



**Indian Bank,
Corporate office,
Premises, Estate & Expenditure Dept**

Tender No. IB/MYL/CONTR/001/2023-24

PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING (STILT + 5 FLOORS) @ NO. 2, RAMACHANDRA ROAD, LUZ AVENUE, MYLAPORE, CHENNAI – 600 004.

PART – 2
PRICE BID

Name of the Vendor/Company

SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words
I		CIVIL WORKS					
1.0		PRELIMINARY WORKS					
	2.33	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.					
1.1	2.33.1	Beyond 30 cm girth upto and including 60 cm girth		11.00	Each		
1.2	2.33.2	Beyond 60 cm girth upto and including 120 cm girth		61.00	Each		
1.3	2.33.3	Beyond 120 cm girth upto and including 240 cm girth		2.00	Each		
1.4	2.33.4	Above 240 cm girth		1.00	Each		
1.5	NDSR	Providing and erecting high temporary barricading at site as per drawing/ direction of Engineer-in-Charge 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, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.					
		(Note :- 70% 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).					
a		up to 3.00 mtr ht		138.60	METER		
b		up to 6.00 mtr ht		209.00	METER		
1.6	12.1	Transplantation of trees with in a distance of 3km including excavation around existing tree, pruning of branches, lifting, loading and transportation of existing tree, digging pits for placing tree at new place, adding manure, sand, fertilizer, hormones and bio fertilizer to it. Levelled and neatly dressed and disposal of surplus materials from old existing and new sites to designated place. Each tree should be firmly secured to the stake so as to prevent excessive movement, flooding with water, treatment of roots, rope and gunny bags as per direction of the officer incharge. T&P and all required materials shall be arranged by the contractor and nothing extra shall be paid on this account. (a) Girth of tree shall be measured at a height of 1m above ground level					

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SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
a	12.1.1	Girth of trees upto 50cm	8.00	Nos				
b	12.1.2	Girth of trees beyond 50cm and upto 90cm	6.00	Nos				
c	12.1.4	Girth of trees beyond 90cm and upto 150cm.	8.00	Nos				
2.0		DEMOLITION WORKS						
2.1	NDSR	Demolition and removal of all existing buildings of G+2 structure including foundation (inclusive of all necessary mechineries , tools ,tackels with proper barication and protections -(Demolishing - brick work -(Main walls , Partition walls), RCC works , Doors and windows , Staircase Room - Jaali Motor room , Sump , Carparking ,Gym room , well , store room ,Elevated water tank structure , Bike parking , Light roof with MS Structure ,Removal of Existing Compound wall on all sides , Gate , Existing plumbing and electrical lines , sewer line ,chamber and drainage lines, etc) , removal of debris, carting away and disposal of debris as per local body norms all inclusive . Payment at 80% for all the building structures demolition and 20% for the demolition of compound wall	1.00	LS				
2.2	NDSR	Demolition and removal of all existing UG Sump and Well inclusive of back filling and consolidation work as per CPWD standard and all necessary mechineries , tools ,tackels with proper barication and protections removal of debris, carting away and disposal of debris as per local body norms all inclusive .	1.00	LS				
3.0		PILE FOUNDATION						
		PILE DRIVING						
3.1	NDSR	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-30 @ 400kg /cum of specified diameter and length below the pile cap, to carry a safe working load not less than specified,excluding the cost of steel reinforcement but including the cost ofboring with bentonite solution and temporary casing of appropriatlength for setting out and removal of same and the length of the pileto be embedded in the pile cap etc. by percussion drilling usingDirect mud circulation (DMC) or Bailer and chisel technique by tripodand mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap).						
a	NDSR	400 mm dia piles	3236.75	RMT				
b	NDSR	500 mm dia piles	6201.25	RMT				

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SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
3.2	NDSR	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-30 @ 400kg /cum of specified diameter and length below the pile cap, to carry a safe working load not less than specified,excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap) - (Piles at Grey water treatment Plant area & wherever required, Concrete to be terminated at 5 m to 6 m below the ground level)						
	NDSR	400 mm dia piles			453.75	RMT		
	NDSR	500 mm dia piles			514.25	RMT		
3.3	20.3	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) : up to 6.00 mtr depth						
	20.3.1	300 mm dia piles			774.40	RMT		
3.4	20.6	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by kentledge/Anchor pile method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer-in-charge.						
		Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing. Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge.						
a	20.6.2	Single pile above 50 tonne and upto 100 tonne Safe capacity						
	20.6.2.1	Initial test (Test Load 2.5 times the Safe capacity)			2.00	PER TEST		
b	20.6.2.2	Routine test (Test Load 1.5 times the Safe capacity) - 400 mm dia piles			3.00	PER TEST		
c	20.6.2.2	Routine test (Test Load 1.5 times the Safe capacity) - 500 mm dia piles			1.00	PER TEST		
4.0		EARTH WORK EXCAVATION						
4.1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, including dewatering work as directed by Engineer-in-charge.						
	2.6.1	All kinds of soil			5388.41	CUM		
4.2	2.26	Extra for every additional lift of 1.5 m to 3.00m						
	2.26.1	All kinds of soil			440.00	CUM		
4.3	2.26	Extra for every additional lift 3.00 m to 4.50 m						
	2.26.1	All kinds of soil			330.00	CUM		
4.4	2.26	Extra for every additional lift 4.5 m to 6 m						
	2.26.1	All kinds of soil			330.00	CUM		
5.0		SHORING						
	2.21	Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered):						

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	2.21.2	Depth exceeding 1.5 m but not exceeding 3 m and above, wherever required as instructed by EIC						
			577.50	SQM				
6.0		CARRIAGE OF MATERIALS						
	NDSR	Carriage of excavated earth , By Mechanical means including loading,unloading and stacking removal of excavated earth, carting away and disposal as per local body norms ,all inclusive. (Rate includes identification of disposal yard and necessary permissions for dispersing the debris, if any, all complete)						
			6488.41	CUM				
7.0		ANTI TERMITE TREATMENT						
	2.34	Supplying chemical emulsion in sealed containers including delivery as specified.						
7.1	2.34.1	Chlorpyriphos emulsifiable concentrate of 20%						
			2406.25	LITRE				
7.2	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :						
	2.35.3	Treatment of soil under existing floors using chemical emul sion @ one litre per hole, 300 mm apart including drilling12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:						
	2.35.3.1	With Chlorpyriphos E.C. 20% with 1% concentration						
			3850.00	SQM				
8.0		FILLING						
8.1	NDSR	Supplying and filling quarry dust as directed, of approved quality as directed, of approved quality, foundation bottom level , to be filled layer by layer of thickness 100mm, to be well compacted etc. including cost of Quarry dust, transportation, all leads, loading, unloading, spreading in layers watering, ramming with power rammers and compacting as directed						
			187.23	CUM				
8.2	NDSR	Supplying and filling of good earth murrum soil in trenches, plinth,sides of foundation as directed, of approved quality as directed , including cost of transportation, all leads, loading, unloading, spreading in layers watering, ramming with power rammers and compacting as directed ,consolidating Eachdeposited layer by ramming and watering, inclusive of all lifts and leads etc complete						
			6488.64	CUM				
8.3	9.53	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).						
			2080.00	Nos				
9.0		PLAIN CEMENT CONCRETE						
		Note : OPC with Fly ash content above 30%						
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)						
			197.41	CUM				
10.0		REINFORCED CEMENT CONCRETE :						
10.1	5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work , using fly ash and cement content as per approved design mix, and manufactured in fully automatic batchingplant and transported to site of work in transit mixer for all leads, havingcontinuous agitated mixer, manufactured as per mix design of specifiedgrade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering,shuttering, finishing and reinforcement, including cost of admixtures inrecommended proportions as per IS : 9103 to accelerate / retard settingof concrete, improve workability without impairing strength and durabilityas per direction of the Engineer - in - charge						
		NOTE- (1) Cement content considered in this item is @ 330 kg/cum.Excess/ less cement used as per design mix is payable/ recoverable separately." (2) Fly ash conforming to grade I of IS 3812 (Part-1) only beused as part replacement of OPC as per IS : 456. Uniform blending withcement to be ensured in accordance with clauses 5.2 and 5.2.1 ofIS:456 -2000 in the items of BMC and RMC						
		Note : OPC with Fly ash content above 30%						
	5.40.1	All works upto plinth level						
			1065.85	CUM				

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SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
10.2	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work ; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.						
	5.33.1	All works upto plinth level						
	5.33.1.3	Concrete of M35 grade with minimum cement content of 370 kg / cum	497.67	CUM				
10.3	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work ; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.						
	5.33.2	All works above plinth level upto floor all floor level						
a	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg / cum	275.00	CUM				
b	5.33.2.3	Concrete of M35 grade with minimum cement content of 370 kg / cum	4726.42	CUM				
d	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	850.00	Quintal				
10.4	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and 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).	13.41	CUM				
10.5	NDSR	Providing, and fixing of R.C.C Precast cover slab of 125mm thick (approx.) , for Shaft area using M25 concrete including reinforcement Fe500 Grade, OPC 53 Grade Cement. The surface finish shall be smooth finish, at appropriate location as specified in drawing for fixing, lifting including mechanical means, loading, transportation at site including all leads, lift at levels	107.25	SQM				
11.0		FORM WORKS						
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for						
11.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	2736.06	SQM				
11.2	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	3157.18	SQM				
11.3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	16770.89	SQM				
11.4	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	16172.79	SQM				
11.5	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	8879.39	SQM				
11.6	5.9.7	Stairs, (excluding landings) except spiral-staircases	770.14	SQM				
12.0		STEEL REINFORCEMENT						

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SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
12.1	5.22	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level.						
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.						
			411193.42	KG				
12.2	5.22 A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level						
	5.22 A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more						
			601778.55	KG				
13.0		MASONRY						
		Note : Minimum 40% fly ash content in the entire masonry work (Internal & External)						
13.1	NDSR	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonrywith 150mm/230mm/200/225 mm thick (As per manufacturer standard) with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structureabove plinth level up to all floor levels with RCC band at sill level and lintellelevel with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. The Rate includes RCC band and reinforcement.						
			4543.25	CUM				
13.2	6.38	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry100 mm/ 125 mm thick (As per manufacturer standard) with Grade-I AAC blocks of density 551 to 650kg/ cum conforming to IS: 2185 (Part 3) in super structure aboveplinth level up to all levels in cement mortar 1:4 (1 cement : 4 coarsesand). The rate includes providing and placing in position 2 Nos 6 mmdia M.S. bars at every third course of masonry work.						
			905.73	CUM				
13.3	6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure aboveplinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :						
	6.3.2	With Modular bricks						
			113.85	CUM				
13.4	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all floor level.						
	6.13.1	Cement mortar 1:3 (1 cement :3 coarse sand)						
			422.40	SQM				
13.5	6.2	Chamber brick work : Brick work with common burnt clay modular bricks of class designation 7.5 in foundation, plinth and at all levels in						
	6.2.1	Cement Mortar 1:4 (1 cement : 4 coarse sand)						
			232.58	CUM				
14.0		PLASTERING - CEMENT PLASTER						
		Minimum 30% Fly ash content in OPC / PPC used for plastering						
14.1	13.4	12 mm cement plaster of mix :						
	13.4.1	1:4 (1 cement: 4 coarse sand)						
			16388.66	SQM				
14.2	13.5	15 mm cement plaster :						
	13.5.1	1:4 (1 cement: 4 coarse sand)						
			40958.36	SQM				
14.3	13.6	20 mm cement plaster of mix						
	13.6.2	1:6 (1 cement: 6 coarse sand)						
			22762.32	SQM				
14.4	13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of. 10 m to 13 m						
			6994.24	SQM				
a		Extra for plastering exterior walls of height more than 13 m to 16 m						
			6994.24	SQM				
b		Extra for plastering exterior walls of height more than 16 m to 19 m						
			9060.04	SQM				
14.5	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.						
			6837.60	per bag of 50kg cement used in the mix				
15.0		SCREED CONCRETE :						
	4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.						

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	4.4.1	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	96.49	CUM				
16.0		WATER PROOFING						
16.1	22.24	Providing and applying integral crystalline dry shake of hydrophilic in nature for waterproofing treatment to the RCC structures like basement raft, foundation slab, sewage & watertreatment plant slab, warehouses floor, parking structures andwater tank base slab etc. sprinkled @ 0.60kg per sqm or higheras recommended by the manufacturer's specification over the lean concrete of above cited structures. The material shallmeet the requirements as specified in ACI-212-3R-2010 i.e. byreducing permeability of concrete by more than 85%,compared control concrete as per DIN 1048 and resistant to16 bar hydrostatic pressure on negative side. The crystallinedry-shake shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all completeas per specification and the direction of the engineer-in charge. The product performance shall carry guarantee for 10 years against any leakage	2404.38	SQM				
16.2	22.7	Providing and laying integral cement based water proofing treatmentincluding preparation of surface as required for treatment of roofs, balconies, toilet etc consisting of following operations:						
		(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.						
		(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1cement : 5 coarse sand) admixed with water proofingcompound conforming to IS : 2645 and approved by Engineer in-charge over 20 mm thick layer of cement mortar of mix 1:5(1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions ofwalls and slabs						
		(c) After two days of proper curing applying a second coat ofcement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 andapproved by Engineer-in-charge						
		(d) Finishing the surface with 20 mm thick jointless cement mortarof mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved byEngineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishingthe surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.	3392.86	SQM				
16.3	NDSR	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting						
		Applying a Slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.						
		Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge and 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 Engineerin-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						
		After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.						
		For the purpose of measurement the entire treated surface will be measured.	3217.50	SQM				
16.3a	NDSR	Supply and laying of 16mm thick extruded terracotta keral tiles of grey colour of size 300 x 300mm in C:M 1:4 and slope etc. complete as directed by EIC.	3217.50	SQM				

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16.4	14.90	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, blackfinished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :						
	14.90.1	3 mm thick			1124.20			
16.5	22.4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete						
	22.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)			572.00			
17.0	NDSR	Cutting holes in R.C.C beams / slabs with core cutter machine for thickness of slab upto 150 mm.						
		100 to 150 mm Dia			275.00			
18.0	NDSR	Rebar grouting work using HILTI FE 500 V 4 Chemical with service charges						
a)	a)	Providing 20 mm dia hole for 16 mm dia rod - re bar grouting			71.50			
b)	b)	Providing 16 mm dia hole for 12 mm dia rod - re bar grouting			82.50			
c)	c)	Providing 12 mm dia hole for 10 mm dia rod - re bar grouting			93.50			
d)	d)	Providing 10mm dia hole for 8 mm dia rod - re bar grouting			82.50			
e)	e)	Providing 25 mm dia hole for 20 mm dia rod - re bar grouting			27.50			
19.0	5.28	Providing and fixing in position 12mm thick bitumen impregnated per cm 567.25 fiber board conforming to IS: 1838, including cost of primer, sealing depth per compound Grade-A in expansion joints			660.00			
20.0	NDSR	Providing and fixing SS chicken mesh as per specification in the required width , steel nails on vertical and horizontal surface near R.C.C. and Brick wall AAC Block work junctions including scaffolding and all lead and lifts etc. complete			5722.20			
21.0	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).			25.30			

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SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
22.0	NDSR	Supply and installation of Fire stop mortar system with minimum 2 hours fire rating when tested in accordance with UL 1479 standards for opening in floors or slabs after passing service lines like Metal Pipes . The mortar shall be a light weight cementitious product and shall carry test certified in accordance with IEC 60068-2-57:19999-11 (Environmental Testing) as per Part 2- 57: Test for Vibration - Time history method and VERTEQII for seismic zone 4 . The Product shall be tested as per Dafstb and DIBT standards , The Product shall carry test certificate for mold resistance rating of O as determined by ASTM G21- 96 , The product shall be UL listed & classified and shall bear the UL approval logo on the lacking , The installation shall be done by manufacture certified contractor accordance with the manufacture guidance , The contractor needs to provide complete installation report through Soft ware for inspection purpose , Vendor needs to provide Engineering Judgement (E J) based solution in accordance to international fire stop council (IFC) and through well qualified professionals	396.00	SQM				
23.0	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand (zone-III) derived from natural sources : 6 graded stoneaggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation,levelling & dressing & finishing the top smooth	418.00	SQM				
24.0	NDSR	Buy back of existing joineries, furniture fixtures any any scrap materials from the demolition of the existing building structures.	-1.00	LS				
25.0		FLOORING WORKS						
		Note : Post Industrial Recycle content : 5-15%						
25.1	NDSR	Providing and laying of vitriified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS: 15622, of approved make, in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (basic Price not less than Rs 570 / Sqm) in all area Skirting flush to the wall surface including of all necessary works and accessories complete at all levels etc						
	NDSR	Double charge vitrified tile polished finish of size Size of Tile 600 x 600 mm (± 5 mm) as per the approval of EIC	9350.00	SQM				
25.2	NDSR	Providing and laying of Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS: 15622, of approved make, in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (basic Price not less than Rs 550/ Sqm) in all area Skirting flush to the wall surface including of all necessary works and accessories complete at all levels etc						
	NDSR	Size of Tile 600 x 600 mm (± 5 mm) as per the approval of EIC	1430.00	SQM				
25.3	NDSR	Providing and laying of Exterior Grade Ceramic Anti Skid floor tiles of size 300x300mm (± 5 mm) as per the approval of EIC or more (thickness to be specified by the manufacturer), of 1stquality conforming to IS : 15622, of approved make, laid on 20 mm thick cement mortar 1:4(1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matchingpigments etc., complete. (basic Price not less than Rs 590 / Sqm) including of all necessary works and accessories complete at all levels etc	880.00	SQM				
25.4	NDSR	Providing and laying of Ceramic floor tiles of size 600 x600mm (± 5 mm) as per the approval of EIC or more (thickness to be specified by the manufacturer), of 1stquality conforming to IS : 15622, of approved make, laid on 20 mm thick cement mortar 1:4(1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matchingpigments etc., complete. (basic Price not less than Rs 613 / Sqm) including of all necessary works and accessories complete at all levels etc	990.00	SQM				
25.5	NDSR	Providing and laying 1st quality ceramic wall tiles of size 300x450mm (± 5 mm) as per the approval of EIC conforming toIS: 15622 (thickness to be specified by the manufacturer), of approvedmake, in all colours, shades as approved by Engineer-in-Charge, in skirting, risers of stepsand dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm,including pointing in white cement mixed with pigment of matching shade complete (basic Price not less than Rs 550/ Sqm) including of all necessary works and accessories complete at all levels etc	1100.00	SQM				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
25.6	NDSR	Providing and laying of 1st quality ceramic wall tiles of size 300x600mm (± 5 mm) as per the approval of EIC conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (basic Price not less than Rs 763 / Sqm) including of all necessary works and accessories complete at all levels etc	2750.00	SQM				
25.7	NDSR	Providing and laying of 1st quality ceramic highlighter wall tiles of size 300x600mm (± 5 mm) as per the approval of EIC conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (basic Price not less than Rs 763 / Sqm) including of all necessary works and accessories complete at all levels etc	1100.00	SQM				
25.8	NDSR	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) including rubbing, curing, and polishing etc of all necessary works and accessories complete at all levels etc as directed by engineer in charge (basic Price not less than Rs 560/ Sqm)	1100.00	SQM				
25.9	NDSR	Providing and laying Leather finish granite skirting laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. including rubbing, curing, moulding and polishing edges finish etc. complete at all levels as directed by engineer in charge Sadharli (basic Price not less than Rs 1000 / Sqm)	935.00	SQM				
25.10	NDSR	Providing and laying Leather finish granite Borders (150 mm width) 20 mm (average) thick base laid over and jointed with cement slurry mixed with pigment to match the shade of the slab, with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) including rubbing, curing, moulding and polishing etc complete at all levels						
		Sadharli (Basic Price not less than Rs. 1000 / Sqm)	528.00	SQM				
25.11	11.56	Providing and laying of Leather finish granite and skirting as per Architectural drawings in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. The cost shall be inclusive of cutting, moulding, transportation, edge polishing, etc. complete and also providing three parallel grooves in the stairs treads all complete as specified and as directed by the Engineer-in-Charge. including of all necessary works and accessories complete at all levels etc						
	11.56.1	Sadharli (Basic Price not less than Rs. 1000 / Sqm)	981.97	SQM				
25.12	NDSR	Providing and Laying of Leather finish (Dressed stone) Granite flooring as per Architectural drawings in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 30 mm thick over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. The cost shall be inclusive of cutting, moulding, transportation, edge polishing, etc. including of all necessary works and accessories complete at all levels etc						
		Sadharli (Basic Price not less than Rs 1300 / Sqm)	539.00	SQM				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
25.13	NDSR	Providing and Laying of Granite over Granite flooring as per Architectural design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.						
		Sadharli (Basic Price not less than Rs. 2500 / Sqm)	137.50	SQM				
25.14	NDSR	Providing and laying of Polished Steel Grey Granite stone flooring for Kitchen Counter, Dining wash counter top, as per Architectural drawings in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including holes, cutting for sink, Nosing, rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. including of all necessary works and accessories complete at all levels etc						
		Sadharli (Basic Price not less than Rs. 914 / Sqm)	552.64	SQM				
25.15	NDSR	Providing and Laying of Polished Steel Grey Granite - Lift wall cladding as per Architectural drawings in required design and patterns, 18mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including holes, cutting for sink, Nosing, rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. including of all necessary works and accessories complete at all levels etc						
		Sadharli (Basic Price not less than Rs. 914 / Sqm)	275.00	SQM				
25.16	NDSR	Providing and laying of Leather finish Granite stepping Stone flooring for Landscape area as per Architectural drawings in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including holes, cutting for sink, Nosing, rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. including of all necessary works and accessories complete at all levels etc						
		Sadharli (Basic Price not less than Rs. 1000 / Sqm)	82.50	SQM				
25.17	11.20	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)						
	11.20.3	Dark shade pigment using ordinary cement	2850.10	SQM				
25.18	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	10.99	SQM				
		JOINERIES WORKS						
25.19	9.20	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.						
	9.20.1	Main Door : 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	182.75	SQM				
25.20	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).						
	9.1.1	Second class teak wood	2.86	CUM				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
25.21	9.21	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on bothfaces of shutters:						
	9.21.2	30 mm thick including ISI marked Stainless Steel butt hingeswith necessary screws		560.91	SQM			
25.22	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/clerestory windows &desertory other Frames/Chowkhat comprising of virgin PVCpolymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheatusk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVCsolvent cement and screwed with full body threaded starheaded SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N(Edge), minimum compressive strength of 58 N/mm2, modulusof elasticity 900 N/mm2 and resistance to spread of flame ofClass A category with property of being termite/borer proof,water/moisture proof and fire retardant and fixed in positionwith M.S hold fast/lugs/SS dash fasteners of required dia andlength complete as per direction of Engineer-In-Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately).						
		Note: For WPC solid door/window frames, minus 5mmtolerance in dimensions i.e depth and width of profile shallbe acceptable. Variation in profile dimensions on plus sideshall be acceptable but no extra payment on this account shall be made.						
	26.86.2	Frame size 45 x 85 mm		1094.45	METER			
25.23	26.87	Providing and fixing factory made single extruded WPC (WoodPolymer Composite) solid plain flush door shutter of requiredsize comprising of virgin polymer of K value 58-60 (SuspensionGrade), calcium carbonate and natural fibers (wood powder/rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of650 kg/cum and screw withdrawal strength of 1800 N (Face) &900 N (Edge), minimum compressive strength 50 N/mm2,modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borerproof, water/moisture proof and fire retardant and fixing withstainless steel butt hinges of required size with necessary fullbody threaded star headed counter sunk S.S screws, all asper direction of Engineer-In- Charge. (Note: stainless steel butthings and necessary S.S screws shall be paid separately)						
	26.87.1	30 mm thick - Toilet doors		348.23	SQM			
25.24	NDSR	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and makingnecessary holes etc. for fixing required door fittings, all completeas per direction of Engineer-in-charge (Rate includes Door H handle, lock, Floor spring (Dorma/ Ozone/ Godrej) and stopperetc). Door opening of : 1.50 X 2.10 M		8.00	SQM			
25.25	NDSR	Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track andsash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length(shape & size according to uPVC profile), appropriate dimension uPVCextruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy(white powder coated) handle with key on one side of extreme panelsalong with zinc plated mild steel multi point locking having transmissiongear withkeeps, zinc alloy (white powder coated) crescent lock (ifrequired), stainless steel (SS 304 grade) body with adjustable doublenylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x8 mm size for fixing frame to finished wall and necessary stainlesssteel screws etc. Profile of frame & sash shall be mitred cut and fusionwelded at all corners, including drilling of holes for fixing hardware's andndrainage of water etc. After fixing frame the gap between frame andadjacent finished wall shall be filled with weather proof silicon sealentover backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Rate includes Single / double glass panes, wire mesh and silicon sealent).Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.						
		Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.						
	NDSR	Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thicknessof 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension.		585.59	SQM			

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
25.26	NDSR	Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion(where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicone sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Rate includes double glass (Glass - SKN 176 DG 6-12-6) panes and silicon sealant). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.						
		Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.						
	NDSR	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.) with mosquito mesh as per design	121.00	SQM				
25.27	NDSR	Supply and installation of 12 mm thick laminated clear glass with Glass wedge system for the fixed glasses with necessary sealants etc., all complete. The shop drawing to be got approved from the EIC before fabrication of the same.	42.00	SQM				
25.28	NDSR	Providing & fixing Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm) including mosquito net fixing , double glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :	990.00	SQM				
25.29	NDSR	Providing and Fixing 2 hrs. Metal Fire rated door Size 0.6 x 1.2 m Door Hardware of Ball Bearing hinges, lever handle with mortise lock set, exposed door closer.	18.00	Nos				
		Door / Window : Accessories						
25.30	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : at all complete in all floors (Basic price not less than Rs. 300/-)						
a	9.74.1	250x10 mm	72.00	EACH				
b		200x10 mm	72.00	EACH				
25.31	NDSR	Providing and fixing bright finished Stainless steel tower bolts (barrel type) with necessary screws etc. complete : Note : Sample Approved by EIC complete in all floors (Internal Doors) at all complete in all floors (Basic price not less than Rs. 200/-)						
a		250x10 mm	286.00	EACH				
b		200x10 mm	286.00	EACH				
c		150x8 mm	220.00	EACH				
25.32	NDSR	Providing and fixing bright finished brass handles with screws etc. complete in all floors (Basic price not less than Rs. 1000/-) at all complete in all floors						
		200 mm	72.00	EACH				
25.33	NDSR	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge. complete (Basic price not less than Rs. 500/-), at all complete in all floors						
		200 mm (for internal doors)	215.00	EACH				
25.34	NDSR	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge. complete (Basic price not less than Rs. 300/-), at all complete in all floors						
		100 mm (for toilet doors)	440.00	EACH				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
25.35	NDSR	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete as per samples approved by EIC complete in all floors (for Main Doors) (Basic price not less than Rs. 250/-) at all complete in all floors	72.00	EACH				
25.36	NDSR	Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete as per samples approved by EIC complete in all floors (for Internal Doors) (Basic price not less than Rs. 200/-) at all complete in all floors	297.00	EACH				
25.37	NDSR	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete in all floors (Main doors) (Basic price not less than Rs. 1500/-) at all complete in all floors	72.00	EACH				
25.38	NDSR	Providing and fixing in position stainless steel mortice baby latch with lever etc., complete in all floors (Internal doors) (Basic price not less than Rs. 1200/-) at all complete in all floors	215.00	EACH				
25.39	NDSR	Providing and Fixing of Door viewer glass Lens for Main Door , 180 Degree Brass Finish Door Eye Viewer at all complete in all floors (Basic price not less than Rs. 200/-) at all complete in all floors	72.00	EACH				
25.40	NDSR	Providing and Fixing of Brass Door Chain for Main door at all complete in all floors	72.00	EACH				
25.41	NDSR	Providing and Fixing of SS magnetic catch for all terrace doors at all complete in all floors	7.00	EACH				
25.42	NDSR	Providing and Fixing of SS AL-drop 300 mm long along with through nut & bolt fittings, etc. at all complete in all floors	215.00	EACH				
25.43	NDSR	Providing and fixing factory made uPVC white colour casement/ Casement cum fixed glazed door comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on Eachside of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weatherproof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Rate includes Single / double glass panes and silicon sealant).						
		Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.						
		Casement door with 3D hinges made of (big series) frame 67 x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension.	150.00	SQM				
26.0		HANDRAIL ARRANGEMENT						
26.1	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. , including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	3740.00	KG				
26.2	NDSR	Providing, fabricating and fixing of 6+6 toughened laminated toughened glass for (Balcony railing 1200 mm Height) fixing used for grout chemical . including of all necessary works and accessories complete at all levels etc as per Architectural drawing design - Annexure dwg No. AR-351-11A at all complete in all floors	644.00	SQM				
26.3	NDSR	Providing and fixing of Aluminium Handrail : Powder coated (minimum 50 microns) Aluminium Box section 50x 50 x 2 mm thick with aluminium panel 2 mm thick handrail height up to 1.20 m height inclusive of all necessary works and accessories etc as per Architectural drawing design - Annexure dwg no at all complete in all floors	1452.00	KG				
27.0		PAINTING WORKS						
27.1	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth at all complete in all floors	40958.36	SQM				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
27.2	NDSR	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture,Including priming coat applied wherever required to achieve even shade and colour. at all complete in all floors						
		Two or more coats		57347.02	SQM			
27.3	13.48A	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004,Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives. at all complete in all floors						
	13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.		22762.32	SQM			
27.4	13.85.	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.						
	13.85.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre		1430.00	SQM			
27.5	13.69	Polishing on wood work with ready mixed wax polish of approved brand and manufacture at all complete in all floors						
	13.69.1	New work		1430.00	SQM			
27.6	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : at all complete in all floors						
	13.61.1	Two or more coats on new work		495.00	SQM			
28.0		FAÇADE WORKS						
28.1	NDSR	Jaali Screen : Providing and fixing of Elevation Aluminium Jaali Screen - Powder coated (minimum 50 microns) 50x 50 x 2 mm thick Aluminium Box section with Powder coated aluminium panel screen of 2 mm thk. with CNC cut out and intermediate with 3 mm thick Aluminium flats, panel frames are fixing to walls/ beams/ slabs etc. as per the requirement, rate inclusive of all necessary arrangements, weldings and accessories, etc. all complete in all floors as per the Architectural design. - Annexure dwg No. AR-351-13		1925.00	KG			
28.2	NDSR	Providing and applying cement plaster for band projections . and smooth finished surface, in cement mortar 1:3 for masonry in Terrace floor Parapet level (50 mm thick) inclusive of all necessary works and accessories at all complete in all floors Architectural drawing design - Annexure dwg No. AR-351-13		682.00	RMT			
28.3	NDSR	Entry Pergola : Providing and fixing of Powder coated aluminium Box section (minimum 50 microns) 100 x 50 x1.5 mm Horizontal members support with (100 x 100 MS Columns) 100mm section visible in elevation with 300mm clear gap between the 2 horizontals with necessary hardwares etc. in approved colour as per architectural design all complete in all floors Architectural drawing design - Annexure dwg No. AR-351-11A		506.00	KG			
28.4	NDSR	Stilt walkway Pergola : Providing and fixing Powder coated 100 x 100 x3mm Aluminium Box section with (minimum 50 microns) box section for framework (100mm section visible in elevation with 150mm clear gap between the 2 horizontals) with necessary hardwares etc. complete in all floors as per Architectural drawing design - Annexure dwg No. AR-351-14		3520.00	KG			
28.5	NDSR	Providing and fixing Aluminium Faux Railing Powder coated (minimum 50 microns) 50 x 50 x 2 mm thick Aluminium Box section (minimum 50 microns) with 2 mm thick CNC Cut out Aluminium panel railing height up to 530 mm as per design inclusive of all necessary works and accessories at all complete in all floors as per Architectural drawing design - Annexure dwg No. AR-351-14		3520.00	KG			
28.6	10.16	Steel work in built up tubular round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.) inclusive of all necessary works and accessories at all complete in all floors Architectural drawing design - Annexure dwg No. AR-351-11A						
	10.16.1	Hot finished welded type tubes		12100.00	KG			

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
28.7	NDSR	Unit gate : Supply and Fixing Powder coated (minimum 50 microns) 50 x 50 x 2 mm thk Aluminium Box Section on outer frame fixed with 100x25x1.5mm thick box section with for horizontals with 1.2 m high necessary S.S 316 hinges, handles, tower bolt and other hardwares etc. Architectural drawing design - Annexure dwg No. AR-351-13	72.00	Nos				
28.8	NDSR	Kids Play area gate : Supply and Fixing Powder coated (minimum 50 microns) 50 x 50 x 2 mm thk Aluminium Box Section on outer frame fixed with 100x25x1.5mm thick box section with for horizontals with 1.2 m high necessary S.S 316 hinges, handles, tower bolt and other hardwares etc. Architectural drawing design - Annexure dwg No. AR-351-13	1.00	Nos				
28.9	NDSR	Providing and fixing : SS hooks for (Rain blinds purpose) at the interval of 4' C/C inclusive of all necessary works and accessories at all complete in all floors etc	457.00	Nos				
28.10	NDSR	Providing and fixing of rubber Column guard in stilt floor parking columns up (1200 mm height) inclusive of all necessary works and accessories at all complete in all floors	950.00	Nos				
28.11	NDSR	Providing and Fixing of Powdered coated Aluminium Box Section 100 x 100 mm concealed with 65 mm Dia PVC pipe for AC Outlet drain for windows inclusive of all necessary works and accessories at all complete in all floors etc as per Architectural drawing design - Annexure dwg No. AR-351-14	1650.00	KG				
28.12	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces),excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.						
	12.1.2	0.80 mm thick with zinc coating not less than 275 gm/m ²	19.80	SQM				
29.0		EXTERNAL INFRA WORKS						
29.1	NDSR	Supply and Fixing of Aluminium Gate Sliding and Openable gate : Outer frame : 50x 50 x2 mm Thick Box Powder coated (minimum 50 microns) Aluminium Box section, and intermediate supports with 38 x 38 x2 mm thick Box section and 2mm thick CNC CUT Aluminium panel, and Handles and tower bolts are inside in the door and all other necessary hinges , hardwares etc. inclusive of MS track rail at all complete inclusive of all necessary works and accessories complete at levels etc as per Architectural drawing design - Annexure dwg No. AR-351-33	682.00	KG				
29.2	NDSR	Supply and Fixing of Pedestrian Openable gate : Outer frame : 50x 50 x2 mm Thick Box Powder coated (minimum 50 microns) Aluminium Box section, and 2 mm thick CNC CUT Aluminium panel, and Handles and tower bolts are inside in the door and all other necessary hinges , hardwares etc. all complete inclusive of all accessories complete at levels etc as per Architectural drawing design - Annexure dwg No. AR-351-33	302.50	KG				
29.3	NDSR	Supply and Laying of Pebble stone of bearing sizes 25 mm to 75 mm to the required depth including cost of materials , transportation, all leads, loading, unloading, as directed	75.24	CUM				
29.4	19.70	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :						
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)						
	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	45.00	Nos				
29.5	19.80	Extra for depth for manholes :						
	19.8.1	Size 90x80 cm						
	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	90.00	METER				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
29.6	19.40	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:						
	19.4.3	180x150 mm size P type						
	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5						
			13.00	Nos				
30.0		- Blank -						
31.0		LANDSCAPING WORKS						
31.1	NDSR	Supplying and spreading of red earth in grass area inclusive of all works complete at all levels etc, inclusive of all necessary works and accessories complete at all levels etc						
			99.00	CUM				
31.2	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge inclusive of all necessary works and accessories complete at all levels etc						
			220.00	SQM				
31.3	2.27	Supply and laying of Sand bed in Still floor Kids Play area (including watering, and dressing complete.) inclusive of all works complete at all levels etc, inclusive of all necessary works and accessories complete at all levels etc						
			15.84	CUM				
31.4	NDSR	Providing and laying approved 30 mm insitu SBR rubberized flooring plus 6 mm EPDM flooring laid over concrete which can resist UV radiation and withstand severe weather conditions and approved colour complete for safety of kids in play areas. Including cost of PU Binder/Glue etc as required for the works. inclusive of all necessary works and accessories complete at all levels etc						
			55.00	SQM				
31.5	NDSR	Supply and laying of Sweet earth filling and consolidation in for plantation areas, shall be from an approved source and shall be mixed with natural or artificial manure, as directed by the EIC, inclusive of all necessary works and accessories complete at all levels etc						
			231.00	CUM				
31.6	NDSR	Edging with bricks laid dry length wise, including required excavation,refilling, consolidating with hand packing and spreading surplus earth neatly within a lead of 50 m :						
	NDSR	Common burnt clay F.P.S (non modular) bricks of Class designation 7.5 in CM 1:4						
			385.00	METER				
31.7	NDSR	Supply of Ground covers well developed, min. 0.15m high, in polybag of 5"x7" size, disease free. All groundcover species shall be evenly balanced to allow equal growth in all directions. Plants shall have fully developed roots and leaves. Rooted cuttings will not be accepted. All plants to be container grown. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC inclusive of all necessary works and accessories complete at all levels etc as per Architectural drawing design - Annexure dwg no LA - 351						
a		FITTONIA VERSCHAFFELTII -NERVE PLANT						
			51.15	SQM				
b		OPHIOPOGON VARIEGATED - VARIGATED LEAF MONDO GRASS						
			29.15	SQM				
c		STENOTAPHRUM SECUNDATUM - AUGUSTINE GRASS						
			37.40	SQM				
d		SETCREASEA PURPUREA - PURPLE HEART						
			66.00	SQM				
e		OPHIOPOGON JABURAN - OPHIOPOGON VARIEGATED						
			660.00	SQM				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
31.8	NDSR	Stilt Floor Shrubs : Supply of Shrubs - well developed, well branched - 3-4 branches Eachhaving 4-5 leaves, preferably in bloom, in polybag of 30x20cm size, disease free and development (height 0.75-0.9m) Shrubs are woody perennials of generally multi stemmed and bushy habit ranging from 3 - 4.5m down to 500mm height. Shrubs shall have no less than three main stems and shall be well balanced and bushy, with strongly developed fibrous root systems, and shall be pruned in advance as required to achieve the specified height tolerances. Branches shall break from the base of the plant just above the root collar, and shall be well furnished with leaves right down to ground level. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC inclusive of all works complete at all levels etc, as per Architectural drawing design inclusive of all necessary works and accessories complete at all levels etc as per Architectural drawing design - Annexure dwg no LA - 351						
a		ALPINIA ZERUMBET - SHELL GINGER			118.00	Nos		
b		RHAPIS EXCELSA LADY PALM			4.00	Nos		
c		MONSTERA DELICIOSA - SPLIT-LEAF PHILODENDRON			54.00	Nos		
d		ANTHURIUM ANDREANUM - TAIL FLOWER			263.00	Nos		
e		BAMBOO DWARF VARIGATED - BAMBOO VARIEGATED			50.00	Nos		
f		FICUS BENJAMINA - WEEPING FIG			3.00	Nos		
g		FICUS REGINOLD - WEEPING FIG			56.00	Nos		
h		DURANTA GOLDII - GOLDEN DURANTA			234.00	Nos		
i		BELOPRONE AMHERSTAE GUTTATA - SHRIMP PLANT			33.00	Nos		
j		BAMBUSA VENTRICOSA -BUDDHA BELLY BAMBOO			12.00	Nos		
31.9	NDSR	Trees Supply of Trees - well developed, well branched crown - 4-6 branches Eachhaving 4-5 leaves, well developed (Poly bag size - 30"x 30", min. stem diameter 50mm and height as specified) Trees shall be large size nursery grown trees pruned during growth to produce a tight well rounded head and a straight stem clear of leaves or twigs. Trees shall be at least two years old, as certified by the nursery. Trees shall be 70-100 mm circumference stem when measured 1.0m from ground level and shall have a clear straight stem of minimum 1.2m. The head shall be well balanced and rounded and contain at least four main branches with a well-developed secondary branch system and a defined central leader that has not been pruned, giving a minimum overall height of 1.5m at the time of planting. Rootball dimensions : diameter 750mm x 750mm deep minimum. Branching/leaf spread 1.5 - 1.8m diameter. Pruning at the time of removal from the nursery will not be permitted. In dry weather conditions, trees are to be sprayed with approved Anti-transpirant. Trees shall have a strong fibrous root system. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC inclusive of all necessary works and accessories complete at all levels etc as per Architectural drawing design - Annexure dwg no - LA - 351						
a		PLUMERIA HYBRID PINK - HYBRID PINK FLOWER			4.00	Nos		
b		LAGERSTROEMIA FLOS REGINAE - CRAPE MYRTLE TREE			30.00	Nos		
c		CASSIA FISTULA - GOLDEN SHOWER			13.00	Nos		
d		SARACA INDICA - ASHOKA TREE			14.00	Nos		
e		DILLENIA INDICA - ELEPHANT APPLE			2.00	Nos		
f		LANTANIA LONTARODES - RED PALM			3.00	Nos		

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
g		LAGERSTROEMIA FLOS REGINAE CRAPE MYRTLE TREE	30.00	Nos				
		TOTAL AMOUNT FOR CIVIL WORKS						
II		PLUMBING & SANITARY WORKS						
32.0		SANITARY FIXTURES						
	NDSR	Providing and fixing floor mounted, white vitreous china single piece water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with 3/6 LPF dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the S trap, complete in all respect as per directions of Engineer-in-Charge. Including white cement, solvent cement, wall flanges, teflon tape, wooden plugs, screws, bolts & nuts, clamps, HDPE pan connector, mounting brackets with matching bolts and nuts, nipple coupling, gaskets, etc	200	Nos				
		MAKE : Parryware						
		MODEL: Casa Floor Mounted Coupled Closet						
		CODE: C022X1C (Closet S Trap 110 mm)						
		CODE : C022Z1C (Dual Flush Tank)						
		MAKE : Hindware						
		MODEL: Two Piece closet Gracia						
		CODE: 92077-SW						
		CODE : 92128-SW (Cistern Gracia)						
33.0	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required. Material should be selected by engineer incharge.	6	Nos				
	17.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests						
		MAKE : Parryware						
		MODEL FOR IWC: Orissa Pan						
		CODE FOR IWC: C01171C						
		MODEL FOR CISTERN : Slimline Tank						
		MODEL FOR CISTERN : Sleek Essence Single flush						
		CODE FOR CISTERN : E80901C						
		CODE FOR CISTERN : 511209 - SW						
		MODEL FOR P TRAP : Small P Trap						
		MODEL FOR P TRAP : Small P Trap						
		CODE FOR P TRAP : C21041C						
		CODE FOR P TRAP : 24003 - SW						
34.0	17.16A	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.	206	Nos				
		(Health faucet - 3.8 LPM)						
		MAKE : Parryware						
		MODEL : Primo Health Faucet						
		MODEL : HF(ABS) WIT RCLING 1.25 M PVC H&ABS W.HK						
		CODE : E8383A1						
		CODE : F160027CP						
35.0	NDSR	Supply and Fixing of 15 mm CP 2way bib cock for Healthfaucet with necessary, CP wall flange & etc., Material should be selected by engineer incharge.	206	Nos				
		(15 mm CP 2way bib cock - 3.8 LPM)						
		MAKE : Parryware						
		MODEL : Agate Pro Two Way Bib Cock						
		MODEL : BIB COCK 2 IN 1 ADVANCE						
		CODE : G3334A1						
		CODE : F280054CP						
36.0	17.7A	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, 32 mm , SS waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:-Material should be selected by engineer incharge.	200	Nos				
		(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer						
		(15 mm dia CP Brass single hole basin mixer- 3.8 LPM)						
		MAKE : Parryware						
		MODEL FOR WASH BASIN : Casa						
		MODEL FOR WASH BASIN : PEDESTAL BASIN TANGO						
		Without PEDESTAL						
		CODE FOR WASH BASIN: C04041C						
		CODE FOR WASH BASIN: 10086-SW						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		MODEL FOR PILLAR COCK (COLD) : Agate Pro Single Lever Basin Mixer						
		MODEL FOR PILLAR COCK (COLD) : Single Lever Basin Mixer without popup waste - Star Rated						
		CODE FOR PILLAR COCK: G3314A1						
		CODE FOR PILLAR COCK: F280010SCP						
		MODEL : SS Waste Coupling						
		MODEL : Waste Coupling 32mm (Half Thread)						
		CODE : T9911A1						
		CODE : F850001CP						
		MODEL : Rag Bolt For Wash Basin						
		CODE : C808399						
37.0	NDSR	Supply , Fixing, testing and commissioning of WHITE coloured vitreous china table top Rectangle Shaped White Basin with , 15 mm C.P. brass pillar taps, 32 mm SS waste of standard pattern, including cutting and making good the walls wherever require.Material should be selected by engineer incharge.	67	Nos				
		Size : 550 x 375 x 120 mm (15 mm CP pillar tap - 3.8 LPM)						
		MAKE : Parryware						
		MAKE : Hindware						
		MODEL FOR WASH BASIN : Cascade Above Counter Basin						
		MODEL FOR WASH BASIN : WB COUNTER TOP VIENNE OVAL						
		CODE FOR WASH BASIN: C04311C						
		CODE FOR WASH BASIN: 10038-SW						
		MODEL FOR PILLAR COCK (COLD) : Agate Pro Pillar Cock						
		MODEL FOR PILLAR COCK (COLD) : PILLAR COCK-STAR RATED						
		CODE FOR PILLAR COCK: G3302A1						
		CODE FOR PILLAR COCK: F280001SCP						
		MODEL : SS Waste Coupling						
		MODEL : Waste Coupling 32mm (Half Thread)						
		CODE : T9911A1						
		CODE : F850001CP						
38.0	17.7.6	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm SS waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require.Material should be selected by engineer incharge.	4	Nos				
		White Vitreous China Flat back wash basin size 450x 300 mm with single 15mm C.P. brass pillar tap (15 mm C.P. brass pillar tap - 3.8 LPM)						
		MAKE : Parryware						
		MAKE : Hindware						
		MODEL FOR WASH BASIN : Tapti Wash Basin						
		MODEL FOR WASH BASIN : WB COUNTER TOP VIENNE OVAL						
		CODE FOR WASH BASIN: C04901C						
		CODE FOR WASH BASIN: 10038-SW						
		MODEL FOR PILLAR COCK (COLD) : Agate Pillar Cock						
		MODEL FOR PILLAR COCK (COLD) : PILLAR COCK-STAR RATED						
		CODE FOR PILLAR COCK: G3302A1						
		CODE FOR PILLAR COCK: F280001SCP						
		MODEL : Rag Bolt For Wash Basin						
		CODE : C808399						
		MODEL : SS Waste Coupling						
		MODEL : Waste Coupling 32mm (Half Thread)						
		CODE : T9911A1						
		CODE : F850001CP						
39.0	NDSR	Supply and Fixing of CP brass towel rail-600mm long with CP brass wall brackets and CP brass screws complete as required.Material should be selected by engineer incharge.	200	Nos				
		MAKE : PARRYWARE						
		MAKE : HINDWARE						
		MODEL Towel Rail : STANDARD						
		MODEL Towel Rail : Towel Rod						
		MODE : T6001A1						
		CODE : F580012CP						
40.0	17.34	Providing and fixing toilet paper holder.Material should be selected by engineer incharge.	200	Nos				
	17.34.1	C.P. brass						
		MAKE : Parryware						
		MAKE : Hindware						
		MODEL : Standard Paper Holder						
		MODEL : TOILET PAPER HOLDER						
		CODE : T6005A1						
		CODE : F580009CP						
41.0	NDSR	Supply and Fixing of stainless steel twin coat hook fixed to wooden cleats with CP brass screws. .Material should be selected by engineer incharge.	200	Nos				
		MAKE : Parryware						
		MAKE : Hindware						
		MODEL : Twin Robe Hook						
		MODEL : Robe Hook						
		CODE : T6007A1						
		CODE : F580007CP						
42.0	17.1	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.Material should be selected by engineer incharge.	67	Nos				
	17.10.1	Kitchen sink with drain board						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
	17.10.1.2	510x1040 mm bowl depth 225 mm MAKE : NIRALI MODEL : ELEGANCE CODE : 41X20 SIZE						
43.0	NDSR	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. Material should be selected by engineer incharge.						
		Double bowl sink with drain board :1040 mm x 510 mm MAKE : NIRALI MODEL : FABULOUS 41X20 SIZE	67	Nos				
44.0	9001	Providing and fixing 20mm dia C.P. brass table mounted sink mixer (Hot & cold mixer) with overhead swinging spout complete as required and making good. Material should be selected by engineer incharge. 20 mm C.P. brass table mounted sink mixer - 3.8 LPM MAKE : Parryware MODEL : Deck Mounted Sink Mixer CODE : G3345A1	134	Nos				
		MAKE : Hindware MODEL : CENTRAL HOLE BASIN MIXER WITHOUT POPUP CODE : F280009CP						
45.0	NDSR	Providing and fixing 32 mm dia SS waste coupling for sink of approved quality and colour. MODEL : SS Waste Coupling CODE : T9911A1	201	Nos				
		MODEL : Waste Coupling 32mm (Half Thread) CODE : F850001CP						
46.0	17.70.1	Providing and fixing Chromium plated Bottle trap 32 mm with 190 mm long connecting pipe and wall flange with complete as required and making good. MAKE : Parryware MODEL : SS Bottle Trap CODE : T3205A1	468	Nos				
		MAKE : Hindware MODEL : BOTTLE TRAP ECONOMY PROJECT CODE : F850072CP						
47.0	7120	Providing and fixing Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings. Material should be selected by engineer incharge. Make : Watertec / Prayag	5	Nos				
48.0	NDSR	Supply and Fixing of 15mm CP brass single lever concealed bath and shower wall mixer with diverter, 3way shower head, spout, OH shower with adjustable type arm with wall flange with slipfit connection & hand shower with flexible pipe with bracket including all accessories. Material should be selected by engineer incharge. MAKE : Parryware Model : G4887A1 (High Flow Divertor Body) Model : G3385A1 (Ultra Hi Flow Divertor Upper Part) Model :G0628A1 (Wall Buttun Spout With Divertor) Model :T9902A1 (Single Flow Hand Shower) Model :T9986A1 (Multi Flow Over Head Shower) Model :T9802A1 (Shower Arm)	197	Set				
		MAKE : Hindware Model : BODY HF-SL CON.DIV B&S SYS(W/O KNOB)ECO / F850091BCP Model : SINGLE LEVER EXPOSED PARTS KIT OF DIVERTOR(SUITABLE FOR F8590) / F280040CP Model :BATH TUB SPOUT WITH TIP-TON / F570010CP Model : 1-F.IMP H.S & D.L 1.5M B.PLTD F. H&W.HK / F160003CP Model : 5-FLOW IMP O/H MASG SH. / F160010CP Model : SHOWER ARM 12 ROUND WT FLANGE / F160118CP						
49.0	18.53	Providing and fixing C.P. brass angle valve with wall flange for basin mixer and geyser points of approved quality conforming to IS:8931. Material should be selected by engineer incharge. 18.53.1 15mm nominal bore MAKE : Parryware MODEL : Agate Pro Angle Valve CODE : G3307A1	1200	Nos				
		MAKE : Hindware MODEL : ANGULAR STOP COCK WITH WALL FLANGE CODE : F280004CP						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
50.0	18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge. MAKE : LOKI MODEL : STANDARD	1200	Nos				
51.0	18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour. Material should be selected by engineer incharge.						
	18.74.2	45 cm length MAKE : Parryware MODEL : 1.5 Connection Hose CODE : T9912A1	1200	Nos				
52.0	NDSR	Providing and fixing white vitreous china flat back push cock type urinal with Auto closing urinal valve as per approval and making all connections of urinal with other accessories such as flush pipe ,outlet, etc. filling including making chases and holes in floors and walls and repairing the same with cement mortar (1:3) plastering etc. to original condition and painting of fittings etc. complete. Material should be selected by engineer incharge. Urinal with Auto closing urinal valve Urinal basin with push cock - 3.8 LPF Make : Parryware parryware flat back urinal white + auto closing urinal valve MAKE : Parryware MODEL : New Magnum Urinal CODE : C05831C MODEL : Urinal Flush Valve	2	Nos				
53.0	NDSR	Supplying , installing and testing of approved make horizontal type electric water heater with heating elements with necessary grip bolts and accessories etc. Complete. The capacity shall be 10 liters with suitable wattage. Material should be selected by engineer incharge. MAKE : RACOLD RACOLD HORIZONTAL 10 LITRES CDR DELUXE	197	Nos				
54.0	NDSR	Supplying & Fixing of 1 liters capacity of instant water heater of approved shade with steel container, glasswool insulation, stove enamelled M.S jacket, thermostatically controlled inner heater with pilot neon lamps complete as required. The capacity shall be 1 liters with suitable wattage. Material should be selected by engineer incharge. MAKE : RACOLD RACOLD 1 LITRES CDR DELUXE	67	Nos				
55.0	NDSR	Supplying, fixing and testing and commissioning of UPVC soil and waste pipes (SWR) conforming to IS 13592 :1990, type B with solvent cement inclusive of all necessary specials like 45 or 90 deg. bends, tee's, Y's, offsets, junctions, cowl's, door provisions in the specialist as per the direction of the engineering incharge etc., Pipe laid sunken floor etc., complete. Location: Inside Toilet & kitchen a) 75mm dia b) 110mm dia	1025	Rmt				
			410	Rmt				
56.0	NDSR	Supplying, fixing and testing and commissioning of UPVC soil, waste and vent pipes (SWR) conforming to IS 13592 :1990, type B with solvent cement inclusive of all necessary specials like bends, tees, Y's, offsets, door bends, junctions, cowl's, etc., laid under floor / fixed on walls, and in pipe shafts etc., complete. MS angle appropriate size, grip bolts in columns / beams / walls / ceiling for fixing soil, waste pipe supports. The Brackets / clamps shall be painted with two coats of enamel (approved) paint over a coat of primer etc., complete. Location :Shaft & ceiling						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		a) 63mm dia (Vent)	800	Rmt				
		b) 75mm dia	780	Rmt				
		c) 110mm dia	1060	Rmt				
		d) 160mm dia	150	Rmt				
		e) 200mm dia	5	Rmt				
		f) 250mm dia	5	Rmt				
57.0	NDSR	Supplying ,fixing, testing and commissioning of PVC pipe conforming to IS 4985 of Agricultural series - 6 kgs / sq.cm pressure rated, for underground soil, waste and vent laid under the soil from manhole to manhole outside the building, to the required slopes, jointing with solvent cement followed by application leak proof adhesives of FRP paste, including haunching / covering only the joints with cement concrete 1:3:6 at all the joints with and testing of joints with water column etc. complete.						
		Location: External soil & waste pipe						
		a)75mm dia	10	Rmt				
		b)110mm dia	375	Rmt				
		c)160mm dia	370	Rmt				
		d)200mm dia	215	Rmt				
		e) 250mm dia	25	Rmt				
58.0	NDSR	Supplying, fixing and testing uPVC pipe class III pipes (6 Kg/sqcm) conforming to IS:4985:2000 for waste connection from wash basin, kitchen sinks to floor trap / anti syphonage pipe with solvent cement joints, including all the fittings, laid under floor / concealed in wall etc., the work shall include wall chase and making good the same in cement mortar etc., complete.						
		Location: Internal WB & UR connection pipe						
		a) 25mm dia	1000	Rmt				
		b) 40mm dia	530	Rmt				
		c) 50mm dia	1000	Rmt				
59.0	NDSR	Supply, Installation, testing and commissioning Rain water pipe conforming to IS 4985 of SWR Class - II (4 Kg/sqcm) quality pressure rates as mentioned below, including all fittings, like Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring followed by application of leak proof adhesive like FRP paste, fixed to wall vertically in shafts. Rate includes necessary MS angle brackets, hangers, supports as per detail drawing for supporting sewerage water Providing pipes with suitable GI U- clamps, bolts, nuts and washers etc. with MS grip bolts in columns / beams / walls / ceiling for fixing soil, waste and rain water pipe supports. The Brackets / clamps shall be painted with two coats of enamel (approved) paint over a coat of primer etc., complete.						
		Location :Shaft & ceiling (RWP)						
		a)75mm dia	520	Rmt				
		a)110mm dia	950	Rmt				
		b) 160 mm dia	10	Rmt				
		c) 200 mm dia	10	Rmt				
		d) 250 mm dia	10	Rmt				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
60.0	NDSR	Supplying ,fixing, testing and commissioning of PVC pipe confirming to IS 4985 of Agricultural series - 6 kgs / sq.cm pressure rated, for underground soil, waste and vent laid under the soil from manhole to manhole outside the building, to the required slopes, jointing with solvent cement followed by application leak proof adhesives of FRP paste, including haunching / covering only the joints with cement concrete 1:3:6 at all the joints with and testing of joints with water column etc. complete.						
		Location: External rain water pipe						
		a)75mm dia		10	Rmt			
		b)110mm dia		400	Rmt			
		c)160mm dia		150	Rmt			
		d)200mm dia		5	Rmt			
		e) 300 mm dia		25	Rmt			
61.0	NDSR	Providing and laying IS 13592 Type-B PVC perforated 6kg/sq.cm pipes withsolvent cement joint to the required grade for draining the subsoil water below the ground. The pipe perforations shall becovered with geo filter to prevent the entry of soil and other foreign matters in to the pipe. The geo filter shall be covered with 20-40mm gravel / aggregate all round. The thickness of the gravel fill shall be as shown in the drawing, necessary excavation,backfilling, trench grading before laying the pipes, removing the excavated earth with all lead and lifts etc., complete						
		a) 200mm dia		210	Rmt			
62.0	NDSR	Providing and laying IS 13592 Type-B PVC perforated 6kg/sq.cm pipes with solvent cement joint to the required grade for draining the under ground recharge bore pipe with necessary excavation,backfilling, trench grading before laying the pipes, removing the excavated earth with all lead and lifts etc., complete						
		a) 150mm dia		1200	Rmt			
63.0	NDSR	Supplying and fixing of Leaf trap with kurra made out of PVC with flange and grating for rain water outlets on terrace etc., complete.						
		a) 75 mm dia (Side wall parapet outlet)		40	Nos			
		b) 110 mm dia		40	Nos			
64.0	NDSR	Supplying installing testing and commissioning of the balcony floor drain of 110 x 75 with a grating of size 110 dia SS, to be fixed over 110 drain pipe, properly supported underneath slab, etc complete satisfaction to the engineer incharge.		200	Nos			
65.0	NDSR	Supply, fixing and testing PVC floor- trap (6 Kg/sqcm) 110 dia with necessary of multitrapp connection (heavy duty hinged type trap of 100 mm dia inlet and 75 mm dia outlet fixed on a bed of cement concrete etc.complete.		665	Nos			
66.0	NDSR	Supplying and fixing of SS heavy grating cover (Cockroach trap) (150 mm x 150 mm). etc., complete.		665	Nos			
67.0	NDSR	Supplying and fixing of 50mm dai PVC P trap.		35	Nos			
68.0	NDSR	Supply,Laying, Testing and Commissioning of PVC Cleanout with heave duty nickel bronze gasket cover for Soil, Waste pipes inside the Toilet area and making it complete for operation. Supply of necessary accessories white cement, solvent cement, teflon tape, screws, clamps, etc for complete installation. Scope includes fixing and finishing the opening and providing PVC cleanout plug to the Soil, Waste and Vent pipe with sufficient bend arrangement, should ensure easy removal & accessing.Vendor shall directly co-ordinate with other package vendors of the project for smooth installation and handing over. The pipe and fittings shall be ISI marked. The workmanship and technical requirements should be as per CPWD Specification.						
		a) 75 mm dia		2	Nos			

Name of the Vendor/Company									
SL.NO	DSR CODE	DESCRIPTION			Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words
		b) 110 mm dia			35	Nos			
		c) 160 mm dia			2	Nos			
		WATER SUPPLY SYSTEM (DOMESTIC & HOT WATER PIPE & ACCESSORIES)							
69.0	18.8	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 etc.							
a	18.8.2	20 mm nominal outer dia Pipes			4300	Rmt			
b	18.8.3	25 mm nominal outer dia Pipes			10	Rmt			
c	18.8.4	32 mm nominal outer dia Pipes			10	Rmt			
70.0	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed pipes.							
a	18.7.2	20 mm nominal outer dia Pipes			3260	Rmt			
b	18.7.3	25 mm nominal outer dia Pipes			985	Rmt			
c	18.7.4	32 mm nominal outer dia Pipes			745	Rmt			
d	18.7.5	40 mm nominal outer dia Pipes			300	Rmt			
e	18.7.6	50 mm nominal outer dia Pipes			850	Rmt			
f	18.9.7	65mm nominal inner dia Pipes			335	Rmt			
g	18.9.8	80 mm nominal inner dia Pipes			80	Rmt			
h	18.9.9	100 mm nominal inner dia Pipes			30	Rmt			
71.0	18.9	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.							
a	18.9.2	20 mm nominal outer dia Pipes			5	Rmt			
b	18.9.3	25 mm nominal outer dia Pipes			30	Rmt			
c	18.9.4	32 mm nominal outer dia Pipes			35	Rmt			
d	18.9.5	40 mm nominal outer dia Pipes			70	Rmt			
e	18.9.6	50 mm nominal outer dia Pipes			675	Rmt			
f	18.9.7	65mm nominal inner dia Pipes			5	Rmt			

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
g	18.9.8	80 mm nominal inner dia Pipes	5	Rmt				
h	18.9.9	100 mm nominal inner dia Pipes	10	Rmt				
72.0	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure with complete as required.						
a	18.18.2	20 mm nominal bore	440	Nos				
b	8.18.1	25 mm nominal bore	180	Nos				
c	NDSR	32 mm nominal bore	75	Nos				
d	NDSR	40 mm nominal bore	1	Nos				
e	NDSR	50 mm nominal bore	70	Nos				
73.0	NDSR	Supply, installation, testing and commissioning of butterfly valve (IS 13039) of CI body SG iron rilson coated disc ,Working pressure not less than 10Kg/Sq.cm. Including rubber gasket, flanges, nuts, bolts, washers & painting complete as required.						
		a) 65 mm dia	1	Nos				
		b) 80mm dia	3	Nos				
		c) 100mm dia	3	Nos				
74.0	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :						
	18.17.4	a) 50 mm nominal bore	2	Nos				
	NDSR	b) 100 mm nominal bore	2	Nos				
75.0	NDSR	Supplying & fixing screwed ended gun metal horizontal / vertical non return valve conforming to IS 5312 of PN 10 pressure rating including rubber gasket, union, etc. complete as required.						
		a) 40 mm nominal dia	2	Nos				
		b) 50 mm nominal dia	12	Nos				
		c) 100 mm nominal dia	1	Nos				
76.0	NDSR	Supplying & fixing of brass Auto Air vent with isolation valve for cold water supply risers, suitable for working pressure not less than 10 Kg/Sq.cm.						
		a) 20 mm dia	40	Nos				
77.0	NDSR	Supply and install 65mmØ, 80mmØ &100mmØ electromagnetic flow meter - equipped and connected with data logger sensor, including but not limited to the following: bolts, Gaskets, re ducers, coupling, flanges, jacking and concrete supports, complete all as described in the Specifications and as shown on the Drawings and as directed by the Engineer.						
		a) 50 mm dia	5	No				
		b) 100 mm dia (Tanker)	1	No				
78.0	NDSR	Supply Installation, testing & commissioning of dual flange CI 'Y' strainer PN10 (flanged) with stainless steel fine wire mesh perforated sheet basket with necessary flange / unions, nuts, bolts and wahsers complete as required.						

Name of the Vendor/Company									
SL.NO	DSR CODE	DESCRIPTION			Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words
		a)100 mm dia			1	No			
		b)50mm dia			5	No			
		PUMPS & ACCESSORIES							
79.0	NDSR	Supplying, installing, testing and commissioning of domestic water transfer Pump for domestic OHT Filling of continuous duty submersible centrifugal pumps complete with 3 phase motor. Each pump shall have TEFC1450 RPM three phase electric motor. all necessary protection and mechanical seal etc with Cabling upto Control Panel etc complete .Vendor to submit proposed pump model with duty curve.The pump shall be suitable for auto/ manual operation.			3	set			
		Complete (wall mounted /) Electrical control panel with starter comprising of all accessories such as Cyclic Timer, Contactors, Single Phasing Preventers, Overload Relays, Push Buttons, Voltmeter, Ammeter, with Selector Switches, A/M Swich, Main Incomer Switch, Dry Pun Preventers with float switches, Overflow control with Float Switches, control wiring with cable tray or conduit upto tank and any other necessary imports etc. (list to be provided by the vendor)							
		OHT filling - Block - A (2 number's of OHT) , Bock - B (1 number of OHT)							
		2 Nos. (1 working + 1 standby)							
		Pump capacity - 2.5 LPS							
		Head - 40 mtrs							
		Power - 2.2 KW (3 HP)							
80.0	NDSR	Supplying, installing, testing and commissioning of flushing water transfer Pump for flushing OHT Filling of continuous duty submersible centrifugal pumps complete with 3 phase motor. Each pump shall have TEFC1450 RPM three phase electric motor. all necessary protection and mechanical seal etc with Cabling upto Control Panel etc complete .Vendor to submit proposed pump model with duty curve.The pump shall be suitable for auto/ manual operation.			3	set			
		Complete (wall mounted /) Electrical control panel with starter comprising of all accessories such as Cyclic Timer, Contactors, Single Phasing Preventers, Overload Relays, Push Buttons, Voltmeter, Ammeter, with Selector Switches, A/M Swich, Main Incomer Switch, Dry Pun Preventers with float switches, Overflow control with Float Switches, control wiring with cable tray or conduit upto tank and any other necessary imports etc.							
		OHT filling - Block - A (1 number of OHT) , Bock - B (2 numbers of OHT)							
		2 Nos. (1 working + 1 standby)							
		Pump capacity - 2.5 LPS							
		Head - 40 mtrs							
		Power - 2.2 KW (3 HP)							
81.0	NDSR	Providing and fixing electronic type level indicator for water tanks mounting in panel with the following features, level display, alarm when water level is low or high, full range from one level to four level display and manual reset for alarm etc. with electrical wiring conduit supports from wall & ceiling probs and all other accessories complete as required.			6	set			
82.0	NDSR	Supply, Installation, testing and commissioning of centrifugal pump for gardening water distribution pump with electric control panel with starter, logic controller relays, pressure switch, pressure transmitter complete with all accessories as per manufacturer specifications.							
		Gardening water distribution pump			1	set			
		2 Nos. (1 working + 1 standby)							
		Pump capacity - 2 LPS							
		Head - 20 mtrs							
		Power - 1.0 KW (1.3 HP)							

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
83.0	NDSR	Supply, Installation, testing and commissioning of submersible type bore water transfer pump with electric control panel with starter, logic controller relays, pressure switch, pressure transmitter & etc., complete with all accessories as per manufacturer specifications.	1	set				
		UG sump filling line - Bore to Raw water UG sump) (1 working) Pump capacity - 2.5 LPS Head -95 mtrs (Head is assumed - Head may be varied as per the site bore yield) Power - 4.0 KW (5.4 HP)						
84.0	NDSR	Supply, installation, testing and commissioning of water treatment plant with automatic back wash system, which contains filter feed pump set -2 Nos (1 W + 1 S), Hypo dosing system, Pressure sand filter, Iron removal filter, Softner filter , Regenration tank, Activated carbon filter , interconnecting pipe & fittings, Electrical cables, Electrical works , with control panel and and complete accessories .	1	Set				
		Treated Water Characteristics: Description of the Parameter Value PH 6.5-7.5 TSS (Total Suspended Solids) <5 mg/lit Total Hardness <100 mg/lit Total Iron <0.3 mg/lit						
		Water treatment plant equipment given below:						
		A) FILTER FEED PUMPS:						
		Qty - 2 Nos (1 W + 1 S) Type -Centrifugal Monobloc MOC - CI Flow rate - 5.0 cu.m / hr Head - 30 mtr HP - 3.0 HP Make - Kirloskar						
		B) HYPO DOSING SYSTEM						
		Quantity - 1 No. Type - Diaphragm Capacity 0-4 LPH Pressure - 4 Bar End Connection - 4/6mm Max.Suction Pressure - 1.5m Make - E-dose/ Equivalent PP -Storage Tank - 100 Liters						
		C) PRESSURE SAND FILTER						
		Qty - 1 No Flow - 5.0 m3/hr Duty - To remove suspended solids MOC - MSEP Dia - 800 mm HOS - 1500 mm Valve - 40 NB Multiport type valve Type - Vertical Media - Graded Pebbles, Quartz sand						
		D) IRON REMOVAL FILTER						
		Qty - 1 No Flow - 5.0 m3/hr Duty - To remove iron content MOC - MSEP Dia - 800 mm HOS - 1500 mm Valve - 40 NB Multiport type valve Type - Vertical Media - Graded Pebbles / Coars Sand/Birm Media						
		E) ACTIVATED CARBON FILTER						
		Qty - 1 No						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		Flow - 5.0 m3/hr						
		Duty - To remove suspended solids						
		MOC - MSEP						
		Dia - 800 mm						
		HOS - 1500 mm						
		Valve - 40 NB Multiport type valve						
		Type - Vertical						
		Media - Graded Pebbles, Quartz sand and Activated Carbon						
		F) SOFTNER FILTER						
		Qty - 1 No						
		Flow - 5.0 m3/hr						
		Duty - To remove Hardness						
		MOC - MSFRP						
		Dia - 800 mm						
		HOS - 1800 mm						
		Thickness - Dish : 6mm , Shell: 5mm						
		Inner Protection - FRP lining -1mm						
		Valve - 40 NB Multiport type valve						
		Type - Vertical						
		Media - Na based Resin						
		Resin Qty - 550 Litres						
		Resin Make - Ion exchange / Asion/Equivalent						
		G) REGENERATION TANK						
		Quantity - 1 No.						
		Capacity - 500 Litres						
		MOC - HDPE						
		I) ELECTRICAL WORKS :						
		Quantity - 1 Lot						
		Panel MOC - MS with Powder coating						
		Type - Non Compartmentalized						
		Component Make - Aster/Equivalent						
		GREY WATER TREATMENT PLANT & ACCESSORIES						
85.0	NDSR	Supply, installation, testing and commissioning of 25 Kld capacity of grey water treatment plant SBR technology (Sequencing Batch Reactor) & accessories.						
		Treated Water Characteristics: (Treated water re use for flushing & gardening)						
		Description of the Parameter Value						
		BOD treated water < 10						
		COD treated water < 50						
		NH4-N treated water < 5						
		Grey water treatment plant equipment given below:						
		a) EcoTec IoT controller	EcoTec Proprietary Control unit with microprocessor control & intranet web access, pre-set work cycles, real-time controlled, graphic display, operating hours' counter, optional manual, and automatic mode, acknowledgeable visual and acoustic fault message, mains failure alarm, logbook function	1unit				
		b) Panel Board enclosure	Panel board (Class IP 55/65) for the enclosure of controller and necessary electrical equipment's (phase failure relay, MPCB, contactors)	1unit				
		c) Compressor / SD blower	Side channel blower or compressor 60-70cu.m/h, 3KW, 3~	1unit				
		e) Diffusers in the aeration tank	EPDM Fine bubble Tubular diffusers	12Nos. (1 m Tubular Diffuser) with SOTE<8.5%/m at a flow rate of 5 cu.m/hr or equivalent				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		f) Diffuser stands	Diffusion system in SS 304 (8/6 outputs) stands	1 unit				
		g) Airhose	Hose, PVC braided from Polyhose at 10 kg/ sq.cm at	Appx. 100m				
		h) Airlift units for transfer of water in the collection , aeration, and treated water tank	Airlift arrangement and functional mechanisms & technology	Minimum- 3/4 units or as required in the				
		i) Wiring for the plant	Wiring for the plant	Cable details should be refer electrical BOQ				
		j) SS 304 pipe clamps	Clamps and fittings for wall mounting in SS 304	1 Lot				
		h) Components for assembling and fixing solenoid valve set	Clamps and fittings for wall mounting in SS 304	1 Lot				
			SS 304 output for valve arrangement (3/4") (2 outputs / 3 outputs)	4 units				
			Solenoid valve for airlift arrangement (Asco) (1.5")	4 units				
			Valve stand for valves (SS 304, 2mm thickness)	1 units				
			EcoTec Operation Manual & Maintenance manual	1 No				
		i) Filtration + Disinfection	Automatic (AMPV) PSF with filter feed pump flow rate 1.5cu.m/h (1W+1S) + UV Disinfection unit	1 Lot				
		GREASE TRAP & ACCESSORIES						
86.0	NDSR	Supply & installation of Grease separator Easy Clean free Basic under ground type, NS 1, Direct, Insp. window The separator for grease wastewater is suitable for free-standing set-up in frost-protected rooms and comes without metallic components in the tank. The collecting tank made of permanently resistant polymer (PE) is equipped with an integrated sludge trap. Manhole cover opening 610mm dia tight covers with quick-release closures allow for easy access for cleaning and maintenance work. Version: Type of disposal: manual Inlet nominal size (OD): 110 mm Outlet nominal size (OD): 110 mm Connection inlet/outlet sockets: PE-HD pipes in accordance with DIN 19537, HT pipes in accordance with DIN 19560, PP or AS Wastewater contents: Water & sludge trap - 140 L Water & sludge : 230 L Storage quantity of grease: 70 L Total weight - 111 KG			10	Sets		
		CIVIL WORKS / MISCELLANEOUS ITEMS						
	NDSR	Providing and fixing 600 mm long MS hot dip galvanized PUDDLE FLANGES fabricated out of 8 mm thick MS plates of suitable size and IS:1239 heavy class pipes properly fixed in walls & top slab of tanks. The entire fittings shall be hot dipped galvanized after fabrication. Length shall be minimum 600 mm or wall thickness plus 200 mm on either side (which ever is more).(As per the drawing)						
87.1	NDSR	50 mm dia (Flanged ends)			12.0	Nos.		
87.2	NDSR	65 mm dia (Flanged ends)			23.0	Nos.		
87.3	NDSR	80 mm dia (Flanged ends)			5	Nos.		
87.4	NDSR	100 mm dia (Flanged ends)			11.0	Nos.		
87.5	NDSR	150 mm dia (Flanged ends)			23.0	Nos.		
87.6	NDSR	200 mm dia (Flanged ends)			2.0	Nos.		
		TOTAL AMOUNT FOR SANITARY AND PLUMBING WORKS						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		ELECTRICAL WORKS						
S.No	DSR 2022							
88.0		RING MAIN UNIT						
	NS	Supply erection testing and commissioning outdoor of 4 Way, 12kV, 630A, 25kA, with motorized operating system suitable for scada control Ring Main Unit (2 x 630A Load Break Switch with fuse as incomers and 2Nos. of 630A control breakers as outgoing) as Per the TANGEDCO SPECIFICATION, SCADA Enabled, without FRTU, MODEM AEGIS 12KV TYPE: RRLLL . Including the base frame other related works complete set	1	Set				
89.0		500kVA TRANSFORMER						
	NS	Supply Erection Testing and commissioning of 500kVA ONAN type transformer with all accessories complete set as per following specifications Rating : 500kVA Service : Outdoor No load voltage ration : 11kV/433V Frequency : 50Hz Vector Group : Dyn 11 Tapping : off circuit Range : +5% to -10% Steps : 2.5% per step No.of Steps : 6 No.of positions : 7 Temperature rise in the oil : 40 deg C Temperature rise in the winding : 45 deg C Terminal Arrangements Primary : Bushing Secondary : Bushing Winding : Copper Lamination : CRGO grade core Oil : As per IS:335 Losses : Level 1 Losses @ 50% Load : 1.51kW Losses @ 100% Load : 4.3kW Impedance : 4.5% IS reference : IS 1180 List of Standard fittings Conservator without shutoff valves Conservator drain plug Silica gel dehydrating breather Bottom channels Thermometer pocket Oil drain valve at bottom Oil level gauge – Plain Air release plug Fixed type Radiators Lifting lugs -4Nos. Earthing terminal – 2 Nos. Rating and terminal marking plate. Bi-directional Rollers – 4Nos. Explosion vent with diaphragm Top filter valve Off Circuit Tap Switch with Locking Device	2	Set				
90.0		FEEDER PILLAR BOX						
	NS	Supply erection testing and commissioning of 4Way Feeder Pillar Box suitable for 415V, 3Phase, 4Wire, 50Hz, 4way distribution system. The feeder pillar shall be free standing, floor mounted sheet steel metal enclosure suitable for outdoor installation mounted on a concrete slab. incomer : 800A, outgoing 200A with necessary accessories complete set as per TNEB Specification	2	Set				
91.0		HT Cable & Termination						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
91.1	NS	Supply of 3C x 185sqmm XLPE Al 11kV(E) cable	20	Metre				
91.1.1	8.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.						
91.1.2	8.1.2	Above 120 sq. mm and upto 400 sq. mm	10	Metre				
91.1.3	8.4	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.						
91.1.4	8.4.2	Above 120 sq. mm and upto 400 sq. mm	10	Metre				
92.0		Heat shrinkable HT Cable Joints						
	NS	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :						
		3C x 185sqmm XLPE Al 11kV(E) cable outdoor type joints	6	Each				
93.0		TRNAFORMER & RMU EARTHING						
93.1	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with charcoal/ coke and salt as required.	6	Set				
93.2	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	4	Set				
93.3	5.8	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)	50	Metre				
93.4	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	20	Metre				
93.5	NS	Supplying, laying and connecting 50 x 6 mm. GI Flat laid in open fashion with necessary clamps,screws, interlinks etc for Body Earthing of Transformer , RMU & Feedar Pillar Box	120	Metre				
94.0		FENCING OF TRANSFORMER YARD						
	NS	Providing 1.8 mtr height weldmesh fencing with vertical angle iron supports spaced as required, painting with one coat red oxide and two coat aluminium paint, levelling yard with sand cushion of 150mm depth complete set as per site condition Weld mesh gate (2 X 600W x 1800Ht.) with vertical supports made of 50 x 50 x 6mm angle hinged with necessary foundation, locking arrangement with painting Construction of 600mm high Curbwall (below ground 300mm & above ground 300mm) all around Covering the Switchyard / transformer yard area as required and Necessary MS channel / angle iron support shall be provided.Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with 1) including conduits 2) 11 kV danger plate 3) should be done as per the requirement of statutory approval / cable as required (Earthing of the fencing) Supply and providing of 150mm layer of 40mm blue metal in the yard	30	Metre				
95.0		LT PANEL						
95.1		METERING PANEL -1/2/5/6						
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram, specification and as required.						
		METERING PANEL						
		Metering panel with following specifications						
		Incomer : 500A TPN porcelain fuse with 300A Fuse wire						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		300A Aluminium Bus bar Outgoing 63A TPN HRC Fuse - 10 set, 63A 4P MCB - 10 Set, Provision for TNEB Meter, Sealing provision for TNEB	4	Set				
95.2		METERING PANEL -3						
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram , specification and as required.						
		METERING PANEL metering panel with following specifications Incomer : 500A TPN porcelain fuse with 300A Fuse wire 300A Aluminium Bus bar Outgoing 63A TPN HRC Fuse - 13 set, 63A 4P MCB - 13 Set, Provision for TNEB Meter, Sealing provision for TNEB	1	Set				
95.3		METERING PANEL -4						
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram , specification and as required.						
		METERING PANEL metering panel with following specifications Incomer : 500A TPN porcelain fuse with 300A Fuse wire 300A Aluminium Bus bar Outgoing 63A TPN HRC Fuse - 12 set, 63A 4P MCB - 12 Set, Provision for TNEB Meter, Sealing provision for TNEB	1	Set				
95.4		CT METERING PANEL						
	NS	Supply erection testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, totally enclosed wall mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, protection relays, interconnections with suitable capacity Aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram , specification and as required.						
		CT Metering panel with provision for CT Meter, sealing provision for TNEB, Test terminal block etc., as per specification required by TNEB 200A Isolator with 1No. 200/5A, CI:1.0 ,15VA CT for APFC Panel CT Meter should be Netmeter to connect ON grid solar power system						
		Note Panel should be comply the standard of TNEB specifications and to be approved by TNEB	1	Set				
95.5		LT PANELS - TTA as per IS / IEC 61439-1&2						
		All the LT panels shall be with validated design and fully comply with requirements of Type Tested Assemblies (TTA) as per IEC 61439-1&2. All switchgear shall confirm to Ics=100% Icu. The enclosure, busbar, busbar supports etc shall take care of normal stress as well as abnormal electro-mechanical stress due to short circuit conditions. The type tested certificates complying with IEC 61439 shall be submitted.						
		50KVAR APFC Panel (Contactor Switching)						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, compatible to BMS totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, protection relays, digital multi function meter with RS 485, CTs interconnections with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram, specification and as required.						
		Incomer						
		125 Amps 4Pole 25kA MCCB-1No.						
		OUTGOING :						
		63 AMPS 10kA TPN MCB with 1 Nos. 25 kVAR MPP heavy duty capacitor with capacitor duty contactor & 7% detuned harmonic filter copper wound. : 1Nos.						
		40 AMPS 10kA TPN MCB with 1 Nos. 15 kVAR MPP heavy duty capacitor with capacitor duty contactor & 7% detuned harmonic filter copper wound: 1Nos.						
		16 AMPS 10kA TPN MCB with 1 Nos. 5 kVAR MPP heavy duty capacitor with capacitor duty contactor & 7% detuned harmonic filter copper wound: 1Nos.						
		10 AMPS 10kA TPN MCB with 1 Nos. 2.5 kVAR MPP heavy duty capacitor with capacitor duty contactor & 7% detuned harmonic filter copper wound: 2Nos..						
		NOTE:						
		01. All MCCBs shall have Adjustable Overload and Short Circuit settings.						
		02. The withstanding capacity shall be Ics only.						
		An 6-Step APFC Relay with transducer shall be incorporated to maintain the power factor. The Panel shall also be made suitable to accommodate the following Capacitor Banks with all interconnections. Contactor switching should be with necessary protection fuse etc.,						
		Required Nos of louvers and panel mounted cooling fan with auto/manual switch shall be provided.						
		Including control wiring between CT at Isolator and APFC Panel for switching ON the APFC during EB supply only						
		BUSBARS : ALUMINIUM						
		RATING : 125 AMPS						
		There shall be One Set of Metering Compartment incorporated with the following for Incomer:-						
		Metering CT : 125/5A, CI:1.0,5VA - 3Nos for Metering						
		Digital Ammeter with Selector Switch						
		Digital Voltmeter with Selector Switch						
		Breaker ON/OFF/TRIP & RYB indicating lights with control MCB's 1 Set	1	Nos.				
95.6		DG DISTRIBUTION PANEL						
		All the LT panels shall be with validated design and fully comply with requirements of Type Tested Assemblies (TTA) as per IEC 61439-1&2. All switchgear shall confirm to Ics=100% Icu. The enclosure, busbar, busbar supports etc shall take care of normal stress as well as abnormal electro-mechanical stress due to short circuit conditions. The type tested certificates complying with IEC 61439 shall be submitted.						
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, compatible to BMS totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, protection relays, digital multi function meter with RS 485, CTs interconnections with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram, specification and as required.						
		Incomer .. 1Nos.						
		315Amps 4P 25kA MCCB-1Nos. with all other protections etc.,						
		Earth Fault Relay : 1No.						
		Outgoing						
		i)200A TPN 25kA MCCB-1Set						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		ii)63A TPN 25kA MCCB-6Set NOTE: 01.The withstanding capacity mentioned is Ics only 02. All MCCB should be with adjustable overload and fixed short circuit relays 03.Breaker ON/OFF/TRIP & RYB indicating lights with control MCB's 1 Set BUSBAR : ALUMINIUM RATING : 315AMPS	1	Set				
95.7		COMMON AREA PANEL All the LT panels shall be with validated design and fully comply with requirements of Type Tested Assemblies (TTA) as per IEC 61439-1&2. All switchgear shall confirm to Ics=100% Icu. The enclosure, busbar, busbar supports etc shall take care of normal stress as well as abnormal electro-mechanical stress due to short circuit conditions. The type tested certificates complying with IEC 61439 shall be submitted.						
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, compatible to BMS totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, protection relays, digital multi function meter with RS 485, CTs interconnections with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram , specification and as required.						
		Incomer .. 1Nos. 200Amps 4P Auto Transfer Switch -1No. 200Amps 4P 25kA MCCB-1Nos. with all other protections etc., Earth Fault Relay : 1No. Out going i)125A TPN 18kA MCCB-2Set ii)63A TPN 10kA MCB-17Set iii)32A TPN 10kA MCB-6Set NOTE: 01.The withstanding capacity mentioned is Ics only 02. All MCCB should be with adjustable overload and fixed short circuit relays 03.Breaker ON/OFF/TRIP & RYB indicating lights with control MCB's 1 Set BUSBAR : ALUMINIUM RATING : 200AMPS	1	Set				
95.8		EV CHARGING PANEL All the LT panels shall be with validated design and fully comply with requirements of Type Tested Assemblies (TTA) as per IEC 61439-1&2. All switchgear shall confirm to Ics=100% Icu. The enclosure, busbar, busbar supports etc shall take care of normal stress as well as abnormal electro-mechanical stress due to short circuit conditions. The type tested certificates complying with IEC 61439 shall be submitted.						
	NS	Supply, installation, testing and commissioning of MV cubicle type suitable for 415V, 3-phase, 4 wire system, compatible to BMS totally enclosed floor mounted type, dust, damp and vermin proof main distribution board with made out of 14 SWG MS sheet complete with bus bars, MV danger notice plate, protection relays, digital multi function meter with RS 485, CTs interconnections with suitable capacity / solid aluminium strips, connection of incoming and outgoing cables with thimbles, electrostatically powder coated and having following incoming and outgoing switchgear complete with suitable size to accommodate the following accessories as per single line diagram , specification and as required.						
		Incomer .. 1Nos. 125Amps 4P 25kA MCCB-1Nos. with all other protections etc., Out going i)125A DP MCB -3Set ii)32A SP 10kA MCB-12Set NOTE: 01.The withstanding capacity mentioned is Ics only						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		02. All MCCB should be with adjustable overload and fixed short circuit relays						
		03. Breaker ON/OFF/TRIP & RYB indicating lights with control MCB's 1 Set						
		BUSBAR : ALUMINIUM						
		RATING : 150AMPS	1	Set				
96.0		MCB DBs						
		Supplying, fixing, connecting & commissioning the following Compartmentalised MCB DISTRIBUTION BOARDS fixed flush with the wall. All MCB DBs shall be double door only.						
96.1	NS	APARTMENT DB						
		Supply, erection, testing and commissioning of 8 way 8 Segmented TPN DB with following specifications.						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		10A DP MCB, ACCL (SPN 30/6A) suitable for 1000W at DG side-1No.						
		OUTGOING : 40 AMPS D P 30 mA						
		RCBO .. 3 Nos.						
		6/16/25 AMPS SP MCB .. 24Nos.	65	Set				
96.2		LIGHTING DB (COMMON AREA LIGHTING)						
96.2.1	NS	Supply, erection, testing and commissioning of 8 way 7 Segmented TPN DB with following specifications.						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		OUTGOING : 40 AMPS D P 30 mA						
		RCBO .. 3 Nos.						
		6 AMPS SP MCB .. 24Nos.	2	Set				
96.2.2	2.3	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)						
	2.3.3	12 way , Double door	3	Nos.				
96.2.3	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.14.1	25 A	3	Nos.				
96.2.4	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.						
	2.10.1	Single pole	30	Nos.				
96.3		POWER DISTRIBUTION BOARD (PDB)						
96.3.1	NS	Supply, erection, testing and commissioning of 8 way 7 Segmented TPN DB with following specifications.						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		OUTGOING : 40 AMPS D P 100 mA						
		RCBO .. 3 Nos.						
		6/16/32 AMPS SP MCB .. 24Nos.	1	Set				
96.3.2	2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
	2.5.2	8 way (4 + 24), Double door	1	Each				
96.3.3	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
	2.13.2	63 A						
96.3.4	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.						
	2.10.4	Triple pole						
96.3.5	2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
	2.5.2	8 way (4 + 24), Double door						
96.3.6	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.13.2	63 A						
96.3.7	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.						
	2.10.4	Triple pole						
96.4		COMMUNITY HALL DB						
	NS	Supply, erection, testing and commissioning of 4 way 7 segmane DB TPN DB with following specifications.						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		OUTGOING : 40 AMPS D P 100 mA						
		RCBO .. 3 Nos.						
		6/16/32 AMPS SP MCB .. 12Nos.						
			1	Set				
96.5		GYM DB						
	NS	Supply, erection, testing and commissioning of 8 way 7 segmane DB TPN DB with following specifications.						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		OUTGOING : 40 AMPS D P 100 mA						
		RCBO .. 3 Nos.						
		6/16/32 AMPS SP MCB .. 24Nos.						
			1	Set				
96.6		LPDB						
	NS	Supply, erection, testing and commissioning of 8 way 7 segmane DB TPN DB with following specifications. (LPDB)						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		OUTGOING : 40 AMPS D P 30 mA						
		RCBO .. 3 Nos.						
		6/10/16/32 AMPS SP MCB .. 24Nos.						
			1	Set				
96.7		DG DB						
	NS	Supply, erection, testing and commissioning of 8 way 7 segmane DB TPN DB with following specifications. (DGDB)						
		INCOMER : 63 AMPS 4 P MCB .. 1 No.						
		OUTGOING : 40 AMPS D P 30 mA						
		RCBO .. 3 Nos.						
		10 AMPS SP MCB .. 24Nos.						
			4	Set				
97		CABLES/TERMINATIONS						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
97.1	NS	Supply of the following 1.1KV Grade AYFY/YFY/YWY Under Ground cables with necessary clamps screws etc. and the cables shall be laid in trench/clamped along wall/column/laid in cable tray etc(the rates inclusive of suitable clamps, screws etc but exclusive of cable tray complete.						
97.1.1	NS	3.5C x300Sqmm Al XLPE Cable	30	Mtrs.				
97.1.2	NS	3.5C x 240Sqmm Al XLPE Cable	70	Mtrs.				
97.1.3	NS	3.5C x 185Sqmm Al XLPE Cable	20	Mtrs.				
97.1.4	NS	3.5C x 150Sqmm Al XLPE Cable	15	Mtrs.				
97.1.5	NS	3.5C x 120Sqmm Al XLPE Cable	500	Mtrs.				
97.1.6	NS	3.5C x 70Sqmm Al XLPE Cable	60	Mtrs.				
97.1.7	NS	4C x 25Sqmm Al XLPE Cable	1600	Mtrs.				
97.1.8	NS	4C x 6Sqmm Cu XLPE Cable	675	Mtrs.				
97.1.9	NS	4C x 10Sqmm Cu Flex. Cable	2950	Mtrs.				
97.1.10	NS	4C x 4Sqmm Cu XLPE Cable	320	Mtrs.				
97.1.11	NS	4C x 2.5Sqmm Cu XLPE Cable	710	Mtrs.				
97.1.12	NS	3C x 6Sqmm Cu XLPE Cable	30	Mtrs.				
97.1.13	NS	3C x 4Sqmm Cu XLPE. Cable	110	Mtrs.				
97.1.14	NS	3C x 2.5Sqmm Cu XLPE. Cable	150	Mtrs.				
97.1.15	NS	4C x 25Sqmm Al XLPE FS Cable	270	Mtrs.				
97.1.16	NS	3C x 6Sqmm Cu Flex. Cable	230	Mtrs.				
97.2		LAYING OF CABLES						
97.2.1	7.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.						
97.2.1.1	7.5.1	Upto 35 sq. mm	2600	Metre				
97.2.1.2	7.5.2	Above 35 sq. mm and upto 95 sq. mm	60	Metre				
97.2.1.3	7.5.3	Above 95 sq. mm and upto 185 sq. mm	450	Metre				
97.2.1.4	7.5.4	Above 185 sq. mm and upto 400 sq. mm	110	Metre				
97.2.2	7.7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.						

Name of the Vendor/Company									
SL.NO	DSR CODE	DESCRIPTION			Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words
97.2.2.1	7.7.1	Upto 35 sq. mm			2885	Metre			
97.2.2.2	7.7.2	Above 35 sq. mm and upto 95 sq. mm			10	Metre			
97.2.2.3	7.7.3	Above 95 sq. mm and upto 185 sq. mm			50	Metre			
97.2.2.4	7.7.4	Above 185 sq. mm and upto 400 sq. mm			15	Metre			
97.2.3	7.8	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required							
97.2.3.1	7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)			1000	Metre			
97.2.3.2	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)			10	Metre			
97.2.3.3	7.8.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)			30	Metre			
97.2.3.4	7.8.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)			15	Metre			
98.0		LT CABLE TERMINATION							
	9.1	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.							
98.1	9.1.30	3½ X 300 sq. mm (70mm)			4	Nos.			
98.2	9.1.29	3½ X 240 sq. mm (62mm)			8	Nos.			
98.3	9.1.27	3½ X 185 sq. mm (57mm)			2	Nos.			
98.4	9.1.26	3½ X 150 sq. mm (50mm)			2	Nos.			
98.5	9.1.25	3½ X 120 sq. mm (45mm)			16	Nos.			
98.6	9.1.23	3½ X 70 sq. mm (38mm)			4	Nos.			
98.7	9.1.34	4 X 25 sq. mm (28mm)			32	Nos.			
98.8	NS	4C x 6Sqmm Cu XLPE Cable			24	Nos.			
98.9	NS	4C x 10Sqmm Cu Flex. Cable			130	Nos.			
99.0	NS	4C x 4Sqmm Cu XLPE Cable			8	Nos.			
99.1	NS	4C x 2.5Sqmm Cu XLPE Cable			12	Nos.			
99.2	NS	3C x 6Sqmm Cu XLPE Cable			6	Nos.			
99.3	NS	3C x 4Sqmm Cu XLPE. Cable			18	Nos.			
99.4	NS	3C x 2.5Sqmm Cu XLPE. Cable			26	Nos.			
99.5	9.1.34	4 X 25 sq. mm (28mm)			8	Nos.			
99.6	NS	3C x 6Sqmm Cu Flex. Cable			14	Nos.			
100.0		EARTHING							

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
100.1	NS	Supply erection testing and commissioning of Maintenance Free Earthing system comprising of Earth Electrode Cu Bonded Steel Rod 14.2mm dia x 3000mm- (250Microns),Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) & 260 mm (height) ,;14.2 / OD SS Clamp Both Side;Eco Safe carbon based backfill compound - 50 Pounds;and suitable clamp, as per IS 3043. CPRI test report should be produced at the time of supply including the inspection chamber,	17	Set				
100.2	NS	Supply erection testing and commissioning of Maintenance Free Earthing system comprising of Earth Electrode Cu Bonded Steel Rod 25mm dia x 3000mm- (250Microns);Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) & 260 mm (height) ,;25 / OD SS Clamp Both Side;Eco Safe carbon based backfill compound - 50 Pounds;and suitable clamp, as per IS 3043. CPRI test report should be produced at the time of supply including the inspection chamber,	3	Set				
100.3	NS	Supply and laying 50mm x 6 mm GI strip at 0.5m 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 GI nut bolt & spring washer spaced 50mm). (including exothermic welding)	100	Metre				
100.4	NS	Supplying, laying and connecting 50 x 6 mm. GI Flat laid in open fashion with necessary clamps,screws, interlinks etc for Body Earthing of DG Set, Main Earth Link etc.,	100	Metre				
100.5	NS	Supplying, laying and connecting 25x 3 mm. Cu Flat laid in open fashion with necessary clamps,screws, interlinks etc for Neutral Earthing of DG Set	40	Metre				
100.6	NS	Supplying, laying and connecting 40 x 6 mm. GI Flat laid in open fashion with necessary clamps,screws, interlinks etc for Body Earthing of DG panel	40	Metre				
100.7	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	750	Metre				
100.8	NS	Supplying, laying and connecting 25 x 3 mm. GI Flat laid in open fashion with necessary clamps,screws, interlinks etc for Body Earthing of Lift & Sub panel Etc.,	1600	Metre				
100.9	NS	Supply and Laying of 1C x 4.00 mm dia FRLS PVC insulated copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required. (Flat Earthing)	2300	Metre				
100.10	5.19	Providing and fixing 4.00 mm dia (8SWG) copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required. (Flat Earthing)	450	Metre				
100.11	NS	Supplying, laying and connecting 25 x 3 mm. 300mm Cu Flat AS EARTH LINK with necessary holes, complete set	2	Set.				
100.12	NS	Supplying, laying and connecting 50 x 6 mm. 500mm GI Flat AS EARTH LINK with necessary holes, complete set	4	Set.				
100.13	NS	Supplying, laying and connecting 25 x 6 mm. 400mm GI Flat AS EARTH LINK with necessary holes, complete set	8	Set.				
100.14	NS	Supplying, laying and connecting 25 x 3 mm. 400mm GI Flat AS EARTH LINK with necessary holes, complete set	6	Set.				
101.0		SAFETY EQUIPMENTS						
101.1	NS	Supplying, erecting and connecting Treatment Chart in English and Local Language directly fixed on to the wall with necessary screws etc.	3	Set				
101.2	NS	Supply and providing 15" long rubber hand gloves 15kv.	1	Set				
101.3	NS	Supplying, and laying 2000 mm. x 1000 mm x 3 mm. thick 3.3kV ISI Marked Synthetic mats to be laid in Front of the Panel Boards.	12	Nos.				
101.4	NS	Supply & fixing of First aid box of containing full compliment of medicines, ointments & bandages etc.,	2	Nos.				
102		CABLE TRAY						
102.1		LADDER TYPE CABLE TRAY						
102.1.1	4.6	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.						
102.1.2	4.6.2	150 mm width X 50 mm depth X 1.6 mm thickness	275	Metre				
102.1.3	4.6.4	300 mm width X 50 mm depth X 1.6 mm thickness	210	Metre				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
102.1.4	4.6.6	450 mm width X 50 mm depth X 2.0 mm thickness	250	Metre				
102.1.5	4.6.7	600 mm width X 50 mm depth X 2.0 mm thickness	10	Metre				
102.2	4.7	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.						
102.2.1	4.7.2	150 mm width X 50 mm depth X 1.6 mm thickness	30	Each				
102.2.2	4.7.4	300 mm width X 50 mm depth X 1.6 mm thickness	25	Each				
102.2.3	4.7.6	450 mm width X 50 mm depth X 2.0 mm thickness	25	Each				
102.2.4	4.7.7	600 mm width X 50 mm depth X 2.0 mm thickness	1	Each				
102.3	4.8	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.						
102.3.1	4.8.2	150 mm width X 50 mm depth X 1.6 mm thickness	5	Each				
102.3.2	4.8.4	300 mm width X 50 mm depth X 1.6 mm thickness	5	Each				
102.3.3	4.8.6	450 mm width X 50 mm depth X 2.0 mm thickness	4	Each				
102.3.4	4.8.7	600 mm width X 50 mm depth X 2.0 mm thickness	1	Each				
102.4	4.9	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.						
102.4.1	4.9.2	150 mm width X 50 mm depth X 1.6 mm thickness	2	Each				
102.4.2	4.9.4	300 mm width X 50 mm depth X 1.6 mm thickness	2	Each				
102.4.3	4.9.6	450 mm width X 50 mm depth X 2.0 mm thickness	2	Each				
102.4.4	4.9.7	600 mm width X 50 mm depth X 2.0 mm thickness	1	Each				
102.5	4.6	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required						
102.5.1	4.6.2	150 mm width X 50 mm depth X 1.6 mm thickness	30	Metre				
102.5.2	4.6.4	300 mm width X 50 mm depth X 1.6 mm thickness	30	Metre				
102.6		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.						
102.6.1	4.2.2	150 mm width X 50 mm depth X 1.6 mm thickness	2	Each				
102.6.2	4.2.4	300 mm width X 50 mm depth X 1.6 mm thickness	2	Each				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
102.7	4.3	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.						
102.7.1	4.3.2	150 mm width X 50 mm depth X 1.6 mm thickness	1	Each				
102.7.2	4.3.4	300 mm width X 50 mm depth X 1.6 mm thickness	1	Each				
102.8	4.4	Supplying and installing following size of perforated painted with powder coating M.S. cable trays Cross Member 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.						
102.8.1	4.4.2	150 mm width X 50 mm depth X 1.6 mm thickness	1	Each				
102.8.2	4.4.4	300 mm width X 50 mm depth X 1.6 mm thickness	1	Each				
102.9	4.10	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.						
102.9.1	4.10.2	150 mm width X 50 mm depth X 1.6 mm thickness	2	Each				
102.9.2	4.10.4	300 mm width X 50 mm depth X 1.6 mm thickness	2	Each				
102.9.3	4.10.6	450 mm width X 50 mm depth X 2.0 mm thickness	2	Each				
102.9.4	4.10.7	600 mm width X 50 mm depth X 2.0 mm thickness	1	Each				
102.9.5	NS	Supply & Installation of 150mmx 100mm Powder coated Trunking 1.6mm thick with cover to be used for running the wires/cables near the DB locations.	50	Metre				
103.0		RAW POWER WIRING						
	1.14	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.						
103.1	1.14.2	2 x 2.5 sq.mm + 1x 2.5 sq.mm earth wire	3750	Metre				
103.2	1.14.3	2 x 4 sq.mm + 1x 4 sq.mm earth wire	22000	Metre				
103.3	NS	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 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	800	Nos.				
103.4	NS	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.	2400	Nos.				
103.5	NS	Supply and Fixing of 25 AMPS Socket combined in 1.0 mm. thick in Manufacturer's mounting box fixed flush with the wall for AC	340	Nos.				
103.6	NS	Supply and Fixing of 32 AMPS Switched Socket combined in 1.0 mm. thick in Manufacturer's mounting box fixed flush with the wall for Geysers	265	Nos.				
103.7	NS	Supplying and fixing 32 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 32 amps 'C' series, SP, MCB in sheet steel enclosure on surface or in recess, with chained metal cover for the socket outlet and complete with connections testing and commissioning etc, as required.	15	Nos.				
103.8	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.						
103.8.1	1.50.1	Upto 450 mm sweep	70	Each				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
103.8.2	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	70	Each				
104.0		LIGHT POINT WIRING						
104.1		Mains Wirng (DB to Switch Board & DB to First Point)						
104.1.1	1.14	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.						
104.1.2	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	14500	Metre				
105.0		POINT WIRING						
	NS	Supply and 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 including 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.						
	NS	Group A	1950	Points				
106.0		Secondary Points						
	1.55	Supply and 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 including surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.						
106.1	1.55.1	Group A upto 3 Mtrs	575	Points				
106.2	1.55.2	Group B upto 6 Mtrs	70	Points				
106.3	1.55.3	Group C upto 8 Mtrs.	65	Points				
107.0		NS						
	NS	Supply and 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 including 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.						
	NS	Group C	85	Nos.				
108.0	NS	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 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	135	Nos.				
109.0	NS	Wiring for two light controlled by 2way switch 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 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Two Light Controlled by 2Way Switch)	135	Nos.				
110.0	NS	Wiring for ceiling fan controlled by 2way switch 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 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (One Ceiling Fan Controlled by 2Way Switch)	198	Nos.				
111.0	NS	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.	600	Nos.				
112.0	NS	Supplying and fixing GI box with modular plate and cover in front on surface or in recess, including providing and fixing two module stepped type electronic fan regulator, 6A modular Switch connections etc. as required. complete set	540	Each				
113.0	NS	Supply and fixing of Ceiling Fan Box & Hook with necessary accessories	540	Each				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
114.0	NS	Supply and fixing of 4Way connector Box with IP67 rated enclosure	60	Each				
		12W Surface mounted LED light, System+A488 Efficacy : >110 lm/W F508:G518						
115.0		PVC/MS CONDUIT						
115.1	1.20	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.						
	1.20.2	25 mm	150	Metre				
115.2	1.21	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.						
	1.21.3	32 mm	2800	Metre				
116.0		HUME /GI PIPE						
116.1	14.13	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required						
	14.13.3	100 mm dia	100	Metres				
116.2	14.14	Providing, laying and fixing following 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.						
116.2.1	14.14.2	150 mm dia	130	Metres				
116.2.2	14.14.3	250 mm dia	50	Metres				
116.2.3	14.14.4	300 mm dia	50	Metres				
117.0		LIGHT FIXTURES						
		Supply Installation testing and commissioning of light fixtures						
		The light fixtures shall be complete with electronic ballast, lamp holder, lamps, starters, condenser to improve power factor etc duly wired up for use on 240V single phase 50 Hz AC supply. All fittings should be fitted with electronic ballast of THD less than 10%						
117.1	NS	12W Surface mounted LED light, System Efficacy : >110 lm/W (Basic Price of light fixture should be not less than Rs.1600)	115	Nos.				
117.2	NS	LED wall washer light 12W, System Efficacy : >100 lm/W (Basic Price of light fixture should be not less than Rs.1300)	105	Nos.				
117.3	NS	Wall Light , 20W System Efficacy : >100 lm/W (Basic Price of light fixture should be not less than Rs. 3000)	13	Nos.				
117.4	NS	9W LED Bulk Head light, System Efficacy : >120 lm/W (Basic Price of light fixture should be not less than Rs. 800)	310	Nos.				
117.5	NS	20W LED Batten System Efficacy : >115 lm/W (Basic Price of light fixture should be not less than Rs.300)	60	Nos.				
117.6	NS	Wall Light 20W System Efficacy : >100 lm/W (Basic Price of light fixture should be not less than Rs.2200)	950	Nos.				
117.7	NS	Ceiling Light 12W , System Efficacy : >115 lm/W (Basic Price of light fixture should be not less than Rs.1450)	1150	Nos.				
117.8	NS	Mirror Light 10W System Efficacy : >100 lm/W (Basic Price of light fixture should be not less than Rs.350)	260	Nos.				
117.9	NS	Chandler Light (Basic Price of light fixture should be not less than Rs.10000)	65	Nos.				
117.10	NS	12W Surface mounted LED light with motion sensors System Efficacy : >110 lm/W (Basic Price of light fixture should be not less than Rs.1500)	215	Nos.				
117.11	NS	20W LED Street Light with Black Mounting Pole Pick Arm for Street Light Aluminum Alloy LED Light Mounting Bracket to fix the light etc., system Efficacy : >120 lm/W (Basic Price of light fixture should be not less than Rs.3800)	50	Nos.				
117.12	NS	Gate Light -15W system Efficacy : >100 lm/W (Basic Price of light fixture should be not less than Rs.4200)	8	Nos.				
118.0		JUNCTION BOX / ISOLATORS						
		Supply erection testing and commissioning of junction box of following specification complete set for street light fixtures.						

Name of the Vendor/Company									
SL.NO	DSR CODE	DESCRIPTION			Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words
118.1	NS	6Way 16A Terminals in weather proof thermo plastic box with 3Nos. Of cable gland suitable for 3C x 4Sqmm Cables			25	Nos.			
118.2		Supply erection testing and commissioning of isolator in a sheet steel enclosure to be fixed near by the equipment in wall with all accessories complete as per following specification							
118.2.1	NS	63A 4P Isolator MCB Type			2	Nos.			
118.2.2	NS	40A 4P Isolator MCB Type			2	Nos.			
118.2.3	NS	32A 4P Isolator MCB Type			2	Nos.			
118.2.4	NS	32A DP Isolator MCB Type			9	Nos.			
118.2.5	NS	315A TPN Isolator (MCCB Type) with IP55 Protection			1	Nos.			
118.2.6	NS	32A 4P 100mA RCBO with IP65 Protection			6	Nos.			
118.3		Supplying, erecting 14 G thick MS Junction boxes with cover of 50 mm. height of suitable sizes as per Site conditions. The Ceiling/Floor Junction boxes shall be surface/recess with the floor/wall/ceiling (powder coated)							
118.3.1	NS	250mm x 250mm Junction Box			70	Nos.			
118.3.2	NS	200mm x 200mm Junction Box			60	Nos.			
118.3.3	NS	150mm x 150mm Junction Box			60	Nos.			
119.0		LIGHTNING PROTECTION SYSTEM							
		SECTION 1: AIR TERMINATION							
119.1	NS	Supply & Installation of 4 metre Vertical Aluminium Airterminal of dia 10 mm with Complete Supporting accessories selected as per angle of protection chart to meet the requirement of IS/IEC 62305 .Tested for Electrical ,Mechanical and Chemical as per IEC 62561. VAT 1 with mounting accessories on metal sheet(fixing bracket support)			4	Nos.			
119.2	NS	Supply & Installation of 2 metre Vertical Aluminium Airterminal of dia 10 mm with Complete Supporting accessories selected as per angle of protection chart to meet the requirement of IS/IEC 62305 .Tested for Electrical ,Mechanical and Chemical as per IEC 62561. VAT 1 with mounting accessories on metal sheet(fixing bracket support)			5	Nos.			
119.3	NS	Supply & Installation of 1 metre Vertical Aluminium Airterminal of dia 10 mm with Complete Supporting accessories selected as per angle of protection chart to meet the requirement of IS/IEC 62305 .Tested for Electrical ,Mechanical and Chemical as per IEC 62561. VAT 1 with mounting accessories on metal sheet(fixing bracket support)			1	Nos.			
119.4	NS	Supply & Installation of 8mm Aluminium alloy Solid Round Conductor of material AlMgSi used in air termination system . Cross sectional area of conductor should be 50 mm ² . Conductor is tested for Lightning Impulse current of 100 kA for 10/350 µs,Electrical Resistivity ,Tensile strength & Corrosion test as per IEC 62561-2. Parapet Conductor holder of UV resistance Nylon Holder for fixing on the Parapet wall for clamping 8 mm dia Aluminium alloy round Conductor.Metal Roof Conductor holder is considered on the metal surface. Terrace Conductor Holder is considered on the terrace Stainless steel cross connector for connecting 8 mm aluminium conductor at cross/Tee junction .Expansion Piece with connector to compensate the expansion and contraction of Solid Round Al. Conductor during temperature variations .Vertical air terminal is selected as per Angle of protection method confirming to IS/IEC 62305-3. Folded clamps are considered for Metal structures.All the connectors/clamps used in the air termination should be of Stainless Steel 304 grade material .All the Lightning Protection components are tested as per IEC 62561-1&2			800	Metre			
120.0		SECTION 2: DOWN CONDUCTOR SYSTEM							

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
	NS	Supply & Installation of 8mm dia Aluminium alloy Solid Round Conductor of material AlMgSi used in Down conductor system . Cross sectional area of conductor should be 50 mm ² . Conductor is tested for Lightning Impulse current of 100 kA for 10/350 μs,Electrical Resistivity ,Tensile strength & COrosion test as per IEC 62561-2. Parapet Conductor Holder for fixing on the Side wall for clamping 8 mm dia Aluminium alloy round Conductor in RCC building. Metal Roof Conductor Holder is considered on the metal wall .Lightning counter is required in the building and it will record number of lightning Strike in the building with date and time.Test joint with& without Enclosure is fixed in the building .All the Lightning Protection components are tested as per IEC 62561-1& 2	380	Metre				
121.0		SECTION 3: EARTHING SYSTEM						
121.1	NS	Supply & Installation of non corrosive 10 mm dia Copper bonded round conductor used for Earth termination in the soil and it is tested for Short circuit test ,Electrical resistivity ,Tensile strength .Conductor holder is fixed on the Side wall of the building. Lightning Protection components are tested as per IEC 62561-1& 2	100	Metre				
121.2	NS	Supply & Installation of UL listed Copper bonded rod of 254 microns coating thickness and 3.048 mtr length can be used as Earthing .The diametre of the rod shall be 14.2mm . Earth rod clamp of required size should be made up of copper bonded. Earth enhancement compound of 25kg producing low resistance below 10 Ω mtr of an earth termination system. Material of the earthing enhancing compound shall be chemically inert to subsoil. It shall not pollute the environment.The compound shall be tested and certified as per IEC 62561-7 .Earth Chamber Should have an outer dimension of 300 mmX 300 mm X 190 mm made of FRPmaterial.Flush Mounted, removable and lockable cover of the earth pit should be able to withstand 50kN. Lightning Protection components are tested as per IEC 62561-1& 2	14	Nos.				
122.0		CEILING FAN & EXHAUST FAN						
		Supply erection testing and commissioning of Fans of following specification						
122.1	NS	48" Ceiling fan (1200mm) Basic rate not less than Rs.2500 /each	270	Each				
122.2	NS	36" Ceiling fan (900mm) Basic rate not less than Rs.2500 /each	265	Each				
122.3	NS	400mm dia Wall Mounted Fan Basic rate not less than Rs.2000 /each	195	Each				
122.4	NS	200mm Exhaust Fan for Toilet Basic rate not less than Rs.1500 /each	198	Each				
122.5	NS	300mm heavy duty Exhaust Fan for Kitchen Basic rate not less than Rs.1800 /each	65	Each				
123.0		AVIATION LIGHT						
		Supply erection testing and commissioning of junction box of following specification complete set for street light fixtures.						
	NS	Supply, erection , testing & commissioning of Aviation Obstruction light ((ISI make) with required mounting accessories & needs to be mounted on the terrace floor above the LMR room , just below the Lightening arrester.	1	Set				
124.0		SOLAR SYSTEM						
	NS	ROOF TOP SOLAR PANEL -20KW ,Each20kW solar system with following specifications	3	Set				
		Mounting Structure						
		Aluminium structure fixed on to Non penetrative type concrete blocks. Blocks will be casting at site on existing terrace floor with Nitobond.						
		PV Solar Module						
		545 Wp Mono Perc PV solar Module. Module Wp(540~550Wp) -38Nos.						
		Solar Inverter						
		2 x 10 KW Three Phase String Inverter with Inbuilt Remote Monitoring & Canopy -1No.						
		DCDB : 2Nos.						
		2 in 2 Out DCDB with DC Fuses & Type-II SPD -1No.						
		ACDB : 2Nos.						
		1 in 1 Out ACDB with Type-II SPD, AC MCB -01 Nos.						
		ACDB : 1Nos.						
		2 in & 1 Out ACDB with , AC MCB -03 Nos.						
		DC Cables						
		1C x 4 Sq.mm DC solar Cu. Cable - 1Lot						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		AC 1.1KV LT Cable						
		1.1 KV 3.5C X 25 sq. mm AC Al arm XLPE Cable -1Lot						
		Earthing System						
		Supply erection testing and commissioning of Maintenance Free Earthing system comprising of Earth Electrode Cu Bonded Steel Rod 14.2mm dia x 3000mm- (250Microns);Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) & 260 mm (height) ,;14.2 / OD SS Clamp Both Side;Eco Safe carbon based backfill compound - 50 Pounds;and suitable clamp, as per IS 3043. CPRI test report should be produced at the time of supply including the inspection chamber, : 5Nos.						
125.0		200KVA DG Set						
	NS	Supply erection testing and commissioning of 200kVA DG set of following specifiaton.						
		160 KW/200 KVA Prime Power Rated Radiator cooled Type Diesel generating Set at 1500 RPM Coupled with Alternator Rated at 160 KW/200 KVA, 415 V, Mounted on a Channel Iron Base Frame, Residential Silencers Flexible Bellows First Fill of Lube Oil Radiator Coolant Pulselite Batteries Set of Foot Mounted AVM Pads Engine Controller Radiator Control Panel along with Acoustic Enclosure for outdoor application along with built in fuel tank etc., The DG set will be with AMF Panel for auto start and stop of DG set. (Including the control wiring between DG Set and common Area Panel. Approximate length between DG set and Common Area panel will be 20Mtrs.) - For detailed specification, please refer techncial specification	1	Set				
		TOTAL AMOUNT FOR ELECTRICAL WORKS						
IV		ELV WORKS						
126.0		TV & TELEPHONE SYSTEM						
126.1		TELEPHONE DISTRIBUTION BOXES						
		Supply erection testing and commissioning of distribution frames/Boxes with following specification the distribution should be all accessories complete.						
126.1.1	NS	Main Distribution Frame -100 Pair Box with connectors	1	Each				
126.1.2	NS	Main Distribution Frame -50 Pair Box with connectors	1	Each				
126.1.3	NS	Sub Distribution Frame - 10 pair Box with connectors	26	Each				
127.0		TELEPHONE CABLES						
	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
127.1.1	1.18.2	2 Pair	2600	Metre				
127.1.2	NS	10Pair unarmoured Telephone cables	1250	Metre				
127.1.3	NS	50Pair unarmoured Telephone cables	200	Metre				
127.1.4	NS	100Pair Telephone Armoured cables	20	Metre				
128.0		TV CABLE						
	1.19	Supplying and drawing co-axial TV cable 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.	2500	Metre				
129.0		PVC Conduit						
	1.21	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.						
129.1	1.21.1	20 mm	5200	Metre				
129.2	1.21.2	25 mm	15000	Metre				
130.0		TELEPHONE / TV SOCKETS						
	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
130.1	1.24.6	Telephone socket outlet	600	Each				
130.2	1.24.7	TV antenna socket outlet	270	Each				
130.3	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	870	Each				
130.4	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc.as required.						
130.5	1.27.1	1 or 2 Module (75mmX75mm)	870	Each				
131.0		TV SPLITTER BOXES						
	NS	Supply erection testing and commissioning of distribution frames/Boxes with following specification the distribution should be all accessories complete. 4Way TV Splitter Box	65	Each				
132.0		EPABX Intercom System						
	NS	Supply erection testing and commissioning of EPABX Intercom System suitable for 100 Lines	1	Set				
133.0		Supply, Installation,Testing Commissioning of IP Based CCTV System comprising of following:						
133.1	NS	Indoor Dome camera ensure 2560x1920 resolution, 2 Mega pixel ,IR camera (Day/ True Night) 2.8mm to 12mm varifocal lens with necessary mounting accessories -IP based (BIS/ UL & CE certified). Minimum distance of coverage should be 12 to 15 Metres	36	Nos				
133.2	NS	Indoor Bullet colour camera ensure HD 1080P resolution, 2 Mega pixel ,IR Camera(Day/True Night) 2.8mm to 12mm varifocal lens with IP Enclosure and necessary mounting support accessories -IP based (BIS/ UL & CE certified) . Minimum distance of coverage should be 12 to 15 Metres	1	Nos				
133.3	NS	Outdoor Bullet colour camera ensure HD 1080P resolution, 2 Mega pixel ,IR Camera(Day/ true Night) 2.8mm to 12mm varifocal lens with IP Enclosure and necessary mounting support accessories -IP based (BIS/ UL & CE certified).. Minimum distance of coverage should be 12 to 15 Metres Add BLC & HLC	10	Nos				
133.4		Outdoor PTZ Camera: Supply, Installation, Testing & Commissioning of IP Network TDN Low-Light PTZ Camera with auto tracking, 1/2.8" Progressive scan CMOS, 2 MP, 1920 x 1080 at 60fps, 4.8 mm to 153 mm, 32x Optical, 16x digital zoom, Color: 0.005 Lux at F1.6, B/W: 0.001 Lux at F1.6, ICR, ONVIF, support H.265,MJPEG, 120 dB WDR, 3D Digital Noise Reduction, HLC, BLC, Defog, EIS, Tripple individually configurable stream, 24 VAC & Hi PoE, IR range: 150m, Pan: 360° endless, Tilt: From -15° to 90° (auto-flip), Pan Speed - from 0.1°/s to 160°/s, Preset Speed: 240°/s, Tilt Speed- from 0.1°/s to 120°/s, Preset Speed: 200°/s, Presets- 300, Alarm Input-2-ch alarm input, Alarm Output-1-ch alarm output, Audio-1 channel input & output, Support on-board storage up to 256 GB (SD card not included),PoE, H.264 High Profile and MJPEG, PoE Class 5 and 12V DC/24VAC, IP 67, IK 10 vandal proof, Having Operating temp range :-10°C to 65° C. Certifications: ONVIF Profile S compliant, UL, CSA 60950-22, CE (EN 50130-4 & EN 55022) , FCC Part 15 & RoHS compliant. Rate shall inclusive of Power supply unit with battery backup of 12 hrs with weather proof enclosure , Surge arester, surge protector and FOC cable terminations(FOC patch cord) as required. (BIS/ UL & CE certified)	5	Nos				
134.0		NVR & Display						
134.1	NS	Network Video Recorder(32 CH NVR),H.264,25 fps viewing, pentaplex, configured for 30days recording storage at HD resolution, with required number of surveillance harddisk, USB backup, Video monitoring Software Supporting 32 cameras (BIS/ UL & CE certified).	2	Nos				
134.2	NS	Supply, Installation, Testing & Commissioning of 55 inch full HD LED monitor with resolution 1920X1080 pixel including wall mounting accessories .Material shall be (BIS/ UL & CE certified).	2	Nos				
135.0		CABLE						
135.1	NS	Supply, Installation, Testing & Commissioning of 24 port POE switch Manage Switches IP multicast snooping and data-drive with SFP ports with necessary mounting rack, accessories & power supply as complete as required	3	Nos				
135.2	NS	Supply, Installation, Testing & Commissioning of 8 port POE switch Manage Switches IP multicast snooping and data-drive with SFP ports with necessary mounting rack, accessories & power supply as complete as required	1	Nos				
	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
135.3	1.53.1	1 run of cable	1100	Metre				
136.0	1.21	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.						
	1.21.2	25 mm	1100	Metre				
137.0		Supply, Installation, Testing & Commissioning of 24U Rack with shelves, PDUs, fan trays and all other necessary accessories for mounting CCTV System as complete as required	1	No				
138.0		FIRE ALARM PANEL Supply, Installation, Testing & Commissioning of Microprocessor based Intelligent Analog Addressable Type 3 Loop Fire Alarm Control Panel with with auto dailer with 160 character LCD display, four access level. 1000 event historic logging, flash EPROM sufficient numbers of programmable relay control, 240V DC standby & Battery backup/battery charger minimum of 24 hrs (please provide battery calculations), auto dialer, The FACP shall have provision of Minimum 2 loop expansion, FA panel should have a provision for Tenant FACP Panel integration.The FACP shall be networkable type. The FACP loops is designed considering 125 detectors &125 devices per loop and Eachloop is loaded 80%.	1	No.				
139.0		DEVICES						
139.1		Isolator Module: Supply, Installation, testing and commissioning of Isolator Module with indicating lamp, mounting base and all other mounting accessories complete as required.	3	Nos				
139.2		Manual Call Points: Supply, Installation, testing and commissioning of Intelligent Addressable Manual Call Points with indicating lamp, mounting base and all other mounting accessories complete as required.	35	Nos				
139.3		Control Module for Hooter : Supply, Installation, testing and commissioning of Addressable Control Modules for activating hooters with all the mounting accessories complete as required.	35	Nos				
140.0		NOTIFICATION DEVICES						
		Hooters: Supply, Installation, testing and commissioning of ceiling type Hooters with all mounting accessories complete as required.	50	Nos				
141.0		CABLES						
		Supply, wiring, testing and commissioning of ISI Certified 2Cx1.5 sq.mm, twisted shield, FRLS type, armored double insulated copper cable with Ferrules, Lugs, saddles, saddles base & other accessories complete as required. The cable specification shall meet FACP & detectors manufacturer requirement. (Including hooter cabling)	1750	Mtr				
142.0		OTHER EQUIPMENTS						
		Any additional items required can be considered under this item						
		Supply, Installation, testing and commissioning of DC Regulated Power Supply, 230 to appropriate 24 Volts requirement of Hooters	1	Lot				
		TOTAL AMOUNT FOR ELV WORKS						
V		FIRE FIGHTING SYSTEM WORKS						
143.0		DOWN COMER SYSTEM						
	NS	Supply, installation, testing and commissioning of Terrace Fire Pump comprising of the following:	2	Nos.				
		Horizontal mono-block centrifugal pump, suitable for operation on 415 volts ± 6%, 3 phase, 50 HZ A.C supply.						
		The pump casing shall be CI, shaft shall be CS & impeller / shaft sleeve / casing wearing ring shall be bronze and with Mechanical seal . The system shall be complete with necessary pressure gauge with gun metal shut off cock on delivery side.						
		Squirrel cage induction motor TEFC type for operation on 415 V, 3 phase 50 HZ AC supply for the above pump with speed of 2900 R.P.M.						
		c. Common base plate M.S. Channel for required size.(The vendor provide the required MS channel size after the pump finalization based on the product recommended GA Drawing						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		d. Suitable cement concrete foundation with cement concrete plaster (design and drawing to be provided by the Contractor while the foundation will be done by others) complete with anti-vibration arrangement of cushy foot mountings and provide necessary earthing as per IS standard						
		Flow : 900 LPM						
		Head : 50mts						
	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	15	Metre				
144.0		Supply, laying and termination (including lugs and glands) of heavy duty Aluminium armored cables 1.1 KVA grade including necessary support ,clamps and Cable tray and all other required accessories completely.						
	NS	4c x 25 Sqmm Al.Ar.FS Cable	50	Metre				
145.0	NS	Supply & fixing dial type (100 mm) pressure gauge with isolation valve of 15mm dia suitable for working pressure of 250PSI. Cost shall be inclusive of fittings etc as required.	2	Nos				
146.0	NS	Supply, Installation, Testing & Commissioning of MS pipes of HEAVY class, ERW, conforming to IS: 1239 for pipes up to 150mm dia. And IS:3589 for pipes above 150mm dia. CompleteMS Channels, with fittings, reducers, Elbow, Tees, high tech supports, structural clamps such as rods, channels, angles, nuts, bolts as required to be firmly mounted on the steel structural members, concrete ceiling as required at site, rings, clips, hangers, brackets, fasteners, clamps for beam, purling etc. miscellaneous consumables and Painting of the aboveground Galvanized Iron pipess/valves with one coat of metal primer and two coat of fire red enamel paint of approved quality						
a		100 mm dia	155	Metre				
b		80 mm dia	42	Metre				
147.0	NS	Supply, installation, testing and commissioning of pipe in below ground of following sizes of MS class 'C' (heavy class) pipes conforming to IS:1239 part-1 with accessories like all fittings including soil excavation for all type of soil,refilling & removing excess soil from site.						
		100 mm dia	50	Metre				
148.0	NS	Supply and wrapping of Coating & Wrapping Materials manufactured as per IS 10221 (make:Pypkote) 4mm thick for underground Pipes as per specification Steel pipelines to be laid underground buried in the soil shall be protected against corrosion by means of coating & wrapping as per IS:10221. The above coating and wrapping shall be carried out in systematic manner such that uniform thickness of coating is obtained as per IS specification. Buried pipelines shall be laid in general with top of pipe 1(one) meter below the ground level. Where soil conditions are not satisfactory, masonry or equivalent supports shall be provided at regular intervals.	50	Metre				
149.0	NS	Supply, Installation, Testing & Commissioning of Cast iron body Butterfly Valve, of PN 10 pressure rating complete with matching flanges ANSI class # 150 with bolts & nuts etc. (Non Rising Spindle) Location : 2way Brigade ,Terrace level EachShaft Connectivity & Terrace Pump suction & Delivery Header						
		100 mm dia	9	Nos.				
150.0	NS	Supply, Installation, Testing and Commissioning of dual plate flanged type Cast iron NRV of PN10 pressure rating complete with required flanges, nuts, bolts and gaskets etc. Location : 2way Brigade & Terrace Pump Delivery Header						
		100mm dia	4	Nos.				
151.0	NS	Providing & fixing SS fire hydrant single landing valve with 80 mm NB. flanged inlet, brass spindle controlled 63 mm dia female instantaneous outlet type. SS coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS standards with ISI mark. Including fixing with anchor fastner and flanged tapping from Down comer	21	Nos				

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
152.0	NS	Supplying & fixing non-percolating rubber reinforced lined fire hose pipe (as per IS : 636) type-B of 63 mm dia and 15m length as described below. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked brass male & female coupling (IS:903) bound & rivetted to hose pipe with copper rivets & 1.5 mm copper wire. Cost shall be inclusive of MS channel to support hose reel inside the fire shaft	42	Nos				
153.0	NS	Providing and fixing SS 63 mm dia instantaneous pattern ISI mark branch short pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required. Cost shall be inclusive of MS channel to support branch pipe inside the fire shaft	21	Nos				
154.0	NS	Providing & fixing swinging type First Aid hose reel in red colour drum with 36 mts long and 20 mm dia heavy duty rubber water hose, 20 mm dia gate valve stop cock, (IS:778, class - II) terminating with G.M. coupling & nozzle of 6mm outlet with shut off valve conforming to IS 8090 - 1976 complete with MS socket for tap-off, drum and brackets (including painting) for fixing on wall with anchor fastner, bolts & nuts conforming to IS:884-1985 (Reaffirmed 2000) complete as required.	21	Nos				
155.0	NS	Supplying and fixing standard firemans axe with heavy rubber handle and Axe holder.	21	Nos				
156.0	NS	Supply, Installation, Testing & Commissioning of Air Release valve of 25 NB. Cost shall be inclusive of ball valve with all necessary fittings.	2	Nos				
157.0	NS	Supplying, installing and commissioning of fire brigade inlet connection of 2 way with 2 Nos. 63 mm dia. built - in Gun metal Non- return valves as per IS 5312 instantaneous coupling type arranged on 100 mm dia with blank caps	2	Nos				
158.0	NS	Supply, installation, testing and commissioning of 100mm dia PN 10 Pressure CI "Y" strainer with SS screen including flanges, bolts, nuts, washers, gaskets etc.	2	Nos				
159.0		Supply, erection testing & commissioning of Pressure switch with necessary accessories / fittings to complete the job	1	each				
160.0		Supply, erection testing & commissioning GM Ball Valve with necessary accessories / fittings to complete the job						
a		15mm	2	Nos				
b		25mm	2	Nos				
161.0		Supply, erection testing & commissioning of booster pump panel with all necessary fittings to complete the job	1	each				
		FIRE EXTINGUISHERS						
162.0		Supply, installation, testing and commissioning of following types of extinguisher of halogen free with provision of wall bracket (fixed with anchor fastner)						
162.1	NS	Supply and installation of ABC (Powder Type) Fire Extinguisher capacity 4Kg . In HP Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged with ABC powder (Mono Ammonium Phosphate) pressured by Nitrogen complete in all respects including wall suspension bracket and conforming to IS:1349-1993.	31	Nos				
162.2	NS	Supply, Installation, Testing & Commissioning of CO2 type Fire Extinguisher 4.5kg(2set) ISI marked (IS:2878) Fire Extinguisher, Carbon-di-oxide type capacity 4.5 Kg Flat base including valve, discharge hose of not less than 10 mm dia, 1M long and complete in all respects including initial fill with CO2 gas conforming to IS:307-1966 filled to a filling rate of not more than 0.667 and wall suspension bracket.	6	Nos				
162.3	NS	Supply, Installation, Testing & Commissioning of Mechanical Foam type capacity of 9 lit fire extinguisher.	2	Nos				
162.4	NS	Providing Round bottom FIRE Bucket of 9 Litres capacity as per IS : 2546 made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand/ wall hook. Cost shall be inclusive of providing MS stand for 2 Nos of fire buckes, or , duly painted over a coat of primer.	4	Nos				
		FIRE SAFETY SIGNAGES						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
163.0		Providing and installing in position the following type of sign boards made out of 3mm thick rigid PVC board with computer cut with texts written to recommended height in photoluminescent material complete vide technical specifications with mirror fasteners. Sizes and mounting height of the board shall be as per technical specification.						
163.1	NS	Signage with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground.The size of the board shall be 25cm x 30 cm and shall be fixed at the height of 2 mts. from finished floor near Manual call points.Auto Glo	18	Nos				
163.2	NS	Providing and fixing in position the signage's " FIRE ORDER"r on 3mm thick "Opaque" PVC foam board of computerized cut, PVC non-reflective self adhesive vinyl painted foam board of 750mm x 450mm.	18	Nos				
163.3	NS	Life safety related signage's (EXIT, DIRECTION ARROWS i.e., left ,right ,straight ,down up, Both way, Fire hydrant & hose reel,extinguisher & MCP etc)as per site condition. The size of the board shall be 10cm x 30 cm	56	Nos				
163.4	NS	Providing and installing in position the Assembly point to a recommended scale and at suggested locations 12"x12"	1	Nos				
163.5	NS	Providing and installing in position the Fire safety Plan to a recommended scale and at suggested locations 17" x 22"	8	Nos				
		TOTAL AMOUNT FOR FIRE FIGHTING WORKS						
VI		ELEVATOR WORKS						
164.0		8 PASSENGERS ELEVATOR : Supply, installation, testing & commissioning of electric traction type elevator of following capacities and type suitable for operation on 415 V, 3 phase, 50 Hz AC supply, having AC variable voltage and variable frequency type traction control, machine room less, speed of 1.2 Mtr/sec, electromagnetic brake system, simple operations, operating control panel with luminous buttons, overload warning indicator, battery operated alarm bell, LED type emergency light, intercom suitable for hook up to EPABX, infrared ray sensing door protection for full height, reverse phase relay on controller, fireman's switch at ground floor, digital car positions indicator in car and at all positions indicator in car and at all floors with Up/DOWN direction, all signal fixtures in stainless stell faceplates, light fixtures, ventilation fan, etc complete with all accessories including automatic rescue device in the event of power failure etc., Complete with necessary scaffolding, electrical panel, logic control panel and shaft lighting etc required for the erection of the elevators as required.						
		Machine Room Less Type with the traction motor placed on top of the hoistway and elevator shall be of gearless type complete as per technical specification, Simplex/Duplex full collective operation with/without attendant. Car/Hoistway Entrance, protected by stainless steel hairline doors and clear center /side opening for entrance at front side on all the serving floors, provided with matt finish stainless steel panel on all four side and ceiling complete as per specifications.						
		8 Passengers (Minimum) capacity (minimum 544 Kgs) 6 stops & 6 openings, Stilt +5 Floors for shaft size 1.75 x 1.70 mtr Total travel height is approximately 18 Mtr -	3.00	Nos				
		8 PASSENGERS ELEVATOR - TECHNICAL SPECIFICATIONS						
		Basic elevator data						
		Elevator Type	Passenger elevator					
		Product	IMoNospace					
		No of Units	1					
		Load & Capacity	544 kg or 8 persons					
		Speed	1.2 m/s					
		Stops & Openings	6 stops & 6 openings, Single entrance car					
		Travel height	18 m					
		Elevator Grouping	Duplex-Adjacent					
			Full Collective Control					
			Duplex Line shared Lcs					
		Well Dimension	1750 mm width and 1700 mm depth (required)					
		Head Room height	4000 mm (required)					
		Pit Height	1500 mm (required)					
		MAP Floor Position	Topmost floor (TOP)					

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		Car dimensions						
		1100 mm wide x 1300 mm deep x 2200 mm high						
		Door dimensions						
		800 mm wide x 2000 mm internal height						
		Door type						
		Two-panel centre opening Plain Panel						
		Finishes						
		Car design						
		SS silver brushed						
		Car Panel Finish						
		Brushed stainless SUS304						
		Handrail						
		Round Bend Handrail Silver stainless steel (ST4) at Rear Wall						
		Ceiling & Lighting						
		Integrated roof LS4 Brushed stainless steel SUS304 (ST4) Square						
		Spot Light LED						
		Flooring						
		20 mm recess for Granite						
		Silver brushed stainless steel AISI304 finishing (ST4)						
		Car Door						
		Finish Brushed stainless steel SUS304 (ST4)						
		Floor number						
		Floor Mark						
		01-06.						
		0, 1, 2, 3, 4, 5						
		Interfloor distance						
		Landing door material						
		3200 mm						
		Silver (ST4)						
		Car operating panel						
		1 Full Height ST4 - Silver Brushed St. St. AISI304 Silver brushed						
		StSt Segmented LCD display Square surface mounted Buttons with braille KDS90						
		Landing Signalization						
		Silver brushed stainless steel (ST4) 7 segment display Flush						
		Mounted Silver brushed StSt Square, surface mounted with braille KDS90						
		Features						
		Standard						
		Correction drive to next level						
		Emergency Alarm @ Main Floor						
		Car Call backwards						
		Overload function, constant indication/Buzzer						
		Bypass load Function						
		Auto Cut off Fan and Light						
		Manual Rescue Operation						
		Centralized Hoisting for lesser vibration and smooth travel						
		Pit Ladder						
		Micro movement Led Based Buttons						
		L.W.D. (Load Weighing Device)						
		Direction & Position Indicator In Car & Landing						
		Advanced Car Position Indication						
		Automatic Brake Test function every 11hours						
		Every run brake supervision						
		Phase reversal functioning						
		Signal Fixtures						
		+10% to -10% Voltage Fluctuation Withstanding Capacity						
		Door Close Button						
		Door Open Button						
		Car Emergency Light						
		Fireman Drive						
		Curtain of Light 169 Beams						
		Accurate Releveling, Automatic, Closed Door						
		E, With emerg.opening device						
		Additional						
		Emergency Rescue Device						
		2 Way Dedicated Intercom						
		Nudging service						

Name of the Vendor/Company								
SL.NO	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words	
		Attendant Service						
		Square Spot Light LED						
		B, 2 Hours Fire rated						
165.0		15 PASSENGERS ELEVATOR : Supply, installation, testing & commissioning of electric traction type elevator of following capacities and type suitable for operation on 415 V, 3 phase, 50 Hz AC supply, having AC variable voltage and variable frequency type traction control, machine room less, speed of 1.00 Mtr/sec, electromagnetic brake system, simple operations, operating control panel with luminous buttons, overload warning indicator, battery operated alarm bell, LED type emergency light, intercom suitable for hook up to EPABX, infrared ray sensing door protection for full height, reverse phase relay on controller, fireman's switch at ground floor, digital car positions indicator in car and at all positions indicator in car and at all floors with Up/DOWN direction, all signal fixtures in stainless stell faceplates, light fixtures, ventilation fan, etc complete with all accessories including automatic rescue device in the event of power failure etc., Complete with necessary scaffolding, electrical panel, logic control panel and shaft lighting etc required for the erection of the elevators as required.						
		Machine Room Less Type with the traction motor placed on top of the hoistway and elevator shall be of gearless type complete as per technical specification, Simplex/Duplex full collective operation with/without attendant. Car/Hoistway Entrance, protected by stainless steel hairline doors and clear center /side opening for entrance at front side on all the serving floors, provided with matt finish stainless steel panel on all four side and ceiling complete as per specifications.						
		Service Lift (1020 Kg) Minimum 15 passenger capacity with 6 stops & 6 opening Stilt +5 Floors for shaft size 1.98m x 2.50 mtr - Total travel height is approximately 18 Mtr	3.00	Nos				
		15 PASSENGERS ELEVATOR - TECHNICAL SPECIFICATIONS						
		Basic elevator data						
		Elevator Type	Passenger elevator					
		Product	IMoNospace					
		No of Units	1					
		Load & Capacity	1020 kg or 15 persons					
		Speed	1.0 m/s					
		Stops & Openings	6 stops & 6 openings, Single entrance car					
		Travel height	18 m					
		Elevator Grouping	Duplex-Adjacent					
			Full Collective Control					
			Duplex Line shared Lcs					
		Well Dimension	1980 mm width and 2500 mm depth (required)					
		Head Room height	4000 mm (required)					
		Pit Height	1500 mm (required)					
		MAP Floor Position	Topmost floor (TOP)					
		Car dimensions	1100 mm wide x 2150 mm deep x 2200 mm high					
		Door dimensions	900 mm wide x 2000 mm internal height					
		Door type	Two-panel centre opening Plain Panel					
		Finishes						
		Car design	SS silver brushed					
		Car Panel	Finish Brushed stainless SUS304					
		Handrail	Round Bend Handrail Silver stainless steel (ST4) at Rear Wall					
		Ceiling & Lighting	Integrated roof LS4 Brushed stainless steel SUS304 (ST4) Square					
			Spot Light LED					
		Flooring	20 mm recess for Granite					
			Silver brushed stainless steel AISI304 finishing (ST4)					
		Car Door Finish	Brushed stainless steel SUS304 (ST4)					
		Floor number	Floor Mark					
		01-06.	0, 1, 2, 3, 4, 5					
		Interfloor distance	Landing door material					
		3200 mm	Silver (ST4)					
		Car operating panel	1 Full Height ST4 - Silver Brushed St. St. AISI304					
			Silver brushed					

Name of the Vendor/Company									
SL.NO	DSR CODE	DESCRIPTION			Qty	Unit	Rate in Figures	Amount in Figures	Amount in Words
			StSt Segmented LCD display Square surface mounted Buttons with braille KDS90						
		Landing Signalization	Silver brushed stainless steel (ST4) 7 segment display Flush						
			Mounted Silver brushed StSt Square,surface mounted with braille KDS90						
		Features							
		Standard	Correction drive to next level						
			Emergency Alarm @ Main Floor						
			Car Call backwards						
			Overload function, constant indication/Buzzer						
			Bypass load Function						
			Auto Cut off Fan and Light						
			Manual Rescue Operation						
			Centralized Hoisting for lesser vibration and smooth travel						
			Pit Ladder						
			Micro movement Led Based Buttons						
			L.W.D. (Load Weighing Device)						
			Direction & Position Indicator In Car & Landing						
			Advanced Car Position Indication						
			Automatic Brake Test function every 11hours						
			Every run brake supervision						
			Phase reversal functioning						
			Signal Fixtures						
			+10% to -10% Voltage Fluctuation Withstanding Capacity						
			Door Close Button						
			Door Open Button						
			Car Emergency Light						
			Fireman Drive						
			Curtain of Light 169 Beams						
			Accurate Releveling, Automatic, Closed Door						
			E, With emerg.opening device						
		Additional	Emergency Rescue Device						
			2 Way Dedicated Intercom						
			Nudging service						
			Attendant Service						
			Square Spot Light LED						
			B, 2 Hours Fire rated						
		TOTAL AMOUNT FOR ELEVATOR WORKS							
		Grand Total (of all components)							