



E-Tender No. MUMBAI/N/EN/DTEPA

For

NAME OF WORK: - Construction of 120 no. Dwelling units for the dishoused persons in Dahanu Taluka due to DFCCIL acquisition as per the DTEPA orders.

**FINANCIAL BID
(PACKET-B)**

TENDER DOCUMENT

November, 2017

Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
CPM/NORTH/MUMBAI UNIT
(A GOVERNMENT OF INDIA ENTERPRISE)
Under
MINISTRY OF RAILWAYS

MUMBAI/N/EN/DTEPA

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD
A Govt. of India (Ministry of railways) Enterprises
7th Floor, New Administrative Building, D.N. Road, Mumbai-400001
NOTICE FOR INVITING BIDS (Online i.e. E-Tender)

Tender No	MUM/N/EN/DTEPA/ Dwelling-Units dated- 11.11.2017
Name of work	NAME OF WORK: - Construction of 120 no. Dwelling units for the dishoused persons in Dahanu Taluka due to DFCCIL acquisition as per the DTEPA orders.
(a) Type of Tender	Open Tender (Single Stage Two Packet).
(b) Type of Contract	Works Contract.
(c) Tender Value	₹ 7,50,17,211/-
(d) Completion Period	18 months
(e) Earnest Money	₹ 15,00,350/- (Paid through Demand Draft/ banker's Cheque, FDR payable in favour of "Dedicated freight Corridor corporation of India Limited, Mumbai")
(f) Cost of Tender document	₹ 10,000/- + 18% GST (Total ₹ 11,800/-) To be paid by D.D./Banker's Cheque in favour of DFCCIL payable at Mumbai
(g) Tender Processing Fee	₹ 7,500/- plus GST and other taxes and duties as applicable (non refundable) through e- payment while uploading of tender.
(h) Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 30(thirty) days from the date of issue of Letter of Acceptance (LOA), amounting to 5% of the contract value in the form as give in clause 16.4 of GCC
(i) Retention Money / Security Deposit	5% of Contract Value
(j) Officer:	Chief Project Manager (North), Mumbai Dedicated Freight Corridor Corporation of India Limited/Mumbai, 7th Floor, New Administrative Building, D.N. Road, Mumbai-400001
(k) E-Tendering Web Site	E-tendering site- www.tenderwizard.com/DFCCIL Help: Please contact Tender wizard helpdesk at 011-49424365
(L)Pre-bidding Conference	On 24.11.2017 at 11.00 AM at office of Chief Project Manager(North) Mumbai, 7th Floor, New Administrative Building, DN Road, 400001
DATE & TIME SCHEDULE	
Date of Uploading of NIT & Other Documents (Online Publishing date)	11.11.2017 at 11.00 Hrs.
Documents download/Sell date (Online)	From 11.11.2017 at 12.00 Hrs.

Signature of tenderer (s)

Date:

For CPM/NORTH/MUMBAI/DFCCIL

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Bid submission Last date (Online)	12.12.2017 up to 15.00 Hrs.
Last date of submission of originals of statutory documents i.e. EMD & Tender Document Charge	18.12.2017 up to 17.30 Hrs.
Bid Opening date & Time (online)	19.12.2017 at 15.00 Hrs.

Chief Project Manager (North), Mumbai Dedicated Freight Corridor Corporation of India Limited/Mumbai, 7th Floor, New Administrative Building, D.N. Road, Mumbai-400001

SUMMARY OF PRICES

NAME OF WORK: - Construction of 120 no. dwelling units for the dishoused persons in Dahanu Taluka due to DFCCIL acquisition as per the DTEPA orders.

Sl. No.	Description of works	Cost as per Schedules	Rates to be quoted in figures & words (Clearly mention above / below / at par on Schedules/Items updated DFCCIL Rate / cost given in column 3)
1	2	3	4
1.	Execution of all works as per Schedule 'A-1' (Items as per USSOR-2011 Western Railway).	₹ 790440.90	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
2.	Execution of all works as per Schedule 'A-2' (Items as per USSOR-2011 Western Railway).	₹ 2074435.56	
3.	Execution of all works as per Schedule 'A-3' (Items as per USSOR-2011 Western Railway).	₹ 6035954.40	
4.	Execution of all works as per Schedule 'A-4' (Items as per USSOR-2011 Western Railway).	₹ 1803898.11	
5.	Execution of all works as per Schedule 'A-5' (Items as per USSOR-2011 Western Railway).	₹ 2602302.65	
6.	Execution of all works as per Schedule 'A-6' (Items as per USSOR-2011 Western Railway).	₹ 5671630.72	
7.	Execution of all works as per Schedule 'A-7' (Items as per USSOR-2011 Western Railway).	₹ 18244496.73	
8.	Execution of all works as per Schedule 'A-8' (Items as per USSOR-2011 Western Railway).	₹ 6623913.54	

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9.	Execution of all works as per Schedule 'A-9' (Items as per USSOR-2011 Western Railway).	₹ 5915469.61	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
10.	Execution of all works as per Schedule 'A-10' (Items as per USSOR-2011 Western Railway).	₹ 5681284.15	
11.	Execution of all works as per Schedule 'A-11' (Items as per USSOR-2011 Western Railway).	₹ 1802821.16	
12.	Execution of all works as per Schedule 'A-12' (Items as per USSOR-2011 Western Railway).	₹ 2364240.45	
13.	Execution of all works as per Schedule 'A-13' (Items as per USSOR-2011 Western Railway).	₹ 2855576.37	
14.	Execution of all works as per Schedule 'A-14' (Items as per USSOR-2011 Western Railway).	₹ 241946.42	
15.	Execution of all works as per Schedule 'A-15' (Items as per USSOR-2011 Western Railway).	₹ 5300757.33	
16.	Execution of all works as per Schedule 'A-16' (Items as per USSOR-2011 Western Railway).	₹ 15407.10	
17.	Execution of all works as per Schedule 'A-17' (Items as per USSOR-2011 Western Railway).	₹ 2016323.40	
18.	Execution of all works as per Schedule 'A-18' (Items as per USSOR-2011 Western Railway).	₹ 195163.80	
19.	Execution of all works as per Schedule 'A-19' (Items as per USSOR-2011 Western Railway).	₹ 707346.44	
20.	Execution of all works as per Schedule 'A-20' (Items as per USSOR-2011 Western Railway).	₹ 36774.00	

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21.	Execution of all works as per N.S. Items. (Items as per USSOR-2011 Western Railway).	₹ 2936319.80	
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Notes:

- (i) The above prices are inclusive of all taxes, duties, levies etc. **except GST.**
- (ii) The tenderer should quote single percentage above / par / below for each schedule.
- (iii) If the uniform percentage quoted by the Tenderer does not clearly indicate whether the rates are above/at par/below the estimated rates then through sign convention it will be considered to be on plus side and evaluated accordingly.
- (iv) Rate of item payable to contractor shall be as per above/below/at par on rates of schedule.

**SCHEDULE -1
SCHEDULE OF PRICES & TOTAL PRICES**

NAME OF WORK: - Construction of 120 no. dwelling units for the dishoused persons in Dahanu Taluka due to DFCCIL acquisition as per the DTEPA orders.
<u>SCHEDULE- A</u>
Schedule of Approximate Quantities

Sl. No.	Item No.	Quantity	Item of work	Unit	Rate	Amount in Rs.
	Schedule 'A-1'					
1	11011	5815.10	Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in All kinds of soils	Cum	109.36	635939.77
2	11052	117.00	for every 50m or part thereof - lead over 150m and upto 500m	Cum	12.80	1497.60
3	11070	1250.00	Extra for every additional lift of 1.5m or part thereof, after the initial 1.5m, for earth work in all soils	Cum	12.57	15712.50
4	12010	5800.10	Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly	Cum	12.50	72501.30

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5	12040	2435.70	Filling, watering and ramming earth in 15 cm layers in floors and foundations with surplus earth from foundations including 50m lead and 1.5m lift	Cum	26.60	64789.73
			Total of Schedule 'A-1'			790440.90
	Schedule 'A-2'					
1	31011	5.80	Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	Cum	1521.77	8826.27
2	31023	1062.31	Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering.1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size).	Cum	1645.73	1748278.73
3	32053	1985.67	Providing and laying cement concrete 1:2:4 in damp-proof course (1 cement : 2 sand : 4 graded stone aggregate 12.5mm nominal size - excluding the cost of cement and including providing, fixing and removal of forms. 50mm thick (20 mm coarse aggregate instead of 12.5mm).	Sqm	159.81	317330.56
			Total of Schedule 'A-2'			2074435.56
	Schedule 'A-3'					
1	33063	1073.48	Supply and using cement at worksite- PPC	Tonne	4830.00	5184908.40
2	252030	176.20	Supply and using cement at worksite- Ordinary Portland Cement grade-53 Grade	Tonne	4830.00	851046.00
			Total of Schedule 'A-3'			6035954.40

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Schedule 'A-4'						
1	42013	5092.40	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	303.84	1547274.82
2	42014	1013.00	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	253.33	256623.29
			Total of Schedule 'A-4'			1803898.11
Schedule 'A-5'						
1	41011	344.78	Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge. All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	Cum	1931.52	665949.47
2	41012	835.42	Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge. All work in buildings above plinth level upto floor two level.	Cum	2317.82	1936353.18
			Total of Schedule 'A-5'			2602302.65

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Schedule 'A-6'						
1	45014	97888.00	Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. High yield strength deformed bars.	Kg	57.94	5671630.72
			Total of Schedule 'A-6'			5671630.72
Schedule 'A-7'						
1	51015	3714.87	Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 fine sand)	Cum	2433.67	9040772.54
2	51031	3153.71	Brick work with machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 -1991 in superstructure from beyond plinth level upto 6m above plinth level in cement mortar 1:6 (1 cement : 6 coarse sand) With non-modular (FPS) bricks	Cum	2918.38	9203724.19
			Total of Schedule 'A-7'			18244496.73
Schedule 'A-8'						
1	71011	9150.00	Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : Second class teak wood (Main gate & Corridor door)	Cudm	93.19	852688.50
2	72151	1523.62	Providing and fixing flush door shutters to IS: 2202 Part-I non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 35mm thick including ISI marked stainless steel butt hinges with necessary screws	Sqm	1357.40	2068161.79
2	72210	120.00	Providing and fixing magic eye piece 25mm size in all type of door shutters, Sutter with cupboard	Each	209.07	25088.40
4	77061	1204.00	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete.	Each	378.60	455834.40

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			250x10mm			
5	77064	240.00	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete. 100x10mm	Each	159.33	38239.20
6	77071	602.00	Providing and fixing bright finished brass handles - with screws etc. complete - of size 125 mm	Each	256.31	154298.62
7	77072	242.00	Providing and fixing bright finished brass handles - with screws etc. complete - of size 100mm	Each	221.47	53595.74
8	77081	120.00	Providing and fixing bright finished brass door latch with necessary screws etc. complete 300x16x5mm	Each	259.20	31104.00
9	77082	724.00	Providing and fixing bright finished brass door latch with necessary screws etc. complete 250x16x5mm	Each	235.97	170842.28
10	78021	720.00	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete 300x16mm	Each	278.00	200160.00
11	78022	480.00	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete 250x16mm	Each	225.73	108350.40

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12	78310	1210.00	Providing and fixing of fibre glass reinforced plastic (FRP) door frames of three legged of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate door frame moulded with fire retardant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fibre glass from all sides. M.S. stay shall be provided at the bottom to ready the frame (WC & Bath door)	R meter	909.34	1100301.40
13	78320	381.15	Providing and fixing 30 mm thick glass fibre reinforced (FRP) paneled door shutter of required colour and approved brand and manufacture, made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for farming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels and conforming to (IS:14856-2000) complete work. (WC & Bath door)	Sqm	3581.92	1365248.81
			Total of Schedule 'A-8'			6623913.54
	Schedule 'A-9'					
1	81031	20000.00	Structural steel work welded in built up sections, trusses and framed work, girders, stagings, racks, etc including cutting, bending, straightening, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL In RSJ, tees, angles and channels	Kg	75.92	1518400.00

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2	81412	300.00	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works (Maim Gate)	Kg	78.16	23448.00
2	82012	12200.00	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, anodised transparent or dyed to required shade according to IS:1868 (Minimum anodic coating of grade AC 15), ... Contd. - For openable/sliding portions and fixing hinges / pivots, PVC/ neoprene gasket required and making provision for fixing of fittings. (Fittings shall be paid for separately)	Kg	289.50	3531900.00
4	82032	879.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item)With float/frosted glass panes of 5.5mm thickness (weight not less than 13.75 kg/sqm)	Sqm	957.59	841721.61
			Total of Schedule 'A-9'			5915469.61
	Schedule 'A-10'					
1	92012	230.97	Cement concrete flooring 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. 40mm thick with 20mm nominal size stone aggregate	Sqm	124.87	28841.22

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2	94063	1375.20	Providing & fixing Precast Chequered tiles conforming to IS:13801:1993, manufactured under mechanical vibration & hydraulic pressing machine in double layer; top layer of 10 to 12 mm thickness of Dolomite Powder, graded chips, fibre and UV stabilised iron oxide Lanexess colour and bottom layer of 1:3 CC mixed with galvanized steel fibre of approved quality, jointed with neat cement slurry mixed with pigment to match shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 of sizes : 400mm x 400mm x 35mm thick	Sqm	336.13	462245.98
3	95012	2401.40	Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete. 200x300 mm	Sqm	551.32	1323939.85
4	95024	4224.00	Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete. Of Group B-I-b of IS : 15622 (Ceramic Tiles) of size above 400x400mm	Sqm	515.36	2176880.64

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5	98021	50.40	Supplying and laying interlocking pre-cast CC block pavers of approved design factory manufactured of specified grade cement concrete on passenger platform, foot paths, circulating area, etc, including setting in position over 25mm thick bedding layer of fine sand, filling the joints with fine sand, leveling including compaction as per IS 15658. 60 mm thick blocks of M30 grade for light traffic	Sqm	503.80	25391.52
6	99051	161.04	Providing and fixing 40mm thick Cuddapah stone polished, machine cut for kitchen platforms, vanity counters facias, dados and skirting and similar locations of required size, laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups including rubbing, curing etc. complete at all levels. Area of slab upto 0.5 Sqm	Sqm	1585.91	255394.95
7	99164	600.00	Providing and fixing 18mm thick mirror polished, machine cut for floors and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement. Granite Black. Area of slab over 0.5 Sqm but upto 1.0 Sqm (In Kitchen & Door frame)	Sqm	2347.65	1408590.00
			Total of Schedule 'A-10'			5681284.15
	Schedule 'A-11'					
1	102010	265.09	Providing and fixing asbestos cement 6 mm thick corrugated / semi corrugated sheet roofing upto any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers complete excluding the cost of purlins, rafters and trusses :	Sqm	258.99	68655.40

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2	102043	25.00	Providing and fixing ridges and hips in asbestos cement sheet roofing. Close fitting adjustable ridges	meter	268.99	6724.75
3	102050		Providing and fixing asbestos cement roofing accessories with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete			
	102051	200.00	Apron flashing pieces	meter	157.08	31416.00
4	102052	100.00	Eave's filler pieces	meter	138.96	13896.00
5	102053	50.00	North light and ventilator curves	meter	248.91	12445.50
6	102054	50.00	Barge boards	meter	149.38	7469.00
7	102055	50.00	Ridge finials	Pair	116.20	5810.00
8	102056	6.00	Curved barge boards for north light curves	Each	219.66	1317.96
9	102057	10.00	Expansion joints for ridges	Each	246.84	2468.40
10	102058	6.00	Expansion joints for north light curves	Each	271.59	1629.54
11	102059	100.00	S type louvers	meter	133.25	13325.00
12	108162	3025.00	Providing and fixing on wall face unplasticised - Rigid PVC single socketed rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion. 110mm dia.	Meter	485.97	1470059.25
13	108184	363.00	Providing and fixing on wall face unplasticised - PVC moulded bend and shoe for unplasticised- Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion. Shoe (Plain), 110mm dia shoe	Each	461.72	167604.36
			Total of Schedule 'A-11'			1802821.16
	Schedule 'A-12'					
1	111011	21603.79	12 mm cement plaster of mix -1:4 (1cement: 4 fine sand)	Sqm	60.27	1302060.36
2	111061	9646.95	20 mm cement plaster of mix-1:4 (1cement: 4coarse sand)	Sqm	87.21	841310.51
3	111151	4251.58	Cement plaster to ceiling of mix -6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	51.95	220869.58

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			Total of Schedule 'A-12'			2364240.45
	Schedule 'A-13'					
1	115041	35502.32	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats of distemper) over and including priming coat with cement primer	Sqm	56.84	2017951.87
2	115060	33504.98	Applying one coat of cement primer of approved brand and manufacture on wall surface	Sqm	25.00	837624.50
			Total of Schedule 'A-13'			2855576.37
	Schedule 'A-14'					
1	121020	1529.20	Painting wood work with Deluxe Multi Surfaces Paint of required shade. Two or more coat applied @ 0.90ltr/ 10sqm over an under coat of primer, applied @ 0.75ltr/ 10sqm of approved brand or manufacture	Sqm	52.11	79686.61
2	121030	1210.00	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coats applied @ 0.90ltr/ 10sqm over an under coat of primer applied @ 0.80ltr/ 10sqm of approved brand or manufacture	Sqm	53.38	64589.80
3	124013	1529.20	Varnishing with varnish of approved brand and manufacture. On new work two or more coats glue sizing with spar varnish or an under coat of flatting varnish	Sqm	63.87	97670.00
			Total of Schedule 'A-14'			241946.42
	Schedule 'A-15'					

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1	131011	3630.00	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 M spacing. This includes cost of cutting chases, where necessary, testing of joints complete as per direction of the Engineer-in-charge. Internal work - Exposed on wall. 1216 (16mm OD) pipe	Meter	134.26	487363.80
2	131032	2420.00	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the Engineer-in-charge (external work). 1620 (20mm OD) pipe	Meter	128.87	311865.40

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3	131033	2420.00	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the Engineer-in-charge (external work). 2025 (25mm OD) pipe	Meter	158.46	383473.20
4	131036	6050.00	Providing and fixing Polyethylene-Aluminum- Polyethylene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the Engineer-in-charge (external work). 4050 (50mm OD) pipe	Meter	433.32	2621586.00
5	131181	242.00	Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge. 25 mm Gate Valve	Each	452.99	109623.58
6	131184	602.00	Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of	Each	1656.3	997092.60

Signature of tenderer (s)

Date:

For CPM/NORTH/MUMBAI/DFCCIL

MUMBAI/N/EN/DTEPA

			engineer in charge. 50 mm Gate Valve.			
7	134011	845.00	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86mm long. Weighing not less than 88 gms.	Each	218.43	184573.35
8	134021	362.00	Providing and fixing PTMT stop cock of approved quality and colour. 15mm nominal bore, 86mm long. Weighing not less than 88 gms.	Each	230.05	83278.10
9	138042	120.00	Hoisting, fitting and fixing in position plastic moulded water storage tank including making connection of intake, delivery, outlet and overflow .pipes etc. with all lead and lift upto all stories. Cost of tanks/fittings to be paid separately. 500 ltr capacity tank	Each	1001.79	120214.80
10	138043	1.00	Hoisting, fitting and fixing in position plastic moulded water storage tank including making connection of intake, delivery, outlet and overflow .pipes etc. with all lead and lift upto all stories. Cost of tanks/fittings to be paid separately. 1000 ltr capacity tank	Each	1686.50	1686.50
			Total of Schedule 'A-15'			5300757.33
	Schedule 'A-16'					

MUMBAI/N/EN/DTEPA

1	143011	5.00	Constructing brick masonry manhole in cement mortar 1:4 (1cement: 4coarse sand) R.C.C. top slab with 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1cement: 4coarse sand: 8graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement: 3coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design. Inside size 90x80cm and 45cm deep including C.I. cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg). With F.P.S. bricks class designation 7.5	Each	3081.42	15407.10
			Total of Schedule 'A-16'			15407.10
	Schedule 'A-17'					
1	151011	122.00	White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests	Each	2864.78	349503.16
2	151076	122.00	Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. white vitreous china angle back wash basin size 400x400mm with single 15mm C.P. brass pillar tap	Each	1329.60	162211.20

MUMBAI/N/EN/DTEPA

3	152032	120.00	Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink without drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required. 610x460mm bowl depth 200mm	Each	5205.97	624716.40
4	154040	484.00	Providing and fixing 110 mm x 110 mm x 110mm dia PVC plain branch (single equal junction)of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and the cost of spun yarn and sand etc., complete	Each	124.58	60296.72
5	154060	484.00	Providing and fixing 110 mm x 110 mm x 110mm dia PVC plain branch (double equal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete	Each	116.92	56589.28
6	154100	484.00	Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	90.78	43937.52
7	154140	2420.00	Providing and fixing 75 mm PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc., complete	Meter	169.83	410988.60
8	154170	484.00	Providing and fixing 75mm x 75 mm x 75mm dia PVC branch (single equal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer including jointing and cost of spun yarn and sand etc., complete	Each	85.49	41377.16

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For CPM/NORTH/MUMBAI/DFCCIL

MUMBAI/N/EN/DTEPA

9	154220	484.00	Providing and fixing 8 cm PVC bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	62.44	30220.96
10	155250	484.00	P&F 127mm dia C.P. steel Jali cockroach trap (CCTR-127) for gully floor or Nahani trap	Each	488.60	236482.40
			Total of Schedule 'A-17'			2016323.40
	Schedule 'A-18'					
1	161010	117.00	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of un-serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/ and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure). (Additional lead, if any will be paid as per rates in the Earth work Chapter)	Cum	90.11	10542.87
2	161020	78.00	Supplying and stacking of good earth at site including royalty (earth measured in stacks will be reduced by 20% for payment)	Cum	185.04	14433.12
3	161041	39.00	Supplying and stacking at site dump manure/ farm manure/ Animal dung manure from approved source; including all lead and lift etc. (manure measured in stacks will be reduced by 8% for payment). Screened through sieve of I.S. designation 20mm	Cum	110.99	4328.61
4	161070	3.90	Uprooting weeds from the trenched area after 10 to 15days of its flooding with water including disposal of uprooted vegetation	100 Sqm	156.49	610.31
5	161080	3.90	Fine dressing the ground	100 Sqm	146.85	572.72

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For CPM/NORTH/MUMBAI/DFCCIL

MUMBAI/N/EN/DTEPA

6	161090	3.90	Spreading of sludge, dump manure/farm manure/animal dung manure and good earth in required thickness (cost of sludge, dump manure/farm manure or/ and good earth to be paid separately)	100 Sqm	20.93	81.63
7	161100	117.00	Mixing earth and sludge or manure in proportion specified or directed. (Net total quantity of earth, sludge or manure after deduction of voids to be considered for payment)	Cum	11.62	1359.54
8	161111	3.90	Supplying & Grassing with grass in rows 7.5cm apart in either direction including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately). Doob Grass	100 Sqm	309.92	1208.69
9	161153	400.00	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio 2:1 by volume (2parts of stacked volume of earth after reduction by 20%: 1part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately). Holes / Pits 45 cm Dia and 60 cm deep	Each	13.95	5580.00
10	161203	400.00	Edging with bricks (Along Kiaris, lawns or hedges etc) laid dry including excavation, refilling, consolidating with hand packing and spreading neatly, surplus earth within a lead of 50meters. 7.5 class designation, F.P.S. bricks, laid in tooth edged pattern at an angle of 60 degree with horizontal	meter	29.01	11604.00

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For CPM/NORTH/MUMBAI/DFCCIL

MUMBAI/N/EN/DTEPA

11	161481	39.00	Maintenance of lawn, shrubs, hedge, trees etc. including watering, trimming, manuring, spraying insecticide and guarding as required. This includes supply of labour, tools & plants including materials. Lawn	10 Sqm /month	31.38	1223.82
12	161483	400.00	Maintenance of lawn, shrubs, hedge, trees etc. including watering, trimming, manuring, spraying insecticide and guarding as required. This includes supply of labour, tools & plants including materials. Hedge	meter / month	23.10	9240.00
13	161484	400.00	Maintenance of lawn, shrubs, hedge, trees etc. including watering, trimming, manuring, spraying insecticide and guarding as required. This includes supply of labour, tools & plants including materials. Tree	Each /month	25.83	10332.00
14	161600	300.00	Supply and planting of edge plants including cost of plants, transportation, labour, T&P etc. complete and maintenance for a period of one year from the date of plantation as per direction of O.I.C. (Mode of payment:-25% payment will be made after planting, 25% after six months, 25% after nine months and rest 25% after one year)	Each/year	205.31	61593.00
15	162063	50.00	Azadirachta Indica (Neem) of height 120-135 cm in big polybag of size 25-30cm	Each	87.34	4367.00
16	162066	100.00	Bottle palm of height 150-165 cm in earthen pots of size 30 cm	Each	151.23	15123.00
17	162070	50.00	Cassia fistula (Amaltash) of height 120-135cm in big polybag of size 25-30cm	Each	69.92	3496.00
18	162080	50.00	Delonix regia (Gulmohar) of height 135-150 cm in big each polybag of size 25-30cm	Each	64.11	3205.50
19	162082	50.00	Eugenia Jambolana (Jamun) of height 120-135 cm in big polybag of size 25-30cm	Each	67.60	3380.00

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For CPM/NORTH/MUMBAI/DFCCIL

MUMBAI/N/EN/DTEPA

20	162091	50.00	Ficus religiosa (Peepal) of height 120-135 cm in big polybag of size 30-35cm	Each	87.34	4367.00
21	162208	50.00	Bougainvillea (mix variety) of height 30-45 cm in polybag of size 10-15 cm	Each	41.81	2090.50
22	162225	50.00	Croton different varieties of height 30-45 cm in earthen pots of size 20 cm	Each	94.08	4704.00
23	162244	50.00	Hibiscus rosa sinensis of height 45-60 cm in earthen pots of size 20cm	Each	59.24	2962.00
24	162251	50.00	Jasminium sambac (Motia) of height 30-45 cm in polybag of size 20cm	Each	70.85	3542.50
25	162256	50.00	Lantanna depressa of height 20-25 cm in polybag of size 15-20cm	Each	12.78	639.00
26	162309	50.00	Areca palm 4-5 suckers of height 90-105 cm in earthen pots of size 25 cm.	Each	291.54	14577.00
			Total of Schedule 'A-18'			195163.80
Schedule 'A-19'						
1	231010	2143.00	Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 meters.	Sqm.	37.70	80791.10
2	231020	2143.00	Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade.	Sqm.	1.37	2935.91
3	231041	642.90	Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size	Cum	970.01	623619.43

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MUMBAI/N/EN/DTEPA

			Total of Schedule 'A-19'			707346.44
	Schedule 'A-20'					
1	241011	50.00	Precast R.C.C. standard posts (for barbed wire fencing) 1.8m long	Each	589.71	29485.50
2	242010	150.00	Providing 1.2m high fencing with 1.8m R.C.C. Post placed every 3m apart, embedded in cement concrete blocks, every 15th post (or nearer if there is abrupt change of ground slope), last but one end post and corner post shall be strutted on both sides and end post one side only, and struts embedded in cement concrete blocks, provided with 5 horizontal lines and two diagonals of G.I. barbed wire 9.38kg per 100meters (min) between the two posts fitted and fixed with G.I. staples on turn buckles or G.I. binding wire tied to 6mm bar nibs fixed while casting the post (cost of posts, struts and concrete to be paid for separately)	Meter	48.59	7288.50
			Total of Schedule 'A-20'			36774.00
	N.S. Items					
1	NS-1		Providing, laying and fixing unplasticized polyvinyl chloride (UPVC) pipes for soil, and waste discharge system type 'B' (SWR system) of 'Prince' or similar make (as per IS 13592:1992), single socketed for underground drainage system, making joints air and water tight with 'T' Shaped etc. Rate are including rubber rings ,solvent cement all labour, material, lead, lift, transportation, taxes,& royalty etc .complete,			
			Note- Excavation of earth will be paid under relevant item in USSOR -2011			
		1815.00	a) 160 mm dia	Rm	363.00	658845.00
		1270.00	b) 250 mm dia	Rm	1032.00	1310640.00

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For CPM/NORTH/MUMBAI/DFCCIL

MUMBAI/N/EN/DTEPA

2	NS-2	1090.80	Uncoursed hand-packed DRY RUBBLE FILLING (in work like rubble filling behind abutments etc.) without any special dressing of stones.	cum	361.00	393778.80
3	NS-3	2.00	Supply & fixing of pre fabricated stainless steel set unit modular toilet of size 1200 mm x 1000mm x 2000mm made from stainless steel with exterior wall made of specially pre coated corrugated sheets insulated with isothermal PUF with one Indian WC complete with flushing system made of stainless steel grade 304 in 2B finish + one number 200 Ltr overhead plastic tank+ wash basin made of SS 304 in satin finish +one number coat hook +one number mirror +one number soap dish+ one number exhaust fan + one number CFL light.	Each	216016	432032.00
4	NS-4		Construction of Masonry bio tank .The rate is inclusive of civil work, poly grass matt, aluminum strips (size 40mmx2mm), fixing of poly grass matt & inoculums (bacteria) etc complete.			
	(a)	1.00	Size 1.5 m x0.75 m x0.70 m (5 users)	Each	24473	24473.00
	(b)	1.00	Size 3.55 m x1.75 m x1.20 m (50 users)	Each	116551	116551.00
			Total of Schedule N.S. Items			2936319.80

END OF TENDER DOCUMENTS
