

## Scheduled of Quantities (SOQ) (NFN/CIVIL/630/2024)

## Annexure- I-B

Name of Work : "ARC for Misc. Masonry and Public Health jobs at Township and Factory Area during the Year 2024-25" (With Free issue of Cement & Steel)					
Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
<b>A</b>	<b>SCHEDULE ITEMS</b>				
1	<b><u>CHAPTER 1 : CARRIAGE</u></b>				
	Carriage of materials by Mechanical transport including loading, unloading and stacking wherever required upto 1 KM (Anywhere within T/ship Areas).				
	i) Lime, moorum, building rubbish, hard coal / stones.	Cu.m.	50.00	40.00	90.00
	ii) Earth.	Cu.m.	50.00	50.00	100.00
	<b><u>CHAPTER - 2 : EARTH WORK:</u></b>				
2	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :- All kinds of soil.	Sq.m.	50.00	40.00	90.00
3	Earth work in excavation over areas (exceeding 30 cm in depth, 1.5m in width as well as 10(sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed: All kinds of soil.	Cu.m.	25.00	25.00	50.00
4	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm. on plan)including dressing of sides and ramming of bottoms,lift upto 1.5m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m, All kinds of soil.	Cu.m.	50.00	40.00	90.00
5	Excavating trenches of required width for pipes, cables etc. including excavation for sockets, and dressing of sides, ramming of bottoms,depth upto 1.5m including getting out the excavated soil, and thenreturning the soil as required in layers not exceeding 20 cm in depthincluding consolidating each deposited layer by ramming, watering etc. and disposing off surplus excavated soil as directed with in a lead of 50M, All kinds of soil.	Metre	1.00	1.00	2.00
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.	Cu.m.	10.00	10.00	20.00
7	Extra for every additional lift of 1.5m or part thereof in : All kinds of soil. ( in Excavation or filling above or below G.L).	Cu.m.	10.00	5.00	15.00
8	Excavating holes upto 0.5 cum including getting out the excavated soil ( but excluding returning the soil as required in layers not exceeding 20 cm in depth,consolidating each deposited layer by ramming,watering etc. ) disposing of surplus excavated soil wherever required : as directed within a lead of 50m and lift upto 1.5m:(For Fencing posts, Fixing of Boards with size of hole upto 500x500x600mm), all kinds of soil.	Each	25.00	25.00	50.00
9	Supplying and filling in plinth with River / Fine sand under floors including watering, ramming consolidating and dressing complete.	Cu.m.	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
10	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15cm deep and disposal of rubbish lead upto 50m and lift upto 1.5m, all kinds of soil.	Sq.m.	500.00	200.00	700.00
<b><u>CHAPTER - 3 : CEMENT MORTAR:</u></b>					
11	Providing and laying Cement Mortar 1 : 3 ( 1 Cement : 3 Fine Sand ) on top of Boundry wall and fixing brocken glass pieces as a security measures or at any other location for any other work.	Cu.m.	1.00	1.00	2.00
<b><u>CHAPTER - 4 : CEMENT CONCRETE WORK:</u></b>					
12	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering All work upto plinth level:				
	i) 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size).	Cu.m.	25.00	20.00	45.00
	ii) 1:4:8 (1 cement:4 coarse sand : 8 graded stone aggregate 40mm nominal size).	Cu.m.	20.00	10.00	30.00
13	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1-cement: 2-coarse sand: 4-graded stone aggregate 12.5mm nominal size).	Sq.m.	1.00	1.00	2.00
14	Applying a coat of residual petrolem bitumen of penetration 80/100 of approved quality using 1.7 Kg. Per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sq.m.	1.00	1.00	2.00
<b><u>CHAPTER - 5 : REINFORCED CEMENT CONCRETE:</u></b>					
15	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-All work upto plinth level.				
	i) 1:1.5:3(1-cement:1.5 coarse sand:3 grade stone aggregate 20mm nominal size).	Cu.m.	2.00	2.00	4.00
	ii) 1.2.4 (1 cement : 2 coarse sand:4 graded stone aggregate of 20 mm nominal size).	Cu.m.	5.00	5.00	10.00
16	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, bands, plain window sills, staircases and spiral stair cases or of any section / structure upto floor five level excluding the cost of centring, shuttering,finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 grade stone aggregate 20mm nominal size).	Cu.m.	2.00	2.00	4.00
17	Centring and shuttering including strutting, propping etc. and removal of form for:				
	i) Foundations, footings, bases of colums etc. for mass concrete.	Sq.m.	7.00	5.00	12.00
	ii) Suspended floors, roofs, landings, balconies and access platform.	Sq.m.	10.00	10.00	20.00
	iii) Form for: Shelves.	Sq.m.	1.00	1.00	2.00
	iv) Cantilevers.	Sq.m.	1.00	1.00	2.00
	v) Columns, pillars, piers, abutments, posts & struts.	Sq.m.	5.00	5.00	10.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
18	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete in small lintels, covers of drains / pipes / cable trenches / man holes / pits of any span etc. Upto floor five level including the cost of required centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement:3 fine sand) on exposed surfaces wherever required but excluding the cost of reinforcement with 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size).	Cu.m.	1.00	1.00	2.00
19	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete (Steel reinforcement shall be supplied free of cost from NFL main stores).				
	i) Mild steel / Tor Steel/ TMT Bar and medium tensile steel bars.	Kg.	500.00	500.00	1000.00
	<b><u>CHAPTER - 6 : BRICK WORK:</u></b>				
20	Brick work with bricks of class designation 75 in foundation and plinth in : cement mortar 1:6 (1 cement: 6 fine sand ).	Cu.m.	15.00	5.00	20.00
21	Brick work with bricks of class designation 75 in superstructure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 fine sand ).	Cu.m.	10.00	10.00	20.00
22	Half brick masonry with bricks of class designation 75 in foundation and plinth in: cement mortar 1:4 (1-cement: 4 coarse sand).	Sq.m.	3.00	2.00	5.00
23	Half brick masonry with bricks of class designation 75 in super structure above plinth level upto floor fine level. in cement mortar 1:4 (1 cement:4 coarse sand).	Sq.m.	12.00	8.00	20.00
	<b><u>CHAPTER - 7 : STONE WORK</u></b>				
24	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1 : 6 : 12 (1-Cement : 6 Coarse sand : 12 graded stone aggregate 20 mm nominal size.	Cu.m.	1.00	1.00	2.00
25	Random rubble masonry with hard stone in Super Structure including levelling up with cement concrete 1 : 6 : 12 (1-Cement : 6 Coarse sand : 12 graded stone aggregate 20 mm nominal size.	Cu.m.	1.00	1.00	2.00
	<b><u>CHAPTER - 8 : MARBLE WORK</u></b>				
26	Marble work ( Table rubbed and polished) for floors / walls/ plateforms / steps / counters facias / partions and similar locations in 20 mm thick cement mortar 1 : 3 (1Cement :3 Coarse sand) including pointing with cement mortar 1 : 2 (1 Cement : 2 Marble Dust ) with and admixture of pigment to match the marble shade : Area of slab upto 1.0 Sq. 18 mm thick White Marble : Rajnagar plain.	Sq.m.	1.00	1.00	2.00
27	Marble work ( Mirror polished and granite finished , machine cut) for floors / walls/plateforms / steps / counters facias / partions and similar locations in 20 mm thick cement mortar 1 : 4 (1Cement : 4Coarse sand) including pointing with cement mortar 1 : 2(1Cement : 2Marble Dust ) with and admixture of pigment to match the marble shade : Area of slab upto 2.0 Sq.18 mm thick White Marble : Rajnagar plain.	Sq.m.	1.00	1.00	2.00
28	Extra for providng edge moulding to 18 mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc.complete as per design approved by Engineer-In-Charge.	Metre	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
29	Extra for fixing marble / granite stone in facia and drops of width upto150 mm with epoxy resin based (Araldite or equivalent ) adhesive or wth pure cement including cleaning etc. complete.	Metre	1.00	1.00	2.00
<b><u>CHAPTER - 11 : FLOORING</u></b>					
30	Brick on edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with FPS bricks 1:6(1cement:6 coarse sand).	Sq.m.	1.00	1.00	2.00
31	Cement concrete flooring 1:2:4: (1 cement :2 coarse sand:4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate.	Sq.m.	200.00	50.00	250.00
32	Cement plaster skirting with cement mortar 1:3 ( 1 cement:3 coarse sand) finished with a floatingcoat of neat cement. 20 mm thick.	Sq.m.	1.00	1.00	2.00
33	Dry brick on edge flooring with bricks of class designation 75 on a bed of 12 mm mud mortar including filling joints with Jamuna / fine sand ( with F.P.S. bricks ).	Sq.m.	1.00	1.00	2.00
34	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4: (1 cement :2 coarse sand:4 graded stone aggregate 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or Baroda green marble chips of sizes from 1mm to 4mm nominal size laid in cementmarble power mix 3:1 (3 cement:1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix: 7 marblechips) by volume including cement slurry etc. complete. Ordinary cement light shade.	Sq.m.	1.00	1.00	2.00
35	Marble chips skirting rubbed & polished to granolithic finish, top layer 6mm with white, black, chocolate, grey, yellow or Baroda green marble chips of sizes from smallest to 4mm nominal size laid in cement marble power mix 3:1 (3 cement:1 marble powder) by weight in proportion of 4:7 (4 cement:marble powder mix:7 marble chips) by volume. 18mm with under layer 12mm thick cement plaster1:3 (1-cement: 3 coarse sand) Light shade pigment with ordinary cement.	Sq.m.	1.00	1.00	2.00
36	P/F first quality ceramic quality glazed tiles conforming to IS-13753 of min. thickness 5 mm of approved make like NITCO, ORIENT, SOMANY KAJARIA, or equivalent make in all colours, shades except begundy, bottle green, black of any size as approved by Engr. In.Charge in skirting, risers, of steps and dados over 12 mm thick bed of Cement mortar1:3 (1 cement:3 coarse sand) and joining with grey cement slurry @ 3.3 kg/m <sup>2</sup> including pointing in white cement mixed with pigment of matching shade complete.	Sq.m.	6.00	4.00	10.00
37	Kota stone slab flooring over 20mm (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 1:4 (1-cement: 4-coarse sand) - 25mm thick.	Sq.m.	5.00	5.00	10.00
38	Providing and fixing glass strips in joints of terrazo/cement concrete floors 40 mm wide and 4 mm thick.	Metre	20.00	5.00	25.00
<b><u>CHAPTER - 12 : ROOFING:</u></b>					
39	Providing gola 75 X 75 mm in cement concrete 1 : 2 : 4 (1Cement ; 2 Coarse sand : 4 graded stone aggregate 10 mm and down grade) including finishing with cement mortar 1:3 (1 Cement : 3 fine sand ) In 75 X 75 mm deep chase.	Metre	20.00	5.00	25.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
40	Providing & fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A including with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion (i) single socketed pipes, 110mm dia meter.	Metre	5.00	5.00	10.00
41	Providing & fixing on wall face unplasticised – PVC moulded fittings/ accessories 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.				
	a) Single Tee without door - 110X110X110mm	No.	1.00	1.00	2.00
	b) Bend 87.5° - 110mm Bend	No.	2.00	2.00	4.00
<b><u>CHAPTER - 13 : FINISHING</u></b>					
42	15mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement:6 Fine sand).	Sq.m.	300.00	100.00	400.00
43	12 mm cement plaster of mix: 1:6 (1 cement:6 Fine sand).	Sq.m.	100.00	100.00	200.00
44	12mm thick cement plaster with a floating coat of neat cement of mix: 1:4 (cement : 4 fine sand).	Sq.m.	100.00	35.00	135.00
45	15mm thick cement plaster with a floating coat of neat cement of mix: 1:4 (1cement : 4 fine sand).	Sq.m.	5.00	5.00	10.00
46	20 mm thick cement plastr 1:6 (1-cement : 6 fine sand).	Sq.m.	5.00	5.00	10.00
47	Pointing on brick work with cement mortar 1:3 (1 cement:3 fine sand).				
	i) Flush pointing.	Sq.m.	5.00	5.00	10.00
	ii) Ruled pointing.	Sq.m.	5.00	5.00	10.00
48	6mm Cement Plaster to ceiling of mix 1:3 (1-Cement : 3-fine sand).	Sq.m.	5.00	5.00	10.00
<b><u>CHAPTER - 14 : REPAIRS TO BUILDINGS:</u></b>					
49	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5Sq.m. metres and under including dismantling of plaster / cutting the patch in proper shape andpreparing and plastering the surface of the walls complete includingdisposal of rubbishto the dumping ground : With cement mortar 1:4 (1-cement: 4 fine sand). (Any where within NFL Complex).	Sq.m.	5.00	5.00	10.00
50	Flush pointing with cement mortar 1:3 (1 cement, 3 fine sand) fixed with 2% of integral waterproofing compound by weight of cement for flat tile. bricks on top of mud phaska with F.P.S. brick tiles, including removal of mud phaska and re-laying the tiles of area not more than 3.00 sq.m., all as per instructins of Engineer-in-charge.	Sq.m.	650.00	150.00	800.00
51	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 mtr. Lead.	Sq.m.	12.00	10.00	22.00
<b><u>CHAPTER - 15 : DISMANTILING &amp; DEMOLISHING:</u></b>					
52	Demolishing cement concrete including disposal of material within 50 metres lead : 1:3: 6 or richer mix.	Cu.m.	5.00	5.00	10.00
53	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable materialwithin 50 metres lead.	Cu.m.	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
54	Extra for cutting reinforcement bars in RCC or R.B. work (Payment shall be made on the cross-sectional area of RCC or R.B. work).	Sq.m.	1.00	1.00	2.00
55	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 metres lead in cement.				
	i) In Cement Mortar.	Cu.m.	6.00	4.00	10.00
	ii) In Mud Mortar.	Cu.m.	5.00	1.00	6.00
56	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	1.00	1.00	2.00
57	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground any where within NFL Complex.	Sq.m.	200.00	100.00	300.00
58	Dismantling and stacking within 50M lead fencing posts or struts including all earth work and dismantling of concrete in base of : RCC Posts / Struts.	Each	1.00	1.00	2.00
59	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking in disposal yards anywhere in NFL Complex.	Kg	5.00	5.00	10.00
60	Dismantling GI Pipes including excavation and refilling trenches after taking out the pipes including carriage of pipes in NFL stores : 15 to 40 mm nominal bore.	Metre	5.00	5.00	10.00
61	Dismantling wood work in frames of , trusses, purlines, rafters, partitions, upto 10M span and / or 5M height including stacking the materials within 50M Lead Sectional area below 40 Sq.Cm.	Metre	1.00	1.00	2.00
62	Dismantling Aluminium / Gypsum / wooden partitions / false ceilings, including Doors, windows, fixed glazings , plywood, boards, ceiling tiles etc and disposal of the unserviceable materials in disposal yards and serviceable materials in NFL Stores.	Sq.m.	5.00	5.00	10.00
63	Dismantling including stacking of serviceable materials and disposal of unserviceable material within 50 mtrs lead :				
	i) Water bound macadam road.	Sq.m.	5.00	5.00	10.00
	ii) Bituminous road.	Sq.m.	5.00	5.00	10.00
64	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50M (stacks of cleaned bricks shall be measured), from brick work in cement mortar.	1000 Nos.	4500.00	500.00	5000.00
	<b>CHAPTER - 16 : ROAD WORK :</b>				
65	Dry stone pitching 22.5 cm thick ( with free supply of stone by NFL) laid in courses and required profile with hammer dresses stone having no side less than 15 cm with minimum depth of 20 cm including preparing the bedding surface by doing required excavation etc complete.	Sq.m.	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
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66	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. - With G.I. barbed wire.	Metre	1.00	1.00	2.00
67	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	Kg.	1.00	1.00	2.00
68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sq.m.	5.00	5.00	10.00
<b><u>CHAPTER - 17 : SANITARY INSTALLATIONS:-</u></b>					
69	Providing and fixing / replacing white vitreous china water closet squatting. pan (Indian type ) including dismantling old damaged w.c. pan.). Orisa Pattern W.C. pan of size 580 x 440 mm.	Each	5.00	5.00	10.00
70	Providing and fixing / replacing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet.250x125x25 mm.	Pair	1.00	0.00	1.00
71	Providing and fixing / replacing white vitreous china pedestal type (Europeantype/wash down type) water closet pan including dismantling old / damaged w.c. pan.	Each	5.00	2.00	7.00
72	Providing and fixing solid plastic seat with lid for pedestal type W.C.pan Parryware / Hindware / Seabird / Orient (Coral) complete type or its equivalent.				
	i) White solid plastic seat with lid.	Each	12.00	8.00	20.00
	ii) Black solid plastic seat with lid.	Each	1.00	1.00	2.00
73	Providing and fixing / replacing white vitreous china kitchen sink including making all connections but excluding the cost of fittings: Size 600 x 450 x 250mm ( white glazed fire clay sink).	Each	1.00	1.00	2.00
74	Providing and Fixing Salem Stainless Steel AISI 304 (18 / 8) Kitchen Sink as per IS 13983 with CI Bracket and stainless steel plugs 40mm including painting of fittings and bracket cutting and making good the walls wherever required Kitchen Sink without drain Board : 610mm X 510mm bowl depth 200 mm.	Each	1.00	1.00	2.00
75	Providing and fixing / replacing white vitreous china wash basin including making all connections but excluding the cost of fittings: Flat back wash basin size 550x400 mm of Cera, Hindware etc.	Each	7.00	3.00	10.00
76	Providing and fixing / replacing 10 litre low level white vitreous china flushing cistern of approved make with fittings.	Each	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
77	Providing and fixing / replacing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with bard ground fixed to wooden cleats with Steel / C.P. brass screws and washers complete.	Each	6.00	4.00	10.00
78	Providing and fixing / replacing P.V.C. low level flushing cistern with manually controlled device (handle lever) conformiing to IS:7231 Parryware/Seabird/Orient (Coral) with all fittings and fixtures complete; 10 Litre Capacity--White.	Each	20.00	5.00	25.00
79	Providing and fixing / replacing P.V.C. Waste pipe for sink or wash basin including P.V.C. Waste, fittings complete;				
	i) 32 mm dia.	Each	100.00	25.00	125.00
	ii) 40mm dia / 50 mm dia.	Each	10.00	5.00	15.00
80	Providing and fixing / replcing 600x120x5 mm glass shelf with edges rounded of supported on anodised aluminium angle framewith C.P. brass brackets and guard rail complete fixed with 40 mm long screws rawl plugs etc. complete.	Each	1.00	1.00	2.00
81	A) Providing and fixing PTMT / CP Brass towel rail complete with brackets fixedtowedden cleats with CP brass screws with concealedfittings arrangement of approved quality colour and make(Prayag or equivalent)-600 mm long withtotal length of 645 mm 78mm wide and effective height of 88mm, weighingnot less than 170 grams.	Each	1.00	1.00	2.00
	B) Providing and foxing PTMT / CP Brass liquid soap container 109mm wide 125 mm high, and 112 mm distance from wall of standard shape with bracket of the same material with snap fittings of approved quality colour & make.	Each	1.00	1.00	2.00
82	Providing and fixing soil, waste and vent pipes:				
	i) Sand cast iron S & S pipe 100 mm.	Metre	1.00	1.00	2.00
	ii) Sand cast iron S & S pipe 75 mm.	Metre	1.00	1.00	2.00
83	Providing and fixing / replacing sand cast iron trap of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:100 mm inlet and 75 mm outlet.	Each	1.00	1.00	2.00
84	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430X260X350mm and 340X410X265m sizes respectively.	Each	1.00	1.00	2.00
85	Providing and fixing 100mm sand coast iron grating for gully, floor or Nahani trap.	Each	1.00	1.00	2.00
86	Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 (1-cement: 2-fine sand) in S.C.I./ C.I. pipes.				
	A) 75mm dia pipe	Each	1.00	1.00	2.00
	B) 100mm dia pipe	Each	1.00	1.00	2.00



Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
87	Providing and fixing plain bend of required degree centrifugally cast (spun) iron S&S.				
	a) 100mm	Each	1.00	1.00	2.00
	b) 75mm	Each	1.00	1.00	2.00
88	Providing and fixing collar centrifugally cast (spun) iron S&S				
	a) 100mm	Each	1.00	1.00	2.00
	b) 75mm	Each	1.00	1.00	2.00
	<b><u>CHAPTER - 18 : WATER SUPPLY:</u></b>				
89	Providing and fixing brass stop cock of approved quality - 20mm nominal bore.	Each	1.00	0.00	1.00
90	Providing and fixing ball valve (brass) of approved quality complete - 20mm nominal bore.	Each	1.00	0.00	1.00
91	Providing and fixing gun metal non-return valve approved quality (screwed end)- 25mm nominal bore.	Each	1.00	1.00	2.00
92	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete in existing line / for new work.				
	a) 15mm dia.	Each	50.00	15.00	65.00
	b) 20mm dia.	Each	25.00	10.00	35.00
	c) 25mm dia.	Each	6.00	4.00	10.00
	d) 32mm dia.	Each	1.00	1.00	2.00
	e) 40mm dia.	Each	1.00	1.00	2.00
93	Providing & placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked indicating the BIS license no. with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank of approved make.	Per Ltr. Capacity	500.00	500.00	1000.00
94	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. wherever required (Internal work).				
	i) 15 mm nominal bore.	Metre	130.00	70.00	200.00
	ii) 20 mm nominal bore.	Metre	25.00	25.00	50.00
	iii) 25mm dia nominal bore.	Metre	1.00	1.00	2.00
	iv) 32mm dia nominal bore.	Metre	1.00	1.00	2.00
95	Providing and fixing G.I. pipes complete with G.I. Fittings including trenching and refilling etc. wherever required (external work).				
	i) 15 mm nominal bore.	Metre	40.00	20.00	60.00
	ii) 20 mm nominal bore.	Metre	20.00	10.00	30.00
	iii) 25mm nominal bore.	Metre	15.00	15.00	30.00
	iv) 32mm nominal bore.	Metre	1.00	1.00	2.00
	v) 40 mm nominal bore.	Metre	2.00	2.00	4.00
96	Providing and fixing / replacing brass bib cock of approved quality: 15 mm.	Each	150.00	30.00	180.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
97	Providing and fixing / replacing brass stop cock of approved quality: 15mm nominal bore.	Each	50.00	10.00	60.00
98	Providing and fixing / replacing C.P. brass bib cock of approved quality: 15mm nominal bore, conforming to IS 8931.	Each	1.00	1.00	2.00
99	Providing and fixing gun metal gate valve with CI wheel of approved quality.				
	i) 15 mm nominal size.	Each	4.00	2.00	6.00
	ii) 20 mm nominal size.	Each	1.00	1.00	2.00
	iii) 25 mm nominal size.	Each	1.00	1.00	2.00
	iv) 32 mm nominal size.	Each	1.00	1.00	2.00
	v) 40mm nominal size.	Each	1.00	1.00	2.00
100	Providing and fixing / replacing brass ferrule with C.I. mouth cover including boring and tapping the main.				
	i) 15 mm nominal bore.	Each	1.00	1.00	2.00
	ii) 20 mm nominal bore.	Each	1.00	1.00	2.00
101	Providing and fixing / replacing uplasticised PVC connection pipe 15 mm nominal bore., 45 cm length.	Each	120.00	50.00	170.00
102	Providing and fixing / replacing C.P. brass / steel shower rose with 15 or 20 mm inlet 100 mm diameter.	Each	1.00	1.00	2.00
103	Providing and fixing / replacing ball valve (brass) of approved quality complete: High or low pressure with plastic floats 15 mm nominal bore.	Each	12.00	5.00	17.00
104	Providing and fixing/ replacing C.P. brass long body bib cock of approved quality confirming to I.S. standards and weighing not less than 690 gms. 15mm nominal bore.	Each	1.00	0.00	1.00
105	Providing lead caulked joints to spun iron or CI pipes and specials including testing of joints but excluding the cost of pig lead:-				
	a) 100mm dia metre pipe.	No.	1.00	0.00	1.00
	b) 125mm dia metre pipe.	No.	1.00	0.00	1.00
	c) 150mm dia metre pipe.	No.	1.00	0.00	1.00
	d) 200mm dia metre pipe.	No.	1.00	0.00	1.00
	e) 250mm dia metre pipe.	No.	1.00	0.00	1.00
106	Supplying pig lead at site or work.	Qtl.	0.10	0.00	0.10
107	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810gms, 15mm nominal size.	No.	1.00	0.00	1.00
108	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931, 15mm nominal bore.	No.	1.00	0.00	1.00
109	Providing and fixing C.P. brass angle valve for basin mixer and gyser points of approved quality conforming to IS:8931, 15mm nominal bore.	No.	4.00	1.00	5.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
110	Making chases upto 7.5x7.5 cm in walls including making good after housing G.I. pipe etc.	Metre	2.00	2.00	4.00
<b><u>CHAPTER - 19 : DRAINAGE</u></b>					
111	Providing, laying and joining glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.				
	i) 100 mm diameter.	Metre	1.00	0.00	1.00
	ii) 150 mm diameter.	Metre	1.00	0.00	1.00
	iii) 200 mm diameter.	Metre	1.00	0.00	1.00
112	Providing and laying cement concrete 1:5:10 (1 cement:5 coarse sand :10 graded stone aggregate 40 mm nominal size) around S.W.pipes including bed concrete as per standard design:				
	i) 100 mm diameter S.W pipe.	Metre	1.00	0.00	1.00
	ii) 150 mm diameter S.W pipe.	Metre	1.00	0.00	1.00
	iii) 200 mm diameter S.W pipe.	Metre	1.00	0.00	1.00
113	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement:4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement:4 coarse sand:8 graded stone aggregate 40 mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement:3 coarse sand):Finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: 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). With F.R.S. bricks.	Each	1.00	0.00	1.00
114	Providing & fixing square mouth S.W. gully trap grade A complete with C.I. Grating brick masonry chamber with water tight CI cover with frame of 300X300 mm (inside) size 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.				
	i) 100X100 mm size P Type with FPS bricks of class desig. 75.	Each	1.00	0.00	1.00
<b><u>CHAPTER - 21 : ALUMINIUM WORK</u></b>					
115	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 ), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including clear, angle, Aluminium snap breading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer - In - Charge ( Glazing and panelling to be paid for separately).				

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
	i) For fixed poortion.	Kg.	2.00	2.00	4.00
	ii) For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).	Kg.	4.00	4.00	8.00
116	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS:6315 marked, Hardwyn make (model 3000) or equivalent for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S.sheet outer box with slide plate etc. complete as per the direction of Engineer-In-Charge. with Stainless Steel cover plate.	Each	2.00	0.00	2.00
117	Providing and fixing glazing in Aluminium doors windows ventilators shutters and partitions etc with PVC /Neoprene gasket etc. complete as per drawings :				
	i) With glass psanes 4 mm thickness(Measuring not less than 10 Kg / Sq.m.).	Sq.m.	1.00	1.00	2.00
	ii) With glass panes 5.5 mm thickness( Measuring not less than 13.75 Kg / Sq.m.).	Sq.m.	1.00	1.00	2.00
<b><u>CHAPTER - 22 : WATER PROOFING</u></b>					
118	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/ sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sq.m.	2.00	2.00	4.00
<b><u>B NON-SCHEDULED ITEMS</u></b>					
119	Fixing steel gates single or double shutters supplied by the Deptt. free of cost of NFL stores including embedding the hold fast lugs etc. as per site requirements, specifications and instructions of the Engineer.-in-Charge with cement concrete 1:3:6 (1 cement: 3 river sand:6 graded stone aggregate 20 mm nominal size).				
	a) Double leaf	Each	2.00	0.00	2.00
	b) Single leaf	Each	2.00	0.00	2.00
120	Repair to sink including roughening, removal of existing terrazzo of existing wherever necessary and providing 18mm terrazzo finishing rubbed and polished complete under layer 12 mm thick cement plaster 1:3 (1 cement: 3 river sand) and top layer 6 mm thick with black or white and marble chips 3mm and down size laid in cement marble powder mix 3:1 by weight in proportions of 4:7 (4 cement marble power mix: 7 marble chips) by volume.	Each	1.00	0.00	1.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
121	Uprooting peepal tree/ wild growth on top of roof / wall/ plinth protection by taking out brick tiles and weeding out the roots of plants completely and making the area water proof by resetting and raising up the depressed/ damaged tiles and repointing the area attended with cement mortar 1:3 (1-Cement: 3-fine sand) wherever required including filling earth below brick tiles wherever required at site complete all as per instructions of the Engineer-in-charge.	Each	210.00	20.00	230.00
122	Fixing on wall face unplasticised- rigid PVC rain water pipes conforming to IS-13592 type A including jointing with sealing conforming to IS-5382 leaving 10 mm gap for thermal expansion (labour rate, Material shall be supplied by NFL free of cost). single socked pipes 110 mm diameter.	Metre	1.00	0.00	1.00
123	Providing and fixing GI fittings conforming to IS 1239 Part-II (ISI marked) in place of worn out GI fittings, when pipe line replacement is not involved. Note: Nothing extra shall be payable for dismantling existing worn out fittings wherever required.				
	i) GI BEND 90°				
	a) 15mm dia.	Each	2.00	1.00	3.00
	b) 20mm dia.	Each	1.00	1.00	2.00
	c) 25mm dia.	Each	1.00	1.00	2.00
	d) 32mm dia.	Each	1.00	1.00	2.00
	e) 40mm dia.	Each	3.00	2.00	5.00
	f) 50mm dia.	Each	3.00	2.00	5.00
	ii) GI ELBOW				
	a) 15mm dia.	Each	250.00	150.00	400.00
	b) 20mm dia.	Each	45.00	25.00	70.00
	c) 25mm dia.	Each	5.00	4.00	9.00
	iii) GI NIPPLES/ SOCKETS				
	a) 15mm dia.	Each	400.00	325.00	725.00
	b) 20mm dia.	Each	100.00	50.00	150.00
	c) 25mm dia.	Each	35.00	15.00	50.00
	d) 32mm dia.	Each	5.00	5.00	10.00
	e) 40mm dia.	Each	2.00	2.00	4.00
	f) 50mm dia.	Each	1.00	1.00	2.00
	iv) GI PLUGS				
	a) 15mm dia.	Each	30.00	10.00	40.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
	b) 20mm dia.	Each	8.00	4.00	12.00
	v) G.I. Reducer Sockets				
	a) 20 to 15 mm dia.	Each	40.00	10.00	50.00
	b) 25mm to any size.	Each	15.00	10.00	25.00
	vi) G.I. Tee (Equal)				
	a) 15mm dia.	Each	60.00	30.00	90.00
	b) 20mm dia.	Each	8.00	4.00	12.00
	c) 25mm dia.	Each	3.00	2.00	5.00
124	Removing and fixing of water geyser at suitable heights including disconnecting / reconnecting GI pipe connections, lowering/ erecting the geyser complete all as per site requirements specifications and as per instructions of the Engineer-in-charge (half of the payment will be made in case the geyser is only removed or fixed as the case may be.	Each	1.00	1.00	2.00
125	Providing and fixing CP brass handles with adjusters in low level flushing cistern of approved quality and make including removing old handle etc. complete all as per specifications and instructions of the Engineer –in-charge.	Each	1.00	0.00	1.00
126	Providing and fixing CI bib tap approved quality with brass spindle (Heavy Duty) 15mm size weight not less than 400 gram including dismantling old tap complete all as per specifications and instruction of the Engineer-in-charge.	Each	150.00	30.00	180.00
127	Providing and fixing PVC ball to ball valve in overhead storage tanks/ flush cistern of approved quality complete including removal of old/ damage ball 100mm dia.	Each	50.00	20.00	70.00
128	Providing and fixing 450mm long approved quality CP copper connection pipes for wash basin, flush cistern and geyser etc. with brand and manufacture complete all as per specifications and instructions of Engineer-in-charge.	Each	4.00	0.00	4.00
129	Providing and fixing approved quality CP fancy bath shower rose decorative and adjustable type of approved brand and manufacturer complete all as per specifications and instructions of the Engineer-in-charge.	Each	1.00	0.00	1.00
130	Replacement of heavy duty CP brass pillar tap 15mm NB of approved design quality and make complete all as per specification to the Engineer-in-charge.	Each	5.00	2.00	7.00
131	Removing chockage of sewer lines of all diameter at all depths, including plugging the inlet pipes where ever required and removing manhole covers on both sides, rodding sewer line and placing the covers after removing chockage and cleaning / flushing inlet/ outlet pipes after removing plug provided on inlet pipes, all tools and tackles including ropes, rodding set, hose pipes, baskets whatsoever required for the job will be arranged by the contractor, dewatering pump if required will be supplied by the NFL maintenance office free of cost, complete all as per specification and instructions of Engineer-in-charge.	Each	5.00	0.00	5.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
132	Removing chokage of floor trap or WC or sink or wash basin waste including cleaning of trap and removing the rubbish upto 50M lead as per specifications and instructions of the Engineer-in-charge (in Public building of T/ship Area).	Each	5.00	0.00	5.00
133	Removal of old MS/ PVC water storage tanks of all sizes from the roofs of the quarters/ public buildings in NFL T/ship (at all elevation) after disconnecting GI pipes and fitting of the tanks and lowering down the same to ground level including depositing the same it NFL salvage store yards in Factory Area.	Each	2.00	0.00	2.00
134	Erecting PVC water storage tanks on the roofs of quarters / public buildings. (at all elevation) including fixing in position, making connection of GI pipes/ GI specials with PVC tanks as well as drillings of holes in PVC tanks complete all as per specifications and directions of the Engineer-in-charge.				
	i) 270 Ltrs.	Each	1.00	0.00	1.00
	ii) 500 Ltrs.	Each	1.00	0.00	1.00
	iii) 1,000 Ltrs.	Each	1.00	0.00	1.00
135	Attending various Public Health complaints in different types of houses in Naya Nangal T/ship as and when required during the period of contract (one year or more) period of one month shall be taken as one unit for the purpose of payment to the contractor. The contractor will be paid once for every house where any complaints is attend at least once a month irrespective of the number of complaints attended during this period. Date of start for reckoning period of one month (30-days) shall be date on which contractor attends the complaints in first instance. Scope of work shall involve the following:-				
	i) Repair of leakage bib taps/ pillar taps/ stop cocks including replacement of PVC washers wherever required.				
	ii) Removal of chockage in wastes of wash basins / sinks.				
	iii) Removal of chockage of floor traps (bathrooms/ kitchen).				
	iv) Removal of chockage of WC pans.				
	v) Repairs to flushing cisterns for restoration of flushing system.				
	vi) Repair to over flowing over tanks including repair to float etc.				
	Note: All tools and tackles and PVC washers etc. required for the jobs shall be arranged by the contractor at his own cost. Complaints shall have to be attended on day-to-day basis as and when the same are handed over to the contractor in writing. In replacement of any worn out/ damaged fitting/ accessories required the same shall be carried out by the contractor with approved quality material and same for separately under respective NIT item. However all the fittings/ accessories supplied free of cost by NFL shall be fixed by the contractor without any extra charges. This item shall be applicable to all types of house in Naya Nangal T/ship area.				
A)	For all lower type houses upto Type –III.	Per house	2500.00	0.00	2500.00
B)	For house type IV and bungalows of Sectors -VII.	Per house	225.00	0.00	225.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
136	Cleaning of manholes of average size 4' X3' and depth varying from 3' to 12' including pumping/ bailing out water / plugging the inlet pipes wherever required removing the sludge and any other foreign matter and removing disposal of the same at a designated spot within lead of 1 KM and cleaning / flushing the inlet/ outlet pipes after removing the plugs provided on the inlet pipes. Necessary minor repairs wherever required to damaged manholes with cement mortar 1:4 and cement concrete 1:2:4, bricks work in cement mortar 1:4, complete all as per specifications and site requirements and instructions of the Engineer-in-charge and shall have to be carried out by the contractor and nothing extra shall be payable for the same. Required quantity of cement for repairs and dewatering pump required for the job shall however be supplied free of cost at NFL stores/ maintenance stores.	Each	3.00	2.00	5.00
137	Cleaning of road gully grating/ chambers by removing grating covers of all types/ taking out rubbish/ earth /mud/water and weeding out grass/ roots etc. and placing the gratings covers in position after taking out the earth/ rubbish etc. from the mouth of connecting pipes drains etc. complete all as per the directions of the Engineer-in-charge (The rates including disposal of rubbish / earth etc. within a lead 50M).	Each	2.00	2.00	4.00
138	Providing and fixing sand cast iron P or S trap of self cleaning design including cost of cutting and making good at the walls and floors and taking out the old trap wherever necessary complete all as per instructions of the Engineer-in-charge.	Each	2.00	2.00	4.00
139	Fixing brass or CP or CI bib cock / stop cock,/ pillar type angle cock , brass ball cock, CP waste, PVC waster pipes, PVC connection, 15mm NB complete including dismantling the old / damage tap etc. wherever required and depositing the same in Civil Maint. Stores complete all as per instructions of the Engineer-in-charge.	Each	50.00	0.00	50.00
140	Providing and fixing spare parts of sewer line machine levelling instruments/ dewatering diesel engine pump sluice valve/ fire hydrants/ drilling machines/ cutting machine etc. / Rickshaw Cart/ fancy items pertaining to public health work and any other items, items which are not covered under C.P.W.D. DSR/ items of Part-B including removal of old/ worn out parts as per instructions of the Engineer-in-charge. The item also includes the rental charges for Earth Excavator, Tractor/ Trolley & Grinding Machinery / Road Roller, for taking up jobs during any eventually. For the purpose of payment %age above the Market rates of material supported by cash receipt / vouchers may be quoted. Total payment shall be made as under market rate supported by voucher/ cash receipt +%age quoted by the party.	LS	65000.00	60000.00	125000.00
141	Providing and fixing of brass coupling for flush pipe (any size).	Each	1.00	0.00	1.00
142	Providing and fixing of C.P. jet connection for EWC as approved by Engineer-in-charge.	Each	8.00	5.00	13.00
143	Providing and fixing of C.P glass shelf of size 600 X 120X5mm (fancy types) with brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc. complete as approved by the Engineer-in-charge.	Each	1.00	0.00	1.00
144	Providing & Fixing PVC handles for PVC flush cistern as approved by the Engineer-in-charge.	Each	12.00	3.00	15.00
145	Providing and Fixing of PVC floor trap as approved by Engr. In-charge.				
	i) 100 X 75.	Each	8.00	4.00	12.00
146	Providing and Fixing bend for PVC low level flush cistern as approved by Engineer-in-charge.				



Sr. No.	Description of work		Unit	Quantity		
				T-Ship	Factory	Total
	i)	Long bend.	Each	20.00	5.00	25.00
	ii)	Short bend.	Each	8.00	0.00	8.00
147	Providing & fixing PVC automatic urinal flushing system of approved make.					
	a)	5 Ltr. Capacity	Each	1.00	0.00	1.00
	b)	10 Ltr. Capacity	Each	1.00	0.00	1.00
148	Grinding the existing Marble stones / Mosaic floors, skirting, dados , platform , or any other area manually or by machines including finishing, polishing complete (Thegrinding stone, machine, polish & detergents will be arranged by the contractor at his cost.		Sq.m.	40.00	10.00	50.00
149	A)	Repair / tightening / fixing / re-fixing of barbed wire fencing to its entire elevation area with RCC / structural steel fencing poles At ground level or at top of boundary wall or at any other locations including stappling, binding with GI wire / suitable means complete. ( old barbed wire shall be supplied free by NFL at its stores / to be collected by the contractor in loose condition from other sites).	Per Metre Coir Length	800.00	700.00	1500.00
	B)	Extra charges for providing new GI barbed wire at missing locations / replacing the old damaged barbed wire.	KG	200.00	100.00	300.00
150	Providing & Fixing / replacing C.P. Brass waste for kitchen sink / wash basins etc. :					
	i)	For Sinks 50 mm dia.	Each	1.00	1.00	2.00
	ii)	For Sinks 40 mm dia.	Each	2.00	2.00	4.00
	iii)	For Wash basins 32 mm dia.	Each	20.00	5.00	25.00
151	Providing and fixing / Replacing the fittings of PVC Low level flushing cistern, PVC Syphon and other lever assembly.		Each	1.00	1.00	2.00
152	Assisting in executing various un-measurable jobs for urgent and unforeseen plant requirements, which are not including in any items stated above/ scope of works as per instructions of the Engineer-in-Charge. activities :					
	i)	Skilled Labour.	Each operation	800.00	350.00	1150.00
	ii)	Un-skilled Labour.	Each operation	500.00	400.00	900.00
153	Laying glazed /vitrified/ ceramic tiles in flooring, treads of steps, landing, skirting, risers and dados on 12 mm thick cement plaster 1:3 (1 cement:3 fine sand) and jointed with white cement slurry complete all as per specifications and instructions of the Engineer-in-Charge. Labour Rate with free issue of glazed tiles at NFL Stores. White-cement required for the job shall however be arranged by the contractor and nothing extra shall be payable.		Sq.m.	50.00	50.00	100.00
154	Laying marble stone/ mosaic tiles/ kota stone / granite tiles / granite stone flooring on 20mm (av.) thick base laid with cement mortar 1:4 and jointed with gray cements slurry including rubbing and polishing complete. Marble stone / mosaic tile / kota stone / granite tiles/ granite stone shall be supplied free of cost by NFL Stores/ Civil Stores. White cement and pigmnt required for the jobs shall however be arranged by the contractor and nothing extra shall be payable.		Sq.m.	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
155	Removal of all types of building rubbish / dust depositing as well as algee and other wild growth from roof and chajjas and finally cleaning the surface by wire/ coir brushes and disposal of the aforesaid rubbish to nearby dumping yard at ground level at all leads.	Sq.m.	1650.00	825.00	2475.00
156	Fixing RCC/angle iron posts for fencing in cement concrete as per required alignment of the fencing including carriage of the posts at the site of work from Civil Maint. stores within a lead of 1 KM complete all as per specifications and instructions of the Engineer.-in-Charge. Cement concrete and earth work to be paid separately under relevant items (Labour Rate only) RCC/angle iron post shall be supplied free of cost at Civil Maint. Store.	Each	30.00	5.00	35.00
157	Providing and laying three course water proofing treatment with hessian base self finished bitumen felt type 3 grade 1 in 400mm wide strips over leaking joints /cracked sheets/ holes etc. consisting of 1st, 3rd course of blown or/ an residual bitumen applied @1.45 Kgs. /Sq.m. of area for each course and second course of roofing felt including preparation of surface complete all as per the specifications and directions of the Engineer-in-charge.	Mtr.	1.00	1.00	2.00
158	Attending various types of jobs pertaining to Masonry/ Carpentering / Plumbing /Steel Structural, asphaltting jobs in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship. For this purpose contractor has to deploy two persons (one skilled and one unskilled), which will be treated as one unit of operation. All material required for the job shall be supplied free of cost at NFL Stores.	Per operation	2500.00	1300.00	3800.00
A)	Masonry repairs jobs:-				
i)	Attending atleast one complaint for repairing old/ existing bricks/ acid proof tiles at different locations of various plants / T/ship areas including removal of old tiles and fixing the same with new / old tiles with cement/ epoxy mortar by engaging skilled masons/ labour as per the direction of the engineer-in-charge. The item shall includes the carriage of brick/ cement/epoxy mortar from the site store, the Rickshaw cart shall however be supplied by the NFL.				
ii)	Attending atleast one complaint for repairing old/ existing brick work with old bricks available at site/ Civil store in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship, including carriage of required material from one site to another.				
iii)	Attending atleast one complaint for patch plastering with cement sand mortar of smaller areas in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship, the item included carriage of cement / sand required for the job at different locations which shall be supplied free of cost by the NFL stores.				
iv)	Attending at least one complaint for roof / epoxy patch points in the patches in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship including leveling the depressed area for proper slopes as per the instruction of the Engineer-in-charge.				

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
v)	Attending atleast one complaint for grouting small pot holes / foundations bolts with required ratio of cement / epoxy mortar to make the area finishing or to make the foundation / concrete structure fit for accommodating the load of mechanical equipment, including fixing the foundation bolt at required spacing etc. by making templates and fixing the required structures. Material such as cement sand epoxy / bolts shall be supplied by NFL stores, all as per instruction of the Engineer-in-charge.				
vi)	Attending at least one complaint for variety of masonry repairs to brick/ acid proof tiles / cement plastering / cement roof patch pointing in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship, including carriage of constructional material at site and curing the area on the next day of job. Cement / epoxy material required at the job shall be supplied free of cost by NFL stores.				
B)	Carpentry repair jobs :-				
i)	Replacing / re-fixing at least four s/bolts/ t/bolts/ hydraulic door closers in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship, with new / old screws & nut bolts available at site.				
ii)	Repairing / re-fixing at least three doors/ cupboard small windows shutters in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship, including dressing the shutters to the required size and shape to match with existing rebate of frames.				
iii)	Repairs to wooden deck floors / stairs /railing of cooling towers by replacing at least four old/ new battens upto 6 feet long with steel screws/ nuts/ bolts as per the existing site requirements. Note: Contractor has to attend the job in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship / top height of cooling tower and to carry the required wooden fixture/ wooden logs/ ply wood/ sunmica etc. required at the desired site.				
iv)	Removing old sunmica / ply wood/ wooden board from table tops, false ceiling & cup board shutters etc. and replacing the same with new lining nails/ adhesives, after dressing to the required shape and size at one or more in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship and attending to the area not less than 1.5 sq.m.				
v)	Replacing the old/ existing worn out horizontal / vertical member of Chowkhats at least three in numbers in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship, including removal of the old / existing member including carriage of new / workable wood at the site of job, which shall be supplied free of cost by NFL.				
vi)	Fixing at least four curtain rods in the concrete / wooden palmet in different location of Plant areas, Public Building and Sector-7 Banglow of T/ship by making holes in the concrete palmet or fixing female attachment after modifications in the wooden concrete palmet to match the door opening, all as per the instruction of the engineer-in-charge Any wooden / MS fixture required for the job shall be supplied by the NFL stores.				

Sr. No.	Description of work		Unit	Quantity		
				T-Ship	Factory	Total
	vii)	Repairing / replacing variety of carpentry job i.e. at least one sliding bolt/ t-bolt/ hydraulic door closer, one door/ window shutter and one horizontal/ vertical style of wooden frame/battened /paneled door shutter at different location of public buildings of T/ship / Factory area.				
	C)	Asphalter jobs :- Attending at least one complaint of road patches on the premixed bituminous roads /roof leakges by applying tar felt patches including carriage of required material at different location of site at all heights of building at T/ship / Factory Area.				
159		Supplying and stacking of second class bricks designated 75 (for misc. jobs carried out by labour engaged as stated above.	Per 1000	2500.00	2500.00	5000.00
160		Supplying and stacking of 12.5mm nominal size crushed aggregate (for misc. jobs to be carried out by labour engaged as stated above.	Cu.m.	35.00	20.00	55.00
161		Supplying and stacking of locally available coarse sand / Sulej sand.	Cu.m.	100.00	40.00	140.00
162		Brick work (with old/ dismantled bricks) in superstructure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 fine sand ). Labour Rate only.	Cu.m.	30.00	10.00	40.00
163		Brick work (with old/ dismantled bricks) in F&P with cement mortar 1:6 (1 cement : 6 fine sand ). Labour Rate only.	Cu.m.	1.00	1.00	2.00
164		Half brick masonry (with old/ dismantled bricks) in foundation and plinth in: cement mortar 1:4 (1 cement: 4 coarse sand)	Sq.m.	8.00	2.00	10.00
165		Half brick masonry (with old/ dismantled bricks) in foundation and plinth in: cement mortar 1:4 (1 cement: 4 coarse sand)	Sq.m.	1.00	1.00	2.00
166		Providing & fixing chromium plated towel rail 600mm long complete.	No.	1.00	1.00	2.00
167		Providing & fixing PVC Valve Cock 15NB for PVC Low level Flushing Cistern.	No.	10.00	5.00	15.00
168		Supply of Mechanical Excavator / JCB including Diesel and Operator, for urgent excavation jobs on hourly basis, as per the site requirement and instructions of Engineer-in-charge.	Per Hour	20.00	5.00	25.00
169		Supplying of different materials at site for organising the official functions / ceremoneys / emergent repairs etc.:				
	a)	White lime	Kg	100.00	60.00	160.00
	b)	Surkhi (GERU)	Kg	20.00	10.00	30.00
	c)	Dam-it of M/s STP Make	Kg	3.00	2.00	5.00
	d)	Sealing Compound of M/s STP	Kg	5.00	5.00	10.00
	e)	Self Adhesive Flash Strip size 10 Mtr. X 100 mm of M/s STP	Each	3.00	2.00	5.00
170		Providing and fixing homogeneous Polyvinyle Chloride sheet / tile in flooring and skirtings in approved pattern on a smooth and damp proof base using rubber adhesives of approved quality aand manufacturer like Dunlop S-758 , Fevicol SR-998 or equivelent including rolling with light wooden rollers weighing about 5 Kg all complete in approved colour and shades : 2.0 mm thick.	Sq.m.	1.00	1.00	2.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
171	Providing and fixing / replacing stainless steel jali (grating) withor without hole for waste pipe for floor/Nahani trap: 150mm dia.	Each	50.00	25.00	75.00
172	Providing and fixing C.P. brass close hole basin mixer pillar tap of approved quality and make, weighing not less than 1.970 Kg. 15mm nominal bore of standard back type.	Each	1.00	0.00	1.00
173	Providing and fixing PTMT (An Engineering thermoplastic), push cock of approved quality colour and make (Prayag or equivalent). 15mm nominal size, with 20mm B.S.P. female threads, 100mm long, 57mm high and 33mm wide with 12mm seat dia and replicable washers, weighing not less than 75 gms.	Each	1.00	0.00	1.00
174	Providing and fixing / Replacing PVC (Heavy duty), P or S Trap for WC seatof size 75-100 mm with necessary material including dismantalling the old damaed piece.	Each	5.00	5.00	10.00
175	Fixing of G.I.Pipe lines issued free by NFL (Necessary fittings wherever required to be fixed in laying the pipes shall be arrangedby the contractor which shall be paid for separately. Excavation,Cutting chase in walls / floors wherever required shall also be paid separately) - Internal / external work.				
	a) 15 mm nominal bore.	Metre	10.00	10.00	20.00
	b) 20 mm nominal bore.	Metre	10.00	10.00	20.00
	c) 25 mm nominal bore.	Metre	10.00	10.00	20.00
176	Providing and laying 100mm thick factory made cement concrete interlocking paver block (ISI Marked) of M -35 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sq.m.	5.00	5.00	10.00
177	Deductions Items against which the material supplied by the contractor shall be received in stores in case the same not fixed at site.				
	a) Deduct for using stone available with NFL, for all types of stone work.	Cu.m.	1.00	1.00	2.00
	b) Deduct for using old/existing stone available at site in random rubber masonry.	Cu.m.	1.00	1.00	2.00
	c) Deduct for not fixing W.C. pan (Indian, and European type).	Each	25.00	10.00	35.00
	d) Deduct for not fixing CI or PVC or China ware flush cistern.	Each	60.00	30.00	90.00
	e) Deduct for not fixing bevelled edge mirror.	Each	5.00	5.00	10.00
	f) Deduct for not fixing China ware / steel item such as wash basin, urinal, pot, kitchen/ laboratory sinks.	Each	15.00	10.00	25.00
	g) Deduct for not fixing PVC seat cover pedestal type W.C. pan.	Each	20.00	10.00	30.00
	h) Deduct for not fixing pillar taps, brass / CI taps, angle cock, ball cock, CP Jet, PVC connection / waste pipes.	Each	500.00	160.00	660.00
	i) Deduct for not fixing G.I. Fitting I.e. G.I. Socket, Tee, Elbow Nipple, Union etc. G.I. Plugs, C.P. gratings etc.	Each	700.00	500.00	1200.00
	j) Deduction for not fixing PVC Drain Pipe.	Each	50.00	40.00	90.00
	k) Deduct for not fixing Gate Value etc.	Each	50.00	20.00	70.00

Sr. No.	Description of work	Unit	Quantity		
			T-Ship	Factory	Total
	l) Deduct for not fixing G.I. Pipe in position of any size.	Mtr.	200.00	150.00	350.00
<b>Note:</b> All unusable fittings reclaimed from the site shall have to deposited in the Civil Stores.					

**NOTE : - THE PREMIUMS PAYABLE OVER DSR-2021 RATES, FOR EXTRA ITEMS / ADDITIONAL ITEMS EXECUTED UNDER CHAPTER NO.1 TO 26 (EXCEPT CHAPTER NO. 9, 10 & 20.) OF DSR - 2021 SHALL BE CALCULATED AND PAID AS UNDER:-**

- ( 1 ) For All Chapters of DSR-2021 (Chapters 1 to 26, Except Chapter No. 9, 10 & 20), the average percentage premium of individual Sub-Head (Chapter) over DSR - 2021 shall be calculated based on the awarded rates of that subhead.
- ( 2 ) The overall average premium of all the sub heads shall also be worked out based on the awarded value of all sub-heads.
- ( 3 ) The lower of the premiums so calculated above as per (1) & (2) (Sub head average / overall average) shall be paid for extra item/additional items under Chapters 1 to 26, Except Chapter No. 9, 10 & 20.

The percentage premium of sub head shall also be applicable for basic rates of items

Chapter No.	Estimated value on DSR-2021	Amount on Awarded Rates
1	5500.00	6000.00
2	80000.00	70000.00
3	1000.00	1300.00
4	120000.00	137000.00

(Signatur of Contractor  
with Rubber Stamp)

(Rajesh Kumar)  
Chief Manager (Civil)