	12way, Double door 1No of 5-32A DP MCB 1No of 25A DP RCCB 8Nos 5-32A SP MCB	each	1.00	6346.00	6,346.00
18.2	16way, Double door 1No of 5-32A DP MCB 1No of 40A FP RCCB 1Nos 40A FP MCB	each	2.00	2829.00	5,658.00
18.3	16way, Double door 2Nos of 25A FP MCB 1Nos of 25A FP RCCB Supply installation testing and commissioning of Astronomical time switch of configuration {1output(1output per phase) and suitable for single phase supply} to be mounted in DB for automatic switching ON & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.	each	1.00	10856.00	10,856.00
19	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. Supplying and fixing 5 A to 32 A rating, 240/415 V, 10KA , "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 100-300 ma in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
19.1	6way (4+18), Double door 1No of 40A FP MCB 3Nos of 25A DP RCCB 12Nos of 5-32A SP MCB	each	1.00	13597.00	13,597.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
19.2	8way (4+24), Double door 1No of 40A FP MCB 3Nos of 40A DP RCCB 18Nos of 5-32A SP MCB	each	18.00	17533.00	3,15,594.00
19.3	8way (4+24), Double door 4No of 40A FP MCB 1Nos of 40A FP RCCB Supply installation testing and commissioning of Astronomical time switch of configuration {3output(1output per phase) and suitable for three phase supply} to be mounted in DB for automatic switching ON & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.	each	1.00	21279.00	21,279.00
20	Providing and fixing M.V. danger notice plate of 200 mmx 150mm, made of mild steel, at lease 2mm thick, and vitreous enamelled white on both sides, and with inscription in single red colour on front side as required.	each	29.00	243.00	7,047.00
21	Supplying and installing following size of perforated painted with powder coating M.S cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S suspenders including bolts & nuts, painting suspenders etc as required.				
21.1	150 mm width x 50 mm depth x 1.6 mm thickness	meter	55.00	545.00	29,975.00
21.2	300 mm width x 50 mm depth x 1.6 mm thickness	meter	128.00	700.00	89,600.00
21.3	450 mm width x 50 mm depth x 2 mm thickness	meter	20.00	1025.00	20,500.00
21.4	600 mm width x 50 mm depth x 2 mm thickness	meter	15.00	1231.00	18,465.00
22	Supplying and installing following size of perforated painted with powder coating M.S cable trays bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S suspenders including bolts & nuts, painting suspenders etc as required.				
22.1	150 mm width x 50 mm depth x 1.6 mm thickness	each	5.00	917.00	4,585.00
22.2	300 mm width x 50 mm depth x 1.6 mm thickness	each	10.00	1295.00	12,950.00
22.3	450 mm width x 50 mm depth x 2 mm thickness	each	2.00	2066.00	4,132.00
22.4	600 mm width x 50 mm depth x 2 mm thickness	each	4.00	2558.00	10,232.00
23	Supplying and installing following size of perforated painted with powder coating M.S cable trays Tee with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S suspenders including bolts & nuts, painting suspenders etc as required.				
23.1	150 mm width x 50 mm depth x 1.6 mm thickness	each	2.00	1069.00	2,138.00
23.2	300 mm width x 50 mm depth x 2 mm thickness	each	2.00	1539.00	3,078.00
23.3	450 mm width x 50 mm depth x 2 mm thickness	each	2.00	2484.00	4,968.00
23.4	600 mm width x 50 mm depth x 2 mm thickness	each	2.00	3092.00	6,184.00
24	Supplying and laying 25 mm x 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required. (jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	meter	135.00	876.00	1,18,260.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
25	Supplying and laying 25 mm x 5 mm GI strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required. (jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	meter	717.00	130.00	93,210.00
26	Providing and fixing earth bus of 50mm x5mm copper strip on surface for connections etc. as required.	meter	4.00	1904.00	7,616.00
27	Excavation for cable trenches in soft soil, depth upto 1.2m including dressing of sides lift upto 1.5 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/pipe etc in layers of 20 cm , ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 metres.	cum	39.00	589.00	22,971.00
28	Providing, laying and fixing following 300mm dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.	meter	36.00	1028.00	37,008.00
29	Supplying and laying of 63mm dia (OD-63 mm & ID-51 mm nominal) DWC pipe SN6 ISI marked along with all accessories like socket, bend, couplers etc. confirming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	meter	382.00	115.00	43,930.00
30	Supply , Installation, testing and commissioning of 1200mm sweep, BEE 5star rates , ceiling fan with brush less direct current (BLDC) Motor, class of insulation: B, 3No.s blades, 30 cm long down rod, 2No.s canopies, shackle kit, safety rope, copper winding, Power factor not less than 0.9, Service value (CMM/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.) , insulation resistance more than 2 mega ohm, suitable for 230 V, 50Hz, single phase AC supply earthing etc. complete as required.	each	102.00	2459.00	2,50,818.00
31	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 Cm at the bottom and 50 cm X 50 Cm at the top with a thickness of 10 cm including inscription duly engraved as required.	each	42.00	528.00	22,176.00
32	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade as required.				
32.1	Upto 3.5Cx25 Sq. mm (28mm)	each	5.00	283.00	1,415.00
32.2	Upto 3.5Cx35 Sq. mm (32mm)	each	2.00	334.00	668.00
32.3	Upto 3.5Cx70 Sq. mm (38mm)	each	6.00	423.00	2,538.00
32.4	Upto 3.5Cx240 Sq. mm (62mm)	each	6.00	926.00	5,556.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
33	Supply and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs, potheads suitable for 3cx95 Sq.mm XLPE aluminium conductor cable of 11KV grade as required.	each	6.00	13246.00	79,476.00
34	Supply and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs, potheads suitable for 3cx95 Sq.mm XLPE aluminium conductor cable of 11KV grade as required.	each	2.00	17762.00	35,524.00
35	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for 3cx95 Sq.mm XLPE aluminium conductor of 11KV grade as required.	each	1.00	33695.00	33,695.00
36	Supplying and laying 1.1KV LT Aluminium cable XLPE extruded inner sheathed, armoured UG LT cable as per IS-7098 (Part-1), Armouring strip thickness in average +5% and resistivity 14 Ohms/kms (Max) as per IS-3975. Rate should be inclusive of laying of LT Aluminium UG cable XLPE in existing cable tray.				
36.1	4CX6Sqmm AL Ar XLPE Cable	meter	109.00	134.00	14,606.00
36.2	3.5CX25Sqmm AL Ar XLPE Cable	meter	92.40	212.00	19,588.80
36.3	3.5CX35Sqmm AL Ar XLPE Cable	meter	28.00	246.00	6,888.00
36.4	3.5CX70Sqmm AL Ar XLPE Cable	meter	52.50	629.00	33,022.50
36.5	3.5CX240Sqmm AL Ar XLPE Cable	meter	79.00	1317.00	1,04,043.00
37	Supplying and laying of 1.1KV LT Copper cable XLPE extruded inner sheathed, armoured UG LT cable as per IS-7098 (Part-1), Armouring strip thickness in average +5% and resistivity 14 Ohms/kms (Max) as per IS-3975. Rate should be inclusive of laying of LT Copper UG cable XLPE in existing cable tray.				
37.12	3CX2.5Sqmm CU Ar XLPE Cable	meter	850.00	167.00	1,41,950.00
37.22	4CX6Sqmm CU Ar XLPE Cable	meter	349.00	360.00	1,25,640.00
37.32	4CX10Sqmm CU Ar XLPE Cable	meter	165.00	551.00	90,915.00
38	Supplying and laying 1.1KV LT Aluminium UG cable XLPE extruded inner sheathed, armoured UG LT cable as per IS-7098 (Part-1), Armouring strip thickness in average +5% and resistivity 14 Ohms/kms (Max) as per IS-3975. Rate should be inclusive of Laying of LT Aluminium UG cable XLPE extruded inner sheathed, armoured UG LT cable direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
38.1	4CX6Sqmm AL Ar XLPE Cable	meter	695.00	528.00	3,66,960.00
38.2	3.5CX25Sqmm AL Ar XLPE Cable	meter	94.50	605.00	57,172.50
38.3	3.5CX35Sqmm AL Ar XLPE Cable	meter	94.50	639.00	60,385.50
38.4	3.5CX240Sqmm AL Ar XLPE Cable	meter	501.00	1649.00	8,26,149.00
39	Supplying and laying of 1.1KV LT Copper UG cable XLPE extruded inner sheathed, armoured UG LT cable as per IS-7098 (Part-1), Armouring strip thickness in average +5% and resistivity 14 Ohms/kms (Max) as per IS-3975. Rate should be inclusive of Laying of LT Copper UG cable XLPE extruded inner sheathed, armoured UG LT cable direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
39.12	3CX2.5Sqmm CU Ar XLPE Cable	meter	2132.00	561.00	11,96,052.00
39.22	4CX6Sqmm CU Ar XLPE Cable	meter	1697.00	753.00	12,77,841.00
39.32	4CX10Sqmm CU Ar XLPE Cable	meter	211.00	945.00	1,99,395.00
40	Supplying and making end termination with brass compression gland and Copper lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade as required.				
40.1	Upto 3Cx2.5 Sq. mm (22mm)	each	132.00	561.00	74,052.00
40.2	Upto 4Cx6 Sq. mm (25mm)	each	65.00	753.00	48,945.00
40.3	Upto 4Cx10 Sq. mm (25mm)	each	10.00	945.00	9,450.00
41	Supplying, installation, testing and commissioning of 6module 1 row SPN distribution board. The IP65 Weatherproof Cabinet should have Class: IP65 - IK09 - Class II Protection.	each	21.00	2442.00	51,282.00
42	Supplying and installation of metal fan box with round hook.	each	106.00	161.00	17,066.00
43	Supply, installation testing and commissioning of 150mm Sweep Size Exhaust Fan. The fan should have Automatic front shutter which protects against foreign objects, Light weight exhaust ideal for mounting on glass window or wall. Powerful 100% copper motor ensures robust performance. Corrosion protection with rust proof body and blades, For AC supply 50 Hz, 240 V and Air Delivery : 280CMM , Speed: 1350 rpm in the existing opening i/c making fixing arrangement and connection with 3 core 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required.	each	70.00	1789.00	1,25,230.00
44	Supplying, installation testing and commissioning of 450 mm sweep heavy duty Metal Body exhaust fan suitable for 1400 RPM to operate on 230 V single phase AC supply in the existing opening i/c making fixing arrangement and connection with 3 core 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required.	each	1.00	2364.00	2,364.00
45	Supply, installation testing and commissioning of 30 Inch industrial Air Circulator, the fan should have 3 metal blades which revolve at a rate of 1440 revolutions per minute. Fan should have power consumption of 250 watts and fan should get controlled by button. The rate shall include installing air circulator at 4m height from FFL.	each	3.00	8762.00	26,286.00
46	Supply and fixing of 1Nos of I/o Socket along with 1No of Single face plate and 1No of 2Module GI box with crimping of existing cat 6 cable on computer and rack side.	each	19.00	333.00	6,327.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
47	Supply, fixing of body earthing chemical pipe in pipe earthing electrode of outer dia 76mm of 1.6mm thickness and inner dia of 42mm of 2.6mm thickness ,The length of electrode should be 3meter with galvanised coating and coating should be 80-100 micron. The pipe should have 16mm dia bolts, nuts, washers and check nuts etc. The rate shall be inclusive of excavation, refilling, removing of surplus earth and construction of 450x450 chamber (OD) with plastering on all sides and providing precast cover suitable for 450x450 chamber . The earth pit shall be filled with 2Nos of 25kgs backfilled compound (having good enhancing material) as per standard practices and painting chamber top with black color background and labelling the earth pit and its earth pit resistance value should be done with white color, Testing of earth electrode by earth tester as per directions of Engineer-in-charge.	each	25.00	11967.00	2,99,175.00
48	Supply, fixing of neutral earthing chemical pipe in pipe earthing electrode of outer dia 76mm of 1.6mm thickness and inner dia of 42mm of 2.6mm thickness ,The length of electrode should be 3meter with copper coating and coating should be 250micron, The pipe should have 16mm dia bolts, nuts, washers and check nuts etc. The rate shall be inclusive of excavation, refilling, removing of surplus earth and construction of 450x450 chamber (OD) with plastering on all sides and providing precast cover suitable for 450x450 chamber . The earth pit shall be filled with 1No of 25kgs backfilled compound (having good enhancing material) as per standard practices and painting chamber top with black color background and labelling the earth pit and its earth pit resistance value should be done with white color, Testing of earth electrode by earth tester as per directions of Engineer-in-charge.	each	11.00	21637.00	2,38,007.00
49	Supply, fixing of lightning arrestor earthing chemical pipe in pipe earthing electrode of outer dia 38mm ,The length of electrode should be 3meter with copper plated coating and coating should be 250micron, The pipe should have 16mm dia bolts, nuts, washers and check nuts etc. The electrode should be provided with 250mm (L)x 50mm (H) x 6mm (thickness) copper busbar, the copper busbar should be provided with 4Nos of holes to connect the cables. The rate shall be inclusive of excavation, refilling, removing of surplus earth and construction of 450x450 chamber (OD) with plastering on all sides and providing precast cover suitable for 450x450 chamber . The earth pit shall be filled with 1No of 25kgs backfilled compound (having good enhancing material) as per standard practices and painting chamber top with black color background and labelling the earth pit and its earth pit resistance value should be done with white color, Testing of earth electrode by earth tester as per directions of Engineer-in-charge.	each	2.00	15476.00	30,952.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
50	Supply and installation of Early streamer Emission safe Lightning protection rod having level of protection I covering minimum 79 meters radius coverage. The ESE lighting rod should have tested for withstanding 200KA. The ESE should be approved by CPRI/ BHEL. Supply and installation of Elevation pole made of Class 'B' GI- material having ISI-marking. Consists of the following (for a typical 4.5m mast):a) 4.5mtr x 80mm outer dia GI pipe and inner dia 48 with 3.2mm thick. b) Base plate(800x800x10mm), mounting bracket, clamps and all required fixing accessories supplied in compliance with IEC 62561 - 1c) Providing (850x850x 700mm) concrete pedestal 4Nos of J bolts of size M16X600LG and to be embedded in the concrete pedestal. The rate should be including 800x800x10mm thick base plate during the concrete. Supply and installation of Lightning Flash Counter. Electronically controlled, register every strike between 1000 A to 100 KA for a 8/20 microsecond peak current. Tested in High Voltage Laboratory (CPRI).Digital -2 etc as required.	each	1.00	101943.00	1,01,943.00
51	Supply and installation of test link with GI strip of 40x6mm of 277mm length and 3Nos insulators, washer & nut	each	1.00	1957.00	1,957.00
52	Supply, Installation of Down conductor made of Copper cable. Minimum cross sectional area of 1cx 70 Sq. mm to withstand 250kA lightning current and comply with NFC/ IEC 62305 standard. Cable shall have 19-strands across the 70sqmm cross-section, each strand dia of min 2.1mm	meter	75.00	1423.00	1,06,725.00
53	Supply, installation, testing and commissioning of Single phase 32A industrial socket with plug top controlled by 40A DP MCB with enclosure box.	each	16.00	2523.00	40,368.00
54	Supply installation of 1X16W LED1 4feet batten With inbuilt Sensor range of 3.5 meter, Housing Material Steel, Optic material, Polycarbonate, Optical cover material Polycarbonate, Housing Color White, Mounting device Surface & Suspended, Material Steel Color Temperature: 4000K, Lumens: 120 lm/W Wattage: 16 watts; Operating Voltage: 220-240 volts ,Line Frequency 50 Hz, Power Factor (Fraction)0.9 Low energy consumption and non-dimmable Lifetime of 15,000 hours. The rate should include installing the fixture at 3m height from FFL.	each	30.00	4084.00	1,22,520.00
55	Supply installation testing and commissioning of LED2 surface/ suspended mounted IP20 LED integrated batten with 40-watt input wattage. The luminaire's housing material should be Extruded Aluminium with white powder coating. It should have an in-built surge of 4KV, THD<10 and PF >0.95. The system efficacy should be greater than or equal to 105 lumens per watt. The luminaire length should not be greater than 1207 mm with minimum width of 43mm. The rate should include installing the fixture at 3m height from FFL.	each	144.00	1923.00	2,76,912.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
56	Supply installation testing and commissioning of f 1X18 W LED3 circular surface mounted for toilets, Luminous Flux 2,000 lm, Correlated Color Temperature (Nom),6500 K, Luminous Efficacy (rated) (Nom),110 lm/W Color rendering index (CRI),>80,Beam angle of light source,- degree(s) Light source color,865 cool daylight, Optic type, Optical cover type, Opal diffuser in polycarbonate cover, input Voltage220 to 240 V,Line Frequency 50 Hz, Power Factor (Fraction)0.9. The rate should include installing the fixture at 3m height from FFL.	each	170.00	1982.00	3,36,940.00
57	Supply installation of 1X10W LED4 wall mounted bulkhead, input Voltage220 to 240 V,Line Frequency 50 Hz Power Factor (Fraction) 0.95 ,Luminous Flux 700 lm, Correlated Color Temperature (Nom)6500 K,Luminous Efficacy (rated) (Nom)107 lm/W,Color rendering index (CRI) >80,Beam angle of light source 120 degree(s),Light source color 865 cool daylight Optic type Beam angle 120° Optical cover type Polycarbonate,Luminaire light beam spread 120°,Housing Material Aluminum die cast Optic material Polycarbonate Optical cover material Polycarbonate Housing Color Gray Mounting device Wall-mounting bracket Material Aluminum. The rate should include installing the fixture at 3m height from FFL.	each	40.00	1515.00	60,600.00
58	Supply installation of 1X17 W 1feet LED5 for toilets wall mounted, Color Silver, Material Aluminium, Lifetime up to25,000 hour(s) Total lumen output fixture 370,Light color 2700-6500K ,Mains power 220-240 V, Line Frequency 50 Hz, Power Factor (Fraction) 0.9. The rate should include installing the fixture at 3m height from FFL.	each	54.00	2034.00	1,09,836.00
59	Supply installation testing and commissioning of LED6 Surface mounted 20 watt trunk single wall light with E27 lamp LED luminaire for Bedroom, The light construction should be by CRCA with glass shade having IP rating of IP20 .The rate should include installing the fixture at 3m height from FFL.	each	84.00	2888.00	2,42,592.00
60	Supply installation testing and commissioning of LED7 Surface mounted 9 watt wall light with B22 lamp LED luminaire for Living, Dinning, The light construction should be by CRCA with glass shade having IP rating of IP20 .The rate should include installing the fixture at 3m height from FFL.	each	80.00	1600.00	1,28,000.00
61	Supply installation testing and commissioning of 1X8 W LED8 circular surface mounted for toilet, Luminous Flux 2,000 lm, Correlated Color Temperature (Nom),6500 K, Luminous Efficacy (rated) (Nom),110 lm/W Color rendering index (CRI),>80,Beam angle of light source,- degree(s) Light source color,865 cool daylight, Optic type, Optical cover type, Opal diffuser in polycarbonate cover, input Voltage220 to 240 V, Line Frequency 50 Hz, Power Factor (Fraction) 0.9. The rate should include installing the fixture at 3m height from FFL.	each	53.00	1343.00	71,179.00
62	Supply installation testing and commissioning of white color 6x8 inches 1x6 W LED9 surface mounted for door entry. The rate should include installing the fixture at 3m height from FFL.	each	16.00	1111.00	17,776.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
63	Supply installation testing and commissioning of LED11 70W Street light housing made from high pressure die cast aluminium, Integrated lens cover with IP-66 degree of protection. System efficacy of >110 Lumen/Watt CRI ≥70 and co-related color temperature (CCT) of 5700K (ANSI). The luminaire should have internal 4KV surge protection integrated with driver & 10kv external Surge protection, PF≥0.95, and total harmonic distortion of THD≤10%, operating voltage range of 120V-270V should be provided. The Driver used must be a constant current potted driver with efficiency of ≥85% & electrical Class 1. Brand Embossing for Traceability Till Life. LM79 report from NABL approved Lab only. LM80 From the Source Manufacturer for > =9000 Hrs, Luminaire like at 50K Burning Hours. The rate should include installing the fixture at 6 m height for pole.	each	36.00	3659.00	1,31,724.00
64	Supply installation testing and commissioning of LED12 29W Street light housing made from high pressure die cast aluminium, Integrated lens cover with IP-66 degree of protection. System efficacy of >110 Lumen/Watt CRI ≥70 and co-related color temperature (CCT) of 5700K (ANSI). The luminaire should have internal 4KV surge protection integrated with driver & 10kv external Surge protection, PF≥0.95, and total harmonic distortion of THD≤10%, operating voltage range of 120V-270V should be provided. The Driver used must be a constant current potted driver with efficiency of ≥85% & electrical Class 1. Brand Embossing for Traceability Till Life. LM79 report from NABL approved Lab only. LM80 From the Source Manufacturer for > =9000 Hrs, Luminaire like at 50K Burning Hours. The rate should include installing the fixture at 4 m height for pole.	each	22.00	20794.00	4,57,468.00
65	Supply installation testing and commissioning of LED13 5W 2-way decorative Wall Light for Outdoors. The rate should include installing the fixture at 3 m height.	each	13.00	1389.00	18,057.00
66	Supply installation testing and commissioning of LED14 wall light 23W for Outdoor. The rate should include installing the fixture at 3 m height.	each	6.00	2330.00	13,980.00
67	LT KIOSK				
	EB Incomer				
	1No 800A, TPN, 35KA, Thermal magnetic Based MCCB with O/L, S/C E/F Releases 1No Rotary Handle 1No Shunt Trip Coil 1No Auxiliary Contact 1No Led Type ON / OFF / Trip Indicating Lamp 1No Led Type R/Y/B Indicating Lamp				
	Meterings				
	1set Led Type R, Y, B Phase Indicating Lamp 1set Led Type ON / OFF / Trip Indicating Lamp 3Nos of 10A, SP, 10KA, 'C' Curve MCB 1No of VAF Meter 1No of (1-8A) ELR with CBCT 3Nos of 630/5, CL-1, 5VA, CT's 3Nos of 250/5, CL-1, 5VA, CT's Accessories Like Truff, Din, Lugs etc., 2Nos of KWH meter				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Outgoings				
	All outgoing to be mounted over panel using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic release and earth fault as per IS -13947 (Icu=Ics)				
	1Nos of 630A TPN MCCB 35KA Thermal magnetic based with O/L,S/C, release with rotary handle with 1set Led Type ON / OFF / Trip Indicating Lamp				
	1Nos of 630A TPN MCCB accessories with Spreader & Aux. & Trip Contacts				
	1Nos of 250A TPN MCCB 25KA Thermal magnetic based with O/L,S/C, release with rotary handle with 1set Led Type ON / OFF / Trip Indicating Lamp				
	1Nos of 250A TPN MCCB accessories with Spreader & Aux. & Trip Contacts				
	Fabrication				
	Fabricating supplying and mounting CRCA box (outdoor mounting IP54) made out 14SWG suitable for floor mounting with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with cable incoming/ outgoing on top with gland and box should be finished with 7stage process in factory and finally finished with approved colour etc., complete. The box should be mounted by suitable size anchor fasteners on floor. The incomer breaker should be on right side while viewing the panel front side. The Contractor has to take the approval of GA drawings from Engineer-in-charge before fabrication.				
	800A Rating TPN+E, Aluminium Busbar with Heat Shinkable Colour Coded PVC Sleeves				
	Cable Accessories				
	Other Accessories				
	Supply, Installation, testing & commissioning of LT KIOSK	each	1.00	282123.00	2,82,123.00
68	MAIN PANEL				
	Incomer1 for EB Supply				
	1No of 630A 4P Change over switch 1No 630A, TPN, 35KA, Thermal magnetic Based MCCB with O/L, S/C E/F Releases 1No Rotary Handle 1No Shunt Trip Coil 1No Auxillary Contact				
	Meterings				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	1set Led Type R, Y, B Phase Indicating Lamp 1set Led Type ON / OFF / Trip Indicating Lamp 3Nos of 10A, SP, 10KA, 'C' Curve MCB 1No Multi Data Meter 1No VAF Meter 1No (1-8A) ELR with CBCT 1No Line Voltage Monitor (LVM) Auxillary Contactor 2Nos Type - 2, SPD 1No 100A, Fuse 6Nos 630/5, CL-1, 5VA, CT's 3phase ETV master meter with fuse in lockable compartment 1No of SPD Accessories Like Truff, Din, Lugs etc.,				
	Outgoings				
	All outgoing to be mouted over panel using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic release and earth fault as per IS -13947 (Icu=Ics)				
	1Nos of 63A TPN MCCB 25KA Thermal magnetic based with O/L,S/C, release with rotary handle along with 1No 3phase, CT Operated Electronic trivector Meter with fuse in lockable compartment Necessary Hylam Sheet as per the statutory standard 1Nos of 63A TPN MCCB accessories with Spreader, Aux & trip contacts.				
	1No of 125A TPN MCCB 25KA Thermal magnetic based with O/L,S/C, release with rotary handle along with 1No 3phase, CT Operated Electronic trivector Meter with fuse in lockable compartment Necessary Hylam Sheet as per the statutory standard 1Nos of 125A TPN MCCB accessories with Spreader, Aux & trip contacts				
	1Nos of 100A TPN MCCB 25KA Thermal magnetic based with O/L,S/C, release with rotary handle 1Nos of 100A TPN MCCB accessories with Spreader & Aux. & Trip Contacts				
	1Nos of 63A FP MCB 10KA				
	18Nos of 40A FP MCB 10KA with 16Nos 3phase, trivector Meter with fuse in lockable compartment Necessary Hylam Sheet as per the statutory standard				
	Fabrication				
	Fabricating supplying and mounting CRCA box (indoor mounting IP43) made out 14SWG suitable for floor mounting with provision for better heat dissipation, provided with hinged front cover,equipped with tamper proof locking arrangements, with suitable size clamps with cable incoming/outgoing on top with gland and box should be finished with 7stage process in factory and finally finished with approved colour etc., complete. The box should be mounted by suitable size anchor fasteners on floor. The incomer breaker should be on right side while viewing the panel front side. The Contractor has to take the approval of GA drawings from Engineer-in-charge before fabrication.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	630A Rating TPN+E, Aluminium Busbar with Heat Shrinkable Colour Coded PVC Sleeves				
	Cable Accessories				
	Other Accessories				
	Supply, Installation, testing & commissioning of Main Panel	each	1.00	522602.00	5,22,602.00
69	UTILITY PANEL				
	Incomer				
	1No 100A, TPN, 25KA, Thermal magnetic Based MCCB with O/L, S/C E/F Releases 1No Rotary Handle 1No Shunt Trip Coil 1No Auxillary Contact				
	Meterings				
	1set Led Type R, Y, B Phase Indicating Lamp 1set Led Type ON / OFF / Trip Indicating Lamp 3Nos of 10A, SP, 10KA, 'C' Curve MCB 1No Multi Data Meter 1No VAF Meter 1No (1-8A) ELR with CBCT Auxiliary Contactor 3Nos 100/5, CL-1, 5VA, CT's Accessories Like Truff, Din, Lugs etc.,				
	Outgoings				
	All outgoing to be mounted over panel using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic release and earth fault as per IS -13947 (Icu=Ics)				
	9Nos of 40A FP MCB 10KA				
	4Nos of 63A FP MCB 10KA				
	Supply and fixing DIN rail mounted 3phase digital energy meter for sub-metering purpose Parameters: 1 Phase -Voltage, Current, kW, kWh, 3 Phase-Voltage, Current, kW, kWh + PF, kVA, kVar, MD				
	4Nos of 3Phase digital energy meter (10-60A) 240v class2 Accuracy 50Hz				
	Provisions to be mount digital KWH meter in all outgoing				
	Fabrication				
	Fabricating supplying and mounting CRCA box (indoor mounting IP43) made out 14SWG suitable for floor mounting with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with cable incoming/ outgoing on top with gland and box should be finished with 7stage process in factory and finally finished with approved colour etc., complete. The box should be mounted by suitable size anchor fasteners on floor. The incomer breaker should be on right side while viewing the panel front side. The Contractor has to take the approval of GA drawings from Engineer-in-charge before fabrication.				
	100A Rating TPN+E, Aluminium Busbar with Heat Shrinkable Colour Coded PVC Sleeves				
	Cable Accessories				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	Other Accessories				
	Supply, Installation, testing & commissioning of Utility Panel	each	1.00	153566.00	1,53,566.00
70	DGM FEEDER PANEL				
	Incomer1				
	1No 63A, TPN, 10KA, Thermal magnetic Based MCCB with O/L, S/C E/F Releases 1No Rotary Handle 1No Shunt Trip Coil 1No Auxiliary Contact 1No 63A Auto transfer switch				
	Incomer 1 Meterings				
	1set Led Type R, Y, B Phase Indicating Lamp 1set Led Type ON / OFF / Trip Indicating Lamp 3Nos of 10A, SP, 10KA, 'C' Curve MCB 1No Multi Data Meter 1No VAF Meter 1No (1-8A) ELR with CBCT Auxiliary Contactor 3Nos 63/5, CL-1, 5VA, CT's Accessories Like Truff, Din, Lugs etc.,				
	Outgoings				
	All outgoing to be mounted over panel using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic release and earth fault as per IS -13947 (Icu=Ics)				
	9Nos of 40A FP MCB 10KA				
	Fabrication				
	Fabricating supplying and mounting CRCA box (outdoor mounting IP65) made out 14SWG suitable for floor mounting with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with cable incoming/outgoing on top with gland and box should be finished with 7stage process in factory and finally finished with approved colour etc., complete. The box should be mounted by suitable size anchor fasteners on floor. The incomer breaker should be on right side while viewing the panel front side. The Contractor has to take the approval of GA drawings from Engineer-in-charge before fabrication.				
	100A Rating TPN+E, Aluminium Busbar with Heat Shrinkable Colour Coded PVC Sleeves				
	Cable Accessories				
	Other Accessories				
	Supply, Installation, testing & commissioning of Feeder Panel	each	1.00	248224.00	2,48,224.00
71	DG OUTPUT Panel				
	Incomer1				
	1No 125A, TPN, 25KA, Thermal magnetic Based MCCB with O/L, S/C E/F Releases 1No Rotary Handle 1No Shunt Trip Coil 1No Auxillary Contact				
	Incomer 1 Meterings				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	1set Led Type R, Y, B Phase Indicating Lamp 1set Led Type ON / OFF / Trip Indicating Lamp 3Nos of 10A, SP, 10KA, 'C' Curve MCB 1No KWH for metering the total consumption of power 1No VAF Meter 1No (1-8A) ELR with CBCT Auxiliary Contactor 3Nos 125/5, CL-1, 5VA, CT's Accessories Like Truff, Din, Lugs etc.,				
	Outgoings				
	All outgoing to be mounted over panel using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic release and earth fault as per IS -13947 (Icu=Ics)				
	1Nos of 63A TPN MCCB 25KA Thermal magnetic based with O/L,S/C, release with rotary handle				
	Fabrication				
	Fabricating supplying and mounting CRCA box (indoor mounting IP43) made out 14SWG suitable for floor mounting with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with cable incoming/outgoing on top with gland and box should be finished with 7stage process in factory and finally finished with approved colour etc., complete. The box should be mounted by suitable size anchor fasteners on floor. The incomer breaker should be on right side while viewing the panel front side. The Contractor has to take the approval of GA drawings from Engineer-in-charge before fabrication.				
	125A, Rating TPN+E, Aluminium Busbar with FRP Supports, FRP Sheet Covering etc.,				
	Cable Accessories				
	Other Accessories				
	Supply, Installation, testing & commissioning of DG output Panel	each	1.00	137987.00	1,37,987.00
72	CAPACITOR PANEL				
	Incomer				
	1No 200A ,TPN, 25KA, TM Based MCCB with O/L, S/C Releases				
	1No Extended Spreaders				
	1No Rotary Handle				
	2Nos Auxillary Contact				
	Incomer Meterings				
	1No Led Type R, Y, B Phase Indicating Lamp				
	1No Led Type ON / OFF / Trip Indicating Lamp				
	1No 6A, TP, 10KA, 'C' Curve MCB				
	1No VAF Meter				
	1No 14Stage APFCR				
	8NO Auxiliary Contactor				
	8NO Add on Block				
	1No Auto / Manual Selector Switch				
	1No 200/5, CL-1, 5VA, CT's For APFCR				
	Accessories like, Truff, wire, lugs etc.,				
	Outgoings				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	All outgoing to be mounted over panel using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic release and earth fault as per IS -13947 (Icu=Ics)				
	2Nos of 63A FP MCB 10KA with O/L,S/C, release				
	Fabrication				
	2Nos 63A, TP, 10KA, 'C' Curve MCB				
	2Nos 15Kvar Capacitor Standard Duty				
	2Nos 40A, TP, 10KA, 'C' Curve MCB				
	2Nos 10Kvar Capacitor Standard Duty				
	2Nos 25A, TP, 10KA, 'C' Curve MCB				
	2Nos 5Kvar Capacitor Standard Duty				
	8Nos Led Type ON / OFF Indicating Lamp with Push Buttons				
	Fabrication				
	Fabricating supplying and mounting CRCA box (indoor mounting IP43) made out 14SWG suitable for floor mounting with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with cable incoming/outgoing on top with gland and box should be finished with 7stage process in factory and finally finished with approved colour etc., complete. The box should be mounted by suitable size anchor fasteners on floor. The incomer breaker should be on right side while viewing the panel front side. The Contractor has to take the approval of GA drawings from Engineer-in-charge before fabrication.				
	200A Rating TPN+E, copper tinned Busbar with Heat Shrinkable Colour Coded PVC Sleeves				
	Cable Accessories				
	Other Accessories				
	Supply, Installation, testing & commissioning of Capacitor Panel	each	1.00	254238.00	2,54,238.00
73	HT Load Break Switch Panel				
	Supply and installation of 630 Amps load break switch HT panel 11 KV HT LOAD BREAK SWITCH PANEL (OUT DOOR TYPE)The load break switches should be made in CRCA sheet steel enclosure which provides a simple & solid construction including epoxy insulators, lagging pin, double switch blades, forged contacts with loop less current path & arc quenching chamber. The insulation of this switch will make it lightweight including high mechanical strength & greater electrical safety. The panel of this switch is available in different configurations like standing Outdoor type. The working principle of the load break switch is to switch the current by moving their contacts mechanically with a suitable speed to make or break the current supply. These switches are exposed to different stresses like thermal, dielectric, and mechanical throughout the switching operation. These switches give protection to the transformer LBS should be light & compact design, High current-limiting power fuses. Fuse replacement can be done safely, shunt trip mechanism, Indicator of a blown fuse.				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	The LBS should have SF6 gas insulated load break switch mainly includes two circuits like main circuit & the earthing circuit which are enclosed in a dielectric casing based on epoxy resin. The chamber of this dielectric is filled with SF6 gas with 0.4bar relative force. The lower insulating cover wall is nearly thinner as a measure taken to avoid explosion. In case of an accident, the over-pressured gas can break with the explosion-proof channel and connect directly to the back of the cabinet, discharge the pressure & ensure personal security. The design of the SF6 load switch can be done by using different parts. So the parts of the LBS include the closing position, isolated position, earthing position, upper insulating cover, upper stationary contact, spindle, M ring, lower insulating cover, sensor, lower stationary contact, air chute, movable contact, ground coupler, and ground contact.	each	1.00	57408.00	57,408.00
74	500KVA DISTRIBUTION TRANSFORMER				
	Supply, Installation, testing and commissioning of BIS approved, IS 1180(P1) -2024; IS:2026-2011 250KVA 11000/433V Copper Wound distribution transformer. 1) OIL : IS:335:1993 2) Rating HV :250 KVA (EEL-2) LV :250 KVA (EEL-2) 3) HV: 3Phase LV: 3Phase 4) Winding material: Copper 5) Frequency : 50Hz 6) No load voltage (HV line to line voltage 11KV) (LV line to line volatage 0.433KV) 7) Connection (HV: Delta LV: Star) 8) Vector Group: DYN11 9) Insulation level (HV: 75/28 KV/KVP) (LV: 3/.... KV/KVP) 10) Off load switch: 5 position 11) Tapping : HV side, Range: +5% to -5% in steps of 2.5% 12) Rate line current (As per IS 1180) 13) Temperature rise (Top oil: 40DegC, Winding 45DegC) 14) Ambient Temperature 50Deg C 15) Type of Cooling: ONAN 16) Losses (As per IS 1180) 17) Impedance (As per IS 1180) 18) No load current (Less than 2% of rated current)				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	19) Efficiency @ 75 deg C (100% Full load: 99.05% , 75% Full load: 99.17%, 50% Full load: 99.25%) 20) IS 2026 Tolerance (Outdoor with suitable cable box) 21) Atmospheric condition: Normal 22) Dimension of Transformer(Approximate) length 1200mm, Breadth 1200mm, Height 1500mm 23) Flux density at principle voltage and normal frequency 1.6Tesla 24) Current density (HV 1.8.0 to 2.2max, LV 1.8 to 2.2max) 25) Bushing (HV: 3 LV:4) 26) Surface preparation: By grid plasting 27) Finish: PU DA grey shade No 632-IS:5 28) Routine test: Ratio, Polarity, IR Values, Winding resistance, Open circuit test, Short circuit & impedance test, Separate source voltage test, Induced over voltage test, Magnetic balance test, Vector group test 29) Rating & terminal marking plate 30) Earthing terminals	each	1.00	1495000.00	14,95,000.00
75	Supply of 11kv 3cx95Sqmm Aluminium Circular conductor XLPE HT Cable with round armoured cable	meter	65.00	1793.00	1,16,545.00
76	Supply and Installation of Spun pole 11 Meter (1No) with below items a) Concreting Materials for 11meter Spun pole(1No) i) Base Concreting 1:4:8, 1000(L)x1000(w) x150mm (h). ii) Pole Concreting 1:2:4, 1000(L)x1000(w)x2000mm (h) iii) Coping As per Actual. b) Special 2 pin HT for Spun Pole with Clamps bolt nut with Brace. c) 11KV PIN Insulators (6Nos) d) 45KN Disc Insulators (6Nos) e) HG Fuse, 11KV Solid Core Type (3 Nos of Set) f) Spun Pole Structure Kit (1No) g) 200A GOS double Break set and H Frame for Mounting GOS Suitable for 200A	each	1.00	127766.00	1,27,766.00
77	Supply and Laying of Rabbit ACSR Conductor With all required accessories to complete installation.	meter	30.00	493.00	14,790.00
78	Supply and laying of GI Pipe 150mm dia vertical pipe along on the spun pole for Cable Rising.	meter	10.00	935.00	9,350.00
79	Supply & Installation of fencing for Substation using materials listed under, the rates quoted shall include necessary excavation, PCC for ISMB supports, coping etc. MS Tube - 75mm(L) x 75mm(W)X6mm thick . The height of the MS tube should be 2.5m above formation level and 0.6m below existing ground level. Frame size - 2.5M (H) x 2M(W). The frame should be fabricated with 50mm(L)x50mm(W)x6mm thick and this frame should be fixed to MS tubes. A supporting frame should be put in the centre of frame size for support horizontally and vertically. Chain Link - 8SWG GI Paint - 2 coats of Red oxide & 2coats of enamel paint.	sqm	57.50	3052.00	1,75,490.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
80	Supply and laying of 40mm stones inside the HT switch yard. The 40mm should be spread all over the HT switch yard. 40mm stone should be spread for a height of 200mm all over the HT switch yard.	cum	1.31	1674.00	2,197.13
81	Processing of form on behalf of client for power sanction of following MS box, feasibility report, spot inspection etc. Rate shall be excluding of all official charges (security deposit, development charges supervision charges) against receipts and other payments to complete the work. Work includes the following services a) Obtaining Power Sanction for all flats, lifts, transformer and meters required from statutory authority. b) Approval of Line work estimates. c) Approval of execution of Line work estimates. d) Approval of necessary Electrical Drawings from Chief Electrical inspectorate of Government / deputy. e) Approval of HT and LT installation works from the Electrical Inspectorate. f) Approval for road cutting / footpath cutting, excavation, refilling to ground level and removal of surplus earth. g) Supply and Approval for three phase CT operated trivector meter and CT's from metering division. h) Energising the service/ safety certificate for approval and installation of 500KVA transformer and MV panels.	lump sum	1.00	296611.00	2,96,611.00
82	Supply and installation of 3mm thick 6meter height hot dip Galvanized octagonal pole having bottom 130mm dia, top 70mm dia .The pole should be provided with inbuilt junction box consisting of connectors, 1no. of 6 amps SP MCB and terminals etc, complete. The pole should be provided with 220x220x12mm thick base plate with 4Nos of slots 28x42 for j bolts from the concrete. The rate should be inclusive of 4Nos of J bolts of size M20X600LG and to be embedded in the concrete pedestal. The rate should be including 220x220x12mm thick base plate during the concrete. The rate should include excavation of (1000x1000x1200mm) concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation including excavation and refilling and secured with huge holding clamps, bolts, nuts etc. as required.	each	24.00	26901.00	6,45,624.00
83	Supply and installation of 3mm thick 4meter height hot dip Galvanized octagonal pole having bottom 130mm dia, top 70mm dia . The pole should be provided with inbuilt junction box consisting of connectors, 1no. of 6 amps SP MCB and terminals etc, complete. The pole should be provided with 200x200x12mm thick base plate with 4Nos of slots 24x40 for j bolts from the concrete. The rate should be inclusive of 4Nos of J bolts of size M16X450LG and to be embedded in the concrete pedestal. The rate should be including 200x200x12mm thick base plate during the concrete. The rate should include excavation of (1000x1000x1200mm) concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation including excavation and refilling and secured with huge holding clamps, bolts, nuts etc. as required.	each	22.00	23376.00	5,14,272.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
84	Supply and installation of 4 meter single arm mild steel pole of 3mm thick having pure polyester powder coating. The pole should have minimum 145x82mm at bottom and 75x25mm at top with 3mm thickness. The pole should be supported by 250x250x10mm foundation plate with inbuilt MCB junction. The pole should comprise of LED light with driver of 30W 6000k 140 Lm/w. The pole should be provided with inbuilt junction box consisting of connectors, 1no. of 6 amps SP MCB and terminals etc, complete. The pole should be provided with 200x200x12mm thick base plate with 4Nos of slots 24x40 for j bolts from the concrete. The rate should be inclusive of 4Nos of J bolts of size M16X450LG and to be embedded in the concrete pedestal. The rate should be including 200x200x12mm thick base plate during the concrete. The rate should include excavation of (1000x1000x1200mm) concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation including excavation and refilling and secured with huge holding clamps, bolts, nuts etc. as required.	each	10.00	34578.00	3,45,780.00
85	Supply installation of double arm bracket with 1m length 50mm dia with suitable pole top, the pole top should be fixed by M10 nuts.	each	12.00	5390.00	64,680.00
86	Supply installation of single arm bracket with 1m length 50mm dia with suitable pole top, the pole top should be fixed by M10 nuts.	each	12.00	3365.00	40,380.00
87	Supply & Installation of MS Flat supports/ L angels/ for LED lights and other electrical stuffs fixed on wall/ roof . The MS flat supports should be provided with 2 coats of red oxide primer and 2 coats of paint of approved colour and with all necessary accessories as per site. The MS flat supports should be fixed to wall by 10mm anchor fasteners.	Kgs	330.00	88.00	29,040.00
88	Supplying PVC flexible conduit pipe 25mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an intervals of 300mm using NF screws and on either end of the pipe terminated completely.	meter	320.00	23.00	7,360.00
89	Supplying and laying synthetic Rubber insulated mats 6 mm thick for voltage upto 3.3 kv for electrical purpose as per IS 15652-2006, (superseding IS 5424) suitable for electrical shock safety of sizes 2m x 1m.	each	6.00	3485.00	20,910.00
90	Supply and Installation of Shock treatment chart with teak wood frame and glass covered as approved by Electrical Inspectorate and suitable for wall mounting.	each	3.00	1395.00	4,185.00
91	Supply and fixing of First Aid Box	each	2.00	1743.00	3,486.00
Sub-Total Part 'III' - Electrical Works (Excluding GST)					2,00,59,474.43
Part 'IV' - CCTV Works					

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
1	Supply, Installation, Testing and Commissioning of 32 Channel Core+ AI 32-Channel NVR with Embedded PoE having minimum 4Nos SATA supporting 10TB. The video output should be HDMIx1, VGAx1 and display resolution to be 3840x2160, 1920x1080, 1280x720. The NVR should be able to take upon PTZ, Fish eye, Bullet and Dome cameras and NVR should support MJPEG, H.264, H.265 video format include HDD slots. NVR should have hot swap technology, should support 32TB HDDs and should have multiple no. of USB2.0 & USB3.0 ports. The NVR should have Motion Detection, Smart VCA Event, Cyber Attack, PIR Detection, Tampering Detection, Camera DI/DO, Camera Disconnected, Disk Failure, Disk Full, NVR DI/DO, PoE error, Video loss Rate quoted should be inclusive of all accessories for installation and commissioning and should be complete. The cost shall include VSS tool installation, configuration and license required should be considered.	each	2.00	134900.00	2,69,800.00
2	Supply, Installation, Testing and commissioning of 5mp 30fps, Smart Stream III , SNV, WDR Pro, Smart IR II , Smart VCA, IP9181-H fixed network camera, Remote Focus bullet Camera. The camera should have features given below a) 30 fps @ 2560x1920, 60 fps @ 1920x1080 b) H.265 Compression Technology c) Smart Stream III to Optimize Bandwidth Efficiency d) SNV (Supreme Night Visibility) for Low Light Conditions e) W DR Pro to Provide Extreme Visibility in Extremely Bright or Dark Environments f) Weather-proof IP66, IP67 and Vandal-proof IK10-rated Housing. The cameras should be provided with weather proofIP68 rated vandal proof IK10 standards, the camera enclosures are constructed from cast aluminium. The camera enclosure should be provided with built in IR LED's, window demister heater and fan. The enclosure to be powered by 24AC/24VDC	each	34.00	15900.00	5,40,600.00
3	Supply, Installation, testing & commissioning of 42" 4k TFT LED Color, SMART Monitor with wall bracket for mounting all other accessories. The monitor should have 2HDMI ports, 2USB ports and should be Wi-Fi enabled. Rate quoted should inclusive of all accessories for installation and wall bracket.	each	2.00	40590.00	81,180.00
4	Supply, Installation, Testing and Commissioning of Surveillance Grade 10TB HDD inclusive of all accessories for installtion and commissioning and should be complete.	each	8.00	17900.00	1,43,200.00
5	Supply, Installation, Testing and Commissioning of 1Ethernet Routing Stackable Switch 24 100/1000 BaseT ports Managed Layer Switch with all accessories. Rate quoted should inclusive of all accessories for installation configuration and maintenance for 1year and should be complete.	each	3.00	66900.00	2,00,700.00
6	Supply, Installation, Testing and Commissioning of 24 Port Jack Panel including termination of OFC with all accessories. Rate quoted should inclusive of all accessories for installation and commissioning all complete.	each	3.00	17900.00	53,700.00

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
7	Supply, Installation, Testing and Commissioning of Minimum 9U Switch rack for each L2 Switch with wall mounts, fans, power cords Connectors accessories, for installation and should be complete closing glass panel.	each	3.00	8200.00	24,600.00
8	Supply, Installation, Testing and Commissioning of 1.5 meter Cat6 patch cord.	each	100.00	196.00	19,600.00
Sub-Total Part 'IV' - CCTV Works (Excluding GST)					13,33,380.00
Part 'V' - Fire Fighting Works					
FIRE HYDRANT WORKS					
1	(A) Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump) 15HP (B) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520. (C) Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (D) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required. (E) Suitable cement concrete foundation duly plastered and with anti vibration pads.				
1.1	900lpm at 35 m Head	each	1.0	91716.27	91,716.27
2	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe confirming to IS 3589/IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required:				
2.1	25 mm dia	meter	150.0	669.92	1,00,488.00
2.2	32 mm dia	meter	25.0	766.27	19,156.75
2.3	40 mm dia	meter	25.0	931.04	23,276.00
2.4	50 mm dia	meter	50.0	1153.45	57,672.50
2.5	65 mm dia	meter	10.0	1453.29	14,532.90
2.6	80 mm dia	meter	15.0	1697.30	25,459.50
2.7	100 mm dia	meter	95.0	2300.59	2,18,556.05
3	Supplying, laying, testing & commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets confirming to IS 10395 of following sizes as required:				
3.1	100 mm dia	set	3.0	6003.13	18,009.39
4	Providing, installation, testing & commissioning of non-return valve of following sizes confirming to IS 5312 complete with rubber gasket, GI bolts, nuts, washers ets. as required:				
4.1	100 mm dia	set	2.0	9949.69	19,899.38

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
5	Providing, installation, testing & commissioning of Stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3mm dia holes with stainless steel flange.				
5.1	100 mm dia	set	1.0	6000.43	6,000.43
6	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as required for suitable dia MS pipe connection conforming to IS 904 as required:				
6.1	2 way-100 mm dia M.S. Pipe	set	1.0	6070.66	6,070.66
7	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :				
7.1	Pendent Sprinkler	each	55.0	470.03	25,851.65
8	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	each	1.0	1392.06	1,392.06
9	Providing & fixing flow switch in following sizes M.S. pipe line including connection etc. as required.				
	100mm dia	each	1.0	6765.79	6,765.79
10	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
10.1	300 mm dia. R.C.C. pipe	meter	20.0	895.30	17,906.00
11	Supply, erection, testing and commissioning of 'FIRE HOSE CABINET' (FHC) OF SIZE (approx) 2' 6" x 2' x 10" with hinged door shutter and frame and fabricated out of 14 SWG sheet steel, fitted with 4mm thick toughened glass in the front including finishing with powder coat painting complete. The rate shall be inclusive of all loose items / accessories as mentioned below which needs to be fitted inside the cabinet are as follows: to accommodate two hose pipes & Nozzels	each	6.0	10977.07	65,862.42
11.1	63mm dia instantaneous pattern oblique single headed hydrant valve.	each	6.0	10399.90	62,399.40
11.2	Supplying and fixing 63 mm dia, 15m long RRL hose pipe with 63mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type B) as required:	set	6.0	17320.56	1,03,923.36
11.3	One set of branch pipe and nozzle with valve.	each	6.0	9650.75	57,904.50
11.4	Supplying and fixing fire-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type-2 as per IS: 12585. 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25mm dia stop gun metal valve & M.S. Pipe and socket	each	6.0	8612.56	51,675.36
11.5	One no 25mm dia ball valve (valtec make)	each	6.0	4633.59	27,801.54

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
12	Supplying Installing, testing and commissioning of Gun metal AIR RELEASE VALVE SIZE OF 25mm dia including cost of materials, labour, usage charges of machinery complete as per specifications. Complete.	each			
12.1	25mm dia ball valve	each	1.0	1749.53	1,749.53
12.2	Air release valve	each	1.0	3529.67	3,529.67
13	Earthwork excavation in all types of soils for laying MS pipes for hydrant to required depth. The rate shall include back filling and consolidating etc., complete.	cum	50.0	318.75	15,937.50
14	Providing and fixing 600mm long puddle flange consisting of 6mm thick welded GI / MS plate, flanges of suitable size hot dip galvanised to 100 micron properly fixed in walls of water tanks as per specifications and approved drawings and shall be of following diameters.				
14.1	32 mm dia	each	1.0	1540.63	1,540.63
14.2	50 mm dia	each	1.0	2070.98	2,070.98
14.3	100 mm dia	each	1.0	3187.50	3,187.50
15	Supply and installation of Pressure gauges of suitable range (0-16 bar), 100 mm diameter dial for pumpsets completes with necessary Ball valves, siphon, Fittings like unions / reducers etc.	each	1.0	2709.38	2,709.38
16	Supplying Installing testing and commission of Electrical Booster pump Control panel for fire fighting system consisting of Feeder For 1 No. of Booster pumps :-1 no of 32 A TPN MCCB (50 KA with 12.5 HP DOL starter with over load relay, single phase preventer ON / OFF push buttons. 1 No. Auto manual selector switch. 1 set of RYB indicating lamps with individual HRC Control Fuses 1 set of RYB indicating lamps with individual HRC Control Fuses 1 no 16 sq.mm 0-800Amps. Ammeter with selector switch and Suitable rated current transformers 1 No.0-800 96 sq. mm Voltmeter and selector Switch.	each	1.0	26562.50	26,562.50
EXTINGUISHER & SIGNAGES WORKS					
1	Supply and installation of 2kg Fire Extinguisher Mono Ammonium Phosphate Powder 50, Stored Pressure Type, Pressure Gauge, Gross Weight 3.6 Kg, empty weight 1.6 Kg, Can Height 344MM, Diameter 108MM, Discharge Time less than 8 Sees, Controllable discharge mechanism (Squeeze grip with easy snap safety seal), Range minimum 2 meters, applicable on Class A,8, C and electrically started Fire, A Rating 1A, 8 Rating 88, Can construction : Deep drawn & Co. , Mig welded, valve Construcion: Forging and Mechining, Internal Coating of Can: Epoxy powder coating, External Coating of Can: Epoxy Polyester power coating, Sheet metal thickness: 1.60MM, 5 years Warranty with instalert system with Superior quality EPDM Rubber Hosepipe etc., including cost cost of supporting materials like MS stand & accessories if it is fixing n floor / MS brackets & accessories if it is fixing on wall,, labour, usage charges of machinery complete as per specifications. complete. IS 15683, CE A 5				
1.1	Providing ABC Powder based MAP 50, 2Kg	each	2.0	2069.18	4,138.36

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
2	Supply and installation in position, testing and commissioning 6kg Fire Extinguisher Mono Ammonium Phosphate Powder 50, Stored Pressure Type, Pressure Gauge, Gross Weight 9.5 Kg, empty weight 3.5 Kg, Can Height 435MM, Diameter 160MM, Discharge Time less than 9 Secs, Controllable discharge mechanism (Squeeze grip with easy snap safety seal), Range minimum 4 meters, applicable on Class A,8,C and electrically started Fire, A Rating 3A, 8 Rating 218, Can construction : Deep drawn & Co., Mig welded, valve Construction : Forging and Machining, Internal Coating of Can: Epoxy powder coating, External Coating of Can: Epoxy Polyester powder coating, Sheet metal thickness: 1.60MM, 5 years Warranty with instalment system with Superior quality EPDM Rubber Hosepipe etc., including cost of supporting materials like MS stand & accessories if it is fixing on floor / MS brackets & accessories if it is fixing on wall, labour, usage charges of machinery complete as per specified with regards to general guidelines of fire safety.				
2.1	Providing ABC Powder based MAP 50, 4Kg	each	4.0	3542.27	14,169.08
2.2	Providing ABC Powder based MAP 50, 6Kg	each	16.0	4375.16	70,002.56
3	Supply and installation of 5Kg Stored Pressure Type, Pressure Gauge, Gross Weight 7.7kg. empty weight 2.7 kg Can Height 267MM, Diameter 230 MM, Discharge Time less than 8Secs, Auto discharge mechanism, on temperature rise, applicable on Class A, 8,C and electrically started Fire, Can Construction; Deep drawn & CO, Mig welded, Valve Construction: Forging & Machining, Internal Coating of Can : Epoxy Powder coating, External Coating of Can : Epoxy Polyester Powder coating, Sheet metal thickness: 1.60MM, 5 Years Warranty. including cost of materials, labour, usage charges of machinery complete as per specifications. IS 15683 and CE Approved. (For Electrical Room)				
3.1	Providing installing and fixing 5Kg ABC Ceiling Mounted Fire Extinguisher ABC Powder type as mentioned below with necessary drills, screws etc., complete.	each	1.0	21796.56	21,796.56
4	Providing installing and fixing in position the signages as mentioned below with necessary drills, screws etc., complete.				
	Sign" IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE.				
	Lettering height 1.25cm block letter in red atleast 25 x 30 to be located directly above a call button and squarely attached to wall or partition.				
	The top of sign shall not be above 2M from the floor level.				
	At each stair enclosure on every floor, in accordance that the numerals shall be bold type and at least 7.5cm high. The numerals and back ground shall be in contrasting colours.				
	STILT TO THIRD FLOOR				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
	stair and elevator identification sign shall be posted from, maintained at each landing and on the side of stair way door from which access is to be made. The lettering on sign shall be at least 7.5 cm high, of bold type and contrasting colour from background.				
	Providing, installing and fixing in position the signages as mentioned below with necessary drills screws etc., complete sign " FIRE ORDER IN CASE OF FIRE OF SIZE 2" x 4" & LETTERING HEIGHT SHALL BE ATLEAST 1 1/2" HIGH OF BOLD TYPE & CONTRASTING FROM BACKGROUND.				
	ALERT THE SECURITY AT SECURITY FROM BY ACTUATING MANUAL CALL POINT LOCATED AT STRATEGIC LOCATIONS.				
	EVACUATE THE OCCUPANTS BY USING FIRE EXITS ONLY AND ASSEMBLE AT VARIOUS ASSEMBLY.				
	IF POSSIBLE TRY TO EXTINGUISH THE FIRE BY USING NEAREST / SUTIBLE PORTABLE EXTINGUISHER OR WATER FROM NEAREST WETRISER.				
	BE CALM AND DO NOT GIVE ANY ROOM FROM PANIC, WALK, DO NOT RUN.				
	IF YOU ENCOUNTER SERIOUS DIFFICULTY IN EVACUATION, FLAT AND TRY TO ATTRACT ATTENTION OF RESCUE TEAM.				
	ACTION BY SECURITY / RECEPTION UPON RECEIPT OF INFORMATION THROUGH FIRE ALARM OR FIRE DETECTORS OR BY USING PUBLIC ADDRESS SYSTEM.				
	ALERT THE OCCUPANTS BY USING ADDRESSABLE SYSTEM.				
	INFORMATION FIRE CONTROL THROUGH ANY ONE OF THE FOLLOWING PHONE NUMBERS:				
	REFER EVACUATION PLAN FROM EVACUATING STANDARD PEOPLE.				
	GUIDE THE FIRE FORCE, ON THEIR ARRIVAL TO THE PLACE OF FIRE.				
	IN CASE OF THE CASUALTIES, ON THEIR ARRIVAL TO THE PLACE OF FIRE.				
	FIRE FIGHTING AGENCY.....				
	PHONE.....				
	FIRE PROTECTION ENGINEERS FAX.....	each	5.0	3151.49	15,757.45
5	Supply & Installation of Photoluminescent Auto Glow Signage (Man, Door with Arrow Dual Side 6" X 12") with necessary drills, screws etc., complete.	each	5.0	855.41	4,277.05

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount
a	b	c	d	e	f
6	Supply & Installation of Photoluminescent Auto Glow Signage (Man, Door with Arrow Single Side 6" X 12") with necessary drills, screws etc., complete.	each	5.0	585.28	2,926.40
7	Supply & Installation of Photoluminescent Auto Glow Signage (Fire Exit Single Side 6" X 12") with necessary drills, screws etc., complete.	each	5.0	585.28	2,926.40
8	Supply & Installation of Photoluminescent Auto Glow Signage (Safe Assembly Point 18" X 18") with necessary drills, screws etc., complete.	each	1.0	2025.96	2,025.96
9	Supply & Installation of Emergency Escape Route Plan of Size A2 with the location of Emergency Exits, Fire Extinguishers, Manual Call point, First Aid box, Safe Assembly Point, Colour Printout on Photoluminescent Auto Glow Sheet with Acrylic & SS studs with necessary drills, screws etc., complete.	each	5.0	4952.34	24,761.70
FIRE ALARM AND PUBLIC ADDRESS SYSTEM WORKS					
1	Supplying, installation, testing & commissioning of main control and indicating panel made out of 16 SWG MS sheet to accommodate the following items duly powder coated in approved colour with louvers for ventilation, locking arrangement, audio and visual indication for fire alarm and public address system, monitoring system including connections, interconnections etc complete as required. (Conventional)				
	6zone panel for fire alarm system				
	100 watt amplifier racks suitable for operation on 230V AC/24V DC supply conforming to IEC-268-3 complete with all accessories as required -2 nos. (one to act as standby)				
	Talk back master station with LED PTT (press to talk) push button for operation on 230V AC/24 V DC supply conforming to IEC-268 for simplex mode of operation/communication suitable for 20 Nos. talk back unit-1 set.				
	Announcement control desk suitable for selection of different zones selectively and ON ALL CALL switch with visual indication etc.				
	complete as required - 1set				
	Amplifier change over switch for inter changing amplifier-1no. Monitor panel for loudspeaker complete with output selector ON/OFF switch, fuse, visual indications etc. complete as required -1No. Gooseneck microphone with stand and ON/OFF switch -1No.				
	Mains ON/OFF switch, fuse indication lamps, DC and AC voltmeters & ammeters terminal blocks etc. complete as required -1set.				
1.1	Battery charger trickle cum boost to take complete load of fire alarm & PA system complete with all accessories including providing & fixing of 2 nos. 12 volt, 30 AH each sealed maintenance free batteries-1set.	each	2.0	48,718.00	97,436.00
	CONDUIT & WIRING				

S.No.	Description	Unit	Qty	Rate [Excl.GST]	Amount	
a	b	c	d	e	f	
2	Supplying & fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
	25 mm	meter	300.0	130.57	39,171.00	
3	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable 600/1000V rated with annealed copper conductor having XLPE insulation, steel with armouring & FRLS outer sheath complete as required.	meter	300.0	155.78	46,734.00	
4	Supply, installation, testing and commissioning of Hooter, MCP & P.A Speaker).					
4.1	Hooter.	each	10.0	1,026.49	10,264.90	
4.2	MCP.	each	10.0	3,478.34	34,783.40	
4.3	P.A Speaker.	each	10.0	1,748.63	17,486.30	
Sub-Total Part 'V' - Fire Fighting Works (Excluding GST)					14,88,264.72	
Total of Part 'I' + 'II' + 'III' + 'IV' + 'V' (Excluding GST)					22,98,24,759.59	
	The tenderer has to quote percentage Above / Below as specified and percentage shall be quoted in Figures	Approximate Amount Put to Tender		State Above or Below	Percentage in Figures (excluding GST)	
	Tenderer's Quote (Excluding GST)	22,98,24,759.59		ABOVE	0.00	%
	Add 18% GST					4,13,68,456.73
	Grand Total (Including GST)					27,11,93,216.31
	Note: The tenderer has to quote percentage above / below against the total amount considering the specified standard rates. If the contractor does not quote any percentage above / below on the total amount, ther tender shall be treated invalid and will not be considered.					
	WARNING: PLEASE ENTER PERCENTAGE QUOTE					