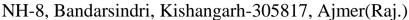


# राजस्थान केन्द्रीय विश्वविद्यालय

## **Central University of Rajasthan**





Date: 19.10.2024

NIT No. CURAJ/R/F.161/2024/2296

#### **Financial Bid**

Name of Work: Comprehensive Annual Operation and Maintenance Services (Day to Day) including Round the clock Security Services; all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights, etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M equipment, HVAC System, Passenger Lifts; Online UPS including battery bank, Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; ICT Services (CCTV cameras, LAN System, Wi-Fi System, EPBAX System, Public Address System, Operation & CAMC of Audio & Video Conferencing System, Networking, Switches, Active & Passive Network components, Computer Peripherals etc.); Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.

# SCHEDULE OF QUANTITIES – I SH- I (A): DAY TO DAY CIVIL MAINTENANCE WORKS AT CURAJ.

S.No.	Description of items	Qty	Unit	Rate	Amount
1	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 getting out and				
	disposal of excavated earth upto 50 m and lift upto				
	1.5 m, as directed by Engineer-in- Charge:				
1.1	All kinds of soil	1000	sqm		
2	Earth work in excavation by mechanical means				
	(Hydraulic excavator)/manual means over areas				
	(exceeding 30 cm in depth, 1.5 m in width as well				
	as 10 sqm on plan) including getting out and				
	disposal of excavated earth lead upto 50 m and lift				
	upto 1.5 m, as directed by Engineer-in-charge.				
2.1	All kinds of soil	100	cum		
3	Earth work in excavation by mechanical means				
	(Hydraulic excavator) / manual means 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 1.5 m,				
	including getting out the excavated soil and				
	disposal of surplus excavated soil as directed,				
	within a lead of 50 m.				
3.1	All kinds of soil.	100	cum		

Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:  4.1 All kinds of soil 4.1.1 Pipes, cables etc. not exceeding 80 mm dia. 20 metre  4.1.2 Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia 20 metre  4.1.3 Pipes, cables etc. exceeding 80 mm dia but not exceeding 600 mm  5 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 up to 50 m and lift upto 1.5 m.  6 Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.  7 Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.  7.1 All kinds of soil 1000 sqm  Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not	
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8.1 All kinds of soil 20 each	
9 Clearing jungle including uprooting of rank	
vegetation, grass, brush wood, trees and saplings of	
girth up to 30 cm measured at a height of 1 m	
above ground level and removal of rubbish up to a	
distance of 50 m outside the periphery of the area	
cleared. 100 sqm	
10 Clearing grass and removal of the rubbish up to a	
distance of 50 m outside the periphery of the area	
cleared. 100 sqm	
Providing and laying in position cement concrete	
of specified grade excluding the cost of centering	
and shuttering - All work up to plinth level:	
11.1 1:2:4 (1 cement : 2 coarse sand (zone-III) derived	
from natural sources: 4 graded stone aggregate 20	
mm nominal size derived from natural sources). 50 cum	1
11.2 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived	
from natural sources: 8 graded stone aggregate 40	
mm nominal size derived from natural sources). 50 cum	
propping etc. and removal of form work for :	
12.1 Foundations, footings, bases for columns 50 sqm	

13	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand derived			
	· ·			
	from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural			
	sources) over 75mm thick bed of dry brick ballast			
	40 mm nominal size, well rammed and			
	consolidated and grouted with fine sand, including			
	necessary excavation, levelling & dressing &	<b>5</b> 0		
1.4	finishing the top smooth.	50	sqm	
14	Providing and laying damp-proof course 40mm			
	thick with cement concrete 1:2:4 (1 cement : 2			
	coarse sand derived from natural sources): 4			
	graded stone aggregate 12.5mm nominal	<b>~</b> 0		
	size derived from natural sources)	50	sqm	
15	Providing and laying in position specified grade of			
	reinforced cement concrete, excluding the cost of			
	centering, shuttering, finishing and reinforcement-			
	All work up to plinth level :			
15.1	1:1.5:3 (1 cement: 1.5 coarse sand (zone-III)			
	derived from natural sources: 3 graded stone			
	aggregate 20 mm nominal size derived from			
	natural sources).	10	cum	
16	Reinforced cement concrete work in walls (any			
	thickness), including attached pilasters, buttresses,			
	plinth and string courses, fillets, columns, pillars,			
	piers, abutments, posts and struts etc. above plinth			
	level up to floor five level, excluding cost of			
	centering, shuttering, finishing and reinforcement			
16.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III)			
	derived from natural sources : 3 graded stone			
	aggregate 20 mm nominal size derived from			
	natural sources).	10	cum	
17	Reinforced cement concrete work in beams,			
	suspended floors, roofs having slope up to 15°			
	landings, balconies, shelves, chajjas, lintels, bands,			
	plain window sills, staircases and spiral stair cases			
	above plinth level up to floor five level, excluding			
	the cost of centering, shuttering, finishing and			
	reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse			
	sand (zone-III)derived from natural sources: 3			
		5	cum	
18	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	5	cum	
18	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting,	5	cum	
	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for	5	cum	
18.1	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for			
18.1	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete	50	cum	
	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers	50	sqm	
18.1	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers			
18.1	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and	50	sqm sqm	
18.1 18.2 18.3	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts	50	sqm	
18.1	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including	50	sqm sqm	
18.1 18.2 18.3	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position	50	sqm sqm	
18.1 18.2 18.3	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	50	sqm sqm	
18.1 18.2 18.3	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  Thermo-Mechanically Treated bars of grade Fe-	50 10 10	sqm sqm	
18.1 18.2 18.3 19	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  Thermo-Mechanically Treated bars of grade Fe-500D or more.	50	sqm sqm	
18.1 18.2 18.3	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  Thermo-Mechanically Treated bars of grade Fe- 500D or more.  Brick work with common burnt clay F.P.S. (non	50 10 10	sqm sqm	
18.1 18.2 18.3 19	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  Thermo-Mechanically Treated bars of grade Fe- 500D or more.  Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in	50 10 10	sqm sqm	
18.1 18.2 18.3 19	sand (zone-III)derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).  Centering and shuttering including strutting, propping etc. and removal of form for  Foundations, footings, bases of columns, etc. for mass concrete  Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  Thermo-Mechanically Treated bars of grade Fe- 500D or more.  Brick work with common burnt clay F.P.S. (non	50 10 10	sqm sqm	

21	Brick work with common burnt clay F.P.S. (non			
	modular) bricks of class designation 7.5 in			
	superstructure above plinth level up to floor V			
	level in all shapes and sizes in :			
21.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	5	cum	
21.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	25	cum	
22	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)			
	upto plinth level with :			
22.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	10	cum	
23	Providing wood work in frames of doors, windows,			
	clerestory windows and other frames, wrought			
	framed and fixed in position with hold fast lugs or			
	with dash fasteners of required dia & length (hold			
	fast lugs or dash fastener shall be paid for			
	separately).			
23.1	Second class teak wood	5	cum	
24	Providing and fixing ISI marked flush door shutters	-		
	conforming to IS: 2202 (Part I) decorative type,			
	core of block board construction with frame of 1st			
	class hard wood and well matched teak 3 ply			
	veneering with vertical grains or cross bands and			
	face veneers on both faces of shutters.			
24.1	35 mm thick including ISI marked Stainless Steel			
	butt hinges with necessary screws	20	sqm	
24.2	30 mm thick including ISI marked Stainless Steel		-	
	butt hinges with necessary screws	20	sqm	
25	Providing and fixing wire gauge shutters using		-	
	galvanized M.S. wire gauge of average width of			
	aperture 1.4 mm in both directions with wire of dia			
	0.63 mm, for doors, windows and clerestory			
	windows with hinges and necessary screws:			
25.1	35 mm thick shutters			
25.1.1	With ISI marked stainless steel butt hinges of			
	required size			
25.1.1.2	Second class teak wood	20	sqm	
25.2	30 mm thick shutters	20	sqiii	
25.2.1	With ISI marked stainless steel butt hinges of			
23.2.1	required size			
25.2.1.1	Second class teak wood	20	sqm	
26	Providing and fixing wooden moulded beading to	20	sqiii	
20	door and window frames with iron screws, plugs			
	and priming coat on unexposed surface etc.			
	complete:			
26.1	2nd class teak wood			
26.1.1	50x12 mm	100	metre	
26.1.1 26.1.2	50 x 20 mm	100	metre	
20.1.2 27	Providing and fixing M.S. grills of required pattern	100	metre	
<i>41</i>				
	in frames of windows etc. with M.S. flats, square			
	or round bars etc. including priming coat with			
	approved steel primer all complete.			
27.1	Fixed to steel windows by welding	20	lza	
27.1		20	kg	
41.4	Fixed to openings /wooden frames with rawl plugs	20	1.~	
	screws etc.	20	kg	1

28	Providing and fixing fly proof galvanized M.S.			
	wire gauge to windows and clerestory windows			
	using wire gauge with average width of aperture			
	1.4 mm in both directions with wire of dia 0.63			
	mm all complete.			
28.1	With 2nd class teak wood beading 62X19 mm	10	sqm	
28.2	With 12 mm mild steel U beading	10	sqm	
29	Providing 40x5 mm flat iron hold fast 40 cm long			
	including fixing to frame with 10 mm diameter			
	bolts, nuts and wooden plugs and embedding in			
	cement concrete block 30x10x15cm 1:3:6 mix (1			
	cement : 3 coarse sand : 6 graded stone aggregate			
	20mm nominal size).	20	each	
30	Providing and fixing ISI marked oxidised M.S.	20	Cacii	
30	pressed butt hinges with necessary screws etc.			
	complete.			
30.1	125x65x2.12 mm	30	each	
30.2	100x58x1.90 mm	50	each	
30.3	75x47x1.70 mm	10	each	
30.3	50x37x1.50 mm	10	each	
31	Providing and fixing ISI marked oxidised M.S.	10	Cucii	
31	sliding door bolts with nuts and screws etc.			
	complete:			
31.1	300x16 mm	50	each	
31.2	250x16 mm	30	each	
32	Providing and fixing ISi marked oxidised M.S.	50	cacii	
3 <b>2</b>	door latches conforming to IS:5930 with screws			
	etc. complete :			
32.1	300x20x6 mm	50	each	
32.2	250x20x6 mm	50	each	
33	Providing and fixing ISI marked 85x42 mm			
	oxidised M.S. pull bolt lock conforming to IS:			
	7534 with necessary screws bolts, nut and washers			
	etc. complete.	10	each	
34	Providing and fixing ISI marked oxidised M.S.			
	handles conforming to IS:4992 with necessary			
	screws etc. complete :			
34.1	125 mm	20	each	
34.2	100 mm	20	each	
34.3	75 mm	10	each	
35	Providing and fixing oxidised M.S. hasp and staple			
	(safety type) conforming to IS: 363 with necessary			
	screws etc. complete :			
35.1	150 mm	5	each	
35.2	115 mm	10	each	
35.3	90 mm	5	each	
36	Providing and fixing IS: 12817 marked stainless			
	steel butt hinges with stainless steel screws etc.			
	complete:			
36.1	125x64x1.90 mm	100	each	
36.2	100X58X1.90 mm	100	each	
36.3	75x47x1.80 mm	50	each	
36.4	50x37x1.50 mm	20	each	
37	Providing and fixing IS: 12817 marked stainless			
	steel butt hinges (heavy weight) with stainless steel			
	screws etc. complete :			
37.1	125x64x2.50 mm	10	each	
37.2	100x60x2.50 mm	50	each	

37.3	75x50x2.50 mm	10	each			
38	Providing and fixing bright finished brass tower					
	bolts (barrel type) with necessary screws etc.					
	complete :					
38.1	250x10 mm	5	each			
38.2	200x10 mm	5	each			
38.3	150x10 mm	5	each			
38.4	100x10 mm	5	each			
39	Providing and fixing bright finished brass door					
	latch with necessary screws etc. complete:					
39.1	300x16x5 mm	2	each			
39.2	250x16x5 mm	2	each			
40	Providing and fixing bright finished brass 100 mm					
10	mortice latch and lock with 6 levers and a pair of					
	lever handles of approved quality with necessary					
	screws etc. complete.	1	each			
41	Providing and fixing special quality bright finished		Cucii			
71	brass cupboard or ward robe locks with four levers					
	of approved quality including necessary screws etc.					
	complete.					
41.1	40 mm	5	each			
41.2	50 mm	5	each			
42	Providing and fixing aluminium die cast body	3	Cacii			
<b>+</b> 2	tubular type universal hydraulic door closer					
	(having brand logo with ISI, IS: 3564, embossed					
	on the body, door weight upto 35 kg and door					
	width upto 700 mm), with necessary accessories	10	1			
10	and screws etc. complete.	10	each			
43	Providing and fixing aluminium extruded section					
	body tubular type universal hydraulic door closer					
	(having brand logo with ISi, IS: 3564, embossed					
	on the body, door weight upto 36 kg to 80 kg and					
	door width from 701 mm to 1000 mm), with					
	double speed adjustment with necessary	10	,			
	accessories and screws etc. complete.	10	each			
	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					
44	etc. complete :					
44.1	300x16 mm	10	each			
44.2	250x16 mm	10	each			
	Providing and fixing aluminium tower 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 necessary screws					
45	etc. complete :					
45.1	300x10 mm	10	each			
45.2	250x10 mm	10	each			
45.3	200x10 mm	5	each			
45.4	150x10 mm	5	each			
45.5	100x10 mm	5	each			
10.0	Providing and fixing aluminium handles, ISI		- CaC11			
	marked, anodised (anodic coating not less than					
	grade AC 10 as per IS: 1868) transparent or dyed					
	to required colour or shade, with necessary screws					
46	etc. complete :					
46.1	125 mm	10	anch			
46.1	100 mm	10	each			
46 7	LIOU MM	10	each	Ī	1	ļ

46.3	75 mm	10	each	
	Providing and fixing aluminium hanging floor door			
	stopper, ISI marked, anodised (anodic coating not			
	less than grade AC 10 as per IS: 1868) transparent			
	or dyed to required colour and shade, with			
47	necessary screws etc. complete.			
47.1	Single rubber stopper	20	each	
47.2	Twin rubber stopper	100	each	
	Providing and fixing bright finished brass 100 mm			
	mortice latch and lock, ISI marked, with six levers			
	and a pair of anodised (anodic coating not less than			
	grade AC 10 as per IS : 1868) aluminium lever			
40	handles of approved quality with necessary screws	20	1.	
48	etc. complete.	20	each	
	Providing and fixing powder coated telescopic			
	drawer channels 300 mm long with necessary		oma	
49	screws etc. complete as per directions of Engineer-in-charge.	20	one	
49	Providing and fixing Fiber Glass Reinforced plastic	20	set	
	(FRP) Door Frames 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			
	shall be moulded with fire resistant grade			
	unsaturated polyester resin and chopped mat. Door			
	frame laminate shall be 2mm thick and shall be			
	filled with suitable wooden block in all the three			
	legs. The frame shall be covered with fiber glass			
	from all sides. M.S. stay shall be provided at the			
50	bottom to steady the frame.	20	metre	
51	Providing and fixing to existing door frames.			
	30 mm thick Glass Fibre Reinforced Plastic (FRP)			
	panelled 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 forming			
	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			
71.1	conforming to IS: 14856, including fixing to	20		
51.1	frames.	20	sqm	
	30 mm thick Fiberglass Reinforced Plastic (F.R.P.)			
	flush door shutter in different plain and wood finish made with fire retardant grade unsaturated			
	polyester resin, moulded to 3 mm thick FRP			
	laminate all around, with suitable wooden blocks			
	inside at required places for fixing of fittings and			
	polyurethane foam (PUF)/Polystyrene foam to be			
	used as filler material throughout the hollow panel,			
	casted monolithically with testing parameters of			
	F.R.P. laminate conforming to table - 3 of IS:			
	14856, complete as per direction of Engineer-in-			
51.2	charge.	10	sqm	
	Providing and fixing stainless steel (SS-304 grade)			
	friction hinges to the side/top hung uPVC			
	windows, of approved quality, with necessary			
	stainless steel screws etc. as per direction of			
53	Engineer-in-charge.			
53.1	200 x 19 x 1.9 mm	10	each	
53.2	250 x 19 x 1.9 mm	10	each	

53.3	300 x 19 x 1.9 mm	10	each		[
53.4	350 x 19 x 1.9 mm	5	each		
53.5	400 x 19 x 1.9 mm	5	each		
	Providing and fixing bright /matt finished Stainless				
	Steel handles of approved quality & make with				
54	necessary screws etc all complete.				
54.1	125 mm	100	each		
54.2	100mm	100	each		
54.3	75 mm	20	each		
	Providing and fixing stainless steel soft closing				
	spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with				
	full threaded steel screws including making				
	necessary recess in board and finished etc.				
55	complete as per direction of Engineer-in-charge.	10	Each		
	The state of the s				
	Providing and fixing stainless steel soft closing				
	heavy type telescopic drawer channels of approved				
	make 500 mm long with screws etc. complete as		one		
56	per directions of Engineer- in-charge.	10	set		
	Providing and fixing 2mm thick 16 to 19mm wide				
	PVC edge binding tape of approved quality for				
	cupboard/wardrobe shutters including necessary				
	synthetic resin hot pressed to edges on binding machine etc. complete as per directions of				
57	Engineer- in-charge.	50	Mtr.		
37	Providing & fixing fly proof wire gauze to	30	IVILI.		
	windows, clerestory windows & doors with M.S.				
58	Flat 15x3 mm and nuts & bolts complete.				
	Galvanised M.S. Wire gauze with 0.63 mm dia				
58.1	wire and 1.4 mm aperture on both sides	20	sqm		
	Stainless steel (grade 304) wire gauze of 0.5 mm				
58.2	dia wire and 1.4 mm aperture on both sides	20	sqm		
	Chequerred precast cement concrete tiles 22 mm		1		
	thick in footpath & courtyard, jointed with neat				
	cement slurry mixed with pigment to match the				
	shade of tiles, including rubbing and cleaning etc.				
	complete, on 20 mm thick bed of cement mortar				
59	1:4 (1 cement: 4 coarse sand).				
59.1	Light shade pigment using white cement	20	sqm		
59.2	Dark shade pigment using ordinary cement	500	sqm		
59.3	Ordinary cement without any pigment	20	sqm		
	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour				
	using acid and/or alkali resisting mortar bedding,				
	and joints filled with acid and/or alkali resisting				
	cement as per IS: 4457, complete as per the				
60	direction of Engineer-in- Charge.				
	In flooring on a bed of 10 mm thick mortar 1:4 (1				
60.1	acid proof cement : 4 coarse sand)				
60.2	Acid and alkali resistant tile	20	sqm		
	Marble stone flooring with 18 mm thick marble				
	stone, as per sample of marble approved by				
	Engineer-in-charge, over 20 mm (average) thick				
	base of cement mortar 1:4 (1 cement : 4 coarse				
	sand) laid and jointed with grey cement slurry,				
61	including rubbing and polishing complete with:	10	0.07		
61.1	Makrana white second quality	10	sqm		

61.2	Raj Nagar plain	10	sqm		
61.3	Udaipur green marble	10	sqm		
01.5	Kota stone slab flooring over 20 mm (average)	10	Sqiii		
	thick base laid over and jointed with grey cement				
	slurry mixed with pigment to match the shade of				
	the slab, including rubbing and polishing complete				
	with base of cement mortar 1 : 4 (1 cement : 4				
62	coarse sand):				
62.1	25 mm thick	20	0.000		
02.1	23 Hilli thick	20	sqm		
	40 mm thick fine dressed stone flooring over 20				
	mm (average) thick base of cement mortar 1:5 (1				
63	cement : 5 coarse sand) with joints finished flush.				
63.1	Red sand stone	20	sqm		
63.2	White sand stone	20	sqm		
	Providing and laying vitrified floor tiles in different		1		
	sizes (thickness to be specified by the				
	manufacturer) with water absorption less than				
	0.08% and conforming to IS: 15622, of approved				
	make, in all colours and shades, laid on 20mm				
	thick cement mortar 1:4 (1 cement : 4 coarse sand),				
	jointing with grey cement slurry @ 3.3 kg/ sqm				
	including grouting the joints with white cement and				
	matching pigments etc., complete.				
64	materials promotes to the compression				
64.1	Size of Tile 600x600 mm	100	sqm		
	Grouting the joints of flooring tiles having joints of				
	3 mm width, using epoxy grout mix of 0.70 kg of				
	organic coated filler of desired shade (0.10 kg of				
	hardener and 0.20 kg of resin per kg), including				
	filling / grouting and finishing complete as per				
65	direction of Engineer-in-charge.				
65.1	Size of Tile 600x600 mm	200	sqm		
	Providing and laying machine cut, mirror polished,		Î		
	Italian Marble stone flooring laid in required				
	pattern in linear portion of the building all				
	complete as per architectural drawings, with 18				
	mm thick stone slab laid over 20 mm (average)				
	thick base of cement mortar 1:4 (1 cement : 4				
	coarse sand) laid and jointed with white cement				
	slurry @ 4.4 kg/sqm including pointing with white				
	cement slurry admixed with pigment to match the				
	marble shade including rubbing, curing and				
	polishing etc. all complete as specified and as				
66	directed by the Engineer-in-Charge.				
	18 mm thick Italian Marble stone slab, Perlato,	_ =			
66.1	Rosso verona, Fire Red or Dark Emperadore etc.	50	sqm		
	Droviding and leving Deliched Comits store				
	Providing and laying Polished Granite stone				
	flooring in required design and patterns, in linear as				
	well as curvilinear portions of the building all				
	complete as per the architectural drawings with 18				
	mm thick stone slab over 20 mm (average) thick				
	base of cement mortar 1:4 (1 cement : 4 coarse				
	sand) laid and jointed with cement slurry and				
	pointing with white cement slurry admixed with				
	pigment of matching shade including rubbing,				
	curing and polishing etc. all complete as specified				
67 67.1	curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.  Polished Granite stone slab jet Black, Cherry Red,	10	sqm		

	Elite Brown, Cat Eye or equivalent.			
68	Providing and fixing Ist quality ceramic glazed			
	wall tiles conforming to IS: 15622 (thickness to be			
	specified by the manufacturer), of approved make,			
	in all colours, shades except burgundy, bottle			
	green, black of any size as approved by Engineer-			
	in-Charge, in skirting, risers of steps and dados,			
	over 12 mm thick bed of cement mortar 1:3 (1			
	cement: 3 coarse sand) and jointing with grey			
	cement slurry @ 3.3kg per sqm, including pointing			
	in white cement mixed with pigment of matching			
	shade complete.	100	sqm	
	Providing and laying rectified Glazed Ceramic	100	Sqiii	
	floor tiles of size 300x300 mm or more (thickness			
	to be specified by the manufacturer), of 1st quality			
	conforming to IS: 15622, of approved make, in			
	colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4			
	· · · · · · · · · · · · · · · · · · ·			
	Coarse sand), jointing with grey cement slurry @			
	3.3 kg/ sqm including grouting the joints with			
60	white cement and matching pigments etc.,	100		
69	complete.	100	sqm	
	Deduct for not grouting the joints with white			
70	cement and matching pigment in the items of	50		
70	fixing of vitrified tiles.	50	sqm	
	Grouting the joints of flooring tiles of toilets			
	having joints upto 3 mm width, using tile grout of			
	desired shade, including, removing loose grout			
	compound/ filling / grouting and finishing			
71	complete as per direction of Engineer-in-charge.			
71.1	Size of Tile 300x300 mm	1000	sqm	
	Providing gola 75x75 mm in cement concrete 1:2:4			
	(1 cement : 2 coarse sand : 4 stone aggregate 10			
	mm and down gauge), including finishing with			
	cement mortar 1:3 (1 cement : 3 fine sand) as per			
72	standard design :			
72.1	In 75x75 mm deep chase	100	metre	
	Making khurras 45x45 cm with average minimum			
	thickness of 5 cm cement concrete 1:2:4 (1 cement			
	: 2 coarse sand : 4 graded stone aggregate of 20			
	mm nominal size) over P.V.C. sheet 1 m x1 m x			
	400 micron, finished with 12 mm cement plaster			
	1:3 (1 cement : 3 coarse sand) and a coat of neat			
	cement, rounding the edges and making and			
73	finishing the outlet complete.	5	each	
13	Providing and fixing M.S. holder bat clamps of		Cacii	
	approved design to C.I. or S.C.I. rain water pipes			
	embedded in and including cement concrete blocks			
	10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse			
	sand : 4 graded stone aggregate 20 mm nominal			
71	size) and cost of cutting holes and making good the walls etc. :			
74	100 mm diameter	20	acab	
74.1	100 mm ummeter	20	each	

1			i	1	
	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to				
75		50	sam		
75	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be prepainted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.  GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and	50	sqm		
	0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum),				
76.1	including factory painted after bending.	50	sqm		
70.1	parities after contains.	- 50	~ 7		

1 1	Providing and fixing Heat Resistant Terrace Tiles			I	
	(300 mm x 300 mm x 20 mm) with SRI (solar				
	refractive index) $> 78$ , solar reflection $> 0.70$ and				
	initial emittance > 0.75 on waterproof and sloped				
	surface of terrace, laid on 20 mm thick cement				
	sand mortar in the ratio of 1:4 (1 cement : 4 coarse				
	sand) and grouting the joints with mix of white				
	cement & marble powder in ratio of 1:1, including				
	rubbing and polishing of the surface upto 3 cuts				
	complete, including providing skirting upto 150				
77	mm height along the parapet walls in the same	20			
77	manner.	20	sqm		
78	12 mm cement plaster of mix :	100			
78.1	1:4 (1 cement: 4 fine sand)	100	sqm		
78.2	1:6 (1 cement: 6 fine sand)	1000	sqm		
	15 mm cement plaster on the rough side of single				
79	or half brick wall of mix:				
79.1	1:4 (1 cement: 4 fine sand)	100	sqm		
79.2	1:6 (1 cement: 6 fine sand)	1000	sqm		
	12 mm cement plaster finished with a floating coat				
80	of neat cement of mix:				
80.1	1:3 (1 cement: 3 fine sand)	20	sqm		
80.2	1:4 (1 cement: 4 fine sand)	40	sqm		
	18 mm cement plaster in two coats under layer 12		Î		
	mm thick cement plaster 1:5 (1 cement : 5 coarse				
	sand) finished with a top layer 6 mm thick cement				
81	plaster 1:6 (1 cement : 6 fine sand).	20	sqm		
	Distempering with 1st quality acrylic distemper,		1		
	having VOC (Volatile Organic Compound )				
	content less than 50 grams/ litre, of approved brand				
	and manufacture, including applying additional				
	coats wherever required, to achieve even shade and				
82	colour.				
82.1	Two coats	1000	sqm		
0.112	Finishing walls with Premium Acrylic Smooth		~ 1		
	exterior paint with Silicone additives of required				
83	shade:				
05	New work (Two or more coats applied @ 1.43				
	ltr/10 sqm over and including priming coat of				
83.1	exterior primer applied @ 2.20 kg/10 sqm)	200	sqm		
03.1	Painting (two or more coats) on rain water, soil	200	Sqiii		
	waste and vent pipes and fittings with synthetic				
	enamel paint of approved brand and manufacture				
	and required colour over a priming coat of				
84	approved steel primer on new work.				
84.1	100 mm diameter pipes	1000	metre		
04.1	Wall painting with acrylic emulsion paint, having	1000	mene		
	VOC (Volatile Organic Compound ) content less				
	than 50 grams/ litre, of approved brand and				
	manufacture, including applying additional coats				
05	wherever required, to achieve even shade and colour.				
85 85 1		500	cam		
85.1	Two coats	500	sqm		
0.0	Painting with synthetic enamel paint of approved				
86	brand and manufacture to give an even shade :	2500			
86.1	Two or more coats on new work	2500	sqm		
	Removing white or colour wash by scrapping and				
0.7	sand papering and preparing the surface smooth	<b>7000</b>			
87	including necessary repairs to scratches etc.	5000	sqm		

	complete				
	Distempering with 1st quality acrylic distember (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to				
88	give an even shade :	7000			
88.1	Old work (one or more coats)	5000	sqm		
89	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work:				
89.1	100 mm diameter pipes	50	metre		
91	Painting with aluminium paint of approved brand and manufacture to give an even shade:				
91.1	One or more coats on old work	500	sqm		
	Finishing walls with Acrylic Smooth exterior paint		Î		
93	of required shade :				
	Old work (Two or more coat applied @ 1.67 ltr/ 10				
93.1	sqm) on existing cement paint surface	2500	sqm		
	Polishing in high gloss/matt finish melamine clear				
	polish on wood work in required color/wooden				
	shade texture with following process in the				
94	sequence as detailed below:				
94.1	1.The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180nos.  2.Applying two coats of sealer with spray gun and allowing sufficient drying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs.  3.On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface further smooth after this wet rubbing, then surface is applied with special grade melamine fillers to fill all the small and big holes/grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs.  4. On this, 1st coat of melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion. This 1st coat is allowed to dry for 24 hrs then this dry surface is again fine wet rubbed smooth, which is further allowed to dry for 12 hrs. The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete as per direction of Engineer-in-Charge. (Final coat to be done in 1 or 2 layers without gap of time.)	100	Sqm		
	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including	100	Sqm		
	cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the				
95	walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
		2500	gam		
95.1	With coment mortar 1:4 (1 cement : 4 fine sand)		sqm		
95.2	With cement mortar 1:4 (1cement: 4 coarse sand)	2500	sqm	<u> </u>	

	Fixing chowkhats in existing opening including			
	embedding chowkhats in floors or walls cutting			
	masonry for holdfasts, embedding hold fasts in			
	cement concrete blocks of size 15 x 10 x 10 cm			
	with cement concrete 1:3:6 (1 cement : 3 coarse			
	sand : 6 graded stone aggregate 20 mm nominal			
	size), painting two coats of approved wood			
	preservative to sides of chowkhats and making			
	good the damages to walls and floors as required			
	complete, including disposal of rubbish to the			
	dumping ground, all complete as per direction of			
96				
96.1	Door chowkhats	10	each	
96.2	Window chowkhats	10		
90.2		10	each	
	Fixing chowkhat in existing opening in brick/ RCC			
	wall with dash fasteners/Chemical fasteners of			
	appropriate size (3 nos on each vertical member of			
	door chowkhat and 2 nos on each vertical member			
	of window chowkhats), including Cost of dash		_	
97	fasteners/ chemical fastener.	10	each	
	Making the opening in brick masonry including			
	dismantling in floor or walls by cutting masonry			
	and making good the damages to walls, flooring			
	and jambs complete, to match existing surface i/c			
	disposal of mulba/ rubbish to the nearest municipal			
	dumping ground, all complete as per direction of			
98	Engineer-in-Charge.			
98.1	For door/ window/ clerestory window	10	sqm	
	Renewing glass panes, with putty and nails			
	wherever necessary including racking out the old			
99	putty:			
	Float glass panes of nominal thickness 4 mm			
99.1	(weight not less than 10kg/sqm)	50	sqm	
	Float glass panes of nominal thickness 5 mm			
99.2	(weight not less than 12.5kg/sqm)	20	sqm	
	Renewing glass panes, with wooden fillets		-	
100	wherever necessary:			
	Float glass panes of nominal thickness 4 mm			
100.1	(weight not less than 10kg/sqm)	20	sqm	
	Float glass panes of nominal thickness 5 mm		1	
101	(weight not less than 12.5kg/sqm)	20	sqm	
101	Renewing glass panes and refixing existing		~7***	
102	wooden fillets:			
102	Float glass panes of nominal thickness 4 mm			
102.1	(weight not less than 10kg/sqm)	20	çam	
102.1	Float glass panes of nominal thickness 5 mm	20	sqm	
102.2	(weight not less than 12.5kg/sqm)	20	cam	
102.2		20	sqm	
102	Supplying and fixing new wooden fillets wherever			
103	necessary:	20		
103.1	2nd class teak wood fillets	20	metre	
104	Renewal of old putty of glass panes (length)	50	metre	
105	Refixing old glass panes with putty and nails	50	sqm	
	Fixing old glass panes with wooden fillets			
106	(excluding cost of fillets)	50	sqm	

1		ı		ı	1
	Providing and fixing 16 mm M.S. Fan clamps of				
	standard shape and size in existing R.C.C. slab,				
	including cutting chase, anchoring clamp to				
	reinforcement bar, including cleaning, refilling,				
	making good the chase with matching concrete,				
	plastering and painting the exposed portion of the				
107	clamps complete.	10	each		
	Taking out wind ties from roof including cutting				
	out rusted bolts, nuts etc. and removing materials				
108	to any distance within compound and stacking.	20	kg		
	Fixing of old wind tie with new fittings including				
	painting two or more coats with anticorrosive				
	bitumastic paint of approved brand & manufacturer				
	over and including priming coat of ready mixed				
109	zinc chromate yellow primer of approved brand.	200	metre		
	Renewing bottom rail and/or top runner of				
	collapsible gate including making good all				
	damages and applying priming coat of zinc				
	chromate yellow primer of approved brand and				
110	manufacturer.	50	kg		
	Pumping out water caused by springs, tidal or river		kilo		
111	seepage, broken water mains or drains and the like.	100	litre		
	Providing and fixing M.S. round or square bars				
	with M.S. flats at required spacing in wooden				
112	frames of windows and clerestory windows.	20	kg		
	Providing and fixing double scaffolding system				
	(cup lock type) on the exterior side, up to seven				
	story height made with 40 mm dia M.S. tube 1.5 m				
	centre to centre, horizontal & vertical tubes joining				
	with cup & lock system with M.S. tubes, M.S. tube				
	challies, M.S. clamps and M.S. staircase system in				
	the scaffolding for working platform etc. and				
	maintaining it in a serviceable condition for the				
	required duration as approved and removing it				
	there after .The scaffolding system shall be				
	stiffened with bracings, runners, connection with				
	the building etc wherever required for inspection of				
	work at required locations with essential safety				
	features for the workmen etc. complete as per				
	directions and approval of Engineer-in-charge .The				
	elevational area of the scaffolding shall be				
	measured for payment purpose .The payment will				
	be made once irrespective of duration of				
113	scaffolding.	100	sqm		
	Repair to plaster of thickness 12mm to 20 mm in				
	patches of area 2.5 sqm and under, including				
	cutting the patch in proper shape, raking out joints				
	and preparing plastering the wall surface with				
	white cement based polymer modified self curing				
	mortar, including disposal of rubbish, all complete				
114	as per the direction of Engineer-In-Charge.	1000	sqm		
				ı	1

surface area) upo 2000 lifre capacity at all heights with eccount brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder (© 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencial and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made (© Rs. 0.10 per litre) (if during cleaning any GI littings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)  Cleaning and desliting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of 116 Engineer-in-charge.  Cleaning of chocked sewer line by diesel running which mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manboles and dechocking of sewer line from one manbole to another by high pressure jetting system of 2200 PSI for sewer line Isomo 300mm  Cleaning and partial desilting of manboles and dechocking of sewer line from one manbole to another by high pressure jetting system of 2200 PSI for sewer line from one manbole to another by high pressure jetting system of 2200 PSI for sewer line Form Stohm dia upto 300mm  Cleaning of under ground swmp. Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge.  Cleaning of under ground swmp, the desired of slit and other deposits, (i) Entire surface area of the sump shall then scrubbed throughly with wie brush etc. and pressure washed with water (iii	1 1	Cleaning of terrace/loft water storage tank (inside	]		
with coconul brushes, duster etc., removal of slit, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any Gl fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)  Cleaning and desilting of gully trap chamber, including removal of robbish mised with earth tec. and disposal of same, all as per the direction of Engineer-in-charge.  Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting swer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and dechocking of sewer lines. Dechocking and this line of sewer line from one manbole to another by high pressure jetting sank capacity including signal and other deposits. (i) Entire surface area of the sump shall than scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be circum of spile from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.  Disconnecting					
rubbish from the tank and cleaning the tank with fresh water distinction with bleaching powder (⊕ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made (₱ Rs. 0.10 per litre) (if during cleaning any GI littings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)  Cleaning and desiting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.  Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction expacity including skilled operator, supervising engineer etc. for cleaning and partial desiling of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm da upto 300mm  Cleaning of under ground sump. Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations: (i)Tank shall be centuring disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations: (i)Tank shall be capited of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water, (iii) Chlorination of RCC internal surface by liquid chlorine, (iiv) The treated surface shall be rereated with ultraviolet maliation etc. as per di					
fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of struction and paint and disposing of malba all complete as per direction of Engineer-in- Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed teducition will be made @ Rs. 0.10 per litre) (if during cleaning any Gl fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing 15 extra will be paid on this account)  Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.  Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having, 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm  Cleaning of under ground sump. Over Head R.C.C. Tank (independent staging) including shall consist following operations:- (i)Tank shall be empired of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be tennoval from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of 118 Engineer-in-Charge.  Disconnecting damaged overhead/herrace PVC water storage tank of any size from water supply line and removing from the terrace including s					
0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing 53200 litre  Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of 116 Engineer-in-charge.  Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction expacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSi for sever line from one manhole to another by high pressure jetting system of 2200 PSi for sitt and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i)Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine, (ii) The treated surface shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.  Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of					
the date of cleaning on the side of tank body with the help of stencii and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)  Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.  Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine filted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and Ilushing of sewer line From one manhole to another by high pressure jetting system of 2200 PSI for sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line lines and properties of the sump operations: (i)Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and rubbish, all as per direction of Engineer-in-Charge.  Cleaning of under ground sump. Over Head R.C.C. Tank (independent staging) including disposal of silt and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations: (i)Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water, (iii) Chlorination of RCC internal surface by liquid chlorine, (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal		-			
the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing 15 extra will be paid on this account)  Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.  Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and Ilushing of sewer lines. Dechocking and Ilushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from ISOmm dia upto 3000mm  Cleaning of under ground sump, Over Head R.C.C.  Tank (independent staging) including disposal of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface hy liquid chlorine, (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine, (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be					
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120   Charge.	100				
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120.1	Long pattern W.C Pan of size 580x440 mm	5	each	
		5		
120.2	Orissa pattern W.C Pan of size 580x440 mm	3	each	
	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing			
	and fixing 300 mm dia PVC pipe conforming BIS-			
	12818 and making good the same etc. complete as			
121	per direction of Engineer-in-charge.	5	each	
121	Dismantling W.C. Pan of all sizes including	J	Cacii	
	disposal of dismantled materials i/c malba all			
122	complete as per directions of Engineer-in-Charge.	5	each	
122	Hacking of CC flooring including cleaning for		Cacii	
	surface etc. complete as per direction of the			
123	Engineer-in-Charge.	10	sqm	
123	Dismantling 15 to 50 mm dia G.I. pipe including	10	sqiii	
	stacking of dismantled pipes (within 50 metres			
124	lead) as per direction of Engineer-in-Charge.	100	metre	
124	Taking out existing wooden door shutter, repair by	100	metre	
	cutting, painting etc. and refixing of repaired door			
	shutters to existing door frames, including			
	replacement of hinges with screws, etc. as required,			
	all complete as per the direction of the Engineer-in-			
125	charge.	10	each	
120	Providing and laying in situ seven course water	10		
	proofing treatment with APP (Atactic poly-			
	propylene) modified Polymeric memberane over			
	roof consisting of first coat of bitumen primer @			
	0.40 litre per sqm, 2nd, 4th & 6th courses of			
	bonding material @ 1.20 Kg/sqm, which shall			
	consist of blown type bitumen of grade 85/25			
	conforming to IS: 702, 3rd and 5th layers of			
	roofing membrane APP modified Polymeric			
	membrane 1.5 mm thick of 2.25 Kg/sqm weight			
	consisting of five layers prefabricated with centre			
	core as 20 micron HMHDPE film sandwiched on			
	both sides with polymeric mix and the polymeric			
	mix is protected on both side with 20 micron			
	HMHDPE film. 7th, the top most layer shall be			
	finished with brick tiles of class designation 10			
	grouted with cement mortar 1:3 (1cement : 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			
126	paid for separately).	50	sqm	
	Demolishing cement concrete manually/ by			
	mechanical means including disposal of material			
	within 50 metres lead as per direction of Engineer -			
127	in - charge.			
10= 1	Nominal concrete 1:3:6 or richer mix (i/c	_		
127.1	equivalent design mix)	5	cum	
107.5	Nominal concrete 1:4:8 or leaner mix (i/c	_		
127.2	equivalent design mix)	5	cum	
	Demolishing brick/CLC block work manually/ by			
	mechanical means including stacking of			
	serviceable material and disposal of unserviceable			
100	material within 50 metres lead as per direction of			
128	Engineer-in-charge.	20	011	
128.1	In cement mortar	20	cum	

	Removing mortar from bricks and cleaning bricks				
	including stacking within a lead of 50 m (stacks of				
129	cleaned bricks shall be measured):				
			1000		
129.1	From brick work in cement mortar	1000	Nos		
	Dismantling doors, windows and clerestory				
	windows (steel or wood) shutter including				
	chowkhats, architrave, holdfasts etc. complete and				
130	stacking within 50 metres lead:				
130.1	Of area 3 sq. metres and below	3	each		
130.2	Of area beyond 3 sq. metres	2	each		
	Taking out doors, windows and clerestory window				
	shutters (steel or wood) including stacking within				
131	50 metres lead:				
131.1	Of area 3 sq. metres and below	3	each		
131.2	Of area beyond 3 sq. metres	2	each		
	Dismantling G.I. pipes (external work) including				
	excavation and refilling trenches after taking out				
	the pipes, manually/ by mechanical means				
	including stacking of pipes within 50 metres lead				
132	as per direction of Engineer-in-charge:				
132.1	15 mm to 40 mm nominal bore	50	metre		
132.2	Above 40 mm nominal bore	50	metre		
	Taking out C.I. cover with frame from R.C.C. top				
	slab of manholes of various sizes including				
	demolishing of R.C.C. work manually/ by				
	mechanical means and stacking of useful materials				
	near the site and disposal of unserviceable				
	materials within 50 metres lead as per direction of				
133	Engineer-in-charge.	20	each		
	Taking out C.I. cover with frame from R.C.C. top				
	slab of inspection chambers of various sizes				
	including demolishing of R.C.C. work manually/				
	by mechanical means and stacking of useful				
	materials near the site and disposal of				
	unserviceable materials within 50 metres lead as				
134	per direction of Engineer-in-charge.	10	each		
-	Dismantling of flushing cistern of all types				
	(C.I./PVC/Vitrious China) including stacking of				
	useful materials near the site and disposal of				
135	unserviceable materials within 50 metres lead.	50	each		
	Dismantling of C.I. sluice valve including stacking				
136	of useful materials within a lead of 50 metres				
136.1	Up to 150 mm diameter	1	each		
136.2	Above 150 mm diameter	1	each		
	Dismantling old plaster or skirting raking out joints				
	and cleaning the surface for plaster including				
107	disposal of rubbish to the dumping ground within	100			
137	50 metres lead.	100	sqm		
	Dismantling aluminium/ Gypsum partitions, doors,				
	windows, fixed glazing and false ceiling including				
	disposal of unserviceable material and stacking of				
100	serviceable material with in 50 meters lead as	70			
138	directed by Engineer-in-charge.	50	sqm		

	Disposal of building rubbish / malba / similar				
	unserviceable, dismantled or waste materials by				
	mechanical means, including loading, transporting,				
	unloading to approved municipal dumping ground				
	or as approved by Engineer-in-charge, beyond 50				
	m initial lead, for all leads including all lifts				
139	involved.	50	cum		
137	Brick edging in full brick width and half brick		Cum		
	depth including excavation, refilling and disposal				
140	of surplus earth lead upto 50 metres.				
1.0	*				
140.1	With common burnt clay F.P.S. (non modular)	100			
140.1	bricks of class designation 7.5	100	metre		
	Painting runway/taxi track/apron marking with				
	adequate nos of coats to give uniform finish with				
	road marking paint of superior make as approved				
	by the Engineer-in-charge, i/c cleaning the surface				
	of ail dirt, scales, oil, grease and other foreign				
141	material etc. and lining out complete.				
141.1	New work (Two or more coats)	50	sqm		
141.2	Old work (One or more coats)	50	sqm		
	Painting road surface marking with adequate nos of				
	coats to give uniform finish with ready mixed road				
	marking paint conforming to IS: 164, on				
	bituminous surface in white/yellow shade,				
	including cleaning the surface of all dirt, scales, oil,				
142	grease and foreign material etc. complete.				
142.1	New work (Two or more coats)	1000	sqm		
142.2	Old work (One or more coats)	500	sqm		
	Providing and fixing Glow studs of size 100x20				
	mm made of heavy duty body shall be moulded				
	ASA (Acrylic styrene Acryloretrite ) or HIP (High				
	impact polystyrene) or ABS having electronically				
	welded micro- prismatic lens with abrasion				
	resistant coating as approved by Engineer in				
	charge. The glow stud shall support a load of				
	13635 kg tested in accordance with ASTM D4280.				
	The slope of retro- reflective surface shall be 35				
	(+/-5) degress to base .The reflective panels on				
	both sides with at least 12 cm of reflective area up				
	each side. The luminance intensity should be as per				
	the specification and shall be tested as described in				
	ASTM I: 809 as recommended in BS: 873 part 4:				
	1973. The studs shall be fixed to the Road surface				
	using the adhesive conforming to IS, as per				
	procedure recommended by the manufacturer				
	complete and as per direction of Engineer-in-				
145	charge.	50	each		
1.5	o		J 44 J 11	l	

i	Manufacturing augusting and fiving notes			ı ı
	Manufacturing, supplying and fixing retro			
	reflective overhead signage boards made up of 2			
	mm thick aluminium sheet, face to be fully covered			
	with high intensity and encapsulated lens type heat			
	activated retro reflective sheeting conforming to			
	type - III of ASTM-D-4956-01 as approved by			
	Engineer-in-charge, letters, borders etc. as per IRC			
	: 67-2001 in silver white with blue colour back			
	ground and with high intensity grade, pasted on			
	substrate by pressure sensitive adhesive backing			
	which shall be activated by applying pressure			
	conforming to class II of ASTM-D-4956-01 and			
	fixing the same to the plate of structural frame			
	work by means of suitable sized aluminium alloys,			
	rivets or bolts & nuts @ 300 mm centre to centre			
	all along the periphery as well as in two vertical			
	rows along with theft resistant measures, including			
	the cost of painting with two or more coats of			
	epoxy paint in grey colour on the back side of			
	aluminium sheet including appropriate priming			
	coat. The rate includes the cost of rounding off the			
	corners, lowering down the structural frame work			
	from the gantry, fixing and erecting the same in			
	position all complete as per drawings, specification			
	and direction of the engineer-in-charge.(Structural			
	frame work including M.S. plate to be provided			
	separately. Rectangular area of the sheet only shall			
146	be measured for payment).			
146.1	Overhead informatory road signage	20	sqm	
	Providing and laying at or near ground level			
	factory made kerb stone of M-25 grade cement			
	concrete in position to the required line, level and			
	curvature, jointed with cement mortar 1:3 (1			
	cement: 3 coarse sand), including making joints			
	with or without grooves (thickness of joints except			
	at sharp curve shall not to more than 5mm),			
	including making drainage opening wherever			
	required complete etc. as per direction of Engineer-			
	in-charge (length of finished kerb edging shall be			
1.47	measured for payment). (Precast C.C. kerb stone	10		
147	shall be approved by Engineer-in-charge).	10	cum	
	Taking out existing kerb stones of all types from			
	footpath/ central verge, including removal of			
	mortar etc., disposal of unserviceable material to			
	the dumping ground, for which payment shall be			
	made separately and stacking of serviceable			
	material within 50 metre lead as per direction of			
148	Engineer-in-Charge.	50	metre	
	Taking out existing CC interlocking paver blocks			
	from footpath/ central verge, including removal of			
	rubbish etc., disposal of unserviceable material to			
	the dumping ground, for which payment shall be			
	made separately and stacking of serviceable			
	material within 50 metre lead as per direction of			
149	Engineer-in-Charge.	100	cam	
149		100	sqm	
	Laying old cement cocrete interlocking paver			
	blocks of any design/ shape laid in required line,			
	level, curvature, colour and pattern over and			
1				
150	including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all	100	sqm	

	complete as per the direction of Engineer-in-			
	charge. (Old CC paver blocks shall be supplied by			
	the department free of cost).			
	Laying at or near ground level old kerb stones of			
	all types in position to the required line, level and			
	curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints			
	with or without grooves (thickness of joints, except			
	at sharp curve, shall not be more than 5 mm),			
	including making drainage opening wherever			
	required etc. complete as per direction of Engineer-			
	in-charge. (Length of finished kerb edging shall be			
	measured for payment). (Old kerb stones shall be			
151	supplied by the department free of cost)	50	metre	
	Providing and laying tactile tile (for vision			
	impaired persons as per standards) of size			
	300x300x9.8mm having with water absorption less			
	than 0.5% and conforming to IS:15622 of approved			
	make in all colours and shades in for outdoor floors			
	such as footpath, court yard, multi modals location			
	etc., laid on 20mm thick base of cement mortar 1:4			
	(1 cement : 4 coarse sand) in all shapes & patterns			
	including grouting the joints with white cement			
150	mixed with matching pigments etc. complete as per	50	gam	
152 153	direction of Engineer-in-Charge.  Providing and laying factory made chamfered edge	30	sqm	
133	Cement Concrete paver blocks in footpath, parks,			
	lawns, drive ways or light traffic parking etc, of			
	required strength, thickness & size/ shape, made by			
	table vibratory method using PU mould, laid in			
	required colour & pattern over 50mm thick			
	compacted bed of sand, compacting and proper			
	embedding/laying of inter locking paver blocks			
	into the sand bedding layer through vibratory			
	compaction by using plate vibrator, filling the			
	joints with sand and cutting of paver blocks as per			
	required size and pattern, finishing and sweeping			
	extra sand. complete all as per direction of			
	Engineer-in-Charge.			
152.1	80 mm thick C.C. paver block of M-30 grade with	100		
153.1	approved color design and pattern.	100	sqm	
	Providing and placing in position 100 mm thick factory made machine batched & machine mixed			
	Precast RCC Rectangular Covers on drains of			
	footpath of various sizes, of M-25 grade cement			
	concrete for RCC work, including cost of			
	centering, shuttering, reinforcement of 8 mm dia			
	TMT bars of Fe 500 grade @ maximum 100mm			
	c/c on both ways, neat cement punning on finished			
	surface, properly encased on all edges with 1.6 mm			
	thick, 100 mm wide MS sheet duly painted over			
	priming coat, reinforcement to be welded at edges			
	with MS sheet and providing 2 Nos. 12 mm dia bar			
	for hooks etc i/c cost of cartage, all leads & lift,			
1.71	handling at site etc. all complete as per direction of	<b>~</b> 0		
154	Engineer-in-Charge.	50	sqm	
155	Providing and fixing white vitreous china water			
155 155.1	closet squatting pan (Indian type): Orissa pattern W.C. pan of size 580x440 mm	5	each	
156	Providing and fixing 8 mm dia C.P. / S.S. Jet with	100	each	
150	Troylaing and fixing 6 filli dia C.L. / S.S. Jet Willi	100	Cacii	1

flexible tube upto 1 metre long with S.S. triangular	
plate to Eureopean type W.C. of quality and make	
as approved by Engineer - in - charge.	
Providing and fixing P.V.C. low level flushing	
cistern with manually controlled device (handle	
lever) conforming to IS: 7231, with all fittings and	
157 fixtures complete.	
157.1 10 litre capacity - White 50 each	
Providing and fixing CP Brass 32mm size Bottle	
Trap of approved quality & make and as per the	
direction of Engineer-in-charge.(Make: Jaugar,	
158 Modle No: ALD-CHR-769) 20 each	
Providing and fixing white vitreous china	
laboratory sink including making all connections	
159 excluding cost of fittings:	
159.1 Size 600x450x200 mm 2 each	
Providing and fixing P.V.C. waste pipe for sink or	
wash basin including P.V.C. waste fittings	
160 complete.	
160.1 Flexible pipe	
160.1.1 32 mm dia 100 each	
160.1.2 40 mm dia 10 each	
Providing and fixing 100 mm sand cast Iron	
161 grating for gully trap. 20 each	
Providing and fixing in position 25 mm diameter	
mosquito proof coupling of approved municipal	
162 design. 20 each	
Providing and fixing 600x450 mm beveled edge	
mirror of superior glass (of approved quality)	
complete with 6 mm thick hard board ground fixed	
to wooden cleats with C.P. brass screws and	
163 washers complete. 50 each	
Providing and fixing mirror of superior glass (of	
approved quality) and of required shape and size	
with plastic moulded frame of approved make and	
164 shade with 6 mm thick hard board backing:	
164.1 Rectangular shape 1500x450 mm 20 each	
165 Providing and fixing toilet paper holder:	
165.1 C.P. brass 10 each	
166 Providing and fixing soil, waste and vent pipes:	
166.1 100 mm dia	
Centrifugally cast (spun) iron socket & spigot	
166.1.1 (S&S) pipe as per IS: 3989 20 metre	
Hubless centrifugally cast (spun) iron pipes	
166.1.2 epoxy coated inside & outside IS:15905 10 metre	
Providing and filling the joints with spun yarn,	
cement slurry and cement mortar 1:2 ( 1 cement : 2	
167 fine sand) in S.C.I./ C.I. Pipes:	
167.1 100 mm dia pipe 5 each	
Providing and fixing M.S. holder-bat clamps of	
approved design to Sand Cast iron/cast iron (spun)	
pipe embedded in and including cement concrete	
blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2	
coarse sand : 4 graded stone aggregate 20 mm	
nominal size), including cost of cutting holes and	
168 making good the walls etc. :	
168.1 For 100 mm dia pipe 50 each	
Draviding and fiving hand of required decrees with	
Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick,	

	bolts and nuts complete.				1
169.1	100 mm dia				
169.1.1	Sand cast iron S&S as per IS - 3989	5	each		
107.1.1	•		Cacii		
160.1.0	Hubless centrifugally cast (spun) iron epoxy coated	~	1		
169.1.2	inside & outside as per IS:15905	5	each		
170	Providing and fixing plain bend of required degree.				
170.1	100 mm dia				
170.1.1	Sand cast iron S&S as per IS: 3989	3	each		
	Hubless centrifugally cast (spun) iron pipes				
170.1.2	epoxy coated inside & outside IS:15905	3	each		
	Providing and fixing door piece, insertion rubber				
171	washer 3mm thick, bolts & nuts complete:				
171.1	100 mm				
171.1.1	Sand cast iron S&S as per IS - 1729	5	each		
171.1.2	Sand cast iron S&S as per IS - 3989	5	each		
	Providing and fixing M.S. stays and clamps for				
	sand cast iron/ centrifugally cast (spun) iron pipes				
172	of diameter :				
172.1	100 mm	20	each		
	Cutting chases in brick masonry walls for				
	following diameter sand cast iron/centrifugally cast				
	(spun) iron pipes and making good the same with				
	cement concrete 1:3:6 (1 cement : 3 coarse sand :6				
	graded stone aggregate 12.5 mm nominal size),				
	including necessary plaster and pointing in cement				
173	mortar 1:4 (1 cement : 4 coarse sand) :				
173.1	100 mm dia	20	metre		
	Providing and fixing Chlorinated Polyvinyl				
	Chloride (CPVC) pipes, having thermal stability				
	for hot & cold water supply, including all CPVC				
	plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes				
	jointing of pipes & fittings with one step CPVC				
	solvent cement and testing of joints complete as				
	per direction of Engineer in Charge. Internal work -				
174	Exposed on wall				
174.1	15 mm nominal outer dia Pipes	20	metre		
174.2	20 mm nominal outer dia Pipes	20	metre		
174.3	25 mm nominal outer dia Pipes	100	metre		
174.4	32 mm nominal outer dia Pipes	50	metre		
174.5	40 mm nominal outer dia Pipes	20	metre		
174.6	50 mm nominal outer dia Pipes	20	metre		
171.0	Providing and fixing Chlorinated Polyvinyl				
	Chloride (CPVC) pipes, having thermal stability				
	for hot & cold water supply, including all CPVC				
	plain & brass threaded fittings, i/c fixing the pipe				
	with clamps at 1.00 m spacing. This includes				
	jointing of pipes & fittings with one step CPVC				
	solvent cement and the cost of cutting chases and				
	making good the same including testing of joints				
	complete as per direction of Engineer in Charge.				
	Concealed work, including cutting chases and				
175	making good the walls etc.				
175.1	15 mm nominal outer dia Pipes	20	metre		
175.2	20 mm nominal outer dia Pipes	20	metre		
175.3	25 mm nominal outer dia Pipes	50	metre		
175.4	32 mm nominal outer dia Pipes	20	metre		
		_			

1	Providing and fixing Chlorinated Polyvinyl				ı
	Chloride (CPVC) pipes, having thermal stability				
	for hot & cold water supply including all CPVC				
	plain & brass threaded fittings This includes				
	jointing of pipes & fittings with one step CPVC				
	solvent cement, trenching, refilling & testing of				
176	joints complete as per direction of Engineer in				
176	Charge. External work	20			_
176.1	15 mm nominal outer dia Pipes	20	metre		_
176.2	20 mm nominal outer dia Pipes	20	metre		
176.3	25 mm nominal outer dia Pipes	20	metre		
176.4	32 mm nominal outer dia Pipes	20	metre		
176.5	40 mm nominal outer dia Pipes	20	metre		
176.5	50 mm nominal outer dia Pipes	20	metre		
176.6	62.50 mm nominal inner dia Pipes	20	metre		
176.7	75 mm nominal inner dia Pipes	20	metre		
176.8	100 mm nominal inner dia Pipes	20	metre		_
17010	Providing and fixing G.I. pipes complete with G.I.		1110110		-
	fittings and clamps, i/c cutting and making good				
177	the walls etc. Internal work - Exposed on wall				
177.1	15 mm dia nominal bore	50	metre		-
177.2	20 mm dia nominal bore	20	metre		-
177.3	25 mm dia nominal bore	50			-
		20	metre		_
177.4	32 mm dia nominal bore		metre		_
177.5	40 mm dia nominal bore	20	metre		_
177.6	50 mm dia nominal bore	5	metre		_
	Providing and fixing G.I. pipes complete with G.I.				
	fittings including trenching and refilling etc.				
178	External work				
178.1	15 mm dia nominal bore	20	metre		
178.2	20 mm dia nominal bore	20	metre		
178.3	25 mm dia nominal bore	50	metre		
178.4	32 mm dia nominal bore	20	metre		
178.5	40 mm dia nominal bore	10	metre		
178.6	50 mm dia nominal bore	5	metre		
178.7	65 mm dia nominal bore	5	metre		
178.8	80 mm dia nominal bore	20	metre		
	Making connection of G.I. distribution branch with				_
	G.I. main of following sizes by providing and				
	fixing tee, including cutting and threading the pipe				
179	etc. complete :				
179.1	25 to 40 mm nominal bore	20	each		$\dashv$
179.2	50 to 80 mm nominal bore	20	each		_
117.2	Providing and Fixing of stop cock in G.I. pipe line	20	Cucii		$\dashv$
	including cutting and threading the pipe and				
180	making connection etc. complete.	10	each		
100		10	Cacii		$\dashv$
	Providing and Fixing of Socket/reducer socket of				
	size 15mm to 40mm in G.I. pipe line including				
101	cutting and threading the pipe and making	100	anah		
181	connection etc. complete.	100	each		_
	Providing and Fixing of Socket/reducer socket of				
	size 50 mm to 80mm in G.I. pipe line including				
102	cutting and threading the pipe and making	<b>7</b> 0	,		
182	connection etc. complete .	50	each		_
	Providing and Fixing of elbow/Tee of size 15mm				
	to 40mm in G.I. pipe line including cutting and				
	threading the pipe and making connection etc.	4 = =	_		
183	complete .	100	each		

	Providing and Fixing of Elbow/Tee of size 50 mm				[
	to 80mm in G.I. pipe line including cutting and				
	threading the pipe and making connection etc.				
184	complete.	50	each		
104	Providing and Fixing of stop cock in CPVC pipe	30	Cacii	+	
	line including cutting and fixing the pipe and				
185	making connection etc. complete.	50	each		
103	Providing and Fixing of Socket/reducer socket of	30	Cacii	+	
	size 15mm to 40mm in CPVC pipe line including				
	cutting and fixing the pipe and making connection				
186	etc. complete.	100	each		
100	Providing and Fixing of Socket/reducer socket of	100	Cacii	+	
	size 50 mm to 100 mm in CPVC pipe line including				
	cutting and fixing the pipe and making connection				
187	etc. complete.	50	each		
107	Providing and Fixing of elbow/Tee of size 15mm	30	Cacii	+	
	to 40mm in CPVC pipe line including cutting and				
	threading the pipe and making connection etc.				
188	complete.	100	each		
100	Providing and Fixing of Elbow/Tee of size 50 mm	100	Cacii	+	
	to 80mm in CPVC pipe line including cutting and				
	fixing the pipe and making connection etc.				
189	complete.	50	each		
107	Providing and fixing brass bib cock of approved	30	Cacii		
190	quality:				
190.1	15 mm nominal bore	10	each	<del>                                     </del>	
170.1	Providing and fixing gun metal gate valve with C.I.	10	cucii		
191	wheel of approved quality (screwed end):				
191.1	25 mm nominal bore	10	each		
191.2	20 mm nominal bore	10	each	<del> </del>	
191.3	32 mm nominal bore.	10	each	<del> </del>	
191.4	40 mm nominal bore	5	each		
191.4	50 mm nominal bore	10	each		
191.6		2	each	<del>                                     </del>	
	80 mm nominal bore	5	each		
171.7	Providing and fixing ball valve (brass) of approved		Cacii	<del>                                     </del>	
	quality, High or low pressure, with plastic floats				
192	complete:				
192.1	15 mm nominal bore	10	each	<del> </del>	
192.2	20 mm nominal bore	10	each	+	
192.3	25 mm nominal bore	10	each	+	
172.3	Providing and fixing gun metal non- return valve	10	Cacii	+	
193	of approved quality (screwed end):				
193.1	25 mm nominal bore				
193.1.1	Horizontal	5	each		-
193.1.1	Vertical	5	each		-
193.1.2	32 mm nominal bore	<u>J</u>	Cacii		
193.2.1	Horizontal	2	each		
193.2.1	Vertical	2	each		
193.2.2	40 mm nominal bore		Cacii		
193.3.1	Horizontal	2	each		
193.3.1	Vertical	2	each		
193.3.2	50 mm nominal bore		cacii		
193.4.1	Horizontal	2	each		
193.4.1	Vertical	2	each		
173.4.2	Providing and fixing uplasticised PVC connection		cacii		-
194	pipe with brass unions:				
194.1	45 cm length				
194.1.1	15 mm nominal bore	200	each		
-/ 11111				1 L	

1 1	Providing and fixing C.I. sluice valves (with cap)		l	1	1
	complete with bolts, nuts, rubber insertions etc.				
195	•				
195.1	100 mm diameter				
195.1.1		2	each		
195.1.1	150 mm diameter		Cacii		
		2	l-		
195.2.1	Class I	2	each		
	Providing and filling sand of grading zone V or				
40.5	coarser grade, allround the G.I. pipes in external				
196	work:				
196.1	15 mm diameter pipe	20	metre		
196.2	20 mm diameter pipe	20	metre		
196.3	25 mm diameter pipe	100	metre		
196.4	32 mm diameter pipe	20	metre		
196.5	40 mm diameter pipe	20	metre		
196.6	50 mm diameter pipe	100	metre		
196.7	65 mm diameter pipe	5	metre		
196.8	80 mm diameter pipe	10	metre		
	Providing and fixing G.I. Union in G.I. pipe				
	including cutting and threading the pipe and				
197	making long screws etc. complete (New work):				
197.1	15 mm nominal bore	5	each		
197.1	20 mm nominal bore	5	each		
197.2	25 mm nominal bore	5			
			each		
197.4	32 mm nominal bore	5	each		
197.5	40 mm nominal bore	5	each		
197.6	50 mm nominal bore	5	each		
197.7	65 mm nominal bore	5	each		
197.8	80 mm nominal bore	5	each		
	Providing and fixing G.I. Union in existing G.I.				
	pipe line, cutting and threading the pipe and				
	making long screws, including excavation, refilling				
	the earth or cutting of wall and making good the				
198	same complete wherever required :				
198.1	15 mm nominal bore	20	each		
198.2	20 mm nominal bore	20	each		
198.3	25 mm nominal bore	20	each		
198.4	32 mm nominal bore	20	each		
198.5	40 mm nominal bore	10	each		
198.6	50 mm nominal bore	20	each		
198.7	65 mm nominal bore	5	each		
198.8	80 mm nominal bore	5	each		
	Providing and placing on terrace (at all floor				
	levels) polyethylene water storage tank, IS: 12701				
	marked, with cover and suitable locking				
	arrangement and making necessary holes for inlet,				
	outlet and overflow pipes but without fittings and		per		
199	the base support for tank.	20000	litre		
	Providing and fixing C.P. brass bib cock of				
200	approved quality conforming to IS:8931:		<u></u>		
200.1	15 mm nominal bore	5	each		
	Providing and fixing C.P. brass long nose bib cock				
	of approved quality conforming to IS standards and				
201	weighing not less than 810 gms.				
201.1	15 mm nominal bore	5	each		
231.1	Providing and fixing C.P. brass long body bib cock				
	of approved quality conforming to IS standards and				
202	weighing not less than 690 gms.				
202.1	15 mm nominal bore	5	each		
202.1	13 mm nominar bore		Cucii		

	Providing and fixing C.P. brass angle valve for			I	1
	basin mixer and geyser points of approved quality				
203	conforming to IS:8931				
203.1	15mm nominal bore	40	each		
	Providing and fixing C.P. Brass extension nipple				
	(size 15mmx50mm) of approved make and quality				
204	as per direction of Engineer-in-charge.	50	each		
	Providing and fixing PTMT, push cock of		000011		
205	approved quality and colour.				
	15 mm nominal bore, 98 mm long, weighing not				
205.1	less than 75 gms	50	each		
200.1	Providing and laying S&S Centrifugally Cast		Cucii		
	(Spun) / Ductile Iron Pipes conforming to IS:				
206	8329:				
206.1	100 mm dia Ductile Iron Class K-7 pipes	20	metre		
200.1	Cutting holes up to 30x30 cm in walls including	20	metre		
207	making good the same:				
207	With common burnt clay F.P.S. (non modular)				
207.1	bricks	10	Each		
208	Labour for cutting C.I. pipe with steel saw.	10	Lacii		
208	Labour for cutting C.1. pipe with steel saw.		aaah		
209.1	100 mm diameter C.I. mine	10	each		
208.1	100 mm diameter C.I. pipe	10	cut		
200	Supplying and fixing C.I. cover without frame for				
209	manholes:				
200.1	455x610 mm rectangular C.I. cover (light duty) the	20	,		
209.1	weight of the cover to be not less than 23 kg	20	each		
200.2	500 mm diameter C.I. cover (medium duty) the	20			
209.2	weight of the cover to be not less than 58 kg	20	each		
200.2	560 mm diameter C.I. cover (heavy duty) the	20			
209.3	weight of the cover to be not less than 108 kg	20	each		
	Providing and fixing in position pre-cast R.C.C.				
210	manhole cover and frame of required shape and				
210	approved quality				
210.1	L D- 2.5				
	Rectangular shape 600x450 mm internal				
210.1.1	dimensions	20	each		
210.1.2	Square shape 450 mm internal dimensions	20	each		
210.2	Circular shape 450 mm internal diameter	5	each		
210.2.1	M D - 10				
210.2.2	Square shape 450 mm internal dimension	10	each		
210.2.3	Circular shape 500 mm internal diameter	5	each		
210.3	H D - 20				
210.3.1	Circular shape 560 mm internal diameter	5	each		
	Supplying and fixing C.I. cover 300x300 mm				
	without frame for gully trap (standard pattern) the				
211	weight of cover to be not less than 4.5 kg	5	each		
212	Providing and fixing 12 mm thick prelaminated				
	particle board flat pressed three layer or graded				
	wood particle board conforming to IS: 12823				
	Grade 1 Type II, in panelling fixed in aluminum				
	doors, windows shutters and partition frames with				
	C.P. brass / stainless steel screws etc. complete as				
	per architectural drawings and directions of				
	engineer-in-charge.				
2121	Pre-laminated particle board with decorative	100			
212.1	lamination on both sides	100	sqm		

				İ	I
	Providing and fixing glazing in aluminium door,				
	window, ventilator shutters and partitions etc. with				
	EPDM rubber / neoprene gasket etc. complete as				
	per the architectural drawings and the directions of				
	engineer-in-charge . (Cost of aluminium snap				
213	beading shall be paid in basic item):				
212.1	With float glass panes of 5 mm thickness (weight	200			
213.1	not less than 12.50 kg/sqm)	300	sqm		
	With float glass panes of 8 mm thickness (weight				
213.2	not less than 20 kg/sqm)	50	sqm		
	Replacement of double action hydraulic floor				
	spring of approved brand and manufacture				
	conforming to IS: 6315, having brand logo				
	embossed on the body / plate with double spring				
	mechanism and door weight upto 125 kg, for				
	doors, including cost of cutting floors, embedding				
	in floors as required and making good the same				
	matching to the existing floor finishing 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.(DSR-2023)				
	Note: Old material will be the property of the				
	Contractor.				
214					
	With stainless steel cover plate minimum 1.25 mm				
214.1	thickness	50	Each		
	Replacement of aluminium round shape handle of				
	outer dia 100 mm with SS screws etc. complete as				
	per direction of Engineer-in-charge.				
	Note: Old material will be the property of the				
215	Contractor.				
	Powder coated minimum thickness 50 micron				
215.1	aluminium	30	Each		
	Repair maintenance of Aluminium Doors by open				
	of door frame and proving and fixing 8mm thick				
	rod (in single leaf) and screws, clit, etc. complete				
	and as per direction of Engineer-in-charge.				
	Note: Old material will be the property of the				
216	Contractor.	100	Each		
210	Contractor.	100	Lacii		
	Replacement and fixing of Mortice Lock handle				
	with cover and required nut, screws etc. complete				
	and as per direction of Engineer-in-				
	charge.(Excluding lock)				
	Note: Old material will be the property of the				
217	Contractor.	100	Each		
	Providing and fixing powder coated aluminium				
	snap beading for doors, windows, ventilators and				
	partitions with required EPDM rubber/ neoprene				
	gasket etc. Aluminium sections shall be smooth,				
	rust free, straight, mitred and jointed mechanically,				
	•				
	stainless steel screws, all complete as per the				
	directions of Engineer-in-charge. (minimum				
	thickness of powder coating 50 micron).				
210	Note: Old material will be the property of the	100	1		
218	Contractor.	100	kg		

	Replacement and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles				
	(best make of approved quality) for aluminium				
210	doors complete. Note: Old material will be	<b>5</b> 0	<b>.</b>		
219	the property of the Contractor.	50	Each		
	Replacement of aluminium door pivot set of door				
	weight upto 125 kg, including cost of removing old pivot, embedding in door frame as required and				
	making good the same etc. and as per direction of				
	Engineer-in-charge. Note: Old material will be				
220	the property of the Contractor.	100	Each		
220	Providing and fixing double action hydraulic floor	100	Lucii		
	spring of approved brand and manufacture				
	conforming to IS: 6315, having brand logo				
	embossed on the body / plate with double spring				
	mechanism and door weight upto 125 kg, for				
	doors, including cost of cutting floors, embedding				
	in floors as required and making good the same				
	matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet				
	outer box with slide plate etc. complete as per the				
221	direction of Engineer-in-charge.				
221	5 5				
	With stainless steel cover plate minimum 1.25 mm				
221.1	thickness	10	each		
	Providing and fixing double glazed hermetically				
	sealed glazing in aluminium windows, ventilators				
	and partition etc. with 6 mm thick clear float glass				
	both side, having 12 mm air gap, including				
	providing EPDM gasket, perforated aluminium				
	spacers, desiccants, sealant (Both primary and				
	secondary sealant) etc. as per specifications,				
222	drawings and direction of Engineer-in-charge	50			
222	complete.  Providing and fixing stainless steel (SS 304 grade)	50	sqm		
	adjustable friction windows stays of approved				
	quality with necessary stainless steel screws etc. to				
	the side hung windows as per direction of				
223	Engineer-in-charge complete.				
223.1	205 X 19 mm	5	each		
223.2	255 X 19 mm	5	each		
223.3	355 X 19 mm	5	each		
220.0	Providing and laying water proofing treatment in				
	sunken portion of WCs, bathroom etc., by applying				
	cement slurry mixed with water proofing cement				
	compound consisting of applying :				
	(a) First layer of slurry of cement @ 0.488 kg/sqm				
	mixed with water proofing cement compound @				
	0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.				
	(b) Second layer of slurry of cement @ 0.242				
	kg/sqm mixed with water proofing cement				
	compound @ 0.126 kg/sqm. This layer will be				
	allowed to air cure for 4 hours followed with water				
	curing for 48 hours.				
	The rate includes preparation of surface, treatment				
	and sealing of all joints, corners, junctions of pipes				
224	and masonry with polymer mixed slurry.	50	sqm		

	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm,				
	reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including				
	providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with				
225	M.S. flats of size 50 mm x 1.6 mm complete, all as	~0			
225	per direction of Engineer-in-charge.  Providing and fixing mineral fibre false ceiling	50	each		
	tiles at all heights of size 595X595mm of approved				
	texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light				
	Reflectance $\geq$ 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS				
	476 pt - 6 &7)in true horizontal level suspended on				
	interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick				
	(galvanized @120 gsm) comprising of main T				
	runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and				
	secondary intermediate cross T of size 15x32 mm				
	of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using				
	galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners,				
	6 mm diameter fully threaded hanger rod up to				
	1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre				
	along main 'T'. The system should rest on periphery walls /partitions with the help of GI				
	perimeter wall angle of size24x24X3000 mm made				
	of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to				
	centre & 40 mm long dry wall S.S. screws. The				
	exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted				
	with polyester baked paint, for all heights. The work shall be carried out as per specifications,				
	drawings and as per directions of the engineer-in-				
226	charge.  With 20 mm thick beveled tegular mineral fibre				
226.1	false ceiling tile (NRC 0.7)	100	sqm		
	Providing, mixing and applying bonding coat of				
	approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-				
227	charge complete in all respect.				
	SBR Polymer (@10% of cement weight) modified				
	cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of				
227.1	approved polymer	20	sqm		
	Providing and fixing G.I. Nipple 15 mm nominal				
228	bore on existing GI pipe line by cutting, threadning, fixing complete in all respect.			 	
228.1	50mm long	20	Each		
228.2 228.3	75mm long	20	Each		
228.3	100mm long 30	20	Each		

228.4	150mm long				
	Providing and fixing G.I. Nipple 25 mm nominal				
	bore on existing Gi pipe line by cutting,				
229	threadning, fixing complete in all respect.				
229.1	50mm long	20	Each		
229.2	75mm long	20	Each		
229.3	100mm long	20	Each		
	Providing and fixing G.I. Nipple 32 mm nominal				
	bore on existing Gi pipe line by cutting,				
230	threadning, fixing complete in all respect.				
230.1	50 mm (Length)	20	Each		
230.2	80 mm (Length)	20	Each		
230.3	100 mm (Length)	20	Each		
230.4	125 mm (Length)	20	Each		
230.5	150 mm (Length)	20	Each		
	Providing and fixing G.I. Nipple 40 mm nominal				
	bore on existing Gi pipe line by cutting,				
231	threadning, fixing complete in all respect.				
231.1	50 mm (Length)	20	Each		
231.2	80 mm (Length)	20	Each		
	100 mm (Length)	20	Each		
	125 mm (Length)	20	Each		
231.5	150 mm (Length)	20	Each		
	Providing and fixing G.I. Nipple 50 mm nominal				
	bore on existing Gi pipe line by cutting, threading,				
232	fixing complete in all respect.				
232.1	50 mm (Length)	20	Each		
232.2	80 mm (Length)	20	Each		
	( 6 /	20	Each		
	125 mm (Length)	20	Each		
232.5	150 mm (Length)	20	Each		
		,	Sub Tota	l Amount	

## SH- I (B): DAY TO DAY CIVIL MAINTENANCE WORKS of Non DSR Items AT CURAJ.

S.No.	Items	Qty	Unit	Rate	Amount
1	Providing and fixing Polyethylene water storage tank cover and suitable locking arrangement of 500 liter capacity	10	Each		
2	Providing and fixing Polyethylene water storage tank cover and suitable locking arrangement of 1000 liter capacity	100	Each		
3	Providing and fixing Polyethylene water storage tank cover and suitable locking arrangement of 1100 liter capacity	10	Each		
4	Providing and fixing Polyethylene water storage tank cover and suitable locking arrangement of 2000 liter capacity	20	Each		
5	Providing and fixing Polyethylene water storage tank cover and suitable locking arrangement of 5000 liter capacity	5	Each		
6	Providing and fixing Health Faucet of (Make: Jaugar, Modle No: ALD-CHR-573)	50	Each		
7	Providing and fixing W/C rubber Washer Black 110mm of Jaguar make	100	Each		
8	Providing and fixing of cistern PVC handle	100	Each		
9	Providing and fixing of Cistern and W/c Syphon washer 32mm	400	Each		
10	Providing and fixing Jaqure make spindle of thick nose for bib cock/piller cock/angular cock	20	Each		
11	Providing and fixing Jaqure make spindle of thin nose for bib cock/piller cock/angular cock,	20	Each		
12	Providing and fixing 100 mm sand cast Iron grating for gully trap.	50	Each		
13	Providing and fixing CPVC MAPT 15mm ,Make: Ashirwad, Astral, Finolex	10	Each		
14	Providing and fixing CPVC MABT 15mm ,Make: Ashirwad, Astral, Finolex	10	Each		
15	Providing and fixing CPVC MAPT 20mm,Make: Ashirwad, Astral, Finolex	10	Each		
16	Providing and fixing CPVC MABT 20mm ,Make: Ashirwad, Astral, Finolex	10	Each		
17	Providing and fixing CPVC MAPT 25mm, Make: Ashirwad, Astral, Finolex	10	Each		
18	Providing and fixing CPVC MABT 25mm ,Make: Ashirwad, Astral, Finolex	10	Each		
19	Providing and fixing CPVC MAPT 32mm,Make: Ashirwad, Astral, Finolex	10	Each		
20	Providing and fixing CPVC MABT 32mm,Make: Ashirwad, Astral, Finolex	10	Each		
21	Providing and fixing CPVC MAPT 40mm,Make: Ashirwad, Astral, Finolex	10	Each		
22	Providing and fixing CPVC MABT 40mm, Make: Ashirwad, Astral, Finolex	10	Each		
23	Providing and fixing CPVC MAPT 50mm, Make: Ashirwad, Astral, Finolex	10	Each		

24	Providing and fixing CPVC MABT 50mm, Make: Ashirwad, Astral, Finolex	10	Each	
25	Providing and fixing CPVC FAPT 15mm, Make: Ashirwad, Astral, Finolex	10	Each	
26	Providing and fixing CPVC FABT 15mm, Make: Ashirwad, Astral, Finolex	10	Each	
27	Providing and fixing CPVC FAPT 20mm, Make: Ashirwad, Astral, Finolex	10	Each	
28	Providing and fixing CPVC FABT 20mm, Make: Ashirwad, Astral, Finolex	10	Each	
29	Providing and fixing CPVC FAPT 25mm, Make: Ashirwad, Astral, Finolex	10	Each	
30	Providing and fixing CPVC FABT 25mm, Make: Ashirwad, Astral, Finolex	10	Each	
31	Providing and fixing CPVC FAPT 32mm, Make: Ashirwad, Astral, Finolex	10	Each	
32	Providing and fixing CPVC FABT 32mm ,Make: Ashirwad, Astral, Finolex	10	Each	
33	Providing and fixing CPVC FAPT 40mm,Make: Ashirwad, Astral, Finolex	10	Each	
34	Providing and fixing CPVC FABT 40mm ,Make: Ashirwad, Astral, Finolex	10	Each	
35	Providing and fixing CPVC FAPT 50mm ,Make: Ashirwad, Astral, Finolex	10	Each	
36	Providing and fixing CPVC FABT 50mm,Make: Ashirwad, Astral, Finolex	10	Each	
37	Providing and fixing CPVC Valve 15mm Make: Ashirwad, Astral, Finolex	50	Each	
38	Providing and fixing CPVC Value 20mm Make: Ashirwad, Astral, Finolex	50	Each	
39	Providing and fixing CPVC Valve 25mm Make: Ashirwad, Astral, Finolex	50	Each	
40	Providing and fixing CPVC Valve 32mm Make: Ashirwad, Astral, Finolex	50	Each	
41	Providing and fixing CPVC Valve 40mm Make: Ashirwad, Astral, Finolex	30	Each	
42	Providing and fixing CPVC Valve 50mm Make: Ashirwad, Astral, Finolex	30	Each	
43	Providing and fixing CPVC End Cap 15mm Make: Ashirwad, Astral, Finolex	50	Each	
44	Providing and fixing CPVC End Cap 20mm Make: Ashirwad, Astral, Finolex	50	Each	
45	Providing and fixing CPVC End Cap 25mm Make: Ashirwad, Astral, Finolex	50	Each	
46	Providing and fixing CPVC End Cap 32mm Make: Ashirwad, Astral, Finolex	50	Each	
47	Providing and fixing CPVC End Cap 40mm Make: Ashirwad, Astral, Finolex	30	Each	
48	Providing and fixing CPVC End Cap 50mm Make: Ashirwad, Astral, Finolex	10	Each	

49	Providing and fixing CPVC End Cap 110mm Make: Ashirwad, Astral, Finolex	10	Each	
50	Providing and fixing CPVC Elbow 15mm Make: Ashirwad, Astral, Finolex	50	Each	
51	Providing and fixing CPVC Elbow 20mm Make: Ashirwad, Astral, Finolex	50	Each	
52	Providing and fixing CPVC Elbow 25mm Make: Ashirwad, Astral, Finolex	50	Each	
53	Providing and fixing CPVC Elbow 32mm Make: Ashirwad, Astral, Finolex	50	Each	
54	Providing and fixing CPVC Elbow 40mm Make: Ashirwad, Astral, Finolex	30	Each	
55	Providing and fixing CPVC Elbow 50mm Make: Ashirwad, Astral, Finolex	10	Each	
56	Providing and fixing CPVC Elbow 110mm Make: Ashirwad, Astral, Finolex	10	Each	
57	Providing and fixing CPVC Tee 15mm Make: Ashirwad, Astral, Finolex	50	Each	
58	Providing and fixing CPVC Tee 20mm Make: Ashirwad, Astral, Finolex	50	Each	
59	Providing and fixing CPVC Tee 25mm Make: Ashirwad, Astral, Finolex	50	Each	
60	Providing and fixing CPVC Tee 32mm Make: Ashirwad, Astral, Finolex	50	Each	
61	Providing and fixing CPVC Tee 40mm Make: Ashirwad, Astral, Finolex	30	Each	
62	Providing and fixing CPVC Tee 50mm Make: Ashirwad, Astral, Finolex	10	Each	
63	Providing and fixing CPVC Tee 110mm Make: Ashirwad, Astral, Finolex	10	Each	
64	Providing and fixing CPVC Tee 20x15mm Make: Ashirwad, Astral, Finolex	50	Each	
65	Providing and fixing CPVC Tee 25x20mm Make: Ashirwad, Astral, Finolex	50	Each	
66	Providing and fixing CPVC Tee 32x25mm Make: Ashirwad, Astral, Finolex	50	Each	
67	Providing and fixing CPVC Tee 40x32mm Make: Ashirwad, Astral, Finolex	10	Each	
68	Providing and fixing CPVC Tee 50x40mm Make: Ashirwad, Astral, Finolex	10	Each	
69	Providing and fixing CPVC Socket 15mm Make: Ashirwad, Astral, Finolex	50	Each	
70	Providing and fixing CPVC Socket 20mm Make: Ashirwad, Astral, Finolex	50	Each	
71	Providing and fixing CPVC Socket 25mm Make: Ashirwad, Astral, Finolex	50	Each	
72	Providing and fixing CPVC Socket 32mm Make: Ashirwad, Astral, Finolex	50	Each	
73	Providing and fixing CPVC Socket 40mm Make: Ashirwad, Astral, Finolex	30	Each	

74	Providing and fixing CPVC Socket 50mm Make: Ashirwad, Astral, Finolex	10	Each	
75	Providing and fixing CPVC Socket 110mm Make: Ashirwad, Astral, Finolex	10	Each	
76	Providing and fixing CPVC Elbow 15X15mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
77	Providing and fixing CPVC Elbow 15X20mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
78	Providing and fixing CPVC Elbow 20mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
79	Providing and fixing CPVC Elbow 25mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
80	Providing and fixing CPVC Tee 15x15mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
81	Providing and fixing CPVC Tee 15x20mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
82	Providing and fixing CPVC Tee 20mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
83	Providing and fixing CPVC Tee 25mm Brass Make: Ashirwad, Astral, Finolex	50	Each	
84	Providing and fixing CPVC Union 15mm Make: Ashirwad, Astral, Finolex	50	Each	
85	Providing and fixing CPVC Union 20mm Make: Ashirwad, Astral, Finolex	50	Each	
86	Providing and fixing CPVC Union 25mm Make: Ashirwad, Astral, Finolex	50	Each	
87	Providing and fixing CPVC Union 32mm Make: Ashirwad, Astral, Finolex	50	Each	
88	Providing and fixing CPVC Union 40mm Make: Ashirwad, Astral, Finolex	30	Each	
89	Providing and fixing CPVC Union 50mm Make: Ashirwad, Astral, Finolex	10	Each	
90	Providing and fixing CPVC Reducer 15x20mm Make: Ashirwad, Astral, Finolex	50	Each	
91	Providing and fixing CPVC Reducer 20x25mm Make: Ashirwad, Astral, Finolex	50	Each	
92	Providing and fixing CPVC Reducer 25x32mm Make: Ashirwad, Astral, Finolex	50	Each	
93	Providing and fixing CPVC Reducer 32x40mm Make: Ashirwad, Astral, Finolex	50	Each	
94	Providing and fixing CPVC Reducer 40x50mm Make: Ashirwad, Astral, Finolex	30	Each	
95	Providing and fixing CPVC Reducer 50x110mm Make: Ashirwad, Astral, Finolex	10	Each	
96	Providing and fixing CPVC Elbow 15x20mm Make: Ashirwad, Astral, Finolex	50	Each	
97	Providing and fixing CPVC Elbow 20mx25m Make: Ashirwad, Astral, Finolex	50	Each	
98	Providing and fixing CPVC Elbow 25x32mm Make: Ashirwad, Astral, Finolex	50	Each	

99	Providing and fixing CPVC Elbow 32x40mm Make: Ashirwad, Astral, Finolex	50	Each	
100	Providing and fixing CPVC Elbow 40x50mm Make: Ashirwad, Astral, Finolex	30	Each	
101	Providing and fixing CPVC Elbow 50x110mm Make: Ashirwad, Astral, Finolex	30	Each	
102	Providing and fixing CPVC Elbow 45 degree 20mm Make: Ashirwad, Astral, Finolex	10	Each	
103	Providing and fixing CPVC Elbow 45 degree 25mm Make: Ashirwad, Astral, Finolex	10	Each	
104	Providing and fixing CPVC Elbow 45 degree 32mm Make: Ashirwad, Astral, Finolex	10	Each	
105	Providing and fixing CPVC Elbow 45 degree 40mm Make: Ashirwad, Astral, Finolex	10	Each	
106	Providing and fixing CPVC Elbow 45 degree 50mm Make: Ashirwad, Astral, Finolex	10	Each	
107	Providing and fixing CPVC Elbow 45 degree 110mm Make: Ashirwad, Astral, Finolex	10	Each	
108	Providing and fixing CPVC Tank Connection 15mm Make: Ashirwad, Astral, Finolex	50	Each	
109	Providing and fixing CPVC Connection 20mm Make: Ashirwad, Astral, Finolex	50	Each	
110	Providing and fixing CPVC Connnection 25mm Make: Ashirwad, Astral, Finolex	50	Each	
111	Providing and fixing CPVC Connection 32mmMake: Ashirwad, Astral, Finolex	50	Each	
112	Providing and fixing CPVC Connection 40mmMake: Ashirwad, Astral, Finolex	30	Each	
113	Providing and fixing CPVC Connnection 50mm Make: Ashirwad, Astral, Finolex	10	Each	
114	Providing and fixing CPVC U-Clip 15mm Make: Ashirwad, Astral, Finolex	100	Each	
115	Providing and fixing CPVC U-Clip 20mm Make: Ashirwad, Astral, Finolex	100	Each	
116	Providing and fixing CPVC U-Clip 25mm Make: Ashirwad, Astral, Finolex	100	Each	
117	Providing and fixing CPVC U-Clip 32mmMake: Ashirwad, Astral, Finolex	100	Each	
118	Providing and fixing CPVC U-Clip 40mm Make: Ashirwad, Astral, Finolex	100	Each	
119	Providing and fixing CPVC U-Clip 50mm Make: Ashirwad, Astral, Finolex	30	Each	
120	Providing and fixing CPVC U-Clip 110mm Make: Ashirwad, Astral, Finolex	50	Each	
121	Providing and fixing PVC Elbow 15mm Make: Kisan or equivalent	20	Each	
122	Providing and fixing PVC Elbow 20mm Make: Kisan or equivalent	20	Each	
123	Providing and fixing PVC Elbow 25mm Make: Kisan or equivalent	20	Each	

124	Providing and fixing PVC Elbow 40mm Make: Kisan or equivalent	20	Each	
125	Providing and fixing PVC Elbow 50mm Make: Kisan or equivalent	20	Each	
126	Providing and fixing PVC Elbow 90mm Make: Kisan or equivalent	20	Each	
127	Providing and fixing PVC Tee 15mm Make: Kisan or equivalent	20	Each	
128	Providing and fixing PVC Tee 20mm Make: Kisan or equivalent	20	Each	
129	Providing and fixing PVC Tee 25mm Make: Kisan or equivalent	20	Each	
130	Providing and fixing PVC Tee 40mm Make: Kisan or equivalent	20	Each	
131	Providing and fixing PVC Tee 50mm Make: Kisan or equivalent	20	Each	
132	Providing and fixing PVC Tee 90mm Make: Kisan or equivalent	20	Each	
133	Providing and fixing PVC Socket 15mm Make: Kisan or equivalent	20	Each	
134	Providing and fixing PVC Socket 20mm Make: Kisan or equivalent	20	Each	
135	Providing and fixing PVC Socket 25mm Make: Kisan or equivalent	20	Each	
136	Providing and fixing PVC Socket 40mm Make: Kisan or equivalent	20	Each	
137	Providing and fixing PVC Socket 50mm Make: Kisan or equivalent	20	Each	
138	Providing and fixing PVC Socket 110mm Make: Kisan or equivalent	20	Each	
139	Providing and fixing GI Eblow 15mm Make: UCO, Unik	10	Each	
140	Providing and fixing GI Eblow 20mm Make: UCO, Unik	10	Each	
141	Providing and fixing GI Eblow 25mm Make: UCO, Unik	10	Each	
142	Providing and fixing GI Eblow 32mm Make: UCO, Unik  Providing and fixing GI Eblow 40mm Make: UCO,	10	Each	
143	Unik  Providing and fixing GI Eblow 40mm Make: UCO,  Unik  Providing and fixing GI Eblow 50mm Make: UCO,	10	Each	
144	Unik  Providing and fixing GI Eblow 80mm Make: UCO,	10	Each	
145	Unik  Providing and fixing GI Tee 15mm Make: UCO,	10	Each	
146	Unik Providing and fixing GI Tee 20mm Make: UCO,	10	Each Each	
148	Unik Providing and fixing GI Tee 25mm Make: UCO,	10	Each	
149	Unik  Providing and fixing GI Tee 32mm Make: UCO,	10	Each	
	Unik 37			

150	Providing and fixing GI Tee 40mm Make: UCO, Unik	10	Each	
151	Providing and fixing GI Tee 50mm Make: UCO, Unik	10	Each	
152	Providing and fixing GI Tee 80mm Make: UCO, Unik	10	Each	
153	Providing and fixing GI Socket 15mm Make: UCO, Unik	10	Each	
154	Providing and fixing GI Socket 20mm Make: UCO, Unik	10	Each	
155	Providing and fixing GI Socket 25mm Make: UCO, Unik	10	Each	
156	Providing and fixing GI Socket 32mm Make: UCO, Unik	10	Each	
157	Providing and fixing GI Socket 40mm Make: UCO, Unik	10	Each	
158	Providing and fixing GI Socket 50mm Make: UCO, Unik	10	Each	
159	Providing and fixing GI Socket 80mm Make: UCO, Unik	10	Each	
160	Providing and fixing GI Union 15mm Make: UCO, Unik	10	Each	
161	Providing and fixing GI Union 20mm Make: UCO, Unik	10	Each	
162	Providing and fixing GI Union 25mm Make: UCO, Unik	10	Each	
163	Providing and fixing GI Union 32mm Make: UCO, Unik	10	Each	
164	Providing and fixing GI Union 40mm Make: UCO, Unik	10	Each	
165	Providing and fixing GI Union 50mm Make: UCO, Unik	10	Each	
166	Providing and fixing GI Union 80mm Make: UCO, Unik	10	Each	
167	Providing and fixing GI Nipple 15mm 2"	10	Each	
168	Providing and fixing GI Nipple 15mm 3"	10	Each	
169	Providing and fixing GI Nipple 15mm 4"	10	Each	
170	Providing and fixing GI Nipple 15mm 6"	10	Each	
171	Providing and fixing GI Nipple 15mm 8"	10	Each	
172	Providing and fixing GI Nipple 15mm 9"	10	Each	
173	Providing and fixing GI Nipple 15mm 12"	10	Each	
174	Providing and fixing GI Nipple 15mm 18"	10	Each	
175	Providing and fixing GI Nipple 20mm 2"	10	Each	
176	Providing and fixing GI Nipple 20mm 3"	10	Each	
177	Providing and fixing GI Nipple 20mm 4"	10	Each	
178	Providing and fixing GI Nipple 20mm 6"	10	Each	
179	Providing and fixing GI Nipple 20mm 8"	10	Each	
180	Providing and fixing GI Nipple 20mm 9"	10	Each	
181	Providing and fixing GI Nipple 20mm 12"	10	Each	
182	Providing and fixing GI Nipple 20mm 18"	10	Each	
183	Providing and fixing GI Nipple 25mm 2"	10	Each	
184	Providing and fixing GI Nipple 25mm 3"	10	Each	 

185	Providing and fixing GI Nipple 25mm 4"	10	Each	
186	Providing and fixing GI Nipple 25mm 6"	10	Each	
187	Providing and fixing GI Nipple 25mm 8"	10	Each	
188	Providing and fixing GI Nipple 25mm 9"	10	Each	
189	Providing and fixing GI Nipple 25mm 12"	10	Each	
190	Providing and fixing GI Nipple 25mm 18"	10	Each	
191	Providing and fixing GI Nipple 32mm 2"	10	Each	
192	Providing and fixing GI Nipple 32mm 3"	10	Each	
193	Providing and fixing GI Nipple 32mm 4"	10	Each	
194	Providing and fixing GI Nipple 32mm 6"	10	Each	
195	Providing and fixing GI Nipple 32mm 8"	10	Each	
196	Providing and fixing GI Nipple 32mm 9"	10	Each	
197	Providing and fixing GI Nipple 32mm 12"	10	Each	
198	Providing and fixing GI Nipple 32mm 18"	10	Each	
199	Providing and fixing GI Nipple 40mm 2"	10	Each	
200	Providing and fixing GI Nipple 40mm 3"	10	Each	
201	Providing and fixing GI Nipple 40mm 4"	10	Each	
202	Providing and fixing GI Nipple 40mm 6"	10	Each	
203	Providing and fixing GI Nipple 40mm 8"	10	Each	
204	Providing and fixing GI Nipple 40mm 9"	10	Each	
205	Providing and fixing GI Nipple 40mm 12"	10	Each	
206	Providing and fixing GI Nipple 40mm 18"	10	Each	
207	Providing and fixing GI Nipple 50mm 2"	10	Each	
208	Providing and fixing GI Nipple 50mm 3"	10	Each	
209	Providing and fixing GI Nipple 50mm 4"	10	Each	
210	Providing and fixing GI Nipple 50mm 6"	10	Each	
211	Providing and fixing GI Nipple 50mm 8"	10	Each	
212	Providing and fixing GI Nipple 50mm 9"	10	Each	
213	Providing and fixing GI Nipple 50mm 12"	10	Each	
214	Providing and fixing GI Nipple 50mm 18"	10	Each	
215	Providing and fixing GI Nipple 80mm 2"	10	Each	
216	Providing and fixing GI Nipple 80mm 3"	10	Each	
217	Providing and fixing GI Nipple 80mm 4"	10	Each	
218	Providing and fixing GI Nipple 80mm 6"	5	Each	
219	Providing and fixing GI Nipple 80mm 8"	5	Each	
220	Providing and fixing GI Nipple 80mm 9"	5	Each	
221	Providing and fixing GI Nipple 80mm 12"	5	Each	
222	Providing and fixing GI Nipple 80mm 18"	5	Each	
223	Providing and fixing GI U-Clip 15mm	50	Each	
224	Providing and fixing GI U-Clip 20mm	50	Each	
225	Providing and fixing GI U-Clip 25mm	50	Each	
226	Providing and fixing GI U-Clip 32mm	50	Each	
227	Providing and fixing GI U-Clip 40mm	50	Each	
228	Providing and fixing GI U-Clip 50mm	50	Each	
229	Providing and fixing GI U-Clip 80mm	50	Each	
230	Providing and fixing Fastner 16mm 6"	300	Each	
	Providing and fixing SS 100x8mm Screw(Each			
231	500No)	5	Packet	
232	Providing and fixing SS 25x6mm Screw(Each	5	Packet	

Providing and fixing SS   25x8mm   Screw(Each   5   Packet   5000No)		5000No)			
Providing and fixing SS 19x6mm   Screw(Each   5   Packet   5000no)	233		5	Packet	
235   2000no		,			
230   2500No)	234	, , ,	5	Packet	
230   Providing and fixing SS   75x6mm   5   Packet	235	Providing and fixing SS 19x8mm Screw(Each	5	Packet	
Screw(Each2500No)		,			
Screw(Each2500No)	236	Screw(Each2500No)	5	Packet	
Providing and fixing SS 60x6mm   Screw(Each   5   Packet   1250No)	237		5	Packet	
1250No    1250No    5   Packet	238	Providing and fixing SS 60x6mm Screw(Each	5	Packet	
Providing and fixing SS 32x6mm Screw(Each 1250No)	239	, , ,	5	Packet	
1250No    242   Providing and fixing Plastic Gitti-30mm   20   Packet     243   Providing and fixing Plastic Gitti-35mm   20   Packet     244   Providing and fixing Plastic Gitti-38mm   20   Packet     245   Providing and fixing Plug Bolt 3"   300   Each     246   Providing and fixing Hinge Bolt 2"   10   Each     247   Providing and fixing L-Clip 1x1   10   Packet     248   Providing and fixing L-Clip 2x2   10   Packet     249   Providing and fixing L-Clip 3x3   10   Packet     249   Providing and fixing Nail-12x1   5   Kg     250   Providing and fixing Nail-12x1   5   Kg     251   Providing and fixing Nail-12x2   5   Kg     252   Providing and fixing Nail-12x2   5   Kg     253   Providing and fixing Nail-12x3   5   Kg     254   Providing and fixing Nail-14x1   5   Kg     255   Providing and fixing Nail-14x1   5   Kg     256   Providing and fixing Nail-14x2   5   Kg     257   Providing and fixing Nail-14x2   5   Kg     258   Providing and fixing Shower (Make: Jaugar, Modle No: ALD-CHR-769)     260   Providing and fixing Bottel Trap (Make: Jaugar, Modle No: SLS-WHT-6951)   Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951)   Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHT-6953)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-763)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-763)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-753)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-753)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-373)   Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)   10   each   Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)   10   each   Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)   10   each   Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)   10   each   Providing and Fixing Modle No: ARI-CHR-39053)   10   each   Provi	240	Providing and fixing SS 32x6mm Screw(Each	5	Packet	
243   Providing and fixing Plastic Gitti-35mm   20   Packet	241		5	Packet	
244   Providing and fixing Plastic Gitti-38mm   20   Packet	242	5	20	Packet	
245   Providing and fixing Plug Bolt 3"   300   Each   246   Providing and fixing Hinge Bolt 2"   10   Each   247   Providing and fixing L- Clip 1x1   10   Packet   248   Providing and fixing L- Clip 2x2   10   Packet   249   Providing and fixing L- Clip 3x3   10   Packet   250   Providing and fixing Nail-12x1   5   Kg   251   Providing and fixing Nail-12x1.5   5   Kg   252   Providing and fixing Nail-12x2   5   Kg   253   Providing and fixing Nail-12x2   5   Kg   254   Providing and fixing Nail-12x4   5   Kg   255   Providing and fixing Nail-12x4   5   Kg   256   Providing and fixing Nail-14x1   5   Kg   257   Providing and fixing Nail-14x1.5   5   Kg   258   Providing and fixing Nail-14x2   5   Kg   258   Providing and fixing Shower (Make: Jaugar, Modle No: ALD-CHR-769)   10   each   260   Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHM-6953)   261   Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)   262   Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: ALD-CHR-763)   Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: ALD-CHR-753)   Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Angle Value (Make: Jaugar, Modle No: ALD-CHR-81041)   Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ALD-CHR-91053)   Providing and fixing Magle Value (Make: Jaugar, Modle No: ALD-CHR-91053)   Providing and fixing Magle Value (Make: Jaugar, Modle No: ALD-CHR-91053)   Providing and fixing Magle Value (Make: Jaugar,	243	<u> </u>	20	Packet	
246   Providing and fixing Hinge Bolt 2"   10   Each	244		20	Packet	
247   Providing and fixing L - Clip 1x1   10   Packet	245	Providing and fixing Plug Bolt 3"	300	Each	
248 Providing and fixing L - Clip 2x2	246	Providing and fixing Hinge Bolt 2"	10	Each	
249	247	Providing and fixing L- Clip 1x1	10	Packet	
250 Providing and fixing Nail-12x1 5 Kg  251 Providing and fixing Nail-12x1.5 5 Kg  252 Providing and fixing Nail-12x2 5 Kg  253 Providing and fixing Nail-12x3 5 Kg  254 Providing and fixing Nail-12x4 5 Kg  255 Providing and fixing Nail-14x1 5 Kg  256 Providing and fixing Nail-14x1.5 5 Kg  257 Providing and fixing Nail-14x2 5 Kg  258 Providing and fixing Nail-14x2 5 Kg  258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759) 5 each  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769) 10 each  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J) 2 each  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953) 2 each  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041) 5 each  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573) 10 each  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: S26A) 10 each  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053) 10 each	248	Providing and fixing L- Clip 2x2	10	Packet	
251 Providing and fixing Nail-12x1.5  252 Providing and fixing Nail-12x2  253 Providing and fixing Nail-12x3  254 Providing and fixing Nail-12x4  255 Providing and fixing Nail-14x1  256 Providing and fixing Nail-14x1.5  257 Providing and fixing Nail-14x2  258 Providing and fixing Nail-14x2  258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759)  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: ALD-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: S26A)  Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: S26A)  Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)	249	Providing and fixing L- Clip 3x3	10	Packet	
251 Providing and fixing Nail-12x1.5  252 Providing and fixing Nail-12x2  253 Providing and fixing Nail-12x3  254 Providing and fixing Nail-12x4  255 Providing and fixing Nail-14x1  256 Providing and fixing Nail-14x1.5  257 Providing and fixing Nail-14x2  258 Providing and fixing Nail-14x2  258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759)  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: ALD-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: S26A)  Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: S26A)  Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)	250	Providing and fixing Nail-12x1	5	Kg	
252 Providing and fixing Nail-12x2	251		5		
253 Providing and fixing Nail-12x3 5 Kg  254 Providing and fixing Nail-12x4 5 Kg  255 Providing and fixing Nail-14x1 5 Kg  256 Providing and fixing Nail-14x1.5 5 Kg  257 Providing and fixing Nail-14x2 5 Kg  258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759) 5 each  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769) 10 each  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J) 2 each  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953) 2 each  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041) 5 each  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573) 10 each  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A) 10 each  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053) 10 each					
254 Providing and fixing Nail-12x4 5 Kg 255 Providing and fixing Nail-14x1 5 Kg 256 Providing and fixing Nail-14x1.5 5 Kg 257 Providing and fixing Nail-14x2 5 Kg 258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759) 5 each 259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769) 10 each 260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J) 2 each 261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953) 2 each 262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041) 5 each 263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573) 10 each 264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A) 10 each 265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053) 10 each			5		
255 Providing and fixing Nail-14x1 5 Kg 256 Providing and fixing Nail-14x1.5 5 Kg 257 Providing and fixing Nail-14x2 5 Kg 258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759) 5 each 259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769) 10 each 260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J) 2 each 261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953) 2 each 262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041) 5 each 263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573) 10 each 264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: S26A) 10 each 265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053) 10 each					
256 Providing and fixing Nail-14x1.5  257 Providing and fixing Nail-14x2  258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759)  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)		5 5		_	
257 Providing and fixing Nail-14x2  258 Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759)  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)					
Providing and fixing Shower (Make: Jaugar, Modle No: OHS-CHR-1759)  259 Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)		<u> </u>			
Providing and fixing Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)  260 Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)		Providing and fixing Shower (Make: Jaugar, Modle			
Providing and fixing Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J)  261 Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)	259	Providing and fixing Bottel Trap (Make: Jaugar,	10	each	
Providing and fixing Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)  262 Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 South Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)	260	Providing and fixing Wall Hung With Jet (Make:	2	each	
Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)  263 Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  264 Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  265 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266 Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)	261	Providing and fixing Wall Hung (Make: Jaugar,	2	each	
Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)  Providing and fixing Two Way Angle Value (Make: Jaugar, Modle No: 526A)  Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  10 each  10 each	262	Providing and fixing Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)	5	each	
Jaugar, Modle No: 526A)  Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  10 each  each	263	Providing and fixing Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)	10	each	
Providing and fixing Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)  266  Providing and fixing Angle Value (Make: Jaugar, 10 each 5	264		10	each	
Providing and fixing Sink Mixer (Make: Jangar, 5 each	265	Providing and fixing Angle Value (Make: Jaugar,	10	each	
122 Troing and mining with trainer daught,	266	Providing and fixing Sink Mixer (Make: Jaugar,	5	each	

	Modle No: VGP-CHR-81165)			
267	Providing and fixing Towel Ring (Make: Jaugar, Modle No: KUP-CHR-35721)	5	each	
	Sub Total Amount (Rs.)			

### SH- I (C): Operation And Maintenance Of 750 Kld Sewerage Treatment Plant at CURAJ.

S.No.	Description of Item of work	Unit	Qty.	Rate	Amount
	SH- I (C): Comprehensive day to day Civil	job per	12		
	Maintenance works at CURAJ.	month			
1	Operation and Maintenance of 750 KLD Sewerage				
	Treatment Plant (Bio remediation based				
	technology) by 24x7 hrs. Inclusive of 07 Nos. STP				
	Pumps and consumables required (NSDL liquid)				
	etc. and nothing extra will be provided against this.				
	Sub Total Amount (in Rs.)				

#### **SCHEDULE OF QUANTITIES – II**

SH- II (A): Electrical And Mechanical Preventive And Day To Day Maintenance Works, Annual Operation, Repair, Maintenance And Periodic Servicing Works Of Pump Houses And Supply Of Electrical Consumable Material AT CURAJ.

Description of Item	Unit	Qty.	Rate	Amount
Annual preventive and day to day maintenance,	Jobs/	12		
to upkeep all the electrical internal & external	year			
installations, fittings, fixtures, wiring, Lights,				
Fans, Geysers etc. functional in the CURAJ				
campus, for all days in a month, including				
Sundays and Holidays, including manpower,				
labour, machinery, general maintenance items,				
tools & plants etc. complete in all respects, as per				
standard practice.				
Indicative items are as under:				
• Wiring/Cabling.				
<ul> <li>Metal/PVC boxes.</li> </ul>				
• Switches, sockets and accessories of different				
ratings.				
• 01phase/03 phase power points & circuits.				
• 01/03 phase Energy Meters.				
pts. etc.				
• All type of indoor and outdoor lights				
* *				
_				
* *				
• HVLS fans.				
Water heaters.				
•				
-				
C				
_				
_				
_				
• Road lights.				
• Lightning arrester and earthing system.				
• All Electrical indoor and outdoor panels and				
panel rooms of all buildings.				
• Maintenance of records etc. and as per tender				
_	Annual preventive and day to day maintenance, to upkeep all the electrical internal & external installations, fittings, fixtures, wiring, Lights, Fans, Geysers etc. functional in the CURAJ campus, for all days in a month, including Sundays and Holidays, including manpower, labour, machinery, general maintenance items, tools & plants etc. complete in all respects, as per standard practice.  Indicative items are as under:  • Wiring/Cabling.  • Metal/PVC boxes.  • Switches, sockets and accessories of different ratings.  • 01phase/03 phase power points & circuits.  • 01/03 phase Energy Meters.  • Light points/ Fan pts/ Exhaust Fan pts/Call bell pts. etc.  • All type of indoor and outdoor lights (conventional/LED/HPSV/MVSV etc.) fittings.  • All type of fans (Ceiling/Exhaust/pedestal/wall).  • HVLS fans.  • Water heaters.  • Auditorium stage lights.  • Air curtains and electric fly catchers.  • Rising mains bus trunking and overhead bus bar of different ratings.  • Sandwich rising mains with aluminium bus bar of different ratings.  • Switch, disconnector, SFU and MCCB of different ratings.  • Switch, disconnector, SFU and MCB DBs of different ratings.  • MCBs, Isolators, RCCBs and MCB DBs of different ratings.  • Cable and Boxes of different sizes.  • Brass compression glands of different sizes.  • HT/LT Cable fault detections and jointing kits.  • Overhead electric line.  • Road lights.  • Lightning arrester and earthing system.  • All Electrical indoor and outdoor panels and panel rooms of all buildings.	Annual preventive and day to day maintenance, to upkeep all the electrical internal & external installations, fittings, fixtures, wiring, Lights, Fans, Geysers etc. functional in the CURAJ campus, for all days in a month, including Sundays and Holidays, including manpower, labour, machinery, general maintenance items, tools & plants etc. complete in all respects, as per standard practice.  Indicative items are as under:  • Wiring/Cabling.  • Metal/PVC boxes.  • Switches, sockets and accessories of different ratings.  • 01phase/03 phase power points & circuits.  • 01/03 phase Energy Meters.  • Light points/ Fan pts/ Exhaust Fan pts/Call bell pts. etc.  • All type of indoor and outdoor lights (conventional/LED/HPSV/MVSV etc.) fittings.  • All type of fans (Ceiling/Exhaust/pedestal/wall).  • HVLS fans.  • Water heaters.  • Auditorium stage lights.  • Air curtains and electric fly catchers.  • Rising mains bus trunking and overhead bus bar of different ratings.  • Sandwich rising mains with aluminium bus bar of different ratings.  • Switch, disconnector, SFU and MCCB of different ratings.  • Switch, disconnector, SFU and MCB of different ratings.  • Cable and Boxes of different sizes.  • Aluminium lugs of different sizes.  • Road lights.  • Lightning arrester and earthing system.  • All Electrical indoor and outdoor panels and panel rooms of all buildings.	Annual preventive and day to day maintenance, to upkeep all the electrical internal & external installations, fittings, fixtures, wiring, Lights, Fans, Geysers etc. functional in the CURAJ campus, for all days in a month, including Sundays and Holidays, including manpower, labour, machinery, general maintenance items, tools & plants etc. complete in all respects, as per standard practice.  Indicative items are as under:  • Wiring/Cabling.  • Metal/PVC boxes.  • Switches, sockets and accessories of different ratings.  • 01/03 phase Energy Meters.  • Light points/ Fan pts/ Exhaust Fan pts/Call bell pts. etc.  • All type of indoor and outdoor lights (conventional/LED/HPSV/MVSV etc.) fittings.  • All type of fans (Ceiling/Exhaust/pedestal/wall).  HVLS fans.  • Water heaters.  • Auditorium stage lights.  • Air curtains and electric fly catchers.  • Rising mains bus trunking and overhead bus bar of different ratings.  • Sandwich rising mains with aluminium bus bar of different ratings.  • Switch, disconnector, SFU and MCCB of different ratings.  • MCBs, Isolators, RCCBs and MCB DBs of different ratings.  • Cable and Boxes of different sizes.  • HT/LT Cable fault detections and jointing kits.  • Overhead electric line.  • Road lights.  • All Electrical indoor and outdoor panels and panel rooms of all buildings.	Annual preventive and day to day maintenance, to upkeep all the electrical internal & external installations, fittings, fixtures, wiring, Lights, Fans, Geysers etc. functional in the CURAJ campus, for all days in a month, including Sundays and Holidays, including manpower, labour, machinery, general maintenance items, tools & plants etc. complete in all respects, as per standard practice.  Indicative items are as under:  Wiring/Cabling.  Metal/PVC boxes.  Switches, sockets and accessories of different ratings.  Olphase/03 phase power points & circuits.  Ol/03 phase Energy Meters.  Light points/ Fan pts/ Exhaust Fan pts/Call bell pts. etc.  All type of indoor and outdoor lights (conventional/LED/HPSV/MVSV etc.) fittings.  All type of fans (Ceiling/Exhaust/pedestal/wall).  HVLS fans.  Water heaters.  Auditorium stage lights.  Air curtains and electric fly catchers.  Rising mains bus trunking and overhead bus bar of different ratings.  Sandwich rising mains with aluminium bus bar of different ratings.  Switch, disconnector, SFU and MCCB of different ratings.  MCBs, Isolators, RCCBs and MCB DBs of different ratings.  Cable and Boxes of different sizes.  Brass compression glands of different sizes.  HT/LT Cable fault detections and jointing kits.  Overhead electric line.  Road lights.  Lightning arrester and carthing system.  All Electrical indoor and outdoor panels and panel rooms of all buildings.

	document.			
	Comprehensive Annual Operation, Repair,	Jobs/	12	
	Maintenance and Periodic Servicing Works of	year		
	pump houses and other water & booster			
<b>b</b> )	pumps/motors/starters along with associated			
	panels and accessories for all days in a month			
	including Sundays and Holidays, including			
	manpower, machinery, spare parts, consumables,			
	tools & plants etc. complete in all respects.			
<b>c</b> )	All Electrical consumable items cost			
	(including all) will be reimbursed to the			
	agency/contractor as per following:	<b>T</b> 0		
1	CPWD DSR (E&M) 2022/Appendix-II: BASIC RATE OF MATERIAL	L.S.		
	The bidder has to quote the rates above / below /			
	at par on DSR (E&M) 2022 rates including all			
	considering estimated cost of Rs. 3,00,000/-			
2	2.5 sq mm, three core, FRLS PVC sheathed, workshop		200	
	flexible copper cable	metre	200	
3	10.0 sq mm, four core, FRLS PVC sheathed, aluminum	metre	50	
	conductor armored cable	metre	30	
4	16.0 sq mm, four core, FRLS PVC sheathed, aluminum conductor armored cable	metre	100	
5	4.0 sq mm, three core, FRLS PVC sheathed, flexible flat			
	submersible copper cable	metre	50	
6	6.0 sq mm, three core, FRLS PVC sheathed, flexible flat	motro	50	
	submersible copper cable	metre	30	
7	20 mm dia. ISI marked, flexible PVC conduit	metre	50	
8	25 mm dia. ISI marked, flexible PVC conduit	metre	50	
9	D.P. 25/32 amps, one way modular switch with	each	25	
10	indicator, ISI marked; Make & Model: Legrand, arteor. 63 amps. ratings , TPN MCB, "C" curve, 10 KA breaking			
10	capacity	each	20	
11	16 A, three pin plug top as per IS.	each	100	
12	06 A, three pin plug top as per IS.	each	20	
13	03 way bakelite connector	each	20	
14		each	20	
15	04 way bakelite connector	each	2000	
16	2.5 mfd, 230V, 50 Hz, capacitor as per IS.			
17	4.0 mfd, 230V, 50 Hz, capacitor as per IS.	each	10	
	35 mfd, 230V, 50 Hz, capacitor as per IS.	each	5	
18	50 mfd, 230V, 50 Hz, capacitor as per IS.	each	5	
19	4" pvc electric round sheet	each	500	
20	10-12 W, 02 pin, 230 V, 50 Hz LED PL.	each	100	
21	02 wire, 5-30 Amp rated static energy meter with 1.0		_	
	accuracy class as per IS, suitable for 01 phase, 230 V, 50 Hz AC supply.	each	5	
22	4 wire, 10-60 Amp rated static energy meter with 1.0			
	accuracy class as per IS, suitable for 03 phase, 415 V,	each	5	
	50 Hz AC supply.			
23	Rollar of Stepped type Modular Fan regulator (2			
	module); Make & Model: Legrand, mylinc (100 pcs)	each	500	
	and Legrand, arteor (400 pcs).			

				T
24	01 phase, 230 V, 50 Hz AC, 20W rated, 4' long LED tubelight/batten as per IS.	each	1000	
25	01 phase, 230 V, 50 Hz AC, 10W rated, 2' long LED tubelight/batten as per IS.	each	500	
26	90-100 W, 230V, 50 Hz LED street light as per IS.	each	30	
27	40-50 W, 230V, 50 Hz LED street light as per IS.	each	30	
28	100 W, 230V, 50 Hz LED flood light as per IS.	each	5	
29	18W-28W, 230V, 50 Hz, 1'*1' size Panel LED light as			
2,	per IS.	each	10	
30	30W-48W, 230V, 50 Hz, 2'*2' size Panel LED light as per IS.	each	50	
31	40-50W, 230V, 50 Hz garden light as per IS.	each	5	
32	12-15W, 230 V, 50 Hz, LED Surface light as per IS.	each	20	
33	06W or equivalent, 03" dia. or equivalent LED Ceiling light (square shaped) as per IS.	each	20	
34	11W or equivalent, 04" dia. or equivalent LED Ceiling light (round shaped) as per IS.	each	20	
35	14W or equivalent, 06" dia. or equivalent LED Ceiling light (round shaped) as per IS.	each	20	
36	10 W, 230V, 50 Hz wall mount oval outdoor led light as per IS.	each	10	
37	Digital time switch suitable for 1 output per phase and suitable for 01 phase, 230 V, 50 Hz AC supply, as per IS. (make: GIC/L&T/Siemens/C&S/ABB/Schneider).	each	10	
38	Fully Automatic Star-Delta Starter (FASD) as per IS with inbuilt ammeter, voltmeter & single phase preventor etc. suitable for 03 phase, 415 V, 50 Hz, AC, 15 hp rated Open well Submersible Pump (make: L&T/Siemens/C&S/ABB/Schneider).	each	2	
39	Direct-On-Line Starter as per IS with inbuilt ammeter, voltmeter & single phase preventor etc. suitable for 03 phase, 415 V, 50 Hz, AC, 7.5 hp rated Open well Submersible Pump (make: L&T/Siemens/C&S/ABB/Schneider).	each	2	
40	1000 W haligen lamp/rod suitable for 1 ph, 230V AC auditorium lights.	each	10	
41	Supply of LED Light Drivers of following specifications as per IS:			
41.1	Input Voltage=100-277 V AC, Input Current=2.0 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=42-64 V DC, Output Current=1.4 A and suitable for 220-240 V, 50-60 Hz, AC, 0.35 Amp, 85 W max rated LED Street light.	each	20	
41.2	Input Voltage=100-277 V AC, Input Current=0.8 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=44-72 V DC, Output Current=0.7 A and Suitable for 220-240 V, 50-60 Hz, AC, 0.21 Amp, 43 W max rated LED Street light.	each	10	
41.3	Input Voltage=150-264 V AC, Input Current=0.7 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=49-60 V DC, Output Current=1.4 A and Suitable for 220-240 V, 50-60 Hz, AC, 0.21 Amp, 43 W max rated LED Street light.	each	10	
41.4	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=65 V DC,	each	25	

	Output Current=0.5 A, Power=36 W and Suitable for 240 V, 50 Hz, AC, 45 W max rated LED ceiling light of			
	2'*2' size.			
41.5	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=26.4 V DC, Output Current=1.12 A and Suitable for 240 V, 50 Hz, AC, 31 W max rated LED ceiling light of 2'*2' size.	each	20	
41.6	Input Voltage=150-270 V AC, Input Current=0.07 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=40 V DC, Output Current=0.350 A, Power=14 W and Suitable for 240 V, 50 Hz, AC False Ceiling Light.	each	25	
41.7	Input Voltage=240 V AC, Input Current=0.065 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=36 V DC, Output Current=0.33 A and Suitable for 240 V, 50 Hz, AC, 08 W Surface Light.	each	25	
41.8	Input Voltage=120-277 V AC, Input Current=0.35 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=54-107 V DC, Output Current=0.7 A and Suitable for 240 V, 50 Hz, AC Garden Light.	each	25	
41.9	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=19 V DC, Output Current=0.17 A and Suitable for 240 V, 50 Hz, AC, 08 W Surface Light.	each	25	
41.10	Input Voltage=240 V AC, Input Current=0.06 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=10-14 V DC, Output Current=0.7 A, Power=13.5 W and Suitable for 240 V, 50 Hz, AC False Ceiling Light.	each	25	
	Sub Total Amount (in Rs.)			

### SH- II (B): Annual Electrical Works At CURAJ

The bidder has to quote the rates above / below / at par on DSR (E&M) 2022/Chapter-02: MCCB, MCB, DBs. The bidder has to quote the rates above / below / at par on DSR (E&M) 2022/Chapter-02: MCCB, MCB, DBs. The bidder has to quote the rates above / below / at par on DSR (E&M) 2022/Chapter-02: MCCB, at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1  3½ X 25 sq. mm	S.N.	Description of Item	Unit	Qty.	Rate	Amount
at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 5,00,000/-  CPWD DSR (E&M) 2022/Chapter-02: MCCB, MCB, DBs.  The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  S.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm	1	CPWD DSR (E&M) 2022/Chapter-01: Wiring.	L.S.			
considering estimated cost of work Rs. 5,00,000/-  CPWD DSR (E&M) 2022/Chapter-02: MCCB, MCB, DBs.  The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2		•				
CPWD DSR (E&M) 2022/Chapter-02: MCCB, MCB, DBs. The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  S.1 3½ X 25 sq. mm each 2  3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2						
MCB, DBs. The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  L.S.  40  40  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2	_		_ ~			
The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  3	2	*	L.S.			
at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  3						
considering estimated cost of work Rs. 1,00,000/-  CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  S.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2		*				
CPWD DSR (E&M) 2022/Chapter-05: Earthing The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2						
The bidder has to quote the rates above / below / at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  4 Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  5 Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2	3		LS			
at par on DSR (E&M) 2022 rates (including all) considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2		•	<b>L</b> .5.			
considering estimated cost of work Rs. 1,00,000/-  Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2		•				
(LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.  5 Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2						
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machine charges, digging & labour charges etc. complete in all respects as per standard practice.  Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2			ioh	40		
Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2			,00	40		
shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2  5.2 3½ X 35 sq. mm each 2  5.3 3½ X 50 sq. mm each 2  5.4 3½ X 70 sq. mm each 2						
materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.  5.1 3½ X 25 sq. mm each 2 5.2 3½ X 35 sq. mm each 2 5.3 3½ X 50 sq. mm each 2 5.4 3½ X 70 sq. mm each 2	5					
sheathed / XLPE aluminium conductor LT cable of 1.1         KV grade as required.         5.1       3½ X 25 sq. mm       each       2         5.2       3½ X 35 sq. mm       each       2         5.3       3½ X 50 sq. mm       each       2         5.4       3½ X 70 sq. mm       each       2						
5.1       3½ X 25 sq. mm       each       2         5.2       3½ X 35 sq. mm       each       2         5.3       3½ X 50 sq. mm       each       2         5.4       3½ X 70 sq. mm       each       2		_				
5.2       3½ X 35 sq. mm       each       2         5.3       3½ X 50 sq. mm       each       2         5.4       3½ X 70 sq. mm       each       2		KV grade as required.				
5.3 3½ X 50 sq. mm each 2 5.4 3½ X 70 sq. mm each 2	5.1	3½ X 25 sq. mm	each	2		
5.4 3½ X 70 sq. mm each 2		3½ X 35 sq. mm	each	2		
5/2/1/6 Sq. 1		3½ X 50 sq. mm	each	2		
		3½ X 70 sq. mm	each	2		
5757.55 54.7777	5.5	3½ X 95 sq. mm	each	2		
5.6 3½ X 120 sq. mm each 2		3½ X 120 sq. mm	each	2		
5.7 3½ X 150 sq. mm each 2		3½ X 150 sq. mm	each	2		
5.8 3½ X 185 sq. mm each 2		3½ X 185 sq. mm	each	2		
5.9 3½ X 240 sq. mm each 2	5.9	3½ X 240 sq. mm	each	2		
5.10 3½ X 300 sq. mm each 2	5.10	3½ X 300 sq. mm	each	2		
5.11 3½ X 400 sq. mm each 2	5.11	3½ X 400 sq. mm	each	2		
5.12 4 X 16 sq. mm each 20	5.12	4 X 16 sq. mm	each	20		
6 Supplying and making straight through cable jointing	6					
with heat shrinkable jointing kit complete with all		, , ,				
accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor <b>HT cable</b> of		<u> </u>				
11 KV grade as required :						
6.1 70 sq. mm each 1	6.1	·	each	1		
6.2 120 sq. mm each 1	6.2	·	each	1		
6.3 185 sq. mm each 1	6.3	•	each	1		
6.4 240 sq. mm each 1	6.4	·	each	1		
6.5 300 sq. mm each 1	6.5	·	each	1		
6.6 400 sq. mm each 1	6.6	·	each	1		

7	General inspection & patrolling of about 10 km long overhead HT/LT lines/feeder wise for identification of maintenance work to be carried out i/c strengthing of cross arms with clamps including tightening of nut bolts, removal of bird's nest and foreign material from line along with tree/bush trimming under the lines. (to be carried out before starting of summer season and as per requirement).	Job/ year	01	
8	Annual Servicing of Fans (Ceiling/Exhaust/Wall/Pedestal etc.) installed in various buildings of the University i/c checking the unit with accessories for functionality tests, replacement of nut-bolts & locking pins/clips wherever reqd, oiling/greasing, cleaning, pasting of service/repair slips on fan and any other minor repair works required on site i/c labour, tools & takels charges as per standard practice and directions of EIC.  Note: 1) This work also includes replacement of spare parts of fans like condensors, regulators, fan hooks required during servicing and the cost of these spare parts will be reimbursed.  2) This work excludes all major repair works like rewinding, replacement of bush/bearing etc.	Each	5000	
9	Copper rewinding of existing burnt fans ( <i>Ceiling</i> / Exhaust/ <i>Wall/Pedestal Fans</i> ) under buyback of old copper incl. handling charges etc. as per standard practice.	Each	500	
10	Replacement of parts like bush/bearing etc. with new one of same size/rating under buyback of faulty one as per standard practice incl. handling charges.	Each	500	
11	Repairing of rotor/stator/shaft etc. of fans as required as per standard practice incl. handling charges.	Each	200	
	Sub Total Amount (in Rs.)			

# SH-II (C): Comprehensive AMC Work of Online UPS(s) of different ratings installed in various buildings of CURaj

S.NO.	Description of Item	Unit	Qty.	Rate	Amount
1	Comprehensive AMC Work of Online UPS(s) of				
	different ratings installed in various buildings of				
	CURaj, including labour, machinery, spare parts,				
	batteries, consumables, tools & plants etc.				
	complete in all respects.				
	Note: This work includes general R&M on				
	monthly basis, preventive R&M and servicing on				
	quarterly basis and unlimited breakdown calls				
1 1	through qualified & experienced persons.	Toba/	12		
1.1	14 Nos. 1 kVA Online UPS	Jobs/	12		
1.2	08 Nos. 2 kVA to 3 kVA Online UPS	year Jobs/	12		
1.2	00 1 vos. 2 k v / 1 to 3 k v / 1 Online Of 5	year	12		
1.3	08 Nos. 5 kVA to 6 kVA Online UPS	Jobs/	12		
		year			
1.4	02 Nos. 10 kVA Online UPS	Jobs/	12		
		year			
1.5	06 Nos. 15 kVA to 20 kVA Online UPS	Jobs/	12		
1.6	02.17 (0.1714 0.17 1709	year	10		
1.6	02 Nos. 40 kVA Online UPS	Jobs/ year	12		
2	Replacement of following capacity faulty/dead	3 5512			
	SMF rechargeable batteries along with				
	connections, testing and commissioning etc. as				
	required on site as per standard practice, under				
	buyback offer.				
	Make: Exide/Amaron/Luminous/HBL				
	Warranty: minimum 02 years onsite or as per				
	OEM, whichever is higher.				
2.1	18 AH, 12 V	Each	16		
2.2	26/28 AH, 12 V	Each	06		
2.3	42/45 AH, 12 V	Each	50		
2.4	65 AH, 12 V	Each	50		
2.5	75 AH, 12 V	Each	28		
2.6	120 AH, 12 V	Each	20		
2.7	150 AH, 12 V	Each	32		
	Sub Total Amount (in Rs.)				

## SH- II (D): Comprehensive AMC Work of 86 Nos. Water Coolers of 150 LPH capacity each, installed in various buildings of CURaj

S.NO.	Description of Item	Unit	Qty.	Rate	Amount
1	Comprehensive AMC Work of 86 Nos. Water	Jobs/	12		
	Coolers of 150 LPH capacity each, installed in	year			
	various buildings of CURaj, including labour,				
	machinery, spare parts, consumables, tools &				
	plants etc. complete in all respects.				
	Note: This work includes general R&M on				
	monthly basis, preventive R&M on quarterly				
	basis, annual servicing and unlimited				
	breakdown calls through qualified &				
	experienced persons.				
2	Repairing of 50 Nos. faulty Water Coolers of	Job	01		
	150 LPH capacity each, installed in various	(on			
	buildings of CURaj including labour,	L.S.			
	machinery, spare parts, consumables, tools &	basis)			
	plants etc. complete in all respects, as per				
	standard practice before starting the CAMC				
	Work.				
	Sub Total Amount (in Rs.)				

## SH- II (E): Comprehensive AMC Work of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System) installed in various buildings of CURaj

S.NO.	Description of Item	Unit	Qty.	Rate	Amount
1	Comprehensive AMC Work of HVAC System				
	(Ductable / VRV-VRF / Cassate / Split / Tower /				
	Window Type Air Conditioners and ETAC				
	System) installed in various buildings of CURaj,				
	including labour, machinery, spare parts,				
	consumables, tools & plants etc. complete in				
	all respects, as per standard practice and				
	directions of Engineer-in-Charge.				
	Note: This work includes general R&M on				
	monthly basis, preventive R&M and servicing				
	on quarterly basis and unlimited breakdown				
	calls through qualified & experienced				
	persons.				
1.1	100 hp rated inverter technology based VRV/VRF	Jobs/	12		
	type Air Conditioning System installed in CIL	year			
	Building. Make: Hitachi				
1.2	40 hp rated inverter technology based VRV/VRF	Jobs/	12		
	type Air Conditioning System installed in VCS,	year			
1.3	Admin Building. Make: Hitachi	Jobs/	12		
1.3	04 Nos. 11.0 TR capacity Ductable Air	year	14		
	conditioning units with Scroll Compressor with R	year			
	410 A Refrigerant, vibration isolators etc.				
1.4	complete. Make: Hitachi	Talas/	10		
1.4	03 Nos. 5.5 TR capacity Ductable Air	Jobs/	12		
	conditioning units with Scroll Compressor, R 410	year			
	A Refrigerant, vibration isolators etc. complete.				
4.5	Make: Carrier	T 1 /	10		
1.5	03 Nos. Ceiling-mounted 3.0 TR Cassette Air		12		
	Conditioning units complete. Make: Bluestar	year	10		
1.6	400 Nos. Window/Split/Tower type air	Jobs/	12		
1.7	conditioners.  02 Nos. 30000 CFM, Air ducting system (ETAC)	year Jobs/	12		
1.7	02 Nos. 50000 CFM, All ducting system (ETAC)	year	12		
1.8	04 Nos. 28000 CFM, Air ducting system (ETAC)	Jobs/	12		
1.0	0 1 1 100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	year			
1.9	02 Nos. 10000 CFM, Air ducting system (ETAC)	Jobs/	12		
		year			
1.10	02 Nos. 4000 CFM, Air ducting system (ETAC)	Jobs/	12		
_		year	0.1		
2	Repairing of faulty 100 Nos. Split ACs, 10	Job	01		
	Nos. Tower Air-conditioners and 01 No. 5.5 TR	(on L.S.			
	Ductable AC, installed in various buildings of	basis)			
	CURaj including labour, machinery, spare	Dusis)			
	parts, consumables, tools & plants etc.				
	complete in all respects, as per standard				
	practice before starting the CAMC Work.				
	Sub Total Amount (in Rs.)				

#### SH- II (F): Comprehensive Annual Operation, Repair and Maintenance of 04 Nos. 11/0.433 kV electric sub-stations and 05 numbers DG Sets at CURaj

S.NO.	Description of Item	Unit	Qty.	Rate	Amount
1	Comprehensive Annual Operation, Repair and	Jobs/	12		
	Maintenance of 04 Nos. 11/0.433 kV electric sub-	year			
	stations and 05 numbers DG Sets along with				
	associated panels etc. through OEM/Authorized				
	Service Agents of OEM only, including				
	manpower for operational purpose, labour,				
	machinery, spare parts, Control Panel/DG Set				
	Batteries, consumables, tools & plants etc.				
	complete in all respects, as per standard				
	practice and directions of Engineer-in-				
	Charge.				
	Note: 1) This work includes operators in all				
	three shifts on 24*7*365 basis at each ESS.				
	2) This work includes general R&M on				
	monthly basis, preventive R&M on quarterly				
	basis, annual servicing i/c all B/C/D checks				
	and unlimited breakdown calls through				
	qualified & experienced persons, as per OEM				
	guidelines & service manuals.				
				_	

SH- II (G): Comprehensive Annual Operation (in general shift), Repair and Maintenance of 14 nos. Johnson make, machine room less passenger lifts at CURaj

S.NO.	Description of Item	Unit	Qty.	Rate	Amount
1	Comprehensive Annual Operation (in general	Jobs/	12		
	shift), Repair and Maintenance of 14 nos. Johnson	year			
	make, machine room less passenger lifts along				
	with associated panels etc. through				
	OEM/Authorized Service Agents of OEM only,				
	including manpower, labour, machinery,				
	spare parts, consumables, tools & plants etc.				
	complete in all respects, as per standard				
	practice.				
	Note: 1) This work includes one lift operator				
	in general shift on 24*7*365 basis in Admin				
	Building.				
	2) This work includes general R&M on				
	monthly basis, preventive R&M on quarterly				
	basis, annual servicing and unlimited				
	breakdown calls through qualified &				
	experienced persons, as per OEM guidelines				
	& service manuals.				
	Sub Total Amount (in Rs.)				

### SCHEDULE OF QUANTITIES – III

#### Comprehensive Annual Repair & Maintenance Work of all Fire Hydrant System and Fire Alarm System at CURaj

S.NO.	Description of Item	Unit	Qty.	Rate	Amount
1	Comprehensive Annual Repair & Maintenance	Jobs/	12		
	Work of all Fire Hydrant System installed in	year			
	various building of the University as specified in				
	Schedule of Work, including manpower,				
	labour, machinery, spare parts, consumables,				
	tools & plants etc. complete in all respects, as				
	per standard practice.				
	Note: This work includes general R&M on				
	monthly basis, preventive R&M and servicing				
	on quarterly basis and unlimited breakdown				
	calls through qualified & experienced				
	persons.				
2	Comprehensive Annual Repair & Maintenance	Jobs/	12		
	Work of all Fire Alarm System and associated	year			
	equipment installed in various building of the				
	University as specified in Schedule of Work,				
	including manpower, labour, machinery,				
	spare parts, consumables, tools & plants etc.				
	complete in all respects, as per standard				
	practice.				
	Note: This work includes general R&M on				
	monthly basis, preventive R&M and servicing				
	on quarterly basis and unlimited breakdown				
	calls through qualified & experienced				
	persons.				
3	Repairing of existing non-functional Fire	Job	01		
	Alarm System including associated equipment,	(on L.S.			
	installed in various buildings of CURaj including	basis)			
	labour, machinery, spare parts, consumables,	, outility			
	tools & plants etc. complete in all respects, as				
	per standard practice before starting the				
	CAMC Work.				
	Sub Total Amount (in Rs.)				

### SCHEDULE OF QUANTITIES – IV

### **Comprehensive Annual Maintenance Contract for RO Plants/Purifiers.**

S.N.	Description of Item	Unit	Qty.	Rate	Amount
Sub Hea	d - (IV)				
1	The scope of work includes comprehensive	Job per	12		
	annual maintenance and servicing of RO	month			
	Plants/Purifiers and submitting a report				
	after every visit. The scope of work				
	includes checkup of each Unit/system and				
	general cleaning, chemical cleaning of				
	cartridge, if required, replacement of all				
	type of membrane, all type of filters, all				
	pipes, S.V., TDS Controller, all type of				
	sensors, pump etc. as per requirements of				
	the University during the CAMC Period.				
2	Supply and Installation (under buy back) of	Each	10		
	Reverse Osmosis Plant of 50 LPH Capacity				
	Make Eureka Forbes				
	Note: Old Reverse Osmosis Plant of 50				
	LPH Capacity - Make Eureka Forbes will				
	be the property of the Contractor. Hence				
	contractor may be advised to quote their				
	rates accordingly.				
	Sub Total Amount (in Rs.)				

### $\underline{\textbf{SCHEDULE OF QUANTITIES}} - \underline{\textbf{V}}$

### **Comprehensive Operation and Maintenance of IT Works**

S.N.	Description of Item	Unit	Qty.	Rate	Amount
Sub I	lead - V				
A	Comprehensive Operation and Maintenance of installations IT Works (Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and Wi-Fi systems				
	like Switches, Active & Passive network				
	components, Smart class rooms Equipments including PA systems, Hardware and software				
	maintenance of Computers, Laptops, Printers,				
	Projectors, Servers), CCTV Systems. as per the				
	details given below:				
	Hardware Items				
1	Laptops: 159 Nos.				
2	Desktop System: 840 Nos.				
3	Server: 11Nos.				
4	Printers:182 Nos.				
5	LCD Projector: 66 Nos.				
	CCTV System				
1	IP Camera 140	Nos.	140		
2	DVR Camera	Nos.	26		
3	Switch (24 port)	Nos.	3		
4	Switch (8 port)	Nos.	24		
5	Switch (4 port)	Nos.	1		
6	42" Screen	Nos.	2		
7	32 Channel NVR	Nos.	8		
8	8 Channel NVR	Nos.	4		
9	4 Channel NVR	Nos.	1		
10	Surveillance Hard Disk 10 TB	Nos.	15		
11 12	Surveillance Hard Disk 4 TB Surveillance Hard Disk 2 TB	Nos.	3 2		
12	Biometric Access Control Systems	NOS.			
1	Face Biometric Machine	Nos.	59		
1	Voice System	1105.			
1	IP-PBX Machine	Nos.	02		
2	IP Phone	Nos.	152		
3	IP Phone DSS KEY	Nos.	05		
	Data Networking System				
	Switch	Nos.	14		
1	(48 Port)				
2	Switch (24 Port)	Nos.	101		
3	Core Switch	Nos.	2006		
4	LAN points	Nos.	3096		
	Audio Video Conferencing System Group Video Conferencing device including	Nos.	02		
1	camera, speakerphone with USB plug-and-play	1108.	02		
<u> </u>	tumera, speakerphone with Cob plug and play	l	1	L	<u> </u>

	connectivity			
2	PTZ Video Conferencing Camera	Nos.	02	
	Smart Classrooms System including PA			
	System			
1	Smart Classroom equipped with, interactive screen 75/86 inch, audio systems, digital podium with mini PC, PTZ cameras and other related items	Nos	12	
В	Deployment of Manpower – the tenderer shall depute the IT Engineer, CCTV Engineer and Network Engineer as per scope of work.			
	Sub Total Amount (in Rs.)			

### SCHEDULE OF QUANTITIES – VI

## Comprehensive Maintenance of Horticulture and operation & maintenance of Drip Irrigation System.

S.N.	Description of Item	Unit	Qty.	Rate	Amount
Sub H	lead VI				
2	<ul> <li>Horticulture Manpower in General Shift in all days except Sundays and holidays (Unskilled). All tools tackles shall be arranged by contractor within its quoted rates.</li> <li>Complete maintenance of Trees, Plants and peripherals, shrubs, hedge, lawns, (Including cricket ground, hockey ground and football ground etc.) cemented potted plants, flower beds, creepers etc. within the campus of the Central University of Rajasthan.</li> <li>Maintenance includes weeding, pruning, gap filling, watering, mowing of lawn, hoeing, hedge-clipping, application of insecticide &amp; pesticide, top dressing of lawn with good earth and manure including other maintenance work as directed by the University from time to time.</li> <li>Fertilizers, Manures, plant protection materials etc. will be provided by the contractor nothing extra shall be paid in this regard.</li> <li>Maintenance of Drip Irrigation System, (water sprinkler system installed at cricket, football and hockey grounds and another places of the University etc.) periodical checking of the system cleaning, oiling, greasing, routine maintenance, realignment, necessary safety arrangements &amp; repair/ replacement of consumables such as Super flow screen filters, Gravel filters, Pressure relief valve, Non return valve, stainless steel pressure gauges, by pass valve PP, PVC control/ball valves, sub main flush valve, Reinforced nylon air release valve CPVC gate valves, super flow disc clean filters, PVC pipes and fittings etc. as per direction of Engineer-in-charge. This shall include all cost involved in maintenance except for electricity for operation, which shall be provided by the University free of cost.</li> </ul>	Job per month	12		
	Sub Total Amount (in Rs.)			_	

## <u>SCHEDULE OF QUANTITIES – VII</u> (SH: VII – A&B) Maintenance of Mechanized Housekeeping and Garbage Collection and Disposal Services, Pest Control Services

S.N.	Description of Item	Unit	Qty.	Rate	Amount
Sub E	Iead VII-A and VII-B				
1	Providing Mechanized House Keeping Service	Job	12		
	include machine enabled cleaning, sweeping,	per			
	wiping, dusting, moping, freshening, garbage	month			
	collection, segregation & disposal, vacuum cleaning,				
	scrubbing and any other similar tasks as assigned by CURAJ authorities from time to time.				
2	Consumable, like duster, Soap, chemicals,				
	wipers, Phenyl and other cleaning materials for				
	toilets and floor required as indicated in list				
	under the scope of work etc.				
	All façade glass should be cleaned once in a				
	month including glass doors and windows.				
3	Providing pest Control Services, Rodent				
	Control Services, Fogging & Fumigation				
	against mosquito & larva, Fly management				
	services, termite treatment etc. as per tender				
	terms and conditions and directions of the				
	University.				
4	Termite Treatment: Termite treatment in the	Sqft	10000		
	University based on IS:6313(Part-3)-1981				
	specification which consists of creating				
	uninterrupted chemical barriers inside and all				
	around the building. The treatment should be drill				
	holes of 6mm as close as possible to the plinth,				
	walls, junctions of the walls at an interval of 6				
	inches enough to reach the soil below 6 inches deep.				
	Then chemical emulsion should be injected into				
	these holes, which should be subsequently sealed				
	using white cement match with floor colour all				
	complete, The wall should be spray the chemical				
	emulsion up to roof height wherever required				
	complete.				
	Sub Total Amount (in Rs.)				

### SCHEDULE OF QUANTITIES – VIII

#### 24x7 security services

S.N.	Description of Item	Unit	Qty.	Rate	Amount
Sub B	Sub Bead-VIII				
	Round the clock surveillance, watch and ward	Job per			
	at Central University of Rajasthan of common	month			
	areas and properties including providing				
	security equipment's on 24 x 7 hour basis				
	including Saturday, Sundays and holidays as				
	per specifications and scope of work described				
	in the tender documents.				
	Note: The University will require Security				
	services at 23 numbers of posts tentatively.				
	Sub Total Amount (in Rs.)				

# <u>SCHEDULE OF QUANTITIES – IX</u> <u>Hiring Manpower with fixed remuneration through outsourced agency</u>

Sl. No.	Item Description	(In Rs.)
1	Service charges per month per person	
	(To be quoted for deciding the lowest responsive bid to award the work)	
	Sub Total Amount (in Rs.)	
	Grand Total All Sub Heads (in Rs.)	