

Date: 13.08.2026

CORRIGENDUM - 1

Ref. **HCSL/PANDU/TEN/2026/175 dtd. 29.07.2026**

Sub: Corrigendum for Amendment of Tender Clause.

Tender for Plumbing Execution Works for Ship Repairing Facility Work at Pandu, Guwahati.

1. The Amendments are given below:

Sl. No.	FOR	READ
1.	NIT -Sl. No. 10, Last date and time for submission of Tender Document on 19.08.2026 upto 3:30PM	NIT -Sl. No. 10, Last date and time for submission of Tender Document on 19.08.2026 at 3:00PM
2.	Tender Notice & Invitation to Tender - Clause No. 10.1(a), Page No. 6 Tender Notice no. HCSL/ DO NOT OPEN BEFORE at 15:30 Hrs.	Tender Notice & Invitation to Tender -Clause No. 10.1(a), Page No. 6 Tender Notice no. HCSL/PANDU/TEN/2026/175 dtd. 29.07.2026, DO NOT OPEN BEFORE on 19.08.2026 at 3:30 PM.
3.	Tender Notice & Invitation to Tender - Annexure-5, clause no. 3, Page no. 20, This guarantee will remain in force upto and including the date _____, which is 135 days, being the sum of 90 (ninety) days of Tender Validity after the deadline date for tender submission and 45 (forty-five) days thereafter,	Tender Notice & Invitation to Tender -Annexure-5, clause no. 3, Page no. 20, From of Tender Security (Bank Gurantee) This guarantee will remain in force upto and including the date _____, which is 145 days, being the sum of 120 days of Tender Validity after the deadline date for tender submission and 25 days thereafter,
4.	Tender Notice & Invitation to Tender - Annexure-11, Page no. 31, COMPLIANCE STATEMENT- List of Deviations - Tender Name: Supply and Commissioning of Marine Main Engines with accessories for 02 no. of 80 Pax River Cruise Vessel at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah. TENDER NO: HCSL/PUR/TEN/2025/074 Dated: 16.08.2025	Tender Notice & Invitation to Tender -Annexure-11, Page no. 31, COMPLIANCE STATEMENT- List of Deviations - Tender Name: Plumbing Execution Works for SRF Pandu, Guwahati TENDER NO: HCSL/PANDU/TEN/2026/175 Dtd: 29.07.2025
5.	Tender Notice & Invitation to Tender - Annexure-15, Page no. 35, SITE VISIT SLIP -ELECTRIFICATION WORKS FOR SHIP REPAIRING FACILITY AT PANDU, GUWAHATI.	Tender Notice & Invitation to Tender -Annexure-15, Page no. 35, SITE VISIT SLIP – PLUMBING WORKS FOR SHIP REPAIRING FACILITY AT PANDU, GUWAHATI.

Sl. No.	FOR	READ
6.	Special Conditions of Contract – Clause No. 21.3, Page no. 7, legislations covered under contract labour (regulations and abolition) Act 1979	Special Conditions of Contract – Clause No. 21.3, Page no. 7, legislations covered under contract labour (regulations and abolition) Act 1970.
7.	Preamble to Bill of Quantities - Clause no. 8(a), Page no. 3, Transport of Electrification materials, personnel etc.	Preamble to Bill of Quantities - Clause no. 8(a), Page no. 3, Transport of Plumbing materials, personnel etc.
8.	As per Tender BOQ Quantities.	Revised BOQ Quantities & Approved Make list (Enclosed herewith)

All other terms & conditions shall remain unaltered.

Note: Bidders are requested to sign and stamp Corrigendum-1 (This Document) along with tender documents at the time of submission of Bid.

For Hooghly Cochin Shipyard Limited



SHIP REPAIRING FACTORY (SRF) AT PANDU, GUWAHATI

PHE STANDARD APPROVED MAKE LIST

Sl.No	Items	Approved makes
I	Sanitarywares	Parryware
II	CP Fittings	Parryware
1	Pump	Kirloskar / CRI
2	Check Valve (non return valve)	Zoloto / Advance
3	Ball Valve	Zoloto / Advance
4	Butterfly Valve	Zoloto / Advance
5	Strainer	Zoloto / Advance
6	Pressure Reducing Valve	Zoloto / Advance
7	Float Valve	Zoloto / Leader
8	Flexible Connection	Metaflex,
9	Foot Valve	Zoloto / Leader
10	Electromagnetic flow meter	Kent,Vsan and Local Manufacturer or approved equivalent
11	Floor drain, Roof drain, Floor Cleanout,	Chilly or Local make as per ISI & as approved
12	Automatic Air Vent	Zoloto, Advance
13	Starter	Siemens, ABB
14	Cable	Polycab, Havells
15	cPVC Pipes & fittings	Astral / Ashirvad /Prince / Supreme
16	PVC/uPVC pipes & fittings	Astral / Ashirvad /Prince / Supreme
17	G.I. PIPES	TATA /JINDAL
18	R.C.C. HUME PIPES	Indian Hume pipe or Local make as per ISI & as approved
19	Vendors for Water treatment plant (WTP)	Green Earth, 3M
20	Water Meter	Dasmesh, Sant
21	Fire Sealant Material	3M, GE, KBS

SHIP REPAIRING FACTORY (SRF) AT PANDU, GUWAHATI			
SL.NO	PARTICULARS	AMOUNT (INR)	
		SUPPLY	ERECTION
A	SANITARY FIXTURES AND FITTINGS INSTALLATION WORKS		
B	INTERNAL DRAINAGE PIPING WORKS		
C	EXTERNAL DRAINAGE PIPING WORKS		
D	INTERNAL WATER SUPPLY PIPING WORKS		
E	EXTERNAL WATER SUPPLY PIPING WORKS		
F	RAIN WATER DISPOSAL PIPING WORKS		
G	PUMPS INSTALLATION WORKS		
H	REVERSE OSMOSIS (RO) - 500LPH		
I	MISCELLANEOUS		
	TOTAL		
	18 % GST		
	GRAND TOTAL		

Note:

L1 will be arrived based on the total amount quoted for works excluding GST.

Un-Price bid: Price bid without price & with percentage of taxes & duties and details like quoted/Nil/Included, shall be submitted along with the technical bid.

BILL OF QUANTITIES OF PLUMBING SYSTEM FOR							
SHIP REPAIRING FACTORY (SRF) AT PANDU, GUWAHATI							
S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
A	SANITARY FIXTURES AND CP FITTINGS INSTALLATION WORKS:						
	Admn. Block - Sanitary and CP fittings supply by client scope						
1.0	Supply, fixing, testing and commissioning of white colour vitreous European Water Closet - Floor mounted type with extended 'S' trap, with exposed coupled slimline PVC flush tank with matching colour solid plastic seat cover and lid with C P hinges, rubber buffers, C.I / M.S Brackets , 40 mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 15mm dia C.P angle stop cock with wall flange, 15mm dia cold water connection pipe etc. The cost shall include extension piece, sealant, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour including lead and lift charges, all complete as per specifications. (Make: Parryware, Model: C0278, E8377 ,E8388, T9828A1 & E8334)	Nos.	7				
2.0	Supply and fixing of health faucet with regulator of approved quality with flexible pipe 1.5 m long, wall hook complete as required. (Make: Parryware, Model: T9805A1)	Nos.	7				
3.0	Supply and fixing of 15 mm CP 2way bib cock with necessary CP flexible , CP wall flange etc., (Make: Parryware, Model: T2334A1)	Nos.	7				
4.0	Supply, fixing, testing and commissioning of white colour Vitreous China below counter wash Basin , installed with specially fabricated MS brackets (2 coats of primer and paints) with adjustable SS screws and nuts to suit the wash basin, 15mm dia pillar cock provision, 32mm dia CP waste coupling, 32mm dia CP brass bottle trap, 15mm dia CP angle stop cock for cold & hot water supply lines with wall flanges etc.. The work shall include cutting and making good the wall and floor wherever required, necessary extension piece, sealant, including cost of labour including lead and lift charges, all complete as per specifications. (Make: Parryware, Model: Cascade NXT, T320A1, T9828A1 & T9899A1)	Nos.	7				
5.0	Supply and fixing of 15mm dia CP pillar cock for wash basins with pipe nipples, teflon tape, all accessories required etc. The cost shall include cutting and making good the wall wherever required, including cost of materials, labour, all complete as per specifications (Make: Parryware, Model: T2303A1)	Nos.	7				
6.0	Supply and fixing of CP twin robe coat hook with flanges, countersunk SS screws etc. The cost shall include cutting and making good the wall wherever required, including cost of labour, all complete as per specifications. (Make: Parryware, Model: T6007A1)	Nos.	7				
7.0	Supply, fixing and commissioning of white vitreous china urinal of model and make as specified in list of makes with CP spreader, C.P. wastecoupling, C.P.brass bottle trap, operated by manual push cock. Includes suitable brackets & rag bolts etc. all complete as per specifications (Make: Parryware, Model: C0583, C0571, T3202A1, T9954A1 & G2007A1)	Nos.	4				
8.0	Supply and fixing of SS-304 grade floor trap cover (Make: NEER / RUHE)	Nos.	11				
9.0	Supply and Fixing of paper holder , The cost shall include cutting and making good the wall wherever required, including cost of labour, all complete as per specifications. (Make: Parryware, Model: T6005A1)	Nos.	7				
10.0	Supply and fixing of liquid soap dispenser , The cost shall include cutting and making good the wall wherever required, including cost of labour, all complete as per specifications. (Make: Parryware, Model: T518199)	Nos.	7				

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
11.0	Supply and Fixing of towel ring , The cost shall include cutting and making good the wall wherever required, including cost of labour, all complete as per specifications. (Make: Parryware, Model: T6002A1)	Nos.	7				
12.0	Supply and Fixing of towel rod 600mm long , The cost shall include cutting and making good the wall wherever required, including cost of labour, all complete as per specifications. (Make: Parryware, Make: T6001A1)	Nos.	7				
13.0	Supply and fixing of long body bibcock (Make: Parryware, Model: T2306A1)	Nos.	10				
	SUB - TOTAL (A)						
B	INTERNAL DRAINAGE WORKS:						
	Admn. Block- internal drainage works:						
1.0	Supply, fixing, testing and commssioning uPVC Pressure pipe (Ring-fit) soil waste vent pipe of Class 3 (6 Kg/cm2) conforming to IS 4985-2000 including all fittings (IS 7834 for moulded fittings and IS 10124 for fabricated fittings), Eg: Bends, tees, elbows collars, junction, inspection doors, cowls, offset access pipes, jointing with PVC solvent, running of pipes suspended from the ceiling with FRP brackets and SS fasteners, chasing / chipping walls using groove cutting machine, making bores / core cutting in slab / beam / wall and making good of the same, cost shall include providing steel brackets, FRP supports, Pipe supports and fasteners. The cost shall include transportation, lead and lift all complete as required						
1.1	50 mm dia	Rmt	QRO				
1.2	40 mm dia	Rmt	25				
2.0	Supply, fixing, testing and commssioning of uPVC SWR (Type B, Ring fit) soil waste vent pipe conforming to IS 13592-1992 including all fittings (IS 14735-1999), Eg: Bends, tees, elbows collars, junction, inspection doors, cowls, offset access pipes, jointing with PVC solvent, running of pipes suspended from the ceiling with FRP brackets and SS fasteners, chasing / chipping walls using groove cutting machine, making bores / core cutting in slab / beam / wall and making good of the same, cost shall include providing steel brackets, FRP supports, Pipe supports and SS fasteners. The cost shall include transportation, lead and lift all complete as required						
2.1	110mm dia	Rmt	QRO				
2.2	75mm dia	Rmt	60				
	SUB - TOTAL (B)						
C	EXTERNAL DRAINAGE WORKS:						
	From workshop area to ETP & From Admn. Block to STP						
	(TEMPORARILY CONNECTED TO SEPTIC TANK)						
2.0	Supply, fixing, testing and commssioning of uPVC SWR (Type B, Ring fit) soil waste vent pipe conforming to IS 13592-1992 including all fittings (IS 14735-1999), Eg: Bends, tees, elbows collars, junction, inspection doors, cowls, offset access pipes, jointing with PVC solvent, running of pipes suspended from the ceiling with FRP brackets and SS fasteners, chasing / chipping walls using groove cutting machine, making bores / core cutting in slab / beam / wall and making good of the same, cost shall include providing steel brackets, FRP supports, Pipe supports and SS fasteners. The cost shall include transportation, lead and lift all complete as required						
2.1	110mm dia	Rmt	QRO				
2.2	75mm dia	Rmt	40				
3.0	Supply, fixing, testing and commssioning of uPVC Pressure pipe (Ring-fit) soil waste vent pipe of Class 5 (10 Kg/cm2) conforming to IS 4985-2000 including all fittings (IS 7834 for moulded fittings and IS 10124 for fabricated fittings), for pipes buried below ground, jointing with PVC solvent, encasing the pipe with 150mm thick 1 : 4 : 8 PCC. Pipe shall be layed on consolidated surface with pre determined slope. The cost shall include transportation, lead and lift all complete as required. Cost for excavation, back filling the earth and consolidating the same will be measured and paid separately.						
a	160 mm dia	Rmt	120				

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
b	110 mm dia	Rmt	QRO				
c	75 mm dia	Rmt	30				
4.0	Supply and fixing PVC ' P ' or ' S ' of multi port, deep seal floor trap with self cleansing design.The cost shall include cutting and making good the floor wherever required, including cost of materials, labour including lead and lift, all complete as per specifications. (100mm dia inlet and 50 mm / 75mm outlet)	Nos.	6				
6.0	Providing and fixing of square mouth SW gully trap 100mm dia grade ' A ' complete with C.I grating burnt brick masonry with CM (1:4) and plastering with water tight heavy duty double seal C.I cover, frame of 45x45 cm size The weight of the cover to be not less than 4.52 kg of frame to be not less than 2.75 Kg.						
a	450 X 450mm size ' P ' trap	Nos	4				
7.0	Constructing brick masonry for manholes/ inspection chambers with burnt bricks & cement mortar 1 : 5. Foundation concrete 1: 4: 8, inside plastering 15mm thick with C.M 1:2 finished smooth with floating coat of cement neatly finished with water proofing to required grade and making channel in cement concrete 1:3:4 neatly finished complete as per standard design and as per the drawing. Each manhole should be provided with CI rungs placed appropriately conforming to IS standards. Note: 1. All manholes to be constructed as per IS 4111 (Part1) specification 2. Manhole covers are separately listed below						
a	Inside size of 450mm x 450mm and depth not exceeding 500mm	Nos	QRO				
b	Inside size of 600mm x 600mm and depth not exceeding 800mm	Nos	2				
c	Inside size of 900mm x 900mm and depth not exceeding 1000mm	Nos	2				
d	Inside size of 1200mm x 1200mm and depth not exceeding 2200mm	Nos	8				
8.0	Supply and fixing of double seal, pre-cast RCC, heavy duty inspection chamber cover with frames of the following sizes. Construction of pre-cast RCC cover to be made to withstand atleast 25 metric tonnes of loading of following size						
a	600mm x 600mm	Nos	12				
	SUB - TOTAL (C)						
D	INTERNAL WATER SUPPLY PIPING WORKS						
	Admn. Block- internal water supply works:						
1.0	Supply, fixing, testing and commsisioning of CPVC pipes (SDR 11) conforming to ASTM D-2846 standard including all CPVC fittings like tees, elbows, bends, unions, coupling, reducer tees, collars etc. The work shall include cutting jointing with solvent cement, pressure testing the joints / pipeline for 10 kg/sq.cm hydraulic pressure, for 2 hours etc. making holes, including chasing in solid block masonry walls with groove cutting machine to required width and depth, making bores / core cutting in walls / beams / foundations and RCC slabs, making good the walls and bores in CC or CM 1:3 as applicable clearing the debris, wrapping of concealed pipes with chicken wire mesh, SS hooks / FRP angle supports for fixing pipes and making good the walls and floors.						
	NOTE: (1) Strictly use SDR-11 grade CPVC pipe and fittings for internal domestic cold water supply up to 54 mm dia. (2) Rate Quoted shall be inclusive of cost of other consumables like hacksaw blade, solvent for CPVC pipe up to 54 mm dia etc.						
a	20 mm dia	Rmt	20				
b	25 mm dia	Rmt	35				
c	32 mm dia	Rmt	10				
d	40 mm dia	Rmt	30				
e	50 mm dia	Rmt	15				
4.0	Supplying, fixing and testing of lever operated Ball valves with fittings of screwed end type. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
a	50 mm dia	Nos.	QRO				
a	40 mm dia	Nos.	4				

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
b	32 mm dia	Nos.	2				
c	25 mm dia	Nos.	2				
d	20 mm dia	Nos.	2				
5.0	Supplying, fixing, testing and commissioning of Slim seal standard lever operated type Butterfly valve PN 1.6 with Bronze / Gunmetal seat duly ISI marked complete with SS nuts, SS bolts, SS washers, gaskets and flanges conforming to IS 13095, of following sizes all complete as required. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications.						
a	65 mm dia	Nos	QRO				
6.0	Supplying, fixing, testing and commissioning of Wafer type C.I. Dual plate Check valve (Non-return) as per IS:5312 with required flanges, SS nuts, SS bolts and gaskets etc. all complete as required of the following sizes. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
a	50 mm dia	Nos	1				
b	40 mm dia	Nos	QRO				
c	32 mm dia	Nos	QRO				
d	25 mm dia	Nos	QRO				
7.0	Supplying, fixing and commissioning Brass body "Y" type Strainer with SS mesh , suitable flanges, SS nuts, SS bolts, gaskets etc. all complete as required. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
a	50 mm dia	Nos	1				
8.0	Supplying & fixing of brass Auto Air vent with isolation valve for cold water supply risers, suitable for working pressure not less than 10 Kg/Sq.cm.						
a	32 mm dia	Nos	QRO				
b	25 mm dia	Nos	QRO				
c	20 mm dia	Nos	1				
9.0	Supplying and fixing high pressure type gunmetal ball float valve of approved quality.						
a	32 mm dia	Nos	2				
10.0	Construction of valve chambers with burnt bricks in CM (1:4) and plastering including excavation and providing heavy duty C.I cover with frame as required.						
a	600 X 600 X 750mm deep for supply	Nos	2				
	SUB - TOTAL (D)						
E	EXTERNAL WATER SUPPLY PIPING WORKS:						
1.0	From RO potable water to match line / river side						
	NOTE: (1) CPVC pressure pipes and fittings - SDR 11 & Schedule 80 PRO (2) Rate Quoted shall be inclusive of cost of other consumables like hacksaw blade, bevel edge cleaning remover, rough emery sheet, pipe cleaner and solvent cement etc.						
a	65 mm dia. (SCH 80) CPVC piping works	Rmt	66				
b	25mm dia. CPVC piping works	Rmt	18.75				
c	20mm dia. CPVC piping works	Rmt	56.25				
1.1	Supplying, fixing and testing of lever operated Ball valves with fittings of screwed end type. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
a	25 mm dia	Nos.	2				
b	20 mm dia	Nos.	2				
1.2	Supplying, fixing, testing and commissioning of Slim seal standard lever operated type Butterfly valve PN 1.6 with Bronze / Gunmetal seat duly ISI marked complete with SS nuts, SS bolts, SS washers, gaskets and flanges conforming to IS 13095, of following sizes all complete as required. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications.						
a	65 mm dia	Nos	1				

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
2.0	From Raw water to water softner treatment plant						
a	80mm dia. CPVC piping works	Rmt	25				
b	65mm dia. CPVC piping works	Rmt	18.75				
c	50mm dia. CPVC piping works	Rmt	12.5				
2.1	Supplying, fixing and testing of lever operated Ball valves with fittings of screwed end type. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
a	50 mm dia	Nos.	1				
2.2	Supplying, fixing, testing and commissioning of Slim seal standard lever operated type Butterfly valve PN 1.6 with Bronze / Gunmetal seat duly ISI marked complete with SS nuts, SS bolts, SS washers, gaskets and flanges conforming to IS 13095, of following sizes all complete as required. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications.						
a	80 mm dia	Nos	1				
b	65 mm dia	Nos	1				
3.0	From treated domestic water to match line / river side						
a	80mm dia. CPVC piping works (SCH-80)	Rmt	QRO				
b	65mm dia. CPVC piping works (SCH-80)	Rmt	12.5				
c	50mm dia. CPVC piping works.	Rmt	12.5				
c	25mm dia. CPVC piping works.	Rmt	37.5				
3.1	Supplying, fixing and testing of lever operated Ball valves with fittings of screwed end type. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
a	50 mm dia	Nos.	1				
c	25 mm dia	Nos.	1				
3.2	Supplying, fixing, testing and commissioning of Slim seal standard lever operated type Butterfly valve PN 1.6 with Bronze / Gunmetal seat duly ISI marked complete with SS nuts, SS bolts, SS washers, gaskets and flanges conforming to IS 13095, of following sizes all complete as required. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications.						
a	80 mm dia	Nos	1				
a	65 mm dia	Nos	1				
4.0	From treated domestic water to match line / river side						
a	80mm dia. CPVC piping works (SCH-80)	Rmt	82				
c	20mm dia. CPVC piping works.	Rmt	70				
4.1	Supplying, fixing and testing of lever operated Ball valves with fittings of screwed end type. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications						
d	20 mm dia	Nos.	1				
4.2	Supplying, fixing, testing and commissioning of Slim seal standard lever operated type Butterfly valve PN 1.6 with Bronze / Gunmetal seat duly ISI marked complete with SS nuts, SS bolts, SS washers, gaskets and flanges conforming to IS 13095, of following sizes all complete as required. The cost shall include cost of materials, labour including lead and lift charges, all complete as per specifications.						
a	80 mm dia	Nos	1				
	SUB - TOTAL (E)						
F	RAIN WATER DISPOSAL PIPING WORKS:						
	Admn. Block & Work shop areas - Rain water piping works:						
1.0	Supply, fixing, testing and commssioning of uPVC Pressure pipe (Ring-fit) soil, waste vent pipe of Class 3 (6 Kg/cm2) conforming to IS 4985-2000 including all fittings (IS 7834 for moulded fittings and IS 10124 for fabricated fittings), Eg: Bends, tees, elbows collars, juction, inspection doors, cowl, offset acess pipes, jointing with PVC solvent, running of pipes in the shafts / ceiling with FRP brackets and SS fasteners, chasing / chipping walls using groove cutting machine, making bores / core cutting in slab / beam / wall and making good of the same, cost shall include providing steel brackets, FRP supports, Pipe supports and SS fasteners. The cost shall include transportation, lead and lift all complete as required						

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
a	110 mm dia	Rmt	145				
b	75 mm dia	Rmt	QRO				
2.0	Supply, fixing, testing and commssioning of uPVC Pressure pipe (Ring-fit) soil waste vent pipe of Class 5 (10 Kg/cm2) conforming to IS 4985-2000 including all fittings (IS 7834 for moulded fittings and IS 10124 for fabricated fittings), for pipes buried below ground, jointing with PVC solvent, encasing the pipe with 150mm thick 1 : 4 : 8 PCC. Pipe shall be layed on consolidated surface with pre determined slope. The cost shall include transportation, lead and lift all complete as required. Cost for excavation, back filling the earth and consolidating the same will be measured and paid separately						
a	160 mm dia	Rmt	150				
b	110 mm dia	Rmt	QRO				
3.0	Making rain water Spouts/ grating with PVC bends, elbows, tees etc., 150 X 150mm C.I grating.	Nos	4				
4.0	Providing, fixing, testing and commissioning of PVC fabricated rain water head / khurras dome type grating with puddle flange to fix head in RCC slab specially fabricated from minimum 4mm thick PVC sheet, including removable heavy duty PVC grating of 50 x 3 mm thick PVC flats (Round or Square) as per approved design The quoted rate shall include for necessary grouting the khurras base with approved sealant complete all as shown in the drawing and as specified.	Nos.	4				
	SUB - TOTAL (F)						
G	PUMPS INSTALLATION WORKS:						
1.0	Supply, installation, testing and commissioning of centrifugal mono bloc for domestic transfer pump of following duty condition. Cost to include necessary fittings, starters, panel and accessories all complete as required <i>Duty Condition:</i> 2.8 LPS at 30 m head Note: One set consists of 1 working and 1 standby pump	Nos.	2				
	SUB - TOTAL (G)						
H	REVERSE OSMOSIS(RO) - 500LPH						
	Supply, installation, testing and commissioning of 500LPH RO plant considering pumps, interconnecting pipe, rejection water drain pipe, control panel and electrical control cables etc., including all necessary accessories as required. The work shall be executed as per the industrial practice subject to meeting the relevant provisions as per IS 16240.						
01	RO FEED PUMP						
	Supplying, installing, testing and commissioning of Monobloc type Filter Feed Pump having a liquid discharge rate of minimum 1.2 m3/hrs at a head of 35 meters suitable for operation on 3 phase 415Volt AC supply etc as required.						
	The pump shall be suitable for the following requirements:						
	Qty : 2 Nos (1W + 1S)						
	Type : Horizontal/Vertical Monobloc Pump						
	MOC : CI						
	Flow rate - 1.2 m3/hr @ 35m Head						
	Power Rating : Sutiable Rating						
	Make :	Set	1				
02	PRESSURE SAND FILTER						
	Supplying, installing, testing and commissioning of Pressure Sand filter of FRP, necessary equipment complete with Multiport valve, suitable supports for mounting, pressure gauge etc., complete as per the detailed specification for the efficient working of system.The maximum working Pressure shall be 3.5 Kg/Sqcm.						
	Flow : 1.2 m3/hr						
	Duty : To remove suspended solids						
	MOC : FRP						
	Size : 1354						
	Valve : 1" Multiport Valve						
	Media : Graded Pebbles, Quartz sand	Lot	01				
03	ACTIVATED CARBON FILTER						

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	Supplying, installing, testing and commissioning of Activated Carbon filter o FRP, necessary equipment complete with Multiport valve suitable supports for mounting, pressure gauge etc., complete as per the detailed specification for the efficient working of system. The maximum working Pressure shall be 3.5 Kg/Sqcm.						
	Flow : 1.2 m3/hr						
	Duty : To remove suspended solids						
	MOC : FRP						
	Size : 1354						
	Valve : 1" Multiport Valve						
	Media : Graded Pebbles, Quartz sand & Activated Carbon with IV 900	Lot	01				
04	ANTISCALENT DOSING PUMP						
	Supply, installation, testing and commissioning of 1 No single phase Electronic metering type dosing pump set having flow rates 0-6 LPH and PE dosing tank 50 liters for storage of Antiscalent dosing solution as required						
	The pump shall be suitable for the following requirements:						
	Quantity : 1 No						
	Capacity : 0 – 6 liters / hr						
	Max. rated backpressure : 3.5 Kg/cm2						
	Type : Electronic metering pump						
	Dosing Tank capacity : 50 Liters						
	MOC : PE						
	Make : E-dose/Equivalent	Nos	1				
05	MICRON FILTER						
	Supply, installation, testing and commissioning of Micron filter						
	Micron filter with cartridge - PP						
	Size of Filter : 5 Micron X 20" Long Cartridge Filter						
	Type : Wounded	Nos	1				
06	RO HIGH PRESSURE PUMP						
	Supplying, installing, testing and commissioning of 1 Nos (1W+1S) Vertical Multistage High Pressure Pump having a liquid discharge rate of minimum 1.2 m3/hrs at a head of 150 meters suitable for operation on 3 phase 415Volt AC supply etc as required.						
	Flow rate - 1200 lph						
	Qty : 2 Nos (1W + 1S)						
	Type- Vertical Multistage						
	Head - 150 m						
	MOC - SS304						
	Power Rating : Sutable Rating						
	Make -	Set	1				
07	RO MEMBRANES & VESSELS						
	No of Vessels - 2 Nos						
	No of Membranes - 2 Nos						
	Membrane Size - 4" x 40"						
	Make - Filmtech (DOW) /Torrey						
	Type - Thin Film Composite						
	Pressure Vessel Size - 4" x 40" (1 Element Long), 300 PSI						
	MOC Housing - FRP						
	Make:	Lot	1				
08	RO SKID						
	Type : Skid Mounting						
	MOC : SS 304	Lot	1				
09	INSTURMENTS						
	Rotometer meter - 2 Nos						
	Make : UKL						
	Low Pressure Switch- 1 Nos						
	Range: 0-7 kg/cm2						
	Make :Baumer						
	High Pressure Switch: 1 Nos						
	Range : 0 - 15 Kg/cm2						
	Make :Baumer						
	Pressure Gauges-2 Nos						
	Type : Glycerine filled						
	Dial size : 2.5 inch						
	Range: 0-7kg/cm2 & 0-15 kg/cm2						
	Make :Baumer						
	Digital flow meter - 2 Nos - (Feed & Product)						
	Make - Aster						
	pH Meter - 2 Nos - (Feed & Product)						
	Make - Aster						
	Conductivity/TDS Meter - 2 Nos - (Feed & Product)						
	Make - Aster	Lot	1				
10	CHEMICAL CLEANING TANK						

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	Quantity: 1 No						
	Capacity: 500 lit						
	MOC: LLDPE	Nos	1				
11	CIP MICRON FILTER						
	Supply, installation, testing and commissioning of Micron filter						
	Micron filter with cartridge - PP						
	Size of Filter : 2.5 "X 20"						
	Type : Wounded	Nos	1				
12	UV system with lamp hour timer						
	Supply, installation, testing and commissioning of UV system						
	Flow rate : 1000LPH						
	MOC : SS 304	Nos	1				
	Make: Alfaa						
13	INTERCONNECTING PIPE & FITTINGS						
	Supplying and laying of Pex piping of required dia conforming to IS, including pipe specials like bend, elbow, tee, union, coupling, cutting the pipes with all accessories						
	Duty : Connecting all tanks, pumps, filters etc						
	Reject water pump delivery line upto 5 meter distance						
	Inter unit pipe line : Pex pipe						
	MOC: Pex piping, High pressure line: SS 304						
	Make: Astral/Supreme/Prince	Lot	1				
14	ELECTRICAL CONTROL PANEL						
	Design, Fabrication, Supplying, Installation, Testing and Commissioning of Non - compartmentalised Electrical control Panel made out of MS with powder coated. Incoming and outgoing with Suitable starter, as required.						
	Panel MOC: MS With Powder Coating						
	Type : Non compartmental						
	Make : Aster	Lot	1				
15	ELECTRICAL CABLES						
	Supplying and laying of Cable tray with Fixable Electrical Cable with all accessories along with necessary earthing and accessories						
	Electrical Cables : PVC Flexible Copper Cable						
	Make :	Lot	1				
16	RO STORAGE TANK						
	Supply erectioning, testing and commissioning of circular / rectangular / Square double layered SS Tank of capacity as mentioned below. Open Top Lid with level indicator (fiber glass) with volume mentioned						
	Storage tank of capacity 2000 litres						
	MOC : SS 304	Lot	1				
	Note: All Display of nomenclature, directional arrows, and Standard Operating Procedures (SOPs) are included in supplier scope						
	SUB - TOTAL (H)						
I	MISCELLANEOUS WORKS:						
1.0	Supply and fixing of FRP supports, channels and other supporting structure for suspending, mounting pipes and other fittings.	Kgs	350				
2.0	Supply and fixing of water metering station ball valves, water meter, check valve, strainer, expansion belows, flanges, couplings and consumables etc. as per standard specifications.	Nos.	1				
3.0	Making of core cutting in RC slab of maximum 150mm thick of following diameter						
a	75mm dia	Nos.	QRO				
b	100mm dia	Nos.	15				
c	125mm dia	Nos.	15				
d	150 mm dia	Nos.	QRO				

S.NO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT	
				SUPPLY	ERECTION	SUPPLY	ERECTION
4.0	Providing and fixing of MS brackets fabricated out of L- angle/ flats of required sizes with 6mm / 8mm GI 'U' clamps GI washers for clamping uPVC pipes. The work shall including with one coat of anti-corrosion and one coat of black enamel paint has to be done, grouting in RCC slabs, masonry wall / ducts with cement concrete and making good the walls. (at every 2.5m c/c intervals)	Kgs	600				
5.0	Providing and fixing in place liquid level controller with high and low level indicator in the Overhead tanks and underground sump along with associated wiring and connections. All complete as required	Nos	2				
6.0	Supply and grouting of SS rungs made of 20mm dia SS pipe 150mm wide for UG sump, to be fixed as per the detailed drawing	Nos	42				
5.0	Provision of puddle flanges with M.S. plate of 6mm thick, the plate to be welded to GI pipe of following sizes for storage water tanks (refer drawing for construction)						
a	40 mm dia	Nos	3				
b	50 mm dia	Nos	4				
c	65 mm dia	Nos	3				
d	80 mm Dia	Nos	3				
e	150 mm Dia	Nos	1				
f	200 mm Dia	Nos	2				
	SUB - TOTAL (I)						
	TOTAL						
	GST 18%						
	TOTAL - SUPPLY AND INSTALLATION						
	Note:						
	L1 will be arrived based on the total amount quoted for works excluding GST.						
	Un-Price bid: Price bid without price & with percentage of taxes & duties and details like quoted/Nil/Included, shall be submitted along with the technical bid.						