



झारखण्ड अर्बन इंफ्रास्ट्रक्चर डेवलपमेंट कंपनी लिमिटेड, (जुडको लि0)

(झारखण्ड सरकार का उपक्रम)

तृतीय तल, प्रगति सदन, आर0आर0डी0ए0 भवन, कचहरी चौक राँची-834001, झारखण्ड

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CIN: U45200JH2013SGC001752

Ref No. 107

Dated- 13-11-2017

1	<u>Name of the work</u>	Jharkhand Urban Infrastructure Development Company Limited (JUIDCO Ltd.) requires quotations from manufacturers/supplier/stockiest for different items (Earthworks, Concrete works, Door & Window, flooring, painting, road work, tree pit cover, waste bin, see saw, deluxe slide, swing, tensile shade canopy, electrical work, irrigation work, plumbing work etc) for “ Rejuvenation and Conservation of Subarnarekha river in urban stretch of Ranchi, JHARKHAND ”
2	<u>Availability of Quotation Description</u>	Online juidco.jharkhand.gov.in under Tenders Lfink and udhd.jharkhand.gov.in under the Tender Link from 14 th Nov, 2017
3	<u>Mode of submission of Quotation</u>	Offline (Through Post/By Hand/By mail on juidcolimited@gmail.com)
4	<u>Date of start of submission of Quotation</u>	14-11-2017 from 10:00 Hrs
5	<u>Last Date of Quotation Submission</u>	20-11-2017 up to 15:00 Hrs
6	<u>Quotation Submission Address</u>	Jharkhand Urban Infrastructure Development Company Limited, 3rd floor, Pragati Sadan, Kutchery Chowk, Ranchi, Jharkhand 834001
7	<u>Helpline number for e-procurement cell</u>	9471006062/9955788111

Sd/-

(Sudhir Kumar Sahu)

General Manager (Water Resources)

JUIDCO Ltd.

Details of Quotation items for Rejuvenation and Conservation of Subernarekha River in Urban Stretch of Ranchi

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
CIVIL WORKS				
EARTHWORKS				
1	Supply & Installation of Geomat (Macmat 9.1) made of Polypropylene Polymer made three dimensional matrix having 9mm thickness at 2kPa pressure as per EN ISO 9863-1, mass per unit area 450 grams/sqm, 2 kN/m tensile strength in length direction & 1 kN/m in cross direction as per EN ISO 10319 including fixing of U pins of 8mm diameter of depth 500mm at 1m c/c spacing, at easily accessible location including top and bottom, with all leads and lifts, manpower and machinery, materials,labour etc. complete and as directed by Engineer - In - Charge.	Sqm	20,468.00	Maccaferri
2	Supply and Application of MacFlex High Performance-Flexible Growth Medium (HP-FGM) which is 100% biodegradable, composed of 100% recycled, thermally refined (within a pressurized vessel) virgin wood fibers, crimped interlocking biodegradable fibers, mineral activators, and wetting agents (including high-viscosity colloidal polysaccharides, crosslinked biopolymers and water absorbents) along with STANDARD prescriptive agronomic formulations such as fertilizer, extended-term dyes, soil pH modifiers, bio stimulant materials and seeds which is hydraulically-applied for Erosion control and faster growth of Vegetation.	Sqm	20,468.00	Maccaferri
3	Supply and application of MacGanics Biotic Soil Media (BSM) - a combination of recycled Thermally Refined bark and wood fibers with a proprietary blend of biopolymers, biochar, seaweed extract, humic acid, endomycorrhizae and other beneficial constituents. All components of the Biotic Soil Media blend shall be of naturally derived and renewable, and engineered to optimize moisture retention, growth and establishment of vegetation. This item can be adopted where the organic matter is found to be deficient in the soil substrate, as desired and as per BSM specifications along with standard prescriptive agronomic formulations such as fertilizer, extended-term dyes, soil pH modifiers, bio stimulant materials, seeds etc as specified.	Sqm	20,468.00	Maccaferri
CONCRETE WORKS				
4	Providing and wet drilling accurate and clean holes of specified diameter in RCC walls, slabs, beam or any other RCC member without vibration by core cutting (diamond drilling) machine of HILTI or equivalent including scaffolding, safety majors, disposing the debris, cleaning for all levels/ all height as per structural consultant's drawing, after approval of engineer in charge etc compete. Measurement will be taken for the depth of holes in running meter for specified diameter. Holes shall made by authorised approved agency.	Rmt	10.00	Hilti
5	a) Holes of 52 mm diameter			
6	c) Holes of 77 mm diameter	Rmt	10.00	Hilti
7	d) Holes of 102mm diameter	Rmt	10.00	Hilti
8	e) Holes of 152 mm diameter	Rmt	10.00	Hilti
DOOR WINDOW WORKS				
8	Providing and fixing 6 mm thick wired glass of approved make and specified thickness in frame work with necessary cutting of glass as per approved shop drawing & specifications including providing and fixing EPDM quality rubber on the periphery of the glass, snap beading, glazing clips, neutral cure weather Silicone sealant of Dow corning 789 etc. complete etc. complete for all floors, all levels, all heights and in all shapes as per the directions of Architect/ Engineer-in-charge. Actual installed area shall be measured and paid. In case of half round/ round shape windows, rectangular/ square area shall be measured and paid.	Sqm	8.00	-

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
9	Providing and fixing Exterior/ Interior grade Compact Sheet of specified thickness of approved colour, texture & make of required size in aluminium/ MS/ wood frame or shutter work with necessary cutting of sheet, single side, double side as per drawing & specifications including providing and fixing EPDM quality rubber/ silicon sealant/ 3M tape/ screwing on the periphery of the sheet as per the required thickness etc. complete at all floors/ all levels/ all heights as per the drawing & directed by EIC. Rate shall be inclusive of all type of wastage. 6mm thick	Sqm	2.00	Merino
10	Providing & fixing of specified height (minimum rod size shall be 10mm) SS 304 grade brush finish Tower bolt of Kich or equivalent in wooden doors/ aluminium doors with necessary screws etc complete as approved by Architect and Engineer-in-charge. (a) 250 mm x10 mm rod size	No	98.00	Arch
11	Providing & fixing SS-304 grade or satin nickle plated brush finish brass butt hinge of specific size with necessary screws etc. complete of Kich or equivalent make and sample as approved by Architect and Engineer in Charge. a) 100 x 75 x 3 mm - with ball Bearing	No	392.00	Arch
12	Providing & fixing 150 mm (minimum rod size shall be 12mm) satin nickel plated brush finish brass or SS 304 brush finish D shape rod handles with Tikadi of EPPW or equivalent with necessary screws etc. complete as approved by Architect and Engineer-in-charge.	No	118.00	Arch
13	Providing and Fixing Satin Finish Stainless Steel Aldrop with the size Dia 14 mm x 250 mm and 110mm long handle including fixing 3 Bracket with size 62mm x 20 mm and 1 locking bracket, minimum weight should be 761 gram with necessary fixing stainless steel screws and bolts etc as per drawing and as directed by engineer in charge.	No	98.00	Arch
14	Providing & Fixing high Quality Zinc Material SS finish Baby Latch lenght of 100 mm including Bracket of 35 mm x 38mm, minimum Weight 198 grm with necessary SS Screws etc. complete as specified, as per drawing as directed by engineer-in-charge.	No	58.00	Arch
15	Providing & fixing 75 - 100 mm white PVC door buffer with necessary screws etc. complete as sample approved by the Architect. (Sample to be approved before mass production/ construction/ purchase)	No	75.00	Arch
16	Providing and fixing SS 304 grade kick plate of size 800mm x 200mm x 1.2mm for disable toilet door of kich or equivalent including fixing etc complete as directed by engineer in charge.	No	5.00	Kich
17	Providing & fixing 19mm diameter SS 304 satin (brush) finish Disabled Grab Rails of 600mm long (as handle) of Jaquar, dorma or equivalent make with necessary SS phillips headscrews etc. complete, as per drawing as sample approved by Architect/ Engineer-in-charge. Rate shall be for all heights, all floors and all places.	No	5.00	Hafale
FLOORING WORKS				
18	Providing and laying 75 mm thick natural stone of size 1200x500 of approved quality on treads of Ghat, table, bench, chotra's top, etc. over 15 mm thick base of cement mortar 1:4 laid and joined with cement slurry including cost of curing, taxes and royalty all complete as per specification and direction of EIC	Sqm	7,161.00	-
19	Providing and laying 25 mm thick natural stone of size 500x500 of approved quality on pathways, coping, etc. over 15 mm thick base of cement mortar 1:4 laid and joined with cement slurry including cost of curing, taxes and royalty all complete as per specification and direction of EIC	Sqm	14,686.00	-
20	Providing and laying 25 mm thick natural stone of size 1200x500 of approved quality on ghat risers, sides of bench, table, chotras, etc. over 15 mm thick base of cement mortar 1:4 laid and joined with cement slurry including cost of curing, taxes and royalty all complete as per specification and direction of EIC	Sqm	4,649.00	-

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
21	Providing and laying 60mm thick Solid Concrete Combination Cobbles of size 210mm/ 170mm/ 130mm/ 90mm x 160mm, made by vibro pressed method of VYARA or equivalent as approved by Architect/ EIC, with +/-3mm tolerance and thickness of wearing layer Not less than 5mm of any color and shade (UV Light resistant fast colours from Lanxess only to be used) having compressive strength of 50 Kg/cm2 for footpath, parking areas, service lanes and other areas as mentioned in the drawing. Combination cobbles shall be laid as per approved pattern and suggested by manufacturer. Including providing and laying average 50 mm thick average bedding layer of coarse sand below the block as per required grading and specification. Laid blocks shall be mechanically compacted. The work of the blocks shall be executed in line and level by skilled mason of flooring work only. It should be laid in such a way that the no cutting of the block to be necessary. Cutting of block shall be done using machine only and laying shall be done by skilled flooring mason. The Finished surface of the block shall have textured finish. The blocks shall be compacted and shall be re-laid if necessary. Sample of loose paver and laid paver shall be approved by consultant or engineer in charge before execution of work.	Sqm	7,218.00	Vyara
22	Grass Paver/Grid Paver Providing and laying grey/non colored grass paver blocks (grid paver) of high density 75 mm thick M-30 grade of approved make. Grid paver shall be laid on existing levelled good soil Including 40 mm thick average FYM Soil filling and approved quality lawn in gap of grid paver. Laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. Cutting of paver block by machine cut only and laying to be done by skilled flooring mason. Paver blocks shall be compacted and shall be re-laid if necessary. (Cost of FYM soil and lawn shall be paid separately)	Sqm	3,720.00	Vyara
PAINTING WORKS				
23	Providing and carry out 400 microns thick coal tar extended epoxy resin coating to sound concrete surface after carry out surface preparation to remove loose concrete, curing compound or any other foreign material, mixing base and hardener component of coal tar extended epoxy resin coating, apply first coat at 200 microns DFT using suitable brush or roller, allow the first coat to dry for 6 hrs at 35°C followed by application of application of second coat at 200 microns DFT in perpendicular direction to first coat etc. complete including as per manufacturer's specification. Coal tar extended epoxy resin shall be having 100 % solid contents by weight, specific gravity - 1.54 at 27°C, Curing efficiency – 93 % (BS 7542), Water absorption <0.01 % (ASTM D 570), Bond Strength: min 1 N/mm2 (BS 1881 Pt 207), Water Permeability: nil at @ 2 bars pressure over 3 months, Salt spray test: nil @ 200 microns DFT over 1000 hrs (BS 1881 Pt. 124:1988), Impact Resistance: passed (BS 3900 Pt E3) & Chemical resistance checked in accordance with ASTM D 453	Sqm	6,800.00	Fosroc
ROAD WORKS				
24	Providing and fixing rubber speed breakers (with polyurethane binder) of size 500mm x 350mm x 50mm lining with 8 no of cat eyes per piece Including intermediate and end members as per manufacturer's specifications or supplier's specifications and as directed by engineer in charge. Weight of speed breaker approximate 15 Kg/Rmt and weight capacity 20 Tons with high impact resistance and brutal weather condition. Speed breaker shall be fixed with grout (min 8 holes for fixing per piece) and as per manufacturer's specification. Sample shall be approved by engineer in charge.	Rmt	14.00	-
GENERAL DEVELOPMENT WORKS				
25	Tree pit cover - Providing, making & fixing tree pit cover around the tree pit, factory made exposed /fare finish precast Tree pit cover block of two halve in FRC concrete of size - 0.90Mt x 0.90Mt x 0.065mt including transporting, fixing etc. complete. The rate shall also include for erecting and fixing the pieces in position as shown in the drawing with necessary equipments without any damage. (Sample to be approved)	No	716.00	Vyara

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
26	Providing and installing floor mounted dustbins of Sintex, Nilkamal, Prince or equivalent. Dust bin shall be one Piece Moulded, Heavy Duty Waste Bin made out of FDA approved virgin grades of Polyethylene material manufactured from Rotational Moulding Process / Blow Moulding Process absolutely smooth and sanitary, chemical resistant, blended with stabilizers, Anti Corrosive, Anti Acidic, Non toxic and free from joints, welds or rims; provided with fully openable unique lid, open from either side for easy garbage drop even from distance, ideal for Storage and Handling of Solid Waste to satisfy the critical requirements of MSW 2000. Virgin Grade of Polyethylene material confirming to the requirement of IS 10146 – 1982. (i) Rectangular waste bin of approx. 100 liter capacity	No	60.00	Sintex
27	(ii) Circular waste bin with Vertical flap lids of approx. 80 liter capacity	No	23.00	Sintex
28	(iii) Rectangular waste bin of approx. 100 liter capacity with permanent structure for fixing it on wall or floor as per instruction of EIC	No	10.00	Sintex
29	ACP sheet signage on Existing Pole/ New Pole: Providing, Making and fixing 4 mm thick ACP sign of any shape and size and of approved make to be cut on CNC router cutting and smoothen all corners and edges. Matter shall be cut in 3M High intensity prismatic Reflective vinyl ASTM Type 4 and paste on it as per design and detail and as per manufacturer's specifications. UV stabilized lamination shall be done on it. The ACP sheet shall be fixed with clamp and angle on new or existing MS Pole as per drawing. Content of sign shall be letters (In Dzongkha & English), graphics / maps, signs etc. in any colour as per design, drawing and approved by Architect and Engineer. All side of box shall be covered with fresh ACP sheet, but only one side elevation area shall be measured and paid in sqmt. Cost of MS Pole and Civil works shall be paid as per relevant tender items. The rate shall also include cost of scaffolding, drilling, fabrication, finishing, adhesive material, etc at all height and all lead, angle, fixing charges, etc. The contractor should submit the drawings based on concept design and do the sampling and get it approved before execution.	Sqm	32.00	-
30	Map Sign: Providing, making and fixing Modular system signage of Vista, Co-sign or as per approved make system for Direction Signs as per concept drawings. Modular sign using Aluminium extrusions (Alloy 6060) with Anodizing (Thickness 15-20 microns) according to ISO:9001-2008 product with Premium grade Anodizing as per Qualanod and Qualicoat International standards and warranty as per manufacturer's specifications. Sections can be used to create totems upto 6m with variable depths as per requirement. Providing, Making and fixing 4 mm thick ACP sign of any shape and size of Flexi bond or as per approved make to be cut on CNC router cutting and make all corners and edges smooth with matter and graphic as per the concept design and manufacturer's specifications. Protective coating shall be applied over the surface of ACP. The Rate shall include all civil work related to foundation, fixing and ACP with printed matter (both side), protective coating (both side), co-sign profile, finishing good etc. for all height all level. Only one side elevation area shall be measured and paid in sqmt. The contractor should submit the drawings based on concept design and do the sampling and get it approved before mass production. The contractor shall submit the drawings based on concept design and do the sampling and get it approval before execution.	Sqm	10.00	Co-sign

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
31	SS Plate Signs : Providing Making and fixing SS plate signs on 2mm thick ISI Brushed S.S. Grade 304 plate with acid etching and duco painting. All plates will be made in CNC Water Jet Cutting, with all edges smoothen and all corner to be cute round. Acid etching should be done 0.3mm deep and Use ICI duco paint for colour infill of approved colour. The letters of made of Vinyl stickers. The font colour shall be of as per drawing and specified by Architect. The plate will be fixed on wall with the stud/ fastener/ adhesive tape of 3M, jointing sealant as per design as per specification and approved by Architect or Engineer in charge. The rate shall be inclusive of scaffolding, drilling, fasteners/ adhesive material etc. at all heights as directed by engineer in charge. Only elevation area shall be measured and paid. The rate shall also include cost of scaffolding, drilling, fabrication, finishing, adhesive material etc at all height and all lead. The contractor should submit the drawings based on concept design and do the sampling and get it approval before execution.	Sqm	4.00	-
32	Providing and fixing in position Children Playground Equipment as per drawing and directions by engineer in charge. a) Pyramid scrambler	No	2.00	-
33	b) Net rock climber	No	2.00	-
34	c) Penguin Trash Bin	No	2.00	-
35	d) 4 slide MAPS 06	No	2.00	-
36	e) Double See Saw	No	2.00	-
37	f) Delux Slide	No	2.00	-
38	g) Wave Slide	No	2.00	-
39	h) Spiral Slide	No	2.00	-
40	i) Four seater Arch Swing	No	2.00	-
41	Providing and fixing in position Mechanically Operated Exercises Equipment Machine as per drawing and directions by engineer in charge. a) Health Walker	No	1.00	-
42	b) Pull Up station	No	1.00	-
43	c) Sit up Board	No	1.00	-
44	d) Step up	No	1.00	-
45	e) Hand rower	No	1.00	-

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
46	Tensile Shade Canopy Providing and installing Textile Architecture for canopy by using Ferrari ® 702s fabric composite membrane made up of weave of high-tenacity polyester base yarn material of approved shade and quality by Architect and Engineer-in-charge . Ferrari ® 702s fabric including wastage (inclusive of procuring, design, non-linear structural analysis, static analysis for steel structure, patterning, nesting, seaming, fabrication, transportation and installation charges), M.S. Hot dipped G.I. Clamps for beam-fabric connection, tackles, nuts and bolts (inclusive of crimping etc.) The material should have properties like long lasting mechanical resistance, dimensional stability, flexibility, non fading, UV resistant, flame retardant, ease of fitting. The material shall be delivered in manufacture's original unopened containers and packaging with labels clearly identifying product name and manufacturer. It should be stored in dry and clean indoor areas and handling in such a way to prevent damage in accordance with manufacture's instructions. Contractor shall submit manufacturer's maintenance and cleaning manual, gurantee/warranty on stamp paper in prescribed format, manufacurer's certificate etc. Work shall be executed as per the drawing in best workmanship manner upto the satisfaction of Architect or Engineer in charge.Engineer-in-charge.	Sqm	740.00	Ferrari
47	Providing and fixing polycarbonate domes 2 mm thick, embossed / transparent / milky white with side step including fixing with brass screws / neoprene / EPDM gaskets / neutral grade silicon sealant etc complete as per the instructions of Architect / Engineer-in-charge. (Sample to be approved) a)600mm inner Dia	No	40.00	-
B	ELECTRICAL WORKS			
	WIRING			
48	LIGHT FIXTURES & FANS Supplying, erecting, connecting, testing and commissioning of Following type Light Fixture with all necessary Hardware, Internal Wiring with Lamp,Ballast etc. all required accessories Complete in all respect. Any kind of internal light Fixtures type - A (with Basic Rate of Rs.1500/-) Refer special condition of contract sheet for Basic rate defination & formula calculation.	Each	128.00	
49	Any kind of internal light Fixtures type - B (with Basic Rate of Rs.3000/-) Refer special condition of contract sheet for Basic rate defination & formula calculation.	Each	99.00	
50	48" Dia Sweep Ceiling Fan as per approved colour & equivalent to USHA make TECHNIX DEC. W /0 REG 5 Star type.	Each	34.00	
51	Heavy duty 300 mm. diameter propeller exhaust fans single phase 1400 RPM. as per approved colour & equivalent to USHA make TURBO DBB WITH GUARD.	Each	15.00	
	MCB & DBs			
52	Supplying and fixing 20 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, TP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	29.00	
	MV CABLE, LAYING , JOINTING & END TERMINATION			
53	Supply of XLPE steel/GI wire/flat armoured cable of 1100 V grade of Aluminum / Copper Conductor of following sizes . Aluminium Arm. XLPE Cables 50 Sq.mm x 3.5C Al. Cable	Metre	4,200.00	
54	Copper Arm. XLPE Cables 16 Sq.mm x 4C Cu. Cable	Metre	1,200.00	
55	10 Sq.mm x 4C Cu. Cable	Metre	100.00	
56	6 Sq.mm x 4C Cu. Cable	Metre	9,757.60	

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
57	4 Sq.mm x 4C Cu. Cable	Metre	6,058.00	
58	2.5 Sq.mm x 4c Cu. Cable	Metre	2,047.20	
59	4 Sq.mm x 3c Cu. Cable	Metre	100.00	
60	2.5 Sq.mm x 3c Cu. Cable	Metre	100.00	
61	2.5 Sq.mm x 3c Cu. Flexible Wire	Metre	100.00	
62	1.5 Sq.mm x 3c Cu. Flexible Wire	Metre	220.00	
63	LT Termination Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. (for outdoor) 3½ X 50 sq. mm	Each	14.00	
64	Supplying and making end termination with double compression flame proof gland and Copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required. (for outdoor) 4c X 16 sq. mm Cu.	Each	12.00	
65	4c X 10 sq. mm Cu.	Each	10.00	
66	4c X 6 sq. mm Cu.	Each	792.00	
67	4c X 4 sq. mm Cu.	Each	420.00	
68	4c X 2.5 sq. mm Cu.	Each	232.00	
69	3c X 4.sq. mm Cu.	Each	10.00	
70	3c X 2.5 sq. mm Cu.	Each	10.00	
71	Supplying and making Copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required. 4c X 6 sq. mm Cu.	Each	15.00	
72	4c X 4 sq. mm Cu.	Each	20.00	
73	4c X 2.5 sq. mm Cu.	Each	25.00	
74	3c X 2.5 sq. mm Cu.	Each	100.00	
MV / LT SWITCHGEAR & POWER PANELS				

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
75	<p>Supplying, unloading at site, shifting to site, assembling, leveling, grouting, erecting, Testing, & Commissioning double compartmentalized Double door type section feeder piller with IP 55 protection & should be powder coated fabricated from 10 Guage CRCA sheet & folded channel totally enclosed cubical type with pad lock arrangment. The successful tenderer will have to prepare general arrangement with dimensions & get it approve through Architect/ Consultant. All civil work including RCC platform for section pillar should be in scope of Electrical contractor complete in all respect as per detail drawing and directed by engineer incharge.</p> <p>(As per attached Single line diagram)</p> <p>1) incomer -</p> <p>a) 63A FP ELMCB, 10 KA</p> <p>b) On / Off Indication Light 220VAC 22.5mm LED Type-1 set</p> <p>c) RYB Indication Light 220VAC 22.5mm LED Type-1Set</p> <p>d) Digital Dual channel Astronomical timer with 48 hr. battery back up</p> <p>e) 40A TP power contactor - 2 nos.</p> <p>f) 40 A DP MCB -3 Nos</p> <p>2) 63 A rating 4 strip tinned copper sleeved bus bar - 1 set</p> <p>3) outgoing -</p> <p>a) 6 to 32 A SP MCB -54 Nos.</p> <p>b) 6 to 32 A DP MCB -5 Nos.</p> <p>c) 6 to 32 A FP MCB -3 No.</p> <p>d) neutral link</p> <p>e) cu.Earting Strip</p>	Each	7.00	
76	<p>Supplying, unloading at site, shifting to site, assembling, leveling, grouting, erecting, Testing, & Commissioning double compartmentalized Double door type section feeder piller with IP 55 protection & should be powder coated fabricated from 10 Guage CRCA sheet & folded channel totally enclosed cubical type with pad lock arrangment. The successful tenderer will have to prepare general arrangement with dimensions & get it approve through Architect/ Consultant. All civil work including RCC platform for section pillar should be in scope of Electrical contractor complete in all respect as per detail drawing and directed by engineer incharge.</p> <p>(As per attached Single line diagram)</p> <p>1) incomer -</p> <p>a) 100A FP MCCB, 16 KA</p> <p>b) On / Off Indication Light 220VAC 22.5mm LED Type-1 set</p> <p>c) RYB Indication Light 220VAC 22.5mm LED Type-1Set</p> <p>2) 100 A rating 4 strip tinned copper sleeved bus bar - 1 set</p> <p>3) outgoing -</p> <p>a) 6 to 32 A FP MCB -5 Nos.</p> <p>b) 6 to 32 A DP MCB -3 Nos.</p> <p>c) neutral link</p> <p>d) cu.Earting Strip</p>	Each	2.00	
77	<p>Supplying, assembling, leveling, grouting, erecting, Testing, & Commissioning of Totally insulated wall sockets with din rail 16 A 5 pin socket with 16A plug with 16A FP MCB made out of environment friendly, recyclable polycarbonate thermoplastic, Degree of Protection IP 67, in accordance with IEC 60309 ,self extinguishing glow wire tested at 960 deg. cent equivalent to Hensel Walther make Cat. No. -AR119TS.</p>	Each	20.00	
78	<p>SITC of 98mm x 98mm x 61 mm Water tight junction box (equivalent to Hensel make Cat No. KF 9045) having Degree of Protection IP 66 with 4 Nos. 4 way terminal suitable up to 4 Sq.mm with necesssry accessories with din rail channel complete in all respect.</p>	Each	121.00	
79	<p>SITC of 139mm x 119mm x 70 mm Water tight junction box (equivalent to Hensel make Cat No. KF 9065) having Degree of Protection IP 66 with 4 Nos. 4 way terminal suitable for 6 Sq.mm with necesssry accessories with din rail channel complete in all respect.</p>	Each	10.00	

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
80	SITC of 167mm x 125mm x 82 mm Water tight junction box (equivalent to Hensel make Cat No. KF 9105) having Degree of Protection IP 66 with 4 Nos. 4 way terminal suitable for 10 Sq.mm with necessary accessories with din rail channel complete in all respect.	Each	10.00	
81	SITC of 200mm x 160mm x 98 mm Water tight junction box (equivalent to Hensel make Cat No. KF8250) having Degree of Protection IP 66 with out terminal with necessary accessories complete in all respect.	Each	5.00	
EXTERNAL LIGHTING				
82	Supply, erecting,testing, commissioning of 4 Mtr. GI decorative pole of 165 OD X 4.80 mm thk. With 400 X 12 mm round flange with integral type junction box with necessary reducer / coupler for fixing of light fixtures (post top lantern) & Hinged access door with allen key & gasket require to access the integral junction box, integrated junction box having 6 way connector, 1 No. 2A SP MCB with din rail channel, 8mm thk. Hylem sheet, 12x2 mm thk. GI Patti Clamp, with necessary required hardware, necessary welding & Fabrication work complete in all respect as per given detail with one coat of zinc oxide complete in all respect as per Drawing. Rate shall be including PU paint of shade as per drawing or as directed by Architect and rate shall be inclusive of foundation work earthing complete in all respect as per requirement as per site condition with cost of the chemical grouted Anchor fastener. (Sample to be approved)	Each	376.00	
83	Supply & Installation of GI Pole made out of B CLASS ERW G.I. PIPE for road having Height -8.0 mtr having 165 OD X 4.80 mm thk. With Bracket (Single/ Double Arm If Required) zinc coating and two coats of paint / pu coats of approved shed by architect with base plate of 450 x 450 x 16 mm with stiffener plate with integral type junction box , with complete concrete foundation with necessary reinforcement, j bolt, necessary hardware as per detail , with necessary Reducer / Coupler / for fixing of light fixtures & Hinged access door with welded chain between pole and hinged door with Allen key require to access the integral junction box (effective length should be 7500mm above GF) 1) with necessary 6 way connector, 1 No. / 2 Nos. 2A SP MCB with din rail channel, 8mm thk. Hylem sheet, 12x2 mm thk. GI Patti Clamp, with necessary required hardware, necessary welding & Fabrication work (if required) complete in all respect. 2) 40 mm diameter pipe for each cable entry . 3) Wiring up to the light fixture from the junction box using 3nos x 1.5 sq.mm. flexible copper wires of specified make for each fixture. 4) Concrete foundation with base plate 5) Excavation for erection of poles.as per drawing complete in all respect. (sample to be approved).	Each	5.00	
84	Supply & Installation of GI Pole made out of B CLASS ERW G.I. PIPE for road having Height -6.0 mtr having 165 OD X 4.80 mm thk. With Bracket (Single/ Double Arm If Required) zinc coating and two coats of paint / pu coats of approved shed by architect with base plate of 450 x 450 x 16 mm with stiffener plate with integral type junction box , with complete concrete foundation with necessary reinforcement, j bolt, necessary hardware as per detail , with necessary Reducer / Coupler / for fixing of light fixtures & Hinged access door with welded chain between pole and hinged door with Allen key require to access the integral junction box (effective length should be 7500mm above GF) 1) with necessary 6 way connector, 1 No. / 2 Nos. 2A SP MCB with din rail channel, 8mm thk. Hylem sheet, 12x2 mm thk. GI Patti Clamp, with necessary required hardware, necessary welding & Fabrication work (if required) complete in all respect. 2) 40 mm diameter pipe for each cable entry . 3) Wiring up to the light fixture from the junction box using 3nos x 1.5 sq.mm. flexible copper wires of specified make for each fixture. 4) Concrete foundation with base plate 5) Excavation for erection of poles.as per drawing complete in all respect. (sample to be approved).	Each	29.00	

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
85	Supplying, erecting, connecting, testing and commissioning of any kind of External light Fixture with all necessary Hardware, Internal Wiring with Lamp,Ballast etc. all required accessories Complete in all respect. Any kind of External LED Strip light Fixtures type - A (with Basic Rate of Rs.1500/-) Refer special condition of contract sheet for Basic rate Defination & Formula calculation.	Mtr	500.00	
86	Any kind of External light Fixtures type - B (with Basic Rate of Rs.15000/-) Refer special condition of contract sheet for Basic rate Defination & Formula calculation.	Each	411.00	
87	Any kind of External light Fixtures type - C (with Basic Rate of Rs.30000/-) Refer special condition of contract sheet for Basic rate Defination & Formula calculation.	Each	248.00	
88	Any kind of External light Fixtures type - D (with Basic Rate of Rs.50000/-) Refer special condition of contract sheet for Basic rate Defination & Formula calculation.	Each	192.00	
89	Any kind of External light Fixtures type - E (with Basic Rate of Rs.100000/-) Refer special condition of contract sheet for Basic rate Defination & Formula calculation.	Each	40.00	
90	Any kind of External light Fixtures type - F (with Basic Rate of Rs.175000/-) Refer special condition of contract sheet for Basic rate Defination & Formula calculation.	Each	14.00	
MISCELLANEOUS				
91	DWC PIPES Supply , Laying of following sizes DWC Pipe of approved make (Confirming to IS) in open / recess manner complete with required accessories & joints /Coupler / bends etc as directed. 50 mm dia pipe	Metre	200.00	
92	90 mm dia pipe	Metre	12,262.80	
93	250 mm dia pipe	Metre	9,900.00	
94	Follow Up with supply co. for getting supply to various Section Pillar. The scope also covers lying of L.T. cable from Section Pillar to company's cut-out. This also covers to obtain any permission required for road crossing from any authority (if required), Filling the necessary application to supply co., following up and getting the supply filling the necessary test report to the supply co. All official fees shall be paid by client on presentation of documentary proof and all other out of pocket expenses shall be of contractor.	Lumsum	1.00	
95	Supplying , fabricating and installation of various sizes clamps/hangers etc for light fixtures/ panels/ junction Box/Plug points / Meter Box etc if required, made out of Angle/Flat/rod/ channel/box section etc with all necessary accessories like bend, coupler, supporting clamps, elbows, hardware, anchor fastners etc All the necessary fabrication required will be included in the scope of contractor. Scope also includes two coat of primer and two coat of paining of each items on all the sides complete in all respect.	KG	1,000.00	
C	IRRIGATION WORKS			
	PIPING NETWORK			
96	Providing of PVC pipes (IS:4985-), and fittings & Accessories like tees, elbows, bends, junctions, Reducers etc; as required/directed at site , Make: Finolex, Supreme, Astral HDPE pipes (IS:4984), and fittings & Accessories like Compression tees, elbows, bends, junctions, Reducers etc; as required/directed at site , Make: Astore, GF, FIP (i) HDPE PIPE 90mm PN 6	Mtr	48.00	

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
97	(ii) HDPE PIPE 75mm PN 6	Mtr	2,100.00	
98	(iii) HDPE PIPE 63mm PN 6	Mtr	1,002.00	
99	(iv) PVC PIPE 75mm x 6kg/cm2	Mtr	72.00	
100	(v) PVC PIPE 63mm x 6kg/cm2	Mtr	78.00	
101	(vi) PVC PIPE 50mm x 6kg/cm2	Mtr	300.00	
102	(vii) PVC PIPE 40mm x 6kg/cm2	Mtr	3,000.00	
103	(viii) PVC Pipe Sch 40 1.25"	Mtr	162.00	
104	(ix) PVC Pipe Sch 40 3/4"	Mtr	3,300.00	
105	(x) PVC Pipe Sch 40 1/2"	Mtr	210.00	
106	(xi) PVC Pipe Sch 40 1"	Mtr	600.00	
	DRIP & ACCESSORIES			
107	Providing of 16 mm - 4 Bar Pressure Rating, 1.2mm Thickness, LEED Compliant, PE pipe -together with all required accessories. Make : Netafim / Rain Bird / Metzger (Brown Color)	Mtr	4,500.00	
108	Providing INLINE Drip 16mm 50CM 3 LPH, 4 Bar Pressure Rating, 1.2mm Thickness together with all required accessories. Make: Netafim, Rain Bird, Metzger (Brown Color)	Mtr	47,500.00	
109	Providing Pressure Comp. Bug Dripper 20 PLH Make : Netafim / Naan Dan / Rain Bird	Mtr	200.00	
110	17mm Insert Fittings - Brown Color - Take Off, Elbow, Tees, End Cap / SCH TEE 3/4" X 1/2"	Set	500.00	
111	9" Long Lateral Hold Stake - MS Gavanized	Nos	11,875.00	
	SPRINKLER & ACCESSORIES			
112	Providing of Spray Pop-up sprinkler 4" (1.5 to 7 Mtr Radius) with Check Valve, Wiper Seal, Flow Shield complete with required nozzle Make : Rain Bird/Toro/Nelson	Nos	325.00	
113	Providing of Swing Joint 1/2" with PP Clamp Saddle with Chromed Nut Bolt & Nitrile Rubber Gasket Make: RainBird/Toro/Astore	Nos	325.00	
114	Providing of Gear driven Pop-up Sprinkler 4" (4" Pop Up hight from Bottom to Centre of Discharging Nozzle) from (9 to 14 Mtr Radius) with Check Valve, Inbuild pressure regulator & on off feature from top, Slip Clutch Mechenism complete with required nozzle Make : Rain Bird/Toro/Nelson	Nos	25.00	
115	Providing of Swing Joint 3/4" with PP Clamp Saddle Chromed Nut Bolt & Nitrile Rubber Gasket Make: RainBird/Toro/Astore	Nos	25.00	
	VALVES			
116	Providing of Various Valves with required Fittings & Tapping PP Clamp Saddles with Chromed Nut Bolt & Nitrile Rubber Ring a) PVC BUTTER FLY VALVE 75MM: GF / FIP / ASTORE	Nos	1.00	
117	b) PVC Ball Valve 63mm PN 16 Make: GF / FIP / ASTORE	Nos	6.00	
118	c) PVC Ball Valve 50mm PN 16 Make: GF / FIP / ASTORE	Nos	12.00	
119	d) PVC Ball Valve 40mm PN 16 Make: GF / FIP / ASTORE	Nos	2.00	
120	e) PVC Ball Valve 32mm PN 16 Make: GF / FIP / ASTORE	Nos	52.00	
121	f) PVC Flush Valve 40mm Make: Netafim/Finolex/Jain	Nos	100.00	
122	g) 1" Double Acting Air cum Vacum Release Valve Make: Bermad/ARI/Plasson with GM valve 1" Make: NIBCO/Zoloto	Nos	10.00	
123	h) Quick Coupling Hydrant valve 3/4" Make: Rain Bird/Toro with Six of Keys	Nos	50.00	
124	i) Rectangular Valve Box 12" Make: Carson Brooks/Rain Bird	Nos	64.00	
125	j) Water Meter Cum Solenoid - Hydrometer Valve 2"	Nos	4.00	
126	k) Pressure - Quick Releif Valve 2" - Hydraulic Type	Nos	4.00	
127	l) 1" Commination - Automatic Air Valve Make: Bermad/ARI/Plasson with GM valve 1" Make: NIBCO/Zoloto	Nos	4.00	
128	m) Round Valve Box 10" Make: Carson Brooks/Rain Bird	Nos	50.00	
129	n) Non Return Valve 2" - Brass	Nos	4.00	
	AUTOMATION			
130	Providing Automation Items for Irrigation with all its required accessories. a) Irrigation Controller 8 to 48 Station, Out Dorr, 230 VAC Unit, Capable of running 4 Independent Programs with Power Back up Lithium Coin-Cell Battery, with outdoor weatherproof Metal Box Controller 25 stn	Nos	1.00	
131	Controller 20 stn	Nos	2.00	
132	Controller 7 stan	Nos	1.00	
133	b) 1-1/2" Solenoid Valve - BSP Female Threaded, Pressure - 1 to 10 Bar Make: Toro/Rain-Bird/Bermad	Nos	12.00	

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
134	c) 1" Solenoid Valve - BSP Female Threaded, Pressure - 1 to 10 Bar Make: Toro/Rain-Bird/Bermad	Nos	52.00	
135	d) Direct Burrial Irrigation Automation Cable 2 Core 16 AWG Make: Paige/Rain Bird/Toro	Mtr	7,800.00	
136	e) Pressure Reducing Valve 2" Make: Bermad/Rain Bird/Netafim	Nos	4.00	
137	f) Weather Prrof Cable Connection DBY Make : 3M / Rain Bird	Nos	250.00	
138	g) Rain Sensor	Nos	4.00	
139	h) Votage Stabilizer 0.5 Kva	Nos	4.00	
FILTRATION UNIT				
140	Providing Fully Automatic Self Cleaing Filter, Pressure Differential Based, 80/110 Micron, Flanged End & all required Accessories	Nos	3.00	
141	a) Screen Filter Self Cleaning 2" - 16m3- Make: Arkal/Amiad/Filtomat	Nos	1.00	
142	b) Screen Filter Self Cleaning 2" - 9m3- Make: Arkal/Amiad/Filtomat	Nos	1.00	
142	c) Header Assembly 2" for Each Filter & Pump saction Made of Galavnized Pipes or PVC Sch 80 Pipe Fittings	Nos	4.00	
143	d) Glyserene Filled Pressure Gauge 2" Dia Make: Spherehot/Netafim/ Equiliant	Nos	4.00	
PUMP STATION				
144	Providing, of VFD Based Pump Station giving flow of 4.5 lps at 35 m head complete Set (1 working + 1 stand By) with Pressure Tank, Panel & all required accessories. Make: Grundfos/ITT/Lubi	set	3.00	
145	Providing, of VFD Based Pump Station giving flow of 2.5 lps at 35 m head complete Set (1 working + 1 stand By) with Pressure Tank, Panel & all required accessories. Make: Grundfos/ITT/Lubi	set	1.00	
INSTALLATION OF LANDSCAPE IRRIGATION SYSTEM				
146	Exacavating, Laying, Joiting & Commissioning PVC Pipes from 75mm OD to 25mm OD, Trench Size minimum 600mm Deep for Main Lines, 300mm to 450mm Deep for Submain Lines, Backfilling with compaction and removing excess soil up to 50m Lead from site. Includes Installation & Commissioning of all Irrigation hardwares like Sprinklers, Dripper, Drip Lines, Valves, Saddles, Swing Joints, Valve Boxes, Filter Unit & Automation Items Complete as per drawing, specifications, instruction & directions of the Engineer-in-charge.	Mtr	10,872.00	
147	Providing & Fixing Suitable Thrust Block for Main Line at Bend, Tee etc.	Nos	50.00	
148	Road Auguring	Mtr	100.00	
OPERATION & MAINTENANCE OF IRRIGATION SYSTEM				
149	Daily Operation of Irrigation System by using Automation, Routine Check up of Pump Station, Cleaning of Disc Filter, Cehcking Cable Connection, Valves & Servicing them as per requirement. Attending minor repair works as & when required. Maintaining Daily Log sheet provided.	Months	12.00	
AERATING SYSTEM				
150	Aerator Providing & Installation of 5 H.P. Aerator Unit Including of Black Float constructed of High Quality Polyethylene shell and filled with closed cell foam, proactive pockets molded into the float to 'snap in' light fixtures, Maintenance free - corrosion resistant marine grade 18 Guage/SS 316 grade stainless steel motor housing, g- type sealed, oil-cooled 3450/2875 RPM motor, Power control center with Industrial Grade Thermoplastic screen to keep debris out. (Make : Oase / Otterbine / Crystal) Test Parameters: Should be Approved & listed with ETL & ETL-C, Carrying independent CE Mark. Performance: Pattern: Tri-Star / Equinox Spray Hight: 4.6 Meter Spray Diameter: 0.9/3.8/6.1 m3/hr: 59m3 Voltage/Phase/Amp:400/3/4 Warranty : 5 Years - Minimum	Set	5.00	
151	Providing & Installation of MR/LED 20 Under Water Light 20 Watt (Set of 4 nos.)	Set	5.00	
152	Providing & Installation of Copper Armoured Cable 6 Sq mm x 4 Core	Mtr	1,200.00	
153	Providing & Installation of Copper Armoured Cable 1.5 Sq mm x 4 Core	Mtr	1,200.00	
154	Providing & Installation of Control Panel Nema-4 / IP 65 with Timer Unit	Nos	5.00	
155	Providing & Installation of Anchoring Unit - Inclusive of Eye Anchor Hook, Galvanize Chain / Wire 10mm	Set	5.00	
D	PLUMBING WORKS			

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
SANITARY INSTALLATIONS:				
156	Providing & fixing Handicap toilet set with European Closet & wash basin & all handicap requirement with dual flush tank, seat & lead (heavy duty) including C.I. Brackets, C.P. brass hinges, M.S. / C.I. painted brackets, Waste Coupling, 32mm size bottle trap etc. all Internal fittings complete with grab rails etc. rubber buffers, C.P nuts, bolts etc making holes in walls & floors, & finishing for ready to use. The rate includes all necessary connection charges as per product detail to the satisfaction of engr. incharge where required & the final handing over etc. complete as per specifications, drawings and as directed by the Engineer-in-charge. Make: Hindware - Matrix - Set 2 or Equivalent	Set	4.00	
157	Providing and Fixing Vitreous china Under Counter Wash Basin in white colour of approved or equivalent make and size. All junctions shall be sealed with silicon sealant. Rate quoted shall inclusive of required drilling, cutting to the size for embedding the wash basin (area of opening shall not be deducted for payment), providing SS pins, anchors, clamps, finishing junctions with plaster, etc. complete as per drgs and specifications and as directed by the Engineer -in - charge. Make: Hindware - Zen - 10049 or Equivalent	Each	24.00	
158	Providing and Fixing 15 mm dia. two way CP brass bib cock with wall flange and ceramic disc cartridge complete , including cutting and making good the walls wherever required, making all necessary connections etc. All complete as per directions of the Engineer-in-charge. Make: Jaquar - Florentine - FLR-5041N-G or Equivalent	Each	14.00	
159	Providing and fixing in position Vitreous China White Urinal Partitions of approved make and quality, including making holes in the wall, fastening the partitions to the wall with rawl plugs, SS screws, and grouting and finishing the walls to the required finish. Make: Hindware or Equivalent	Each	20.00	
160	Providing, Fixing, testing & commissioning 6 kg/ sq. cm SWR UPVC Pipe Selfit ISI marked brand as per IS 13592 complete including solvent cement jointing & hydraulic testing the joints & pipes as mentioned in the sepcification etc. and making connection with downtake wherever required to satisfaction of engr / arch with proper care, protecting fittings & pipes till the final handing over etc as directed by E-I-C complete as per specifications & drawing provided for all places, all heights & all levels, for the following diameter of pipes Make: Astral / Supreme or Equivalent. [A] 75 mm Nominal Diameter (Type B)	RMT	135.00	
161	[B] 110 mm Nominal Diameter (Type B)	RMT	60.00	
162	Providing and fixing on ceiling and wall unplasticised Rigid PVC SWR Ring Fit Pipes as per IS : 13592 Type A, including rubber rings, leaving 10 mm gap for thermal expansion for the following diameter of pipes, Make: Astral / Supreme or Equivalent. a) 110mm Internal Diameter	RMT	45.00	
163	Providing & fixing 'P' Trap of UPVC material having a water seal not less than 50mm with necessary distance piece complete, including cost of cutting & making the walls & floors as per specifications & drawing provided at all places, all levels & all height. Make: Astral or Equivalent.	Each	23.00	
164	Providing and fixing Multi Floor Trap of UPVC material having a water seal not less than 50mm with necessary distance piece, 40mm x 40mm 50mm inlet x 110mm dia outlet multiple inlet connector piece complete, including cost of cutting floors as per specifications & drawing provided at all places, all levels & all height. Make: Astral or Equivalent.	Each	23.00	
165	Providing & fixing Nahni Trap of UPVC material having a water seal not less than 50mm with necessary distance piece complete, including cost of cutting & making the walls & floors as per specifications & drawing provided at all places, all levels & all height. Make: Astral or Equivalent.	Each	17.00	

SR. NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	PREFERRED MAKE,BUT NOT LIMITED TO
WATER SUPPLY				
166	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-In-Charge. Make: Astral / Supreme or Equivalent. Concealed work including cutting chases and making good the walls etc. (v) 40mm nominal outer dia pipes	metre	50.00	
167	Providing and fixing CPVC Ball valves of the following sizes including cutting the pipes, solvent welding, complete as per the manufacturers standards and the direction of the Engineer-in-charge. Make: Astral or Equivalent (i) 32 mm Nominal bore.	Each	17.00	
168	(ii) 40 mm Nominal bore	Each	2.00	
169	(iii) 50 mm Nominal bore	Each	10.00	
MECHANICS (PUMPS, BORE WELL, STARTERS, CABLES, WATER COOLER & R.O. PLANT)				
170	Drinking Water Provisions - Water Cooler with R.O. System Providing & erecting combined R.O. Processing unit and Water Cooler. The R.O. Plant shall have a processing capacity of 50 LPH and the water cooler shall have a storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should be 19° C. The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel AISI 304, the tank in the water cooler shall be in Stainless Steel AISI 306L. The entire unit shall be of 5 Star IEEE Rating.	Each	1.00	