

COCHIN PORT AUTHORITY

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Tender No: T10/T-1992/2023-C

Name of Work : Developing and Upgrading an existing Warehouse Building at North End of W/Island in Cochin Port to Green Warehouse

SCHEDULE – “II”- SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT

Name and Address of the Vendor:

Sl. No.	Sub- heads and items of work	Unit	Approximate Quantity	Departmental Rate/ unit Price (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
Part- A Civil works							
I. Maintenance Works							
1	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared etc complete as directed by the Engineer-in-charge	m ²	770.00	8.70	Rupees Eight and Seventy Paise Only	6,699.00	Rupees Six Thousand Six Hundred Ninety Nine Only
2	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete as directed by the Engineer-in-charge	m ²	3,103.00	19.30	Rupees Nineteen and Thirty Paise Only	59,887.90	Rupees Fifty Nine Thousand Eight Hundred Eighty Seven and Ninety Paise Only
3	Providing 12 mm thick plastering with cement mortar 1:4 (1cement : 4sand) for walls, trowelled hard including scaffolding, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	776.00	362.70	Rupees Three Hundred Sixty Two and Seventy Paise Only	2,81,455.20	Rupees Two Lakh Eighty One Thousand Four Hundred Fifty Five and Twenty Paise Only
4	Dismantling the damaged steel glazed ventilators etc. complete and stacking within 50 metres lead of area as per the directions of Engineer-in-charge	No.	40.00	373.10	Rupees Three Hundred Seventy Three and Ten Paise Only	14,924.00	Rupees Fourteen Thousand Nine Hundred Twenty Four Only
5	Dismantling of damaged rolling shutters including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres as per the directions of Engineer-in-charge	m ²	3.00	510.50	Rupees Five Hundred Ten and Fifty Paise Only	1,531.50	Rupees One Thousand Five Hundred Thirty One and Fifty Paise Only
6	Dismantling AC sheet roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 meters as per the directions of Engineer-in-charge	m ²	2,911.00	165.70	Rupees One Hundred Sixty Five and Seventy Paise Only	4,82,352.70	Rupees Four Lakh Eighty Two Thousand Three Hundred Fifty Two and Seventy Paise Only
7	Providing and fixing M S plates, 8mm thick to the steel columns to a height of 1m from the bottom for stiffening the columns including applying one coat of zynchromate primer, all materials and labour etc complete as per the directions of Engineer-in-charge	Kg	850.00	138.30	Rupees One Hundred Thirty Eight and Thirty Paise Only	1,17,555.00	Rupees One Lakh Seventeen Thousand Five Hundred Fifty Five Only
8	Jacketting steel columns using RCC M20 grade Reinforced cement concrete 150mm thick and 1m height form the base including cost of centering, shuttering, finishing etc complete but excluding reinforcement all as per the directions of Engineer-in-charge	m ³	6.00	19,627.10	Rupees Nineteen Thousand Six Hundred Twenty Seven and Ten Paise Only	1,17,762.60	Rupees One Lakh Seventeen Thousand Seven Hundred Sixty Two and Sixty Paise Only
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding etc complete as per the directions of Engineer-in-charge	Kg	450.00	113.50	Rupees One Hundred Thirteen and Fifty Paise Only	51,075.00	Rupees Fifty One Thousand Seventy Five Only

10	Supplying and fixing motorised G I rolling shutters of approved make, made of required size interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and top cover of required thickness for rolling shutters.10.6.1 80x1.25 mm and 1.25 mm thick top cover	m ²	49.00	6,962.00	Rupees Six Thousand Nine Hundred Sixty Two Only	3,41,138.00	Rupees Three Lakh Forty One Thousand One Hundred Thirty Eight Only
11	Providing and fixing factory made uPVC openable single/double leaf glazed door comprising of uPVC multi-chambered frame 67 x 64mm, sash 67 x 110mm and mullion(where ever required) with wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimensions having 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 each side 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. using uPVC extrusions of "FENESTA" make or its equivalent approved with height max. upto 2300 mm. Glazing shall be of 8 mm toughened clear glass. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. 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.)	m ²	65.00	8,804.90	Rupees Eight Thousand Eight Hundred Four and Ninety Paise Only	5,72,318.50	Rupees Five Lakh Seventy Two Thousand Three Hundred Eighteen and Fifty Paise Only
12	Supplying, fabricating and erecting in position Structural steel work (round, square or rectangular hollow tubes etc.) sections riveted, bolted or welded in truss work (Angle 50 x 50 x 6mm or other size runners) to the top of truss for holding the Galvalume sheets, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of Engineer-in-Charge.	Kg	8,100.00	138.30	Rupees One Hundred Thirty Eight and Thirty Paise Only	11,20,230.00	
13	Painting the existing steel columns/ stanchions & truss with synthetic enamel paint in two or more coats of approved brand, colour and manufacture to give an even shade after scrapping, sand papering, cleaning the surface etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	1,721.00	108.70	Rupees One Hundred Eight and Seventy Paise Only	1,87,072.70	Rupees One Lakh Eighty Seven Thousand Seventy Two and Seventy Paise Only
14	Painting rolling shutters with synthetic enamel paint in two or more coats on new work of approved brand, colour and manufacture to give an even shade etc. complete as per detailed specifications and directions of the Engineer-in-Charge	m ²	99.00	165.20	Rupees One Hundred Sixty Five and Twenty Paise Only	16,354.80	Rupees Sixteen Thousand Three Hundred Fifty Four and Eighty Paise Only
15	Providing and applying weather resistant premium quality 100% acrylic emulsion exterior finish paint of approved make and shade in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, applying putty for the entire surface, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	3,103.00	115.00	Rupees One Hundred Fifteen Only	3,56,845.00	Rupees Three Lakh Fifty Six Thousand Eight Hundred Forty Five Only
16	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 micron epoxy primer on both side of the sheet and polyester top coat 15-18microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto 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.	m ²	2,845.00	852.90	Rupees Eight Hundred Fifty Two and Ninety Paise Only	24,26,500.50	Rupees Twenty Four Lakh Twenty Six Thousand Five Hundred and Fifty Paise Only
17	Supplying and fixing 5mm thick polycarbonate solid fully corrugated coloured roofing sheets over the truss work including fixing sheets to the framework using special aluminium extrusions, applying silicon sealant wherever necessary so as to make the roof water tight at all heights as per manufacturers specifications etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ²	66.00	2,400.00	Rupees Two Thousand Four Hundred Only	1,58,400.00	Rupees One Lakh Fifty Eight Thousand Four Hundred Only

18	Providing and fixing pre-coated galvanised steel sheet ridge cap 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete .Ridges plain (500 - 600mm)	m ²	98.00	565.80	Rupees Five Hundred Sixty Five and Eighty Paise Only	55,448.40	Rupees Fifty Five Thousand Four Hundred Forty Eight and Forty Paise Only
19	Providing Aluminium Vertical Radial Exhust (Turbo Ventilator) 600mm dia with all accessories etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	No.	22.00	10,000.00	Rupees Ten Thousand Only	2,20,000.00	Rupees Two Lakh Twenty Thousand Only
20	Providing & fixing 300x300mm size type PVC Eaves Gutter of approved make for collecting roof water with necessary SS brackets with all necessary fittings and jointing of gutter in line, level and water proof joints including all materials, scaffolding, labour etc complete as per detailed specifications and directions of Engineer-in-charge.	m	90.00	797.50	Rupees Seven Hundred Ninety Seven and Fifty Paise Only	71,775.00	Rupees Seventy One Thousand Seven Hundred Seventy Five Only
21	Providing and fixing rain water down pipes with 110 mm O.D. PVC pipe (Type- A) conforming to IS : 13592, of approved make with necessary brackets, clips, special shoe etc. including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (Single socketed pipes) etc complete as per detailed specifications and directions of Engineer-in-Charge.	m	98.00	414.60	Rupees Four Hundred Fourteen and Sixty Paise Only	40,630.80	Rupees Forty Thousand Six Hundred Thirty and Eighty Paise Only
22	Providing and laying Plain cement concrete of M20 grade with 20 mm aggregates for raising the floor, properly mixed and consolidated with and rammers, including side shuttering, spreading, compacting, cost and conveyance of all materials, labour, etc. complete as per drawing, detailed specifications and direction of the Engineer-in-charge.	m ³	357.00	9,799.40	Rupees Nine Thousand Seven Hundred Ninety Nine and Forty Paise Only	34,98,385.80	Rupees Thirty Four Lakh Ninety Eight Thousand Three Hundred Eighty Five and Eighty Paise Only
23	Providing and laying 80mm thick Heavy duty Paver Blocks of M40 grade to line and level over 50mm thick cushion material using 6mm aggregates, including cost and conveyance of all materials, labour, compacting and levelling with mechanical vibrators etc. complete as per drawing, detailed specifications and direction of the Engineer-in-charge.	m ²	770.00	1,295.20	Rupees One Thousand Two Hundred Ninety Five and Twenty Paise Only	9,97,304.00	Rupees Nine Lakh Ninety Seven Thousand Three Hundred Four Only
2. Compound wall							
24	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete as per detailed specifications and directions of Engineer-in-Charge.	m ²	238.00	19.30	Rupees Nineteen and Thirty Paise Only	4,593.40	Rupees Four Thousand Five Hundred Ninety Three and Forty Paise Only
25	Pointing of the joints of the existing stone masonry wall and preparing the surface smooth including necessary repairs to scratches etc. complete as per detailed specifications and directions of Engineer-in-Charge.	m ²	60.00	387.99	Rupees Three Hundred Eighty Seven and Ninety Nine Paise Only	23,279.40	Rupees Twenty Three Thousand Two Hundred Seventy Nine and Forty Paise Only
26	Providing and applying weather resistant premium quality 100% acrylic emulsion exterior finish paint of approved make and shade in two coats over one coat of primer for walls to give a smooth and even shade including scaffolding, topping of all holes and depressions, applying putty for the entire surface, cleaning with sand paper etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	238.00	115.00	Rupees One Hundred Fifteen Only	27,370.00	Rupees Twenty Seven Thousand Three Hundred Seventy Only
27	Providing and laying Reinforced cement concrete of M20 grade for Platform including cost of all materials, labours, centering, shuttering, admixtures, vibrating, curing etc. complete but excluding reinforcement work as per drawings, detailed specification, and direction of Engineer-in-Charge.	m ³	5.00	10,876.50	Rupees Ten Thousand Eight Hundred Seventy Six and Fifty Paise Only	54,382.50	Rupees Fifty Four Thousand Three Hundred Eighty Two and Fifty Paise Only
28	Providing and fixing reinforcement using TMT/CRS/ ordinary quality HYSD bars of Fe500/Fe 415 grade for the RCC work including conveying, straightening, cutting, bending and tying in position etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	kg	625.00	113.50	Rupees One Hundred Thirteen and Fifty Paise Only	70,937.50	Rupees Seventy Thousand Nine Hundred Thirty Seven and Fifty Paise Only
29	Providing precast cement concrete solid block masonry for walls of 20 / 15 / 10cm thick with 1:2:4 (1 cement: 2 coarse: 4 graded stone aggregate 20mm nominal size) with factory made cement concrete blocks of size 300x200x150mm and 300x100x150 in cement mortar 1:3 (1 cement: 3 sand) including scaffolding, raking out and grooving of joints, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	m ³	3.00	10,194.00	Rupees Ten Thousand One Hundred Ninety Four Only	30,582.00	Rupees Thirty Thousand Five Hundred Eighty Two Only
3. Office Building							
30	Dismantling the existing dadoing and preparing the surface for new dadoing etc. complete as directed by the Engineer-in-charge	m ²	27.00	53.00	Rupees Fifty Three Only	1,431.00	Rupees One Thousand Four Hundred Thirty One Only

31	Providing and laying dadoing for walls with 600x600mm Vitrified tiles of approved shade, make of Johnson or Khajaria or Asian or Somany or Orient Bell with water absorption less than 0.08 % and conforming to IS:15622, including providing mortar bed in cement mortar 1:3, 12mm thick, fixing the tiles with cement slurry @ 3.3 kg/ sq m, grouting and finishing the joints with tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge.(The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m2	6.00	2100.9	Rupees Two Thousand One Hundred and Ninety Paise Only	12,605.40	Rupees Twelve Thousand Six Hundred Five and Forty Paise Only
32	Providing and laying vitrified floor tiles of size 600x600 mm or nearest available size of approved shade, make of Johnson or Khajaria or Asian or Somany or Orient Bell with water absorption less than 0.08 % and conforming to IS:15622 with true and square edges including providing mortar bed in cement mortar 1:4, 20mm thick, fixing the tiles with cement slurry @ 3.3 kg/ sq m, grouting and finishing the joints with tile jointing powder of same colour and cleaning etc. complete as per detailed specifications and directions of the Engineer in charge.(The purchase price of tiles shall be taken as Rs.120/sq.ft including all taxes)	m2	21.00	2039.3	Rupees Two Thousand Thirty Nine and Thirty Paise Only	42,825.30	Rupees Forty Two Thousand Eight Hundred Twenty Five and Thirty Paise Only
33	Providing and placing on terrace polyethylene rectangular water storage tank, (500 lit. capacity, 2 Nos.) IS : 12701 marked with food grade plastic, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings as per detailed specifications and directions of Engineer-in-charge.	Litre	500.00	12	Rupees Twelve Only	6,000.00	Rupees Six Thousand Only
34	Providing and fixing RCC Septic tank 10 Users capacity with manhole including necessary earthwork excavation, backfilling, providing sanitary connections to the tank etc. complete as per the directions of Engineer-in-charge.	Each	1.00	10450	Rupees Ten Thousand Four Hundred Fifty Only	10,450.00	Rupees Ten Thousand Four Hundred Fifty Only
35	Providing and fixing 32 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water supply interior lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	10.00	326.79	Rupees Three Hundred Twenty Six and Seventy Nine Paise Only	3,267.90	Rupees Three Thousand Two Hundred Sixty Seven and Ninety Paise Only
36	Providing and fixing 20 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water supply interior lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	10.00	194.73	Rupees One Hundred Ninety Four and Seventy Three Paise Only	1,947.30	Rupees One Thousand Nine Hundred Forty Seven and Thirty Paise Only
37	Supplying, fitting and fixing superior quality 1" Ball valve (brass) /butter fly valve (full way) of approved make with ISI-mark including necessary hardware, high or low pressure, with plastic floats etc. complete as per drawings, detailed specifications and directions of Engineer-in-charge.	Each	2.00	1400	Rupees One Thousand Four Hundred Only	2,800.00	Rupees Two Thousand Eight Hundred Only
38	Providing and fixing white vitreous china pedestal type water closet(European type W.C. pan) with seat and lid, 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	Each	2.00	6986.2	Rupees Six Thousand Nine Hundred Eighty Six and Twenty Paise Only	13,972.40	Rupees Thirteen Thousand Nine Hundred Seventy Two and Forty Paise Only
39	Supplying and fixing White Vitreous wash basin 630 x 450 x 160 mm size of Pastel brand (No.91037) of "Hindware" or equivalent approved make of "Kohler/Jaquar" with galvanised iron rag bolts with 15mm CP brass pillar Tap including cutting and making good walls etc. complete as per detailed specifications and directions of Engineer-in-Charge.	Each	3.00	3739.1	Rupees Three Thousand Seven Hundred Thirty Nine and Ten Paise Only	11,217.30	Rupees Eleven Thousand Two Hundred Seventeen and Thirty Paise Only
	4. Landscaping Works					-	
41	Earth work excavation in all kinds of soil by means (Hydraulic excavator) / manual means for foundation for Kerbstones, including removal of all obstructions, bailing out water, if required, dressing of sides and ramming of bottoms, backfilling insides and compacting, lift upto 1.5m, including disposing of the excavated soil and surplus excavated soil within a lead of 50m as per drawings, detailed specification and directions of the Engineer-in-charge.	m ²	2.00	247.20	Rupees Two Hundred Forty Seven and Twenty Paise Only	494.40	Rupees Four Hundred Ninety Four and Forty Paise Only
42	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).	Nos.	7.00	6,537.90	Rupees Six Thousand Five Hundred Thirty Seven and Ninety Paise Only	45,765.30	Rupees Forty Five Thousand Seven Hundred Sixty Five and Thirty Paise Only

43	Painting the exposed surface of the kerb with 2 coats of synthetic enamel paint having VOC (Volatile Organic Compound) content less than 150 grams/ litre of approved brand and manufacture to give an even shade over one coat of water thinnable cement primer of approved brand and manufacture including cleaning the surface, topping of holes and undulations, cost and conveyance of all materials, labour charges, sundries etc. complete as per detailed specifications and directions of Engineer-In-Charge	m ²	45	102.26	Rupees One Hundred Two and Twenty Six Paise Only	4,601.70	Rupees Four Thousand Six Hundred One and Seventy Paise Only
44	Supplying and stacking of fine gravel at site including royalty and carriage upto 5 km complete (earth measured in stacks will be reduced by 20% for payment) etc. complete, as per detailed specifications and directions of the Engineer-in-Charge	m ³	18.00	3,000.00	Rupees Three Thousand Only	54,000.00	Rupees Fifty Four Thousand Only
45	Supplying and stacking at site as per detailed specifications and directions of the Engineer-in-Charge.					-	
	(a) Coco Peat	Kg	90.00	25.00	Rupees Twenty Five Only	2,250.00	Rupees Two Thousand Two Hundred Fifty Only
	(b) Stearameal	Kg	90.00	25.00	Rupees Twenty Five Only	2,250.00	Rupees Two Thousand Two Hundred Fifty Only
	(c) Neam cake	Kg	90.00	25.00	Rupees Twenty Five Only	2,250.00	Rupees Two Thousand Two Hundred Fifty Only
46	Preparing mixture of red earth, Coco peat and manure and transporting, placing and spreading the same at the site at a height of 10cm, as per the directions of the Engineer-in-Charge.	m ³	18.00	1,652.00	Rupees One Thousand Six Hundred Fifty Two Only	29,736.00	Rupees Twenty Nine Thousand Seven Hundred Thirty Six Only
47	Supplying and Planting / fixing with Mexican Grass carpet free from diseases, fungus and weeds including watering and maintenance of the lawn for a period of 3 months, as per detailed specifications and directions of the Engineer-in-Charge.	m ²	60.00	495.00	Rupees Four Hundred Ninety Five Only	29,700.00	Rupees Twenty Nine Thousand Seven Hundred Only
48	Supplying and planting healthy plants of Juniperus (90cm high) of appropriate growth including necessary maintenance of the plants (as and when required) at site, for one month as per detailed specifications and directions of the Engineer-in-Charge	Nos.	25.00	850.00	Rupees Eight Hundred Fifty Only	21,250.00	Rupees Twenty One Thousand Two Hundred Fifty Only
49	Supplying and planting healthy plants of Ixora Dwarf Pink (25cm high) of appropriate growth including necessary maintenance of the plants (as and when required) for one month at site as per detailed specifications and directions of the Engineer-in-Charge.	Nos.	25.00	80.00	Rupees Eighty Only	2,000.00	Rupees Two Thousand Only
50	Planting other required small plants as per the directions of Engineer-in-charge	LS				6,05,703.00	Rupees Six Lakh Five Thousand Seven Hundred Three Only
	5. Rainwater Harvesting						
51	Earth work excavation in all kinds of soil by means (Hydraulic excavator) / manual means for foundation, including removal of all obstructions, bailing out water, if required, dressing of sides and ramming of bottoms, backfilling insides and compacting, lift upto 1.5m, including disposing of the excavated soil and surplus excavated soil within a lead of 50m as per drawings, detailed specification and directions of the Engineer-in-charge.	m ³	15.95	247.2	Rupees Two Hundred Forty Seven and Twenty Paise Only	3,942.84	Rupees Three Thousand Nine Hundred Forty Two and Eighty Four Paise Only
52	Providing and laying Plain cement concrete of M10 grade (1:3:6) with 40 mm aggregates below foundation to line and level, properly mixed and consolidated with and rammers, including side shuttering, spreading, compacting, bailing out water, if required, cost and conveyance of all materials, labour, etc. complete as per drawings, detailed specifications and direction of the Engineer-in-charge.	m ³	1.10	8325.8	Rupees Eight Thousand Three Hundred Twenty Five and Eighty Paise Only	9,158.38	Rupees Nine Thousand One Hundred Fifty Eight and Thirty Eight Paise Only
53	Providing and laying Reinforced cement concrete of M25 grade for Bottom slab, side wall and top slab of sump tank using cement content as per approved design mix, excluding reinforcement work and including cost of all materials, labours, centering, shuttering, admixtures, vibrating, curing etc. complete as per drawings, detailed specification, and direction of Engineer-in-Charge.	m ³	5.11	12896.4	Rupees Twelve Thousand Eight Hundred Ninety Six and Forty Paise Only	65,900.60	Rupees Sixty Five Thousand Nine Hundred and Sixty Paise Only
54	Providing and fixing reinforcement using TMT/CRS/ ordinary quality HYSD bars of Fe 500/Fe 415 grade for the RCC work for items above including conveying, straightening, cutting, bending and tying in position etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	Kg	750.00	113.5	Rupees One Hundred Thirteen and Fifty Paise Only	85,125.00	Rupees Eighty Five Thousand One Hundred Twenty Five Only
55	Providing 12 mm thick plastering with cement mortar 1:4 (1cement : 3sand) on walls, trowelled hard including scaffolding, curing etc. complete as per detailed specifications and directions of the Engineer-in-Charge.	m ²	44.60	362.7	Rupees Three Hundred Sixty Two and Seventy Paise Only	16,176.42	Rupees Sixteen Thousand One Hundred Seventy Six and Forty Two Paise Only
56	Supplying and fixing 560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg as per detailed specifications and directions of Engineer-in-charge	Each	1.00	9272	Rupees Nine Thousand Two Hundred Seventy Two Only	9,272.00	Rupees Nine Thousand Two Hundred Seventy Two Only
57	Providing Open well 1.2m dia 3.6m deep at the location as per the drawing and the directions of Enngineer-in-charge	Each	1.0	40000	Rupees Forty Thousand Only	40,000.00	Rupees Forty Thousand Only
	6. Plumbing works						

58	Providing and fixing 200 mm nominal dia PVC pipes for water supply interior lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	25.0	1542.5	Rupees One Thousand Five Hundred Forty Two and Fifty Paise Only	38,562.50	Rupees Thirty Eight Thousand Five Hundred Sixty Two and Fifty Paise Only
59	Providing and fixing 32 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water supply interior lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	25.0	326.79	Rupees Three Hundred Twenty Six and Seventy Nine Paise Only	8,169.75	Rupees Eight Thousand One Hundred Sixty Nine and Seventy Five Paise Only
60	Providing and fixing 20 mm nominal dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water supply interior lines, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, jointing of pipes & fittings with one step CPVC solvent cement, testing of joints, labour etc. complete as per detailed specifications and direction of Engineer in Charge.	m	25.0	194.73	Rupees One Hundred Ninety Four and Seventy Three Paise Only	4,868.25	Rupees Four Thousand Eight Hundred Sixty Eight and Twenty Five Paise Only
61	Supplying, fitting and fixing superior quality 1" Ball valve (brass) /butter fly valve (full way) of approved make with ISI-mark including necessary hardware, high or low pressure, with plastic floats etc. complete as per drawings, detailed specifications and directions of Engineer-in-charge.	Each	2.0	1400	Rupees One Thousand Four Hundred Only	2,800.00	Rupees Two Thousand Eight Hundred Only
62	Supplying, fabricating and fixing in position Mild Steel (MS) Gate, 5m wide & 1.35m height (3 Nos.) using RHS 125mmx125mmx 4.5mm tk & RHS 63.5mmx63.5mmx4.5mm tk. riveted, bolted or welded, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge	Kg	2,100.00	195.00	Rupees One Hundred Ninety Five Only	4,09,500.00	Rupees Eighty Five Thousand One Hundred Twenty Five Only
Total for Civil Works						-	
Part-B MEP Works						1,30,06,783.94	
63	Supply, Installation, Testing and Commissioning of ongrid Solar Photovoltaic Power Plant conforming to MNRE specifications as amended, consisting of Mono PERC modules silicon solar cells, net metering facility, necessary protections, Cu cabling works, termination, earthing, mounted on Aluminium/ GI structure of suitable strength with following components complete as required:- a) Solar Photo voltaic Module of capacity 330Wp or above, manufactured in India, conforming to IS14286/IEC61215, IS/IEC61730-Part-1, IS/IEC61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 20.8%. PV modules used in solar power plants/systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. b) Power Conditioning Unit (PCU) of 350-800VDC Input voltage range and 400VAC, three phase, 4 wire, 50Hz +/- 2.5Hz, output voltage suitable to generate AC Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degree C. The PCU shall adjust the voltage and frequency level to suit the Grid Voltage Frequency. Scope also includes related cabling, LT panels and all accessories in complete as per latest CEA/ KSEB/ BEE/ MNRE standards as detailed in the technical specifications	KWP	250.00	61,060.00	Rupees Sixty One Thousand Sixty Only	1,52,65,000.00	Rupees One Crore Fifty Two Lakh Sixty Five Thousand Only
64	Supply of 3.5 x 150 sqmm LT XLPE insulated UG Power cable for inter connecting MV Panel of solar system at ware house to Main LT Panel as detailed in the technical specifications	M	125.00	650.00	Rupees Six Hundred Fifty Only	81,250.00	Rupees Eighty One Thousand Two Hundred Fifty Only
65	Supply and providing of end termination materials such as single compression type brass gland and Al: Lugs for 150 SQMM cable size of 1.1 KV cables	No.	6.00	500.13	Rupees Five Hundred and Thirteen Paise Only	3,000.78	Rupees Three Thousand and Seventy Eight Paise Only
66	Supply and providing of end termination materials such as single compression type brass gland and Al: Lugs for 300 SQMM cable size of 1.1 KV cables	No.	6.00	1,272.00	Rupees One Thousand Two Hundred Seventy Two Only	7,632.00	Rupees Seven Thousand Six Hundred Thirty Two Only
67	Supply of 3.5 x 300 sqmm LT XLPE insulated UG Power cable for inter connecting MV Panel of solar system at ware house to the LT Panel and transformers etc. as detailed in the technical specifications in trenches, clamping through walls etc.	M	70.00	1,150.00	Rupees One Thousand One Hundred Fifty Only	80,500.00	Rupees Eighty Thousand Five Hundred Only
68	SITC of 630 A, LT panel, CU bus bar with ACB as incomer and out going as minimum 500 A, FP MCCB, 2 nos 125A MCCB, 2 nos 63 A MCCB and other outgoing as per the requirements and TS attached.	No.	1.00	4,50,000.00	Rupees Four Lakh Fifty Thousand Only	4,50,000.00	Rupees Four Lakh Fifty Thousand Only

69	SITC of 315 kVA, 11kV/433V, 3 phase, 50 Hz, ONAN Cooled Copper wound, Energy Efficiency Level-2, outdoor transformer having vector group of Dyn11, first fill of oil, Cable box on both HT & LT sides, Off load tappings of +5% to -10% in steps of 2.5% with standard fittings conforming to IS 1180. including foundation , roofing fencing etc. as per TS attached	nos.	1.00	10,73,000.00	Rupees Ten Lakh Seventy Three Thousand Only	10,73,000.00	Rupees Ten Lakh Seventy Three Thousand Only
70	SITC of HT Earthing using materials with copper earth plate 600mm X 600mm X 3mm thick, including 40mm class B GI pipe and accessories, for providing masonry enclosure with cover etc., with charcoal/ coke and salt as required as per IS.	no.	6.00	16,028.52	Rupees Sixteen Thousand Twenty Eight and Fifty Two Paise Only	96,171.12	Rupees Ninety Six Thousand One Hundred Seventy One and Twelve Paise Only
71	SITC of indoor Heat shrinkable cable end termination kit, complete with all accessories including lugs suitable for 3C X 300 sqmm, XLPE aluminium conductor cable of 11 KV grade as required.	no.	6.00	5,013.48	Rupees Five Thousand Thirteen and Forty Eight Paise Only	30,080.88	Rupees Thirty Thousand Eighty and Eighty Eight Paise Only
72	Laying of 3CX 300 SQMM HT cable along through, HDD, HDPE Pipe , trenches etc.	M	125.00	152.21	Rupees One Hundred Fifty Two and Twenty One Paise	19,026.25	Rupees Nineteen Thousand Twenty Six and Twenty Five Paise Only
73	Laying of 3.5CX 300/150 SQMM LT cable along through, HDD, HDPE Pipe , trenches, clamping along wall etc. etc.	M	195.00	128.16	Rupees One Hundred Twenty Eight and Sixteen	24,991.20	Rupees Twenty Four Thousand Nine Hundred Ninety One and Twenty Paise Only
74	Supply of 3C X 300 sqmm HT, Armoured UG cable, XLPE insulated, Armoured, overall PVC sheathed, stranded, Aluminium conductor, PVC Outer Sheathed cable-11KV (E)- conforming to IS 7098 Part II-1985 with latest IS amendments.	M	125.00	1,805.00	Rupees One Thousand Eight Hundred Five Only	2,25,625.00	Rupees Two Lakh Twenty Five Thousand Six Hundred Twenty Five Only
75	Providing HDD and laying of HDPE pipe including supply of 110 mm HDPE pipe etc. for Laying HT/ LT cables .	m	80.00	1,778.38	Rupees One Thousand Seven Hundred Seventy Eight and	1,42,270.40	Rupees One Lakh Forty Two Thousand Two Hundred Seventy and Forty Paise Only
76	SITC of Out door type, 4 Panel compact , SF6, +CCCV+, 11 KV RMU , battery operated . Self powered Relay -1,SCADA compatible, with FRTU , Voltage presence Indicator, marine grade painting etc. as per annexure. Including providing RCC foundation roofing etc. as per annexure and TS attached .	No.	1.00	8,75,000.00	Rupees Eight Lakh Seventy Five Thousand Only	8,75,000.00	Rupees Eight Lakh Seventy Five Thousand Only
77	SITC SITC of Out door type, single Panel compact , SF6, +V+, 11 KV RMU , battery operated . Self powered Relay -1,SCADA compatible, Voltage presence Indicator, marine grade painting etc. as per annexure. Including providing RCC foundation roofing etc. as per annexure and TS attached for protection of transformer.	No.	1.00	3,75,000.00	Rupees Three Lakh Seventy Five Thousand Only	3,75,000.00	Rupees Three Lakh Seventy Five Thousand Only
78	Providing Open trench, Laying 3C X 300 sqmm XLPE, 11 KV Grade Cable, Sand cushioning, RCC Protective cover , Back filling, ramming etc. as per requirements.	M	40.00	655.05	Rupees Six Hundred Fifty Five and Five Paise Only	26,202.00	Rupees Twenty Six Thousand Two Hundred Two Only
79	Providing electrification/ wiring inside the ware house including supply of all items for indoor lighting , Exhaust fans , Al/ Cu UG cables, CU wires as per requirements , Junction boxes ,DB's, metering panels, conduits, 4 Nos. fixed type cameras including CCTV arrangements with DVR, monitor, storage etc as per requirements, cablings etc. in complete as per standards aftr dismantling the existing electricla items .	LS	1.00	12,00,000.00	Rupees Twelve Lakh Only	12,00,000.00	Rupees Twelve Lakh Only
80	Providing electrification/ wiring inside the office building , bathroom etc including supply of all items for indoor lighting fittings , fans , Cu UG/ CU wires cables as per requirements , Junction boxes ,DB's, metering panels, conduits etc. in complete as per standards	LS	1.00	2,00,000.00	Rupees Two Lakh Only	2,00,000.00	Rupees Two Lakh Only
81	SITC of 1.5 T, 5 star inverter Split Type AC unit with DB's etc. and all items in complete .	No.	1.00	39,500.00	Rupees Thirty Nine Thousand Five Hundred	39,500.00	Rupees Thirty Nine Thousand Five Hundred Only
82	SITC of smart lighting panel with IoE standard and communications facility for integrating with light fittings for efficient lighting as per requirements and including supply of cables etc. for providing wirings etc. Supply, Installation & Commissioning of CCMS panels and smart software for control and monitoring of lamps as per requirements of works and movements etc.	LS	1.00	2,75,000.00	Rupees Two Lakh Seventy Five Thousand Only	2,75,000.00	Rupees Two Lakh Seventy Five Thousand Only
83	SITC of High bay LED lighting minimum 120W ,150 LM/W Havells "SAUCERGENXHBP 120W LED 757P90DBOLTG" or equivalent. The lamps shall be intergrated with smart lighting unit for controlling the same .	NOS.	60.00	12,000.00	Rupees Twelve Thousand Only	7,20,000.00	Rupees Seven Lakh Twenty Thousand Only
84	SITC of OUT DOOR LED flood light 200W min 120LM/W with all items for proper functioning of same . The lamps shall be intergrated with smart lighting unit for controlling the same .	Nos.	12.00	8,100.00	Rupees Eight Thousand One Hundred Only	97,200.00	Rupees Ninety Seven Thousand Two Hundred Only
85	Providing of Heat shrinkable cable straight Jointing kit, complete with all accessories including lugs suitable for 3C X 300 sqmm, XLPE aluminium conductor cable of 11 KV grade as required.	no.	2.00	9,707.55	Rupees Nine Thousand Seven Hundred Seven and Fifty Five Paise Only	19,415.10	Rupees Nineteen Thousand Four Hundred Fifteen and Ten Paise Only
86	Supply and laying of 4CX 4 Sqmm,PVC insulated CU UG cable by clamping through wall , underground by excavation etc.	M	600.00	235.00	Rupees Two Hundred Thirty Five Only	1,41,000.00	Rupees One Lakh Forty One Thousand Only
87	Supply and laying of 150MM (IN Dia) HDPE pipe , including coupling etc. as per IS standards.	no.	24.00	459.76	Rupees Four Hundred Fifty Nine and Seventy Six Paise Only	11,034.24	Rupees Eleven Thousand Thirty Four and Twenty Four Paise Only
88	Providing and laying G.I. tape 40 mm X 5 mm from earth electrode directly in ground as required	M	80.00	239.18	Rupees Two Hundred Thirty Nine and Eighteen Paise	19,134.72	Rupees Nineteen Thousand One Hundred Thirty Four and Seventy Two Paise Only
89	SITC of 24" Exhaust Fan with mounting arrangements , JB etc. As per requirments (almonard or equivalent)	Nos.	16.00	4,850.00	Rupees Four Thousand Eight Hundred Fifty Only	77,600.00	Rupees Seventy Seven Thousand Six Hundred Only
90	SITC of Wind tubine 24 inch SS at the top of the building roof .	Nos.	24.00	12,000.00	Rupees Twelve Thousand Only	2,88,000.00	Rupees Two Lakh Eighty Eight Thousand Only
91	SITC of 1HP pump motor with all fitting for pumping water form UG tank/sump	No.	1.00	5,650.00	Rupees Five Thousand Six	5,650.00	Rupees Five Thousand Six Hundred Fifty Only
92	SITC of 1/2 HP pump motor with all fitting for pumping water form UG tank for fresh water .	No.	1.00	3,600.00	Rupees Three Thousand Six Hundred Only	3,600.00	Rupees Three Thousand Six Hundred Only
93	Preperation of Scheme , Safety arrangements in RMU and getting CEA Approval	LS	1.00	18,000.00	Rupees Eighteen Thousand Only	18,000.00	Rupees Eighteen Thousand Only

						2,18,89,883.69	Rupees Two Crore Eighteen Lakh Eighty Nine Thousand Eight Hundred Eighty Three and
	TOTAL					3,48,96,667.63	Rupees Three Crore Forty Eight Lakh Ninety Six Thousand Six Hundred Sixty
	BIDDER'S QUOTING AREA						
Sl. No.	Description of Work	Departmental Estimated Cost (Rs)	Percentage Quoted above/ below the Departmental Amount by the Bidder		Above/Below		
			* In Figures	*In Words			
	Percentage Quoted above / below the Departmental Amount shown in the above Schedule	3,48,96,668					
	* Note						
	1. The Bidder shall quote both in figures and words						
	2. The Bidders shall also quote Above / Below in words themselves in the last column						
	3. Only two decimal digits will be accepted.						