

Unit	Description	Comp. Rate
Day 09042501	1 स्मशानभूमी ए.पी.सी सिस्टिम, गॅस दाहिनी,विद्युत दाहिनी, इंजिनरेटर ऑपरेटिंगची कामे करणेसाठी अर्धकुशल कामगार पुरविणे. R.A. Unit : 1 / Day	981.01
Day 09042502	1 सांस्कृतिक भवनातील लाईट साऊंड,वातानुकुलीत यंत्रणा ऑपरेटिंगची कामे करणेसाठी अर्धकुशल कामगार पुरविणे. R.A. Unit : 1 / Day	981.01
Day 09042503	1 क्षेत्रिय कार्यालयाकडील दिवे दुरुस्ती व मनपा इमारतीमधील विद्युत विषयक दुरुस्तीची कामे करणेसाठी अर्धकुशल कामगार पुरविणे. R.A. Unit : 1 / Day	981.01
Day 09042504	1 विद्युत विषयक कामाकरिता अकुशल कामगार पुरविणे. R.A. Unit : 1 / Day	947.15
Day 09042505	1 स्मशानभूमी, सांस्कृतिक भवन, मनपा इमारती इ. ठिकाणी H.T लाईन ट्रान्सफार्मर, जनरेटर इ उपकरणाचे विद्युत विषयक कामे करणे करिता कुशल कामगार पुरविणे. R.A. Unit : 1 / Day	1021.78
Set 25032501	1 SITC of System for pool water for flow rate of 25 m3 to 30m3 per hour. The following system includes UV Lamps of high output type which is completely made in India for one module, a UV quartz jacket 1 SET UV jacket sealing rings, UV connector, its wiring kit. The UV system components majorly includes a SS316 reactor, UV nozzle, Control Panel, Ballast, UV Sensor & Monitor & required piping work with 5 years comprehensive maintenance. R.A. Unit : / Set	808390.44
Day 05052501	1 Assistant Chemist R.A. Unit : 1 / Day	1021.78
Day 05052502	2 Skilled Labour R.A. Unit : 1 / Day	1021.78
Day 05052503	3 Semi Skilled Labour R.A. Unit : 1 / Day	981.01
Day 05052504	4 Unskilled Labour R.A. Unit : 1 / Day	947.15
Day 07042501	1 पुणे मनपा मुख्य भवन व पुणे मनपाचे मालकीच्या इमारतीमध्ये दैनंदिन देखभाल दुरुस्तीची कामे करणेसाठी खालीलप्रमाणे कुशल व अकुशल कामगार आऊट सोर्सिंग पद्धतीने खात्याच्या मागणीनुसार व सोबतच्या अटी व शर्ती यांना अधीन राहून पुरविणे. (सदर कामगारानी दररोज पुणे मनपा मुख्य भवन येथे सकाळी ८ वा. हजर राहावयाचे असून खात्याच्या आवश्यकतेनुसार त्यांना कामाची जागा ठरवून देण्यात येईल. त्यानुसार त्या ठिकाणी काम करणे बंधनकारक राहील.) टीप: कामाच्या आवश्यकतेनुसार कामगार पुरविण्याची जबाबदारी ठेकेदाराची राहील. सुतार (कुशल कामगार) R.A. Unit : 1 / Day	963.94
Day 07042502	2 पुणे मनपा मुख्य भवन व पुणे मनपाचे मालकीच्या इमारतीमध्ये दैनंदिन देखभाल दुरुस्तीची कामे करणेसाठी खालीलप्रमाणे कुशल व अकुशल कामगार आऊट सोर्सिंग पद्धतीने खात्याच्या मागणीनुसार व सोबतच्या अटी व शर्ती यांना अधीन राहून पुरविणे. (सदर कामगारानी दररोज पुणे मनपा मुख्य भवन येथे सकाळी ८ वा. हजर राहावयाचे असून खात्याच्या आवश्यकतेनुसार त्यांना कामाची जागा ठरवून देण्यात येईल. त्यानुसार त्या ठिकाणी काम करणे बंधनकारक राहील.) टीप: कामाच्या आवश्यकतेनुसार कामगार पुरविण्याची जबाबदारी ठेकेदाराची राहील. प्लंबर (कुशल कामगार). R.A. Unit : 1 / Day	963.94

Day 07042503	3 पुणे मनपा मुख्य भवन व पुणे मनपाचे मालकीच्या इमारतीमध्ये दैनंदिन देखभाल दुरुस्तीची कामे करणेसाठी खालीलप्रमाणे कुशल व अकुशल कामगार आऊट सोर्सिंग पद्धतीने खात्याच्या मागणीनुसार व सोबतच्या अटी व शर्ती यांना अधीन राहून पुरविणे. (सदर कामगारानी दररोज पुणे मनपा मुख्य भवन येथे सकाळी ८ वा. हजर राहावयाचे असून खात्याच्या आवश्यकतेनुसार त्यांना कामाची जागा ठरवून देण्यात येईल. त्यानुसार त्या ठिकाणी काम करणे बंधनकारक राहील.) टीप: कामाच्या आवश्यकतेनुसार कामगार पुरविण्याची जबाबदारी ठेकेदाराची राहील. मजूर (अकुशल कामगार). R.A. Unit : 1 / Day	893.54
Metric Tonne 25032502	1 Fabrication Galvansing supply at sure how 132 kv double circuit lines 0.2 Panher conductor on Multi circuit tower for river crossing Narraow base lattices tower) with sets of stubs, superstructure, tempales, step bolt, U bolt, D shakales chain link etc complete as per approved design & drawing as per MSETCL approved R.A. Unit : 1 / Metric Tonne	109062.76
Metric Tonne 25032503	2 Supply at store of galvanised bolts and nuts with spring washers R.A. Unit : 1 / Metric Tonne	191775.68
Number 25032504	3 Disc insulator 120KN normal R.A. Unit : 1 / Number	1228.4
Number 25032505	4 0.2 Panther conductor STN R.A. Unit : 1 / Number	4460.82
Number 25032506	5 0.2 Panther conductor PA ROD R.A. Unit : 1 / Number	1613.28
Kilometre 25032507	6 GI earthwire 7/3.15mm R.A. Unit : 1 / Kilometre	63544.95
Number 25032508	7 Tension clamp for Gf earthwire 7/3.15mm R.A. Unit : 1 / Number	940.72
Number 25032509	8 22KV Danger board R.A. Unit : 1 / Number	347.4
Set 25032510	9 Anticlimping device with barbed wire R.A. Unit : 1 / Set	5681.68
Number 25032511	10 Earth bond R.A. Unit : 1 / Number	953.53
Kilometre 25032512	11 0.2 ACSR panther conductor R.A. Unit : 1 / Kilometre	225116.42
Kilometre 25032513	12 Preliminary survey GPS, theodolite/total station, marking rout 1 on topo sheets and village map representing actual field condition etc complete in all respect. R.A. Unit : 1 / Kilometre	8618.13
Kilometre 25032514	13 Detail survey including tower spotting and tower profile detail survey with GPS, total station digital theodolite etc authorities etc. R.A. Unit : 1 / Kilometre	19755.4
Kilometre 25032515	14 Check survey Submission of all respective R.A. Unit : 1 / Kilometre	8352.95
Cmt 25032516	15 Excavation: Black cotton soil/Submerged soil R.A. Unit : 1 / Cmt	403.16
Cmt 25032517	16 Concreting of foundation: M 10 (1:3:6) with graded metal for 5 foundation / bedding R.A. Unit : 1 / Cmt	7610.81
Cmt 25032518	17 Concreting of foundation: M 20 (1:1.5:3) with graded metal for foundation R.A. Unit : 1 / Cmt	9180.86

Metric Tonne 25032519	18 Providing and fixing in position Steel reinforcement in concrete foundation including supply of TMT bars with epoxy coating/Meta cam of various diameters to Rcc work like raft, footing of column etc, as per drawing and direction which will be furnished by the owner including cutting, bending hooking the bars, binding with binding wire or tackwelding etc. complete as directed. (Steel to be provided by contractor) R.A. Unit : 1 / Metric Tonne	104624
Number 25032520	19 Stub setting: 132KV MC Tower: 60 Degree R.A. Unit : 1 / Number	10938
Metric Tonne 25032521	20 Erection of 132KV M/C tower R.A. Unit : 1 / Metric Tonne	8651.27
Number 25032522	21 Pipe type earthing: Normal earthing including excavation of pits/ trenches, laying 10 of earthing pipe, strips, flats, etc supplying and laying salt and soft coke as directed and as per the drawing to be furnished by the MSETCL and back filling, complete in all respects R.A. Unit : 1 / Number	6592.84
Kilometre 25032523	22 stringing of 0.2 ACSR conductor 132 kV D/C on M/C tower alongwith earth wire R.A. Unit : 1 / Kilometre	125273
Metric Tonne 25032524	23 Dismantling of 132 kV D/C tower (1 Nos) R.A. Unit : 1 / Metric Tonne	6921
Per Tower 25032525	24 Removal of stub R.A. Unit : 1 / Per Tower	7070
Kilometre 25032526	25 Stringing of earthwire R.A. Unit : 1 / Kilometre	13636.26
Number 25032527	26 Electric tack welding (half round welding to GI Nuts & Bolts of tower from thread ends (Two spots to be welded to each Nut & 14 Bolts near thread end) and painting the welded portion with two 'coats of Zine rich paint upto 132/220 KV DC. Two sections of each tower. R.A. Unit : 1 / Number	7027.09
Number 15052501	1 Hilight 12V - 400 W Led Driver (Water proof power supply) R.A. Unit : 1 / Number	3892
Number 15052502	2 2 V - LED module R.A. Unit : 1 / Number	42
Per Month 08052501	1 Minor and Major Repairs R.A. Unit : 1 / Per Month	197500

Per 1 TR 12062501	1 Comprehensive AMC For Chiller Unit 1) Inspecting the plant/system and carry out preventive maintenance as per the standard practice for every month in a year . 2) Checking the refrigeration system, motor and starters and ensuring healthy condition of the plant. 3) Checking the system for any leaks and rectification of leaks if found. 4) Taking set of readings and evaluating to ensure satisfactory performance of the plant. 5) Checking the Refrigeration control system for operation and adjusting the settings. 6) To check the function of VFD drive, preventive maintenance of the VFD drive & suggestions for improvements if any if applicable. 7) De scaling the condensers for water-cooled units if found necessary. (once a year). 8) Checking the functioning of compressor and its accessories. 9) Cleaning the evaporator / condenser coils once a year if found necessary and cleaning of chiller if found necessary. 10) Lubricating the bearings of motors, & fans when found necessary. 11) Replenishment of refrigerant gas because of fair wear and tear. 12) Annual checking of compressor oil and changing if found necessary. 13) Overhauling/repairing the components of the equipment at site or in service station as and when required including providing loan compressor for screw/scroll units if available in case of failure of the compressor. 14) Checking, of the microprocessor controller for its proper functioning and repair/replacement of the same if found necessary. 15) Attending to the plant when called upon. 16) Reporting the healthiness of the plant and suggesting improvements if any. 17) To visit and check the operating condition of the machine. 18) To review operation log records and alarm history. 19) To check the system operating pressures and temperatures to ensure proper operating conditions. 20) To check for sign of refrigerant leakage and remedy. 21) To check operation of safety control/microprocessor, Adjust if required. 22) To check the compressor motors starter and associated interlocks etc. 23) To advise customer for routine maintenance, upkeep and record of alarm history files. 24) preventive services of AHU and attending any number for breakdown calls for it 25)attending any number of breakdown calls for cooling tower R.A. Unit : 1 / Per 1 TR	6400
TR 12062502	1 Comprehensive AMC For Chiller Unit 1) Inspecting the plant/system and carry out preventive maintenance as per the standard practice for every month in a year . 2) Checking the refrigeration system, motor and starters and ensuring healthy condition of the plant. 3) Checking the system for any leaks and rectification of leaks if found. 4) Taking set of readings and evaluating to ensure satisfactory performance of the plant. 5) Checking the Refrigeration control system for operation and adjusting the settings. 6) To check the function of VFD drive, preventive maintenance of the VFD drive & suggestions for improvements if any if applicable. 7) De scaling the condensers for water-cooled units if found necessary. (once a year). 8) Checking the functioning of compressor and its accessories. 9) Cleaning the evaporator / condenser coils once a year if found necessary and cleaning of chiller if found necessary. 10) Lubricating the bearings of motors, & fans when found necessary. 11) Replenishment of refrigerant gas because of fair wear and tear. 12) Annual checking of compressor oil and changing if found necessary. 13) Overhauling/repairing the components of the equipment at site or in service station as and when required including providing loan compressor for screw/scroll units if available in case of failure of the compressor. 14) Checking, of the microprocessor controller for its proper functioning and repair/replacement of the same if found necessary. 15) Attending to the plant when called upon. 16) Reporting the healthiness of the plant and suggesting improvements if any. 17) To visit and check the operating condition of the machine. 18) To review operation log records and alarm history. 19) To check the system operating pressures and temperatures to ensure proper operating conditions. 20) To check for sign of refrigerant leakage and remedy. 21) To check operation of safety control/microprocessor, Adjust if required. 22) To check the compressor motors starter and associated interlocks etc. 23) To advise customer for routine maintenance, upkeep and record of alarm history files. 24) preventive services of AHU and attending any number for breakdown calls for it 25)attending any number of breakdown calls for cooling tower R.A. Unit : 1 / TR	6400
Metre 30062501	1 132 kV grade, XLPE, Single core, 1000 sq mm, Copper cable R.A. Unit : 1 / Metre	13100
Number 30062502	2 Normal Straight through joints suitable for 132 kV, single Core, 1000 sq mm cable R.A. Unit : 1 / Number	285000
Metre 30062503	3 Supply of HDPE pipes for Bridge sing (132KV 1 Ckt) 250 mm R.A. Unit : 1 / Metre	2310
Number 30062504	4 Single phase link box with SVL, as required R.A. Unit : 1 / Number	38500

Number 30062505	5 Single phase link box without SVL, as required R.A. Unit : 1 / Number	23432
Metre 30062506	6 Single core 500 sqmm copper conductor PVC insulated 6.6 KV grade sheath bonding cable R.A. Unit : 1 / Metre	6500
Kilometre 30062507	7 Fiber Optic Cable 48 Fibre R.A. Unit : 1 / Kilometre	174395.05
Each 30062508	8 48C OPGW Joint Box 48 Core OPGW 2 way Joint Box R.A. Unit : 1 / Each	10786.14
Metre 30062509	9 Supply of HDPE pipes for FO cable 40 mm R.A. Unit : 1 / Metre	101.32
Metre 30062510	10 PVC Warning Tape R.A. Unit : 1 / Metre	58
Number 30062511	11 Route Marker R.A. Unit : 1 / Number	1850
Number 30062512	12 Joint Marker R.A. Unit : 1 / Number	1850
Number 30062513	13 GI Earth Spike Rod at Each Joint Bay R.A. Unit : 1 / Number	15000
Running Metre 30062514	14 Laying of 132 kV single core, 1000 sq. mm cable in copper flat formation, tagging, fixing, pipes for drain & gate xing as per drg & specification in trench pipes, ducts by pulling, drg etc., including cables, using std cable installation equipment, fixing of route markers etc. & as directives of Engr. In charge etc. R.A. Unit : 1 / Running Metre	425
Number 30062515	15 Handling & making of normal straight through joints for 132 kV S/C power cable with all consumables at site & connection of copper bonding cables to single phase link box as well as to earthingwell as point, i.e. connection to copper rod, including erection of single phase link box & fixing of copper rod for earthing in all types of soil etc. R.A. Unit : 1 / Number	67950
Lumsum 30062516	16 Charges for conducting precommissioning test from CPRI & successful commissioning of circuit R.A. Unit : 1 / Lumsum	226500
Cubic Metre 30062517	17 132 kV Laying of cable along the route: 0.370 km Excavation in all types of soil including road cutting, dewatering, making compacted sand sub base of 100 mm thick & backfilling using excavated soil, RCC slabs, warning tape route markers, etc. including road crossing as per directives of Engineer in-charge. R.A. Unit : 1 / Cubic Metre	1014.82
Cubic Metre 30062518	18 Concreting of foundation Providing & casting in situ cement concrete of trap metal of size 20 to 40 mm as applicable including cost of cement, sand, metal, water, grame work, finishing, compacting, coping and curing for 21 days complete as per drawing and direction of Engr. in charge in the following grades M 20 (1:1.5:3) with graded metal for foundation R.A. Unit : 1 / Cubic Metre	7703.36
Kilometre 30062519	19 Fibre optics cable (laying & termination) R.A. Unit : 1 / Kilometre	6545.31
Each 16072501	1 Supplying and erecting armoured control cable with ISI mark stranded / solid copper conductor 1.1 KV grade complete erected on wall / panel or in provided trench in an approved manner - 10 core 2.5 sq.mm. R.A. Unit : / Each	436
Metre 16072502	2 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16 SWG GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware - For control cables R.A. Unit : / Metre	676

Each 16072503	3 Providing and erecting space heaters in each section of panel. R.A. Unit : / Each	6642
Each 16072504	4 Ultrasonic level transmitter - Radar type level transmitter for raw water pumphouse. Designing, Supplying, Installing, commissioning & testing of Ultrasonic Radar type Ultrasonic level transmitter CE marked with following technical parameters at Treated Water Pumphouse and Interfacing with PLC panel including mounting arrangement. Output - 4 - 20 mA / HART, Power supply - 24V DC ext., Display - 4" LED, Range- 0 to 30 mtrs, Accuracy - +/- 0.25% of Full scale or better, Enclosure- IP 68, Mounting - On PLC panel. R.A. Unit : / Each	69207
Each 16072505	5 Pressure Transmitter for pumping machinery. - Designing, Supplying, Installing, commissioning & testing of pressure transmitter CE marked with following technical parameters at Treated Water Pumphouse and Interfacing with PLC panel including mounting arrangement. Output 4-20 mA / HART, Power supply - 24V DC ext., Display - 4" LED, Accuracy - +/- 0.1 % of full scale or better, Enclosure- IP 68. R.A. Unit : / Each	36774
Each 16072506	6 Power Analyser - Designing, Supplying, Installing, commissioning & testing of Power Analyser interfacing to PLC Panel with Modbus communication port, as per IEC 62053 and in the prescribed format including mounting arrangement. R.A. Unit : / Each	33265
Each 16072507	7 PLC panel for pumping machinery with four pumps. - Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 1000 mm X 700 mm X 1500 mm (LBH), fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens grey color. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipments & instruments at Raw water Pumphouse PLC shall have Ethernet port & protocol for Modbus TCP communication with following IO. DI – 16 num, DO – 16 num, AI – 16 num, AO – 8 num., 7 inch color TFT HMI complete with programming shall be provided to interact with PLC. The panel shall include all the accessories (not limited to following) to achieve purpose of smooth & trouble free operation of pump house. MCB 10A DP – 1 num, MCB 4A DP – 4 num, 24 VDC Power Supply 10A – 1 num , Push Buttons – 7 num, Selector Switch - 2 num, Control Contactor – 4 num, Annunciator with 6 Windows NO to NC Type, Electronic Hooter – 1 num, Control Transformer – 1 num, Emergency PB – 1 num, Panel Cooling Fan – 1 num, Panel Light with Door Switch –1 num, Control Indication Lamp – 5 num, Wiring + TB etc. – 1 lot, Hardware – 1 lot. R.A. Unit : / Each	216189
Each 16072508	8 Scada system for raw water pumphouse. - Design, manufacture, supply, installation, testing and commissioning of SCADA System for pump house. Windows based PC with latest configuration & OS complete with necessary office & antivirus Softwares. PC configuration shall not be less than Intel i5 10th Gen CPU, 16 GB Ram, 128 GB SDD, 500 GB HDD, DVD RW, Rs232 & Rs485 port, 2 RJ45 ports, Keyboard, Optical Mouse, 32 inch colour TFT Monitor, Latest Windows Pro OS, Microsoft Office & Antivirus & Internet Security software for 3 years license. SCADA Software of reputed company with developer & runtime license with minimum 256 number of Tags with following features & functions 1. Supervise real-time data in the form of graphical presentation 2. Control pumping processes locally or through Remote locations 3. Dynamic process Graphic, It should resemble the process mimic. SCADA should have good library of symbols so that develop the mimic as per required. When operator sees the screen he should know what's going in plant. 4. Alarm summery & Alarm history, SCADA system must be able to detect, display, and log alarms and events. When there are problems the SCADA system must notify the operators to take corrective action. 5. Acquire real-time data as well as logs data with Real time trend & Historical time trend. 6. Web Connectivity, Real-time displays can be accessed on remotely attached PCs and notebooks using internet. SCADA Programming shall be done so as operator can visualize and control complete pump house operation from operator desk. All important alarms & events shall be logged. All the data from field instruments & equipments shall be logged. There shall be provision to take reports in required formats of real time & historical data, events & alarms. There shall be provision of broadcasting messages, emails of reporting information. There shall be provision of access security. An Industrial grade Din rail mounting Ethernet switch with 5 ports shall be provided. An Industrial grade modem with 4G/5G GSM connectivity shall be provided. R.A. Unit : / Each	274638

Each 16072509	9 Secondary work station PC - Windows based PC with latest configuration & OS complete with necessary office & antivirus Softwares. PC configuration shall not be less than Intel i5 10th Gen CPU, 16 GB Ram, 128 GB SDD, 500 GB HDD, DVD RW, Rs232 & Rs485 port, 2 RJ45 ports, Keyboard, Optical Mouse, 32 inch color TFT Monitor, Latest Windows Pro OS, Microsoft Office & Antivirus & Internet Security software for 3 years license. R.A. Unit : / Each	75450
Each 16072510	10 Supply, Installation, Testing, Integration & Commissioning of 49" LCD monitor at Conf. Room for display of total water system (Online) R.A. Unit : / Each	84421
Metre 16072511	11 Power Cable - Supplying, installing, testing and commissioning FR, XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall in GI tray or in ground suitable for supplied D. C. Voltage. complete as per specification no. CB-LT/CU R.A. Unit : / Metre	112
Metre 16072512	12 Communication Cable - Supplying and installing FR PVC sheathed HDPE insulated copper cat-6 cable with rodent proof and anti termite jacket suitable for networking compliant with ANSI/TIA-568. 2-D standards in provided conduit / casing-capping as per specification no. WG-ELVC/NC R.A. Unit : / Metre	138
Metre 16072513	13 Designing, supplying, installing, commissioning & testing with Terminating & Interfacing of 3 Pairs x 1.0 sq.mm. as per IS 694 copper Shielded, twisted, multi stranded armoured cable on wall in GI tray or on ground. R.A. Unit : / Metre	254
Metre 16072514	14 Designing, Supplying, Installing, commissioning & testing with Terminating & Interfacing of 8 Pairs x 1.0 sq.mm as per IS 694 copper shielded, twisted, multi stranded armoured cable on wall in GI tray or on ground. R.A. Unit : / Metre	668
Cubic Metre 16072515	15 Disposal of surplus excavated materials upto specified lead and all lifts including loading, unloading, stacking and spreading as directed by Engineer-in-Charge etc. complete. R.A. Unit : / Cubic Metre	590.98
Metre 16072516	16 Providing and laying RCC (M-150) cable duct of size given below for laying electric cable including form work for centering M.S. bar reinforcement, necessary excavation bolder filling, PCC (M100), compacting, curing, plastering, including providing and fixing 35 X 35 X 5 mm M.S. angles, RCC pre cast cover of Adequate length with 100 mm over lap on either walls etc. complete and providing RCC pre cast covers. - Cable duct 2 X 3 tier - 1000 W X 1000 D. R.A. Unit : / Metre	2107
Per Unit 22072501	1 Supplying and erecting integrated LED Post Top 45W IP65 & IK10 class having die cast aluminium housing with UV protected polycarbonate diffuser, having system lumens output of Min.4500 Lumens, min. efficacy of 105 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140- 240V, inbuilt surge protection of 2 kV, Life class of 30,000 Hrs at L50B50 , including driver complete with minimum 2 Year warranty as per specification No FG-ODF/PT. R.A. Unit : 1 / Per Unit	8906
Each 24022509	1 Wireless-Addressable IOT Base CMS PANEL (CENTRALISED MONITORING SYSTEM) : 1. Input Voltage: 180VAC-240VAC 2. Operating Voltage: 03VDC-12VDC3. Battery Charging Voltage: 12.5VDC-13.98VDC 4. Battery Type: Dry cell rechargeable Battery 5. Battery Voltage: 10VDC-12.5VDC 6. Battery Current: 0Amp-3Amp 7. Button Type: Push To On Button used for Reset & Silent. 8. Input Voltage Protection 9. Display Type: 7" Screen touch Display. 10. Display Operating Voltage (VDC) : 5 11. Display Max. Operating Current: 530mA 12.Display Size: 7 Inch 13. Display Resolution: 800*480Pixel 14.Display Touch Type: Capacitive 15. Display Backlight: LED 17. Zone Capacity: 0-30 18. Max. Device Capacity: 0-255 Devices. 19. Alarm Display: Zone, Detector, Date, Time, Landmark, Detection Type, Event Type, Time out, Event Count. 20. Communication Type: Radio Frequency (RF) 21. Frequency: 333.9MHz, 433.9MHz, 2.36GHz. 22. Hooter Decibel: 90-110db Adjustable 23. Material of Hooter (Sunder): Plastic 24. Operating Voltage of Hooter: 9VDC-12VDC 25. Panel Box Type: Metal with High Quality Powder Coating. 26. Automatic Battery Charging Facility 27.Portel Service : Provide system configuration control throw a web browser via internet 28. Log Record: 100% of Installed Devices. 29.Ambient Humidity:10% to 80% 30.Data availability: 24/7 Monitoring 16.AC Voltage Protection R.A. Unit : 1 / Each	270500

Each 24022510	2 Wireless Addressable Hooter control panel with releater (Device Control Panel with Hooter): 1. Input Voltage: 180VAC-240VAC 2. Operating Voltage: 10VDC-12VDC 3. Battery Charging Voltage: 12.5VDC-13.98VDC 4. Battery Type: Dry cell rechargeable Battery 5. Battery Voltage: 10VDC-12.5VDC 6. Battery Current: 1.3Amp 7. Button Type: Push To Off Button used for Reset Function 8. Input Voltage Protection 9. Control panel Capacity: 0-100 Devices. 10. Communication Type: Radio Frequency (RF) 11. Frequency: 333.9MHz, 433.9MHz, 2.36GHz 12. Hooter Decibel: 90-130dB Adjustable. 13. Material of Hooter (Sounder): Plastic 14. Operating Voltage of Hooter: 9VDC-12VDC 15. Control Panel Box Type: Metal with High Quality Powder Coating 16. Automatic Battery Charging Facility. R.A. Unit : 1 / Each	21875
Each 24022511	3 Wireless Addressable SD (Smoke Detector): 1. Voltage range-3-9 VDC 2. Standby current-05-10 µA 3. Alarm Current: 05-10mA 4. Sensor: Optical sensor 5. Modulation Method-FM / AM 6. LED Indication 7. Address Type: unique address 8. Transmission Type: RF 9. Low Battery Signal 10. Communication Type: RF Type 11. Frequency Used: 333.9MHz, 433.9MHz, 2.36GHz 12. PCB Type: Multi-layer PCB 13. Moisture protection: with high quality, transpernt, Elcoat base, conformal coating. Ensures protction for PCBs and components against moisture, dust, oxidation & Water Resist. 14. Type of material: ABS Grade/White color 15. Optical Chambers Material: High Quality Plastic Granule's / Black Color 16. Battery Type: 9VDC Alkaline Battery 17. Battery Life: 2-3 Years / Consider daily 2-3 Signals. R.A. Unit : 1 / Each	3790
Each 24022512	4 Wireless Addressable MCP (Manual Call Point): 1. Voltage range-3-10 VDC 2. standby current- 0-5 µA 3. Operating Current: 10-20mA 4. Button Type: Push To On Type Switch 5. Modulation: FM modulation 6. Address Type: unique address 7. Transmission Type: RF 8. Communication Type: RF Type 9. Frequency Used: 333.9MHz, 433.9MHz, 2.36GHz 10. PCB Type: Multi-layer PCB 11. Moisture protection: with high quality, transpernt, Elcoat base, conformal coating. Ensures protction for PCBs and components against moisture, dust, oxidation & Water Resist. 12. Material Type: ABS Type 13. Battery Type: 9VDC Alkaline Battery 14. Battery Life: 3-4 Years / Consider daily 2-3 Signals. R.A. Unit : 1 / Each	2635
Each 24022513	5 Wireless Addressable Beam Detector: 1. Input Voltage: 230VAC 2. Operating Voltage: 12-24VDC 3. Standby Current: 17 µA max 4. Sensor: Infrared Beam 5. Sensitivity: Selectable 6. Addressing Method: unique address embedded 7. Frequency: 433.9MHz, 333MHz, 2.3GHz R.A. Unit : 1 / Each	49700
Each 14022424	1 Supply , installation testing and commissioning of Decorative Tubular Pole size 22/25 mm , Height 7 Mtr , Base plate size 210mm*210mm*10mm. R.A. Unit : 1 / Each	21200
Per No 22072502	1 Supply, Installation, Testing & Commissioning of BIS approved under IS 10322 part 5/ sec 5 (Shape) RGBW (W=3000K/4000K) IP67 rated (Square/Rectangle/Circular) shape Projector Light Fixture 60W with Visor. Product should have highly thermal efficient aluminium pressure die cast(ADC 12) along with clear toughened glass with impact tressistance IK07. Product should have Lumen 2400 Lumens with efficacy > 40 Lumen/Watt when all LED are in ON condition. Product should have different beam angle Beam Angle : 10°/15°/20°/25°/40°/60°. Lens, made of VDE/UL approved UV resistant, non yellowing PC material. Product Should be equipped with 8 bit/16 bit DMX 512 based decoder or data processing device with in the product maintaing same IP rating. Product should be equipped with BIS approved IP65/67 rated Constant Voltage Power Supply. Product should be operational on 240V AC without any extrenal/remote led driver. Product should have CLASS I electrical safety. Product should have IP67 rated industrial grade locked moulded cable connector for DMX signal. Product should be equipped with LED of reputed LED manufacturer CREE/ OSRAM. LED's LM80 should declare >50,000 @25°C. Product ambient temperature should be (-20°C to 60°C). LM80/BIS report/certificates should be provided at time of supply. R.A. Unit : 1 / Per No	16200

Per No 22072503	2 Supply, Installation, Testing & Commissioning of BIS approved with RGBW (W=3000K/4000K) IP67 rated Linear WallWasher Light 24W (1000mm) with Visor. Product should have highly thermal efficient Extruded aluminium with Die casted end caps. Product should have clear Toughened glass with impact resistance IK07. Product should have Lumen output 960 Lumen with efficacy > 40 Lumen/Watt when all LED are in ON condition. Product should have different beam angle Beam Angle : 10°/20°/40°/60°/10X20° Lens, made of VDE/UL approved UV resistant, non yellowing silicon material. Product Should be equipped with 8bit/16 bit DMX 512 based decoder or data processing device with in the product maintaing same IP rating. Product should be equipped with BIS approved IP65/67 rated Constant Voltage Power Supply. Product should be rated DC 24V and operational on 240V AC with any extrenal/remote led driver. Product should have CLASS III electrical safety. Product should have IP67 rated industrial grade locked moulded cable connector for DC voltage supply. Product should be equipped with LED of reputed LED manufacturer CREE/ OSRAM. LED's LM80 should declare >50,000 @ 25°C. Product ambient temperature should be (-20°C to 60°C). LM80/ BIS report / certificates should be provided at time of supply. R.A. Unit : 1 / Per No	13700
Per No 22072504	3 Supply, Installation, Testing & Commissioning of BIS approved with RGBW (W=3000K/4000K) IP67 rated Linear WallWasher Light 18W (1000mm) with Visor. Product should have highly thermal efficient Extruded aluminium with Die casted end caps. Product should have clear Toughened glass with impact resistance IK07. Product should have Lumen output 720 Lumen with efficacy > 40 Lumen/Watt when all LED are in ON condition. Product should have different beam angle Beam Angle : 10°/20°/40°/60°/10X20° Lens, made of VDE/UL approved UV resistant, non yellowing silicon material. Product Should be equipped with 8bit/16 bit DMX 512 based decoder or data processing device with in the product maintaing same IP rating. Product should be equipped with BIS approved IP65/67 rated Constant Voltage Power Supply. Product should be rated DC 24V and operational on 240V AC with any extrenal/remote led driver. Product should have CLASS III electrical safety. Product should have IP67 rated industrial grade locked moulded cable connector for DC voltage supply. Product should be equipped with LED of reputed LED manufacturer CREE/ OSRAM. LED's LM80 should declare >50,000 @ 25°C. Product ambient temperature should be (-20°C to 60°C). LM80/ BIS report / certificates should be provided at time of supply. R.A. Unit : 1 / Per No	13250
Per No 22072505	4 Supply, Installation, Testing & Commissioning of IP67 Power Supply 24V output. Power consumption-200W R.A. Unit : 1 / Per No	8500
Per No 22072506	5 Supply, Installation, Testing & Commissioning of Signal Booster/Splitter with 8Way output for spreading and amplyfing the DMX Data signals in multiple directions, Input-220-240V AC. The splitter should be of same make as the fixtures and the controller should be BIS approved. signals in multiple directions, Input-220-240V AC. R.A. Unit : 1 / Per No	8294
Per No 22072507	6 Supply of Enclosure for Power Supply, Splitter, DMX Controller : Size 450 x 300 x 250 mm, plain sides, grey cover, Degree of protection: IP 66/ IP 67, Impact strenght: IK 08, Material, base: Fiberglass reinforced polycarbonate, Material, cover: Polycarbonate, Material, cover screws: Polyamide, Material, gasket: Polyurethane, Colour: RAL 7035. R.A. Unit : 1 / Per No	1650
Each 13082501	1 Design, manufacture, supply, installation, testing and commissioning of indoor type PLC panel of size approx. 1000 mm X 700 mm X 1500mm (LBH), fabricated out of min. 2 mm thick CRCA sheet powder coated to Siemens gray color. The Panel shall be provided with reputed make PLC with following accessories as well as input output configuration. The PLC shall be programmed with IEC 61131 standards for control, monitoring and communication of equipments & instruments at Raw water Pumphouse PLC shall have Ethernet port & protocol for Modbus TCP communication with following IO DI –32 num DO – 32 num AI –24 num AO – 8 num. 7 inch color TFT HMI complete with programming shall be provided to interact with PLC The panel shall include all the accessories (not limited to following) to achieve purpose of smooth & trouble free operationof pump house. MCB 10A DP – 1 num MCB 4A DP – 4 num 24 VDC Power Supply 10A – 1 num Push Buttons – 7 num Selector Switch - 2 num Control Contactor – 6 num Annunciator with 6 Windows NO to NC Type Electronic Hooter – 1 num Control Transformer – 1 num Emergency PB – 1 num Panel Cooling Fan – 1 num Panel Light with Door Switch – 1 num Control Indication Lamp – 5 num Wiring + TB etc – 1 lot Hardware – 1 lot R.A. Unit : 1 / Each	273330

Each 13082502	2 Design, manufacture, supply, installation, testing and commissioning of SCADA System for WTP Plant, Sand Filter beds & pump house. Windows based PC with latest configuration & OS complete with necessary office & antivirus softwares. PC configuration shall not be less than Intel i5 10th Gen CPU, 16 GB Ram, 128 GBSDD, 500 GB HDD, DVD RW, Rs232 & Rs485 port, 2 RJ45 ports, Keyboard, Optical Mouse, 32 inch color TFT Monitor, Latest Windows Pro OS, Microsoft Office & Antivirus & Internet Security software for 3 years license SCADA Software of reputed company with developer & runtime license with minimum 512 number of Tags with following features & functions. 1. Supervise real-time data in the form of graphical presentation. 2. Control WTP processes locally or through Remote locations. 3. Dynamic process Graphic, It should resemble the process mimic. SCADA should have good library of symbols so that develop the mimic as per required. When operator sees the screen he should know what's going in plant. 4. Alarm summary & Alarm history, SCADA system must be able to detect, display, and log alarms and events. When there are problems the SCADA system must notify the operators to take corrective action. 5. Acquire real-time data as well as logs data with Real time trend & Historical time trend. 6. Web Connectivity, Real-time displays can be accessed on remotely attached PCs and notebooks using internet SCADA Programming shall be done so as operator can visualize and control complete WTP operation from operator desk. All important alarms & events shall be logged. All the data from field instruments & equipments shall be logged. There shall be provision to take reports in required formats of real time & historical data, events & alarms. There shall be provision of broadcasting messages, emails of reporting information. There shall be provision of access security. An Industrial grade Din rail mounting ethernet switch with 5 ports shall be provided. An Industrial grade modem with 4G/5G GSM connectivity shall be provided. R.A. Unit : 1 / Each	380268
Per No 08082501	1 SITC of Raw Sewage Pump (With Accessories) Providing and fixing Raw sewage pump set Discharge 705M³/Hr. Motor Rating 75KW/100HP Head :- 23Mtr. Liquid Sp Gravity 1.02 RPM:- 960, Voltage:- 415 V, Frequ.:- 50 Hz, 3phase AC, Insulation Class:-F, Protection IP 68, Solid handling requirement 100 (mm Dia Max) Cable length 23 Mtr. Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Part Material :- Casing :- CI, Shaft :- SS410, Impeller :- CF8M, Control & Power cable:- PVC+ Cu, Motor Mech. Seal C vs SiC, Pump Mech. Seal SiC vs SiC, Accessories :- 1) Power Cable 5mtr 2) LT Monitor unit 3) Pedestal Auto Rail Coupling with integral bend (With Auto Coupling PIN) + Foundation bolt (Each) 4) Guide Rail 5) Lifting Chain (5 Mtr.) 6) Dual Rail Guide Pipe (11 Mtr.) R.A. Unit : 1 / Per No	1062211
Per No 08082502	2 SITC of SAS Pump (Surplus Activated Sludge) (With Accessories) Providing and fixing SAS sewage pump set SAS ??? Discharge 50M³/Hr. Motor Rating 2.5KW/4HP Head :- 7Mtr., Liquid Sp Gravity 1.03, RPM:- 1433, Voltage:- 415 V, Frequ.:- 50 Hz, 3phase AC, Solid handling requirement 100(mm) cable length 10 mtr. Insulation Class:-F, Protection IP 68, Part Material :- cable:- PVC+ Cu, Impeller:- CF8M, Mech. Seal SiC/SiC/NBR, Casing :- IS210 FG260, Shaft :- A276 TYPE 410 Motor Protection :- Winding Overheating, Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Accessories :- 1) Power Cable 5mtr(extra), 2) LT Pump monitoring Unit 3) Auto coupling with integral bend (with Auto coupling PIN)+ Foundation bolt(Each) 4) MS, Lifting chain (5 mtr) 5) Guide rail 6), Dual Rail guide pipe MS (11mtr) R.A. Unit : 1 / Per No	172821
Per No 08082503	3 SITC of RAS Pump (Return Activated Sludge) (With Accessories) Providing and fixing RAS sewage pump set RAS ??? Discharge 100M³/Hr. Motor Rating 3KW/4HP Head :- 5Mtr., RPM :- 1000, Voltage:- 415 V, Frequ.:- 50 Hz, 3phase AC, Class:-F, Protection IP 68, Solid handling requirement 100 (mm), Cable Length 10 Mtr. Motor Standard :- IEC60034, Liquid Sp Gravity 1.03, Part Material :- Pump & Motor Casing :- CIFG260, IS 210, Shaft :- AISI410, Impeller :- CF8M-SS316, Control & Power cable:- PVC Sheathed + Copper Conductor (STD), Motor Mech. Seal:- Carbon v/s cast Cr Mo Steel, Pump Mech. Seal :- SiC vs SiC, Motor Protection :- Winding Overheating, Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Accessories :- Accessories :- 1) Power Cable 5mtr 2) LT Pump Monitoring unit 3) Auto Rail Coupling with integral bend (With Auto Coupling PIN) + Foundation bolt (Each) 4) Guide Rail 5) MS Lifting Chain (5 Mtr.) 6) Dual Rail Guide Pipe MS (11 Mtr.) R.A. Unit : 1 / Per No	198529
Per No 22082501	1 6 / 7 / 8 मीटरचे GI/FRP पोल उभे करणे R.A. Unit : 1 / Per No	870
Per No 11062501	1 SMOKE Extractor Fan 20000 CFM R.A. Unit : 1 / Per No	115443

Per No 11062502	2 SMOKE Extractor Fan 30000 CFM R.A. Unit : 1 / Per No	159201
Per No 11062503	3 Supply, Installation, Testing & Commissioning of Exhaust / Fresh Air Cabinet type Inline Exhaust fans with mounting fixtures and fasteners - capacity 650 cfm / 12 mmWG net external static each. The fans must statically and dynamically balanced as per ISO 1940. Hot Dip Galvanised baseplate shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	11374
Per No 11062504	4 Supply, Installation, Testing & Commissioning of Exhaust / Fresh Air Cabinet type Inline Exhaust fans with mounting fixtures and fasteners - capacity 800 cfm / 12 mmWG net external static each. The fans must statically and dynamically balanced as per ISO 1940. Hot Dip Galvanised baseplate shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	11374
Per No 11062505	5 Supply, Installation, Testing & Commissioning of Exhaust / Fresh Air Cabinet type Inline Exhaust fans with mounting fixtures and fasteners - capacity 900 cfm / 12 mmWG net external static each. The fans must statically and dynamically balanced as per ISO 1940. Hot Dip Galvanised baseplate shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	14295
Per No 11062506	6 Supply, Installation, Testing & Commissioning of Cabinet type fresh air fan filter units with mounting fixtures and fasteners - capacity 3,600 cfm / 25 mmWG net external static each. The fans must statically and dynamically balanced as per ISO 1940. Hot Dip Galvanised baseplate shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	49516
Per No 11062507	7 Supply, Installation, Testing & Commissioning of Lift Well fans - terrace mounted type, complete with anti-vibration mounting fixtures and fasteners - capacity 7,000 cfm / 20 mmWG static each. The fans must be statically and dynamically balanced as per ISO 1940. Hot Dip Galvanized baseplate and Aluminum cowls shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	49020
Per No 11062508	8 Supply, Installation, Testing & Commissioning of Staircase Pressurization fans - Terrace mounted type, complete with anti-vibration mounting fixtures and fasteners - capacity 10,000 cfm / 35 mmWG static each. The fans must be statically and dynamically balanced as per ISO 1940. Hot Dip Galvanized baseplate and Aluminum cowls shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	64555
Per No 11062509	9 Supply, Installation, Testing & Commissioning of Staircase Pressurization fans - Terrace mounted type, complete with anti-vibration mounting fixtures and fasteners - capacity 20,000 cfm / 35 mmWG static each. The fans must be statically and dynamically balanced as per ISO 1940. Hot Dip Galvanized baseplate and Aluminum cowls shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	94550
Per No 11062510	10 Supply, Installation, Testing & Commissioning of Smoke Extractor fans - vertical - terrace mounted type, (suitable for operation for minimum two hours at 250°C), complete with anti-vibration mounting fixtures and fasteners - capacity 15,000 cfm / 25 mmWG static each. The fans must be statically and dynamically balanced as per ISO 1940. Hot Dip Galvanized baseplate and Aluminum cowls shall form a part of the scope of this item. (Makes - Kruger / Systemair / Maico) R.A. Unit : 1 / Per No	92634
Per No 11062511	11 Circular type Exhaust Fan 100 cfm R.A. Unit : 1 / Per No	6356
Per No 11062512	12 Circular type Exhaust Fan 400 cfm R.A. Unit : 1 / Per No	9128
Per No 11062513	13 F.A. Damper R.A. Unit : 1 / Per No	3972

Per No 11062514	14 Grill R.A. Unit : 1 / Per No	6089
Per No 11062515	15 GSS Damper R.A. Unit : 1 / Per No	9786
Per No 11062516	16 Collar Damper R.A. Unit : 1 / Per No	5458
Per No 11062517	17 Collar Damper With Actuator 0.0 to 0.5 R.A. Unit : 1 / Per No	9531
Per No 11062518	18 Fire Damper with Actuator 0.5 to 1.0 R.A. Unit : 1 / Per No	9531
Per No 11062519	19 Ex. Disc Valve R.A. Unit : 1 / Per No	985
Per No 11062520	20 3 Slot Diffuser R.A. Unit : 1 / Per No	1321
Per No 11062521	21 Jet Diffuser R.A. Unit : 1 / Per No	1793
Per No 18102401	1 TYPE OF MACHINE - MULTIFUNCTION MACHINE PRINT TECHNOLOGY - LASER TYPE OF PRINTING - MONOCHROME (BLACK) CARTRIDGE TECHNOLOGY - SEPARATE DRUM AND TONER (MONO COMPONENT) A4 SPEED -24 PPM OR MORE A3 SPEED -12 PPM PLATEN/FLATBED SIZE - PLATEN A3 PAPER SIZE (ORIGINAL/IMAGE) - A3 PAPER TRAY - YES BYPASS TRAY - YES MEMORY - 0 SSD (OPTIONAL) - 0 DISPLAY - YES AUTO DUPLEX - YES AUTO DUPLEX PAPER GSM -65 TO ORIGINAL DOCUMENT FEEDER TYPE - DADF SCAN SPEED A4 -35/25 (300dpi Sent) 25(600dpi,copy) ZOOM -25% TO 400% BLANK PAGE REMOVAL - COPY/PRINT/SCAN MOBILE PRINT - YES MOBILE SCAN - YES COPIES -1 TO 999 SCAN FEATURE AVAILABILITY - YES TONER TECHNOLOGY - LASER TONER - Npg 59 Toner FILE FORMAT - Tiff,jpeg,pdf OPERATING SYSTEM - WINDOWS-8.1 WINDOWS-10,11& WINDOWS SERVER2012/ WINDOWS SERVER 2012 R2, WINDOWS SERVER 2016,19,22 MACOS (10.12 OR LATER) PAGE DESCRIPTION LANGUAGE - UFR II RAM -1024 EACH MAIN PAPER TRAY CAPACITY (NUMBER) - 250 WI-FI AVAILABILITY - YES R.A. Unit : 0 / Per No	87880
Square Feet 10092523	1 SITC Extreme Narrow Bezel Video Wall 0.178 cm Bezel to Bezel Video Wall, Non-glare panel Wide viewing angle Display – Diagonal Size 1.38 m, Panel Type - IPS Resolution 1,920 x 1,080, Pixel Pitch (HxV) - 0.63x0.63 Brightness (Typ) - MAX 500 nit. Contrast Ratio 1.000:1 Viewing Angle (H/V) - 178/178. Response Time - 8ms Colour Gamut - 72%, Glass Haze - 28% H-Scanning Frequency - 57.3kHz ~ 70kHz Maximum Pixel Frequency - 78MHz HDMI In-2. Dm: DVI In-1. Version of HDMI - 2. Version of DP-1.2 Version of HDCP 2.2, USB-1, IR In Yes Stereo Mini Audio In-Yes. Audio Out Jack Video Out Yes. Power Out - No W 11.9 X H 6.7 R.A. Unit : 1 / Square Feet	21482.76
Each 14022425	1 SUPPLY AND INSTALLATION DECORATIVE DESIGN UMBRELLA TYPE TUBULAR POLE SIZE -137MM HEIGHT 3 METER UMBRELLA SIZE IS 24INCH UMBRELLA LED 40 WATT IP 66 WITH 3YEARS WARRANTY POLE SIZE IS 22/25 MM AND 40 WATT TUBE LIGHT WITH 2YEARS WARRANTY AND POLE HOLE HEIGHT IS 3 FOOT BASE PLATE 210MM*210MM*10MM[Non CSR] R.A. Unit : 1 / Each	21200
Metre 15092501	1 Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(E), 3 x 95 sq. mm. aluminium conductor R.A. Unit : 1 / Metre	1354
Metre 15092502	2 Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(E), 3 x 300 sq. mm. aluminium conductor R.A. Unit : 1 / Metre	2764

Metre 15092503	3 Supplying , erecting & terminating XLPE insulated galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 95 sq. mm. aluminium conductor R.A. Unit : 1 / Metre	1778
Metre 15092504	4 Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 300 sq. mm. aluminium conductor R.A. Unit : 1 / Metre	3327
Running Metre 10102501	1 Providing and fixing kerbstone with led lighting system as per following specifications:dimensions with vertical mounting legs with 10mm horizontal square shape mild steelreinforcements. Illuminated kerb stone having visible dimensions :-500mm x 150mm x150mm.(as per irc - 86-1983) 80mm legs having ms reinforcements shal be embedded inbt/concrete road surface.the kerb stone should have kerb angle of 45 degree, with rubber plugs at both ends of the kerbstones (2 nos)having load carrying capacity - vertical :1465kg, horizontal : 2349 (certified by govt. Recoganized bodies)having thermal stability - : -40 to +120 degree celcius (certified by govt. Recoganized bodies. Illuminated kerb stones including : ingrace protection and connector rating ip67, electrical wire -(as per is: 694), led strip (as per lm:80) standard. Including for electrical fixing -frp junction box consisting of - 10amp. Switch module power supply(smpps)having input voltage - 230v ac, output voltage 36v dc, 2 pole mcb. Illuminated kerb stones having warranty for 3 years.illuminated kerbstone shall be fixed into cast-in-situ cement concrete of m20 grade atbase, back filling and grooves, including dismantling, fixing, removal of dismantled material and cleaning etc. Complete. The colour of kerb stone shall be provided as directed by engineer in charge. R.A. Unit : 1 / Running Metre	7473
Number 15092505	1 Providing and fixing Raw sewage pump set Discharge 1060M3/Hr. Head :- 16 Mtr.,Motor Rating 125Hp, Fluid density 998kg/cum., Voltage:- 415 V, Frequ. :- 50 Hz, 3phase AC, Insulation Class:-H, Motor Enclosure- IP 68, Solid handling requirement :- 100mm Dia Max, cable length 20 mtr. Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Part Material :- Casing :- CI, Shaft :- SS410, Impeller :-CF8M-SS316, Control & Power cable:- PVC+ Cu, Motor Mech. Seal SiC vs SiC, Pump Mech. Seal SiC vs SiC, Accessories :- 1)LT pump Monitor unit, 2)Pedestal Auto Rail Coupling with integral bend(with Auto coupling PIN)+Foundation Bolt (Each)3) Guide Rail 4) Lifting Chain(12 mtr) 5) Dual Rail guide pipe(12 mtr) R.A. Unit : 1 / Number	1422250
Number 15092506	2 Providing and fixing Raw sewage pump set Discharge 940M3/Hr. Head :- 25.50 Mtr.,Motor rating 150hp Fluid density 998kg/cum., Voltage:- 415 V, Frequ. :- 50 Hz, 3phase AC, Insulation Class:-H, Motor Enclosure- IP 68, Solid handling requirement :- 100mm Dia Max, cable length 20 mtr. Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Part Material :- Casing :- CI, Shaft :- SS410, Impeller :-CF8M-SS316, Control & Power cable:- PVC+ Cu, Motor Mech. Seal SiC vs SiC, Pump Mech. Seal SiC vs SiC, Accessories :- 1)LT pump Monitor unit, 2)Pedestal Auto Rail Coupling with integral bend(with Auto coupling PIN)+Foundation Bolt (Each)3) Guide Rail 4) Lifting Chain(12 mtr) 5) Dual Rail guide pipe(12 mtr) Providing and fixing Raw sewage pump set Discharge 940M3/Hr. Head :- 25.50 Mtr.,Motor rating 150hp Fluid density 998kg/cum., Voltage:- 415 V, Frequ. :- 50 Hz, 3phase AC, Insulation Class:-H, Motor Enclosure- IP 68, Solid handling requirement :- 100mm Dia Max, cable length 20 mtr. Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Part Material :- Casing :- CI, Shaft :- SS410, Impeller :-CF8M-SS316, Control & Power cable:- PVC+ Cu, Motor Mech. Seal SiC vs SiC, Pump Mech. Seal SiC vs SiC, Accessories :- 1)LT pump Monitor unit, 2)Pedestal Auto Rail Coupling with integral bend(with Auto coupling PIN)+Foundation Bolt (Each)3) Guide Rail 4) Lifting Chain(12 mtr) 5) Dual Rail guide pipe(12 mtr) R.A. Unit : 1 / Number	1253300

Number 15092507	3 Providing and fixing SAS sewage pump set SAS पंप Discharge 60CuM/Hr. Head :- 7Mtr., Motor rating 4hp , Liquid Sp Gravity 1.05, Voltage:- 415 V, Frequ.:- 50 Hz, 3phase AC,Solid handling requirement 100(mm) cable length 10 mtr. Insulation Class:-H, Protection IP 68, Part Material :- cable:- PVC+ Cu, Impeller :-CF8M, Mech. Seal SiC/ SiC/NBR, Casing :- IS210 FG260, Shaft :- A276 TYPE 410 Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Accessories :- 1) LT Pump monitoring Unit 2) Auto coupling with integral bend (with Auto coupling PIN)+ Foundation bolt(Each) 3) SS Lifting chain (5 mtr) 4)Guide rail 5) Dual Rail guide pipe MS (5mtr) R.A. Unit : 1 / Number	151219
Number 15092508	4 Providing and fixing SAS sewage pump set SAS पंप Discharge 75CuM/Hr. Head :- 10Mtr., Motor rating 7hp , Liquid Sp Gravity 1.05, Voltage:- 415 V, Frequ.:- 50 Hz, 3phase AC,Solid handling requirement 100(mm) cable length 10 mtr. Insulation Class:-H, Protection IP 68, Part Material :- cable:- PVC+ Cu, Impeller :-CF8M, Mech. Seal SiC/ SiC/NBR, Casing :- IS210 FG260, Shaft :- A276 TYPE 410 Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Accessories :- 1) LT Pump monitoring Unit 2) Auto coupling with integral bend (with Auto coupling PIN)+ Foundation bolt(Each) 3) SS Lifting chain (5 mtr) 4)Guide rail 5) Dual Rail guide pipe MS (5mtr) R.A. Unit : 1 / Number	177151
Number 15092509	5 Providing and fixing RAS sewage pump set RAS पंप Discharge 110CuM/Hr. Head :- 7Mtr., Motor rating 7hp , Liquid Sp Gravity 1.05, Voltage:- 415 V, Frequ.:- 50 Hz, 3phase AC,Solid handling requirement 100(mm) cable length 10 mtr. Insulation Class:-H, Protection IP 68, Part Material :- cable:- PVC+ Cu, Impeller :-CF8M, Mech. Seal SiC/ SiC/NBR, Casing :- IS210 FG260, Shaft :- A276 TYPE 410 Motor Protection :- Winding Overheating , Mechanical Seal Leakage, Terminal Chamber Moisture, Reverse Rotation, Low & High Liquid Level Sensor Accessories :- 1) LT Pump monitoring Unit 2) Auto coupling with integral bend (with Auto coupling PIN)+ Foundation bolt(Each) 3) SS Lifting chain (5 mtr) 4)Guide rail 5) Dual Rail guide pipe MS (5mtr) R.A. Unit : 1 / Number	167062
Day 22082304	1 Supplying, fixing, and configuring of Full HD Commercial LED/LFD TV Monitor set 32 inch-Make- Sony, Panasonic, Samsung, LG, VU, Sharp (Rate per day) R.A. Unit : 1 / Day	1000
Day 22082305	2 Supply, Installation, Testing & Commissioning of SATA Surveillance Hard Disk 4TB. Make- Western Digital, Seagate (Rate per day) R.A. Unit : 1 / Day	300
Day 22082306	3 Supply, Installation, Testing & Commissioning of IP 8 Ch. Network Video Recorder, up to 8-ch IP, Support up to 8MP recording, 1 SATA interfaces up to 8TB, 2way audio input, Audio output 1ch RCA, Synchronise playback 8ch., 16:9 mode screen- 3/4/5/7/9, Decoding Format- Ultra H.265,H.265,H.264, Live view/playback- 1X4K@30FPS, 2X4MP@30FPS, 4X1080P@30FPS, 8X720P@30FPS, Incoming bandwidth 60Mbps, Outgoing bandwidth 64Mbps, Remote users-128, Alarm in-4ch., Alarm out-1ch., Video Analytics Detection- People Counting, Face Detection, Intrusion, Audio Detection, auto tracking etc., Video Analytics Search-Face Search & Behaviour Search, Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication, This product should be manufactured at OEM's own manufacturing plant-accordingly BIS Certificate, UL Listed Certificate & UL Test Report Certificate of Conformity, Data-sheet, OEM's Authorization & Support Certificate for this project Compulsory. Honeywell, Bosch, Sony, UNV, Axis, Pelco (With all required cabling & Accessories) (Rate per day) R.A. Unit : 1 / Day	400

Day 22082307	4 Supply, Installation, Testing & Commissioning of IP 16 Ch. Network Video Recorder, up to 16-ch IP, Support up to 12MP recording, 2 SATA interfaces up to 16TB, 2way audio input, Audio output 1ch RCA, Synchronise playback 16ch., 16:9 mode screen- 3/4/5/7/9/10/12/16, Decoding Format- Ultra H.265,H.265,H.264, Live view/playback-3X12MP@25FPS, 4X4K@30FPS, 9X4MP@25FPS, 16X1080P@30FPS, Incoming bandwidth 160Mbps, Outgoing bandwidth 320Mbps, Remote users-128, Alarm in-8ch., Alarm out-2ch., Video Analytics Detection- People Counting, Face Detection, Intrusion, Audio Detection, auto tracking etc., Video Analytics Search-Face Search & Behaviour Search, Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication, This product should be manufactured at OEM's own manufacturing plant- accordingly BIS Certificate, UL Listed Certificate & UL Test Report Certificate of Conformity, Data-sheet, OEM's Authorization & Support Certificate for this project Compulsory. Honeywell, Bosch, Sony, UNV, Axis, Pelco (With all required cabling & Accessories) (Rate per day) R.A. Unit : 1 / Day	800
Day 22082308	5 Supply, Installation, Testing & Commissioning of 5MP Bullet Camera- 1/2.7" CMOS, ICR, 2592X1944 @20fps, 2560x1440@30fps, Ultra 265 / H.265 / H.264 / MJPEG, Triple streams, DC 12V & PoE, 120dB WDR, Built-in Mic, IP67, Fixed Lens (4mm, 6mm), IR range: up to 30m, IR anti-reflection window, built-in bracket, Starlight, 9:16 Corridor Mode, HLC, Smart functions like- People Counting, Face Detection, Intrusion, Audio Detection etc., Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication, UL Listed, IP67 Lab Test Report & UL Lab Test Report Compulsory. Make- Uniview, Bosch, Sony, Pelco, Honeywell (With all required cabling & Accessories) (Rate per day) R.A. Unit : 1 / Day	500
Day 22082309	6 Supply, Installation, Testing & Commissioning of 4/5MP Bullet Camera- 1/2.7" CMOS, ICR, 2592X1944 @20fps, 2560x1440@30fps, Ultra 265 / H.265 / H.264 / MJPEG, Triple streams, DC 12V & PoE, 120dB WDR, Built-in Mic, IP67, Motorized Automatic Focusing Varifocal Lens 2.7-13.5mm, IR range: up to 50m, Starlight, Digital Defog, ONVIF, 9:16 Corridor Mode, HLC, Audio in/out, Alarm in/out, MicroSD storage support up to 128GB, Built-in Smart functions- People Counting, Face Detection, Intrusion, Audio Detection etc., Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication, This product should be manufactured at OEM's own manufacturing plant- accordingly BIS Certificate, UL Listed Certificate & UL Test Report Certificate of Conformity, IP67 Test Report, Data-sheet, OEM's Authorization & Support Certificate for this project Compulsory. Honeywell, Bosch, Sony, UNV, Axis, Pelco (With all required cabling & Accessories) (Rate per day) R.A. Unit : 1 / Day	800
Per Job 10112502	1 Renew all wire ropes & chains, repair or replace conductor cable, hoist way and machine room elevator wiring. Systematically examine and adjust the following: Machine, worm gear, thrust bearings drive sheave bearings, brake contact, linings & components.. ?Examine& adjust the controller, selector, leveling devices, cams, relays, Pce's trans diary and other electrical& electronic components and devices. ? Check and adjust the governors, shaft assembly, bearings, contacts and governor jaws. Replacement of Faulty Parts ? Car & Hall mechanical buttons, Position indicators for the same, Car direction indicators and all other car landing signal fixtures as installed. Deflector or secondary sheave bearings, Car and counter weight guide rails and buffers top & bottom Limit Switches and such other parts checking and adjusting & repair or replacement as required. ? interlock on hoist way door, guides, ARD's checking and repairing/ Replacement, Car door hangers, door contact, safety shoe, load weighing equipment, CAR frame, CAR safety mechanism and platform checking's and re-adjustments if required. Parts Included in the Contract (These parts should be service monthly and as per requirement they should be replaced and repaired) ? All controller parts like microprocessor cards, transformers, Power contractors, and control relays in controller's etc. ? Main Motor, Gear internal parts, Main Ropes, Safety Governor rope, Main sheaves, Diverter sheave etc. ? Shaft Equipment's like Trailing cables, limit switches, landing door & car door switches. (wiring equipment, etc)? Car micro push buttons, indicator PCBs & landing indicators PCBs buttons etc. Other mechanical works. ? Automatic Rescue Device (ARD) R.A. Unit : 1 / Per Job	9871.66
Day 17112501	1 अर्धकुशल कामगार पुरविणे R.A. Unit : 1 / Day	1071.11
Day 17112502	1 अकुशल कामगार पुरविणे R.A. Unit : 1 / Day	1073.8

ITEM 08022405	1 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	430000
ITEM 08022406	2 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	250000
ITEM 08022407	3 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	179687
ITEM 08022408	4 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	199700
Kilogram 08022409	5 Deleted from store department 08022024 R.A. Unit : 1 / Kilogram	275
ITEM 08022410	6 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	55937
ITEM 08022411	7 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	54687
ITEM 08022412	8 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	61200
ITEM 08022413	9 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	53100
ITEM 08022414	10 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	7800
ITEM 08022415	11 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	1325.8
Kilogram 08022416	12 Deleted from store department 08022024 R.A. Unit : 1 / Kilogram	275
ITEM 08022417	13 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	8250
ITEM 08022418	14 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	62000
ITEM 08022419	15 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	377700
ITEM 08022420	16 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	65400
ITEM 08022421	17 Deleted from store department 08022024 R.A. Unit : 1 / ITEM	85312
Per No 19112501	1 SITC of Mini Panel PU Membrane size: 117mm Dia X 1360mm Air Flow :-2m3/hr to 20 m3/hr R.A. Unit : 1 / Per No	2500
Per No 19112502	1 SITC of Diffuser Ear clamp (Set of 2) - MOC SS304 120mm R.A. Unit : 1 / Per No	360
Per No 19112503	1 SITC of O-rings R.A. Unit : 1 / Per No	100
Per No 19112504	1 SITC of Wedges R.A. Unit : 1 / Per No	325

Number 12052501	1 Supply, Installation, Testing & Commissioning of Dual Delegate Interface Dual Delegate mode for two microphones and two voting and card panels Two microphone/line inputs Outputs to headphones or loudspeakers Range of mounting options Use for entrance/exit registration R.A. Unit : 1 / Number	128935.8
Metre 12052502	2 Supply, Installation, Testing & Commissioning of System installation cable Creation of custom length network cables Low smoke zero halogen to comply with safety and environmental standards (100 mtr) R.A. Unit : 1 / Metre	100320
Number 12052503	3 Supply, Installation, Testing & Commissioning of DCN Connectors contains female and male connectors that can be used with the 100 m (328 Ft.) DCN Installation Cable R.A. Unit : 1 / Number	2630.08
Number 12052504	4 Supply, Installation, Testing & Commissioning of Pluggable Microphone Long Stem Uni-directional microphone on adjustable stem Built-in pop and windshield R.A. Unit : 1 / Number	38140.2
Number 12052505	5 Supply, Installation, Testing & Commissioning of Push Microphone Control Panel Stylish and modern design (IF award) Microphone on/off button Colored status indicator ring One microphone control button Three-color illuminated ring around the microphone button which can show the following states: - Red - microphone is active - Flashing red* - last minute of speech time is active Green - the delegate is listed in the request list - Flashing green - the delegate is the first in the request list and the next one to get the floor Yellow* - the delegate is part of the Notebook and can control its microphone without interaction of the operator R.A. Unit : 1 / Number	11768.4
Number 12052506	6 Next-level performance with a remarkably small and versatile device for Conference Systems up to 750 devices. Pre-installed and configured Windows 2016 Server OS, Conference software and DHCP server to reduce installation time with 2 Ethernet ports to separate the network from the office network solid state disk to reduce boot time and increase reliability shall be mounted under a desk, behind a display or in rack. Intel i7 8700 processor (3.2 GHz, up to 4.6 GHz with Intel Turbo Boost technology, 12 MB cache, 6 cores) 16 GB DDR4-2666 non-ECC SDRAM (2 x 8 GB) 256 GB HP Z Turbo Drive PCIe SSD 2 x 1 Gbps Ethernet adapter BOSCH DICENTIS R.A. Unit : 1 / Number	910290
Per No 13112502	1 SITC of Geared Brake Motor operated "Screenmat" Step-type Mechanical fine bar Screen suitable for channel dimensions: Channel width: 1200 mm, Channel depth: 1600 mm SWD: 900 mm, Avg. bar spacing: 6 mm, Bar size: 2 mm thick lamellas, Angle of inclination: 40 deg. To horizontal MOC of screen: SS 316, Peak Flow per screen: 30 MLD, Vertical discharge height for accommodating conveyor: 670 mm. -Including common control panel for finescreen and belt conveyor with upstream type level sensor. R.A. Unit : 1 / Per No	1594500
Per No 13112503	2 SITC of MSEP Belt conveyor of size 600 mm width and 4500 mm length (C-C). R.A. Unit : 1 / Per No	304500
Number 20112504	1 PUMP FOR TRANSFER OF EFFLEUNT TO MBBR REACTOR Supplying Non-Clog Submersible Pump suitable for Sewage/liquid waste application with standard MOC & duty points as below Head up to 10 meter 1 HP (up to 9000 LPH) R.A. Unit : 1 / Number	84606
Number 20112505	1 SLUDGE PUMP FOR TRANSFER OF THE SLUDGE FROM BOTTOM OF PTS & STS TO CENTRIFUGE Supplying Non-Clog Submersible Pump suitable for Sewage/liquid waste application with standard MOC & duty points as below , Head up to 10 meter, 1 HP (up to 9000 LPH) R.A. Unit : 1 / Number	84606
Number 20112506	1 SITC for Air Blowers Type : Positive Displacement Rotary Twin Lobe Make : Everest/KPT/Equivalent Air Flow : 75 M3/HR Pressure : 0.4 kg/sqcm Power : 415V, 3 Phase R.A. Unit : 1 / Number	99570

Number 20112507	1 MOTOR FOR AIR BLOWER Providing, erecting and giving test and trial of foot mounted TEFC motor 1500 RPM, squirrel cage induction motor, Conforming to IS 12615:2011 of efficiency IE3 premium having continuous rating suitable for operation at 415 volt±10%, 3 phase, 50 Hz±5% with F class insulation temperature rise limited to class B insulation Make: CROMPTON GREAVES/ABB/Equivalent R.A. Unit : 1 / Number	23401
Number 20112508	1 DIFFUSER FOR AT Diffuser :- SSI Fine bubble EPDM Membrane diffuser with fixed arrangement size 65mm OD*1000mm length air flow rate : 7 to 8 m3/per HourMake: OTT/Rehau/Equivalent R.A. Unit : 1 / Number	3200
Cubic Metre 20112509	1 MEDIA FOR THE MBBR TANK MEDIAMedia for Mbbbr reactor self- supporting, cylindrical shape, with external fins, media height 16 mm, media dia 22 mm, Specific gravity 0.99 -0.95 gms/cm3, Surface area 450 m2/m3, voidage > 98%, color black surface area 450m2/m3 नॉन dsr, मान्य दर R.A. Unit : 1 / Cubic Metre	9000
Square Metre 20112510	1 TUBE SETTLER MEDIAMOC : PP/PVC R.A. Unit : 1 / Square Metre	8842
Kilogram 20112511	1 PRESSURE SAND FILTERProviding, Fabricating, erecting, testing and commissioning pressure vessel fabricated in MS plate on provided foundation including epoxy paint.MS plate R.A. Unit : 1 / Kilogram	236
Kilogram 20112512	1 flanges Providing, fabricating, erecting, MS flanges slip on type (all tables) of required size and thickness with both side machined MJP ELE & Mech. DSR 2023-24, PW 10 Page 18Up to 300 NB R.A. Unit : 1 / Kilogram	171
Kilogram 20112513	1 ACTIVATED CARBON FILTER Providing, Fabricating, erecting, testing and commissioning pressure vessel fabricated in MS plate on provided foundation including epoxy paint. MS plate R.A. Unit : 1 / Kilogram	236
Kilogram 20112514	1 flanges MJP ELE & Mech. DSR 2023-24, PW 10 Page 18 R.A. Unit : 1 / Kilogram	171
Number 20112515	1 PRE & POST DISINFECTION DOSING SYSTEM Edose/ EquivalentType : Electronic ControlInternal Wetted parts : PolypropyleneFlow Rate : 0 - 3Litres / Hr @ 3.0 kg/cm2Dosing Tank (1 No.) : 60 Lt rDosing Pump : 2 Nos. R.A. Unit : 1 / Number	9940
Number 20112516	1 LIME DOSING SYSTEM Edose/ EquivalentType : Electronic ControlInternal Wetted parts : PolypropyleneFlow Rate : 0 - 3Litres / Hr @ 3.0 kg/cm2Dosing Tank (1 No.) : 60 Lt rDosing Pump : 2 Nos. R.A. Unit : 1 / Number	9940
Number 20112517	1 ALUM DOSING SYSTEMMake : Edose/ EquivalentType : Electronic ControlInternal Wetted parts : PolypropyleneFlow Rate : 0 - 3Litres / Hr @ 3.0 kg/cm2Dosing Tank (1 No.) : 60 Lt rDosing Pump : 2 Nos. R.A. Unit : 1 / Number	9940
Number 20112518	1 PAC DOSING SYSTEM Edose/ EquivalentType : Electronic ControlInternal Wetted parts : PolypropyleneFlow Rate : 0 - 3Litres / Hr @ 3.0 kg/cm2Dosing Tank (1 No.) : 60 Lt rDosing Pump : 2 Nos. R.A. Unit : 1 / Number	9940
Number 20112519	1 POLY DOSING SYSTEM Edose/ EquivalentType : Electronic ControlInternal Wetted parts : PolypropyleneFlow Rate : 0 - 3Litres / Hr @ 3.0 kg/cm2Dosing Tank (1 No.) : 60 Lt rDosing Pump : 2 Nos. R.A. Unit : 1 / Number	9940
Number 20112520	1 SITC for Agitator for chemical mixing tank Flange mounted , speed 80-100 rpm ,CI made, 0.5 hp motor 3 phase R.A. Unit : 1 / Number	22000

Number 20112521	1 FLASH MIXER CUM NEUTRALIZATION TANK MIXER Design, Supply, Installation, Testing & Commissioning of Flash Mixer R.A. Unit : 1 / Number	32249
Each 20112522	1 Consultancy Charges for ETP project at Kamla Neharu Hospital, Manglwar Peth (Bed Capacity- 430) E- quotation R.A. Unit : 1 / Each	100000
Number 20112523	1 FLOCCULATION TANK MIXER SITC for Flocculator, flonge mounted speed 20 rpm, MOC – CI,motor three phase 1.5 hp non dsr R.A. Unit : 1 / Number	58295
Number 20112524	1 PUMP FOR PSF & ACF Providing, Erecting and giving test of submersible pump set conforming to IS 8034 and motor conforming to IS 9283, with water proof winding. Pump shall be suitable for various delivery head and discharge with stainless steel shaft. Motor suitable for working on 415± 10%, 3 Phase, 50 Hz, AC supply, with cable guard, thrust carbon/ fiber bearing to withstand entire hydraulic thrust. The pump set shall be suitable for direct coupling with suitable suction strainer. Pump should have suitable discharge out let as per manufacturers design. Antithrust stram lined on non return valve should be provided with the pump. 3 meter submersible copper conductor cable in single/ double run and 2 pairs of suitable size erection clamp 10 mm thick shall be provided with each pump Submersible Pump 150 Dia (with Bronze/Stainless Steel Impeller up to 8 stages 1.5 HP 1 Working+1 Standby Make :Kirloskar/Equivalent MJP ELE & Mech. DSR 2023-24, PM 1-2 Page 1 R.A. Unit : 1 / Number	32868
Per Kilogram 20112525	1 Providing, Fabricating, erecting, testing and commissioning pressure vessel fabricated in MS plate on provided foundation including epoxy paint R.A. Unit : 1 / Per Kilogram	236
Per No 20112526	1 SITC for Sludge dewatering unit type basket centrifuge unit ,MS material ,size 12 inch ,belt v belt, bag -PP, motor 1 hp R.A. Unit : 1 / Per No	99964
Per Kilogram 20112527	1 Microbial Culture R.A. Unit : 1 / Per Kilogram	130
Per Kilogram 20112528	1 Alum R.A. Unit : 1 / Per Kilogram	11
Per Kilogram 20112529	1 Lime R.A. Unit : 1 / Per Kilogram	28
Per Kilogram 20112530	1 Hypochlorite R.A. Unit : 1 / Per Kilogram	48
Per Kilogram 20112531	1 Polyelectrolyte R.A. Unit : 1 / Per Kilogram	495
Per Month 20112532	1 Operation and maintenance charges (dsr rate) R.A. Unit : 1 / Per Month	3554.25
Number 20112533	1 CPVC ADHESIVE SOLUTION 724 – 946 ml. R.A. Unit : 1 / Number	2873
Kilogram 20112534	1 PAC R.A. Unit : 1 / Kilogram	33.75
Number 20112535	1 ELECTROMAGNETIC FLOW METER SITC for Electromagnetic flow meter Intergral mounting flonge type line size -40 mm . MS body full bore with Teflon lining input supply 230 V AC output 4-20 mA/RS485 R.A. Unit : 1 / Number	52000

Number 1512202501	1.1 CO2 Gas (Carbon Di Oxide), CH4 Gas (Methane), O2Gas (Oxygen) and H2S Gas (Hydrogen sulphide) Detector with Alphanumeric LCD Display. G Gas Sensor Range Resolution Accuracy 1) CO2 NDIR 0-100% v/v 0.1% +2% 2) CH4 NDIR 0-100% v/v 0.1% +2% 3) O2 Electrochemical 0-25% v/v 0.1% +1% 4) H2S Electrochemical 0-1000 ppm 1ppm +2% The instrument shall have following features on a minimum. 1) Dual audible alarm ports 2) visual alarm LEDs 3) Vibration alarm 4) IP-65 water-resistant/dust proof design 5) Calibration and bump test lock out or reminder controls 6) Automatic backlighting at alarm 7) Impact resistant over-mould body, RFI shielded body 8) Built-in data logger 9) The instrument shall be of portable type with carrying case. 10) The gas detector shall have features of self-diagnostic facilities to scan all Parameters and provide a READY display for safe use and also provide FAULT diagnostics facilities in the event of any parameter or pump being at fault. 11) The instrument shall be able to operate in the ambient conditions between 5 deg C to + 55deg C. 12) The sensor shall be Gas specific, interference free type. 13) Sampling shall be based on auto sampling with in-built pump. 14) Response time shall be < 30 Seconds to reach 90%of measured value R.A. Unit : 1 / Number	97700
Per No 2711202501	1 Providing and Supplying Silencer of 8" size suitable for Turbo Blower discharge line with following specifications: 1. Material of construction: SPHC 2. Flange: ANSI Class 150, RF type 3. Acoustic absorption material: Mineral Wool (50T) and Cerak Wool (Spun Ceramic Fiber – 25T) 4. Acoustic Absorption Layers: Perforated Plate (SPHC, 1.6T) and 50 Mesh Galvanized Steel Screen 5. Color: RAL 7035 / Equivalent Shade 6. Dimensions: Nominal Dia – 390 mm; Length 1 – 1240 mm; Length 2 – 1000 mm (Total Length 2240 mm) R.A. Unit : / Per No	88000
Per No 2711202502	2 Providing and Supplying Check Valve of 8" size, with following specifications: 1. Dual Plate check valve type, ASA 150/PN 16 As per API 594 2.Disc Material: ASTM A351 CF8 3. Seat: VITON 4.Hinge Pin / Guide / Stop Pin: ASTM A276 Type 304 5.Spring: SS304 6.Face-to-Face Dimension: API 6D 7.Flange Standard: ANSI B16.5 8.Washer: A276 Type 304 9.Set Screw: SCM425 10.Eye Bolt: SS275 R.A. Unit : / Per No	48000
Per No 2711202503	3 Providing and Supplying Expansion Bellow of 8" size, suitable for blower discharge line, with following specifications: 1. Construction: SUS Bellows with SUS Guide Ring 2. Flanges: ANSI Class 150, RF type (A105/EGI) 3. Bellows: fully peripheral welded by arc or argon weld. 4. Dimensional Data for 8": ID – 221.5mm, RF – 269.7 mm, OD – 342.9mm, PCD – 298.4 mm, Length – 300 mm, 8 holes R.A. Unit : / Per No	33600
Number 12122501	1 Design, Supply, installation, Testing and Commissioning of DC Power Supply 24 VDC 150A R.A. Unit : 1 / Number	31000
Number 12122502	2 Design, Supply, installation, Testing and Commissioning of DC Power Supply 18 VDC 425A R.A. Unit : 1 / Number	45000
Number 12122503	3 Design, Supply, installation, Testing and Commissioning of DC Power Supply 10 VDC 150A R.A. Unit : 1 / Number	28000
Number 12122504	4 Design, Supply, installation, Testing and Commissioning of DC Rectifier R.A. Unit : 1 / Number	35400
Set 12122505	5 Repairing of of High Definition Video Projector R.A. Unit : 1 / Set	65000
Number 12122506	6 Repairing of Voltage stabilizer 10 KVA R.A. Unit : 1 / Number	25000
Metre 12122507	7 Design, Supply, installation,Testing and Commissioning of Flexible Round Cable 1 Sq mm X 1 C R.A. Unit : 1 / Metre	30
Number 12122508	8 Repairing of Sand Filter Sand Filter assembly R.A. Unit : 1 / Number	45000

Number 12122509	9 Design, Supply, Testing and Commissioning of Solenoid Valve 2.5" R.A. Unit : 1 / Number	9150
Number 12122510	10 Design, Supply, Testing and Commissioning of Solenoid Valve 1.5" R.A. Unit : 1 / Number	5500
Number 12122511	11 Design, Supply, Testing and Commissioning of Solenoid Valve 1" R.A. Unit : 1 / Number	4150
Number 12122512	12 Design, Programming Charges of Musical Fountain Show R.A. Unit : 1 / Number	60000
Per No 12022604	1 पुणे मनपाच्या परिमंडळ क्र. १ ते ५ अंतर्गत येणाऱ्या विविध स्मशान भूमीतील गॅस शवदाहिनी करिता आवश्यक व्यापारी एलपीजी 47.5 KG गॅस सिलेंडरचा पुरवठा करणे. R.A. Unit : 1 / Per No	4381
Day 25022601	1 कुशल कामगार पुरविणे R.A. Unit : 1 / Day	1133.22
Day 25022602	2 अर्धकुशल कामगार पुरविणे R.A. Unit : 1 / Day	1088.38
Day 25022603	3 अकुशल कामगार पुरविणे R.A. Unit : 1 / Day	1120.18
Per No 1	5022601.1 SITC of PLC System (CPU+IOs+ Panel) :- PLC based SCADA system for automatic operation & control of the plant comprising of the following on a minimum but not limited to: Redundant PLC system (Hot standby configuration). Simplex I/O of the same series of the CPU. With minimum 20% spare I/Os of each type fully wired and terminated and mounted in the panel, with redundant SCADA system., Engineering workstation and Historian software station: SITC of PLC System (Hot standby PLC CPU with communication ports for Modbus/TCP/IP+simplex IOs+ PLC Panel with redundant power supply modules, redundant managed ethernet switches) :- 1. Preparation of PLC (control & automation FDS) inclusive of PLC panel drawing, RIO Panel, IOs of SBR System and Sewage Pumping Station, cable layout _ drawings, wiring Diagrams, interconnection diagrams, loop diagrams, i/o list, control philosophy _ with all modes of operation (auto mode, semi-auto mode & manual Mode, integration philosophy integration i/o's with central SCADA System to be established at Naidu STP under other contract) which includes IOs of SBR System, complete STP process inclusive of all process units and other units existing in the STP and Sewage Pumping Station. 2. Preparation of PLC program. Complete plant SCADA mimics with operational data, maintenance data, power consumption, chemical consumption & laboratory analyzed parameters shall be integrated with the central SCADA system at Naidu STP to enable real time monitoring of the STP operation and meeting the functional parameters as required under the contract. 3. Supply of following items in PLC Panel Simplex PLC IOs will be provided for achieving complete plant automatic mode of operation & control with flow, pressure, level and analytical interlock of system. Total No. of System IO's should be 20% more than actual (a) Minimum required I/Os: i) No. of DIs - 300 ii) No. of DOs - 300 iii) No. of AIs - 20 iv) No. of AO's - 20 SBR System IOs includes on a minimum i. System IOs - DI & DO i. Blowers - DI, DO & AO ii. Inlet gate - DI & DO iv. Process air valve - DI & DO v. RAS pump - DI & DO vi. SAS pump - DI & DO vii. SAS discharge valve - DI & DO viii. Decanter - DI, DO & AO ix. Level transmitter - AI X. DO analyzer - AI Xi. Flow transmitters - AI XII. Pressure transmitters, switches - AI & DI XII. Pumps - DI & DO XIV. Other equipments as available in the plant and to be newly introduced (if any) as per process requirements. Sewage Pumping Station equipment IOs includes i. Pump - DI & DO ii. Level transmitter - AI iii. Flow transmitter - AI iv. Grit scrapper and Grit Classifier - DI & DO v) Centrifuge unit - DI & DO vi) Chlorinator - DI & DO vii) Screen - DI & DO Note: All vendor supplied package equipment's control system/relay based system shall be integrated with the redundant PLC system either via hardwired or via communication as applicable. 4. Training to the Plant operators. PLC panel will be designed to accommodate above PLC system The PLC panel will be of CRCA, 3mm thick, RAL 7035 Powder coated after 7 tank process and minimum 900mm width and shall be from reputed panel manufacturer's and type tested. The panel shall be equipped with anti-vibration pad, space heater etc. The PLC panel will include power wiring with MCBs, appropriate terminals, control wiring, Relay boards, power distribution modules, SMPS, etc. The panel will be well ventilated for air circulation to remove heat generated by PLC components. PLC Specifications : As per PLC OEM's Specifications for Hot standby CPU and the I/O modules shall be from the same series of the PLC CPU. I/O modules shall be hot swappable Make- Siemens/Mitsubishi/Allen Bradley/Fuji/Honeywell/Schneider Electric/ R.A. Unit : 1 / Per No	2560000

Per No 2	5022602.2 SITC of SCADA Software and Computer:- 1. Supply of redundant SCADA software with OPC UA 2. Supply of Historian software (to be installed under separate work station to match the tags configured in the SCADA software, to provide historical data of the complete plant process and associated equipments and operations. 3. Preparation of SCADA screens and application for the complete plant process inclusive of all vendors supplied equipment for various operations in the plant, including report generation. Alarm generation based on priority, trends for various processes etc. 4. Training to the Plant operators for minimum period of 2 weeks. 5. SCADA screens should be developed for complete plant processes inclusive of C Tech 4 basin system and Sewage pumping station. The SCADA should have trends for complete plant processes inclusive of all Electrical Parameters, water quality (incoming & treated) i) For SBR System the minimum shall be provided but not limited to :- 1. Level 2. DO 3. Temperature 4. Incoming flow S. Outgoing flow 6 Blower speed 7. Decanter speed ii) For Sewage Pumping Station :- 1. level 2. Electrical Parameters for all major equipment such as pumps and Blowers The SCADA should show minimum of following Equipment's: i) For SBR System 1. running status of all 4 Basins 2. Decanter Status 3. RAS and SAS pump On/Off status 4. Blower running status 5. inlet and outlet sewage/water flow ii) For Sewage Pumping Station:- 1. running status of all sewage Pumps 2. running status of all the screens 3. running status of grit scrapper and grit classifier units 4. running status of Centrifuge unit 5. Running status of Chlorine system 5. Reports:- The SCADA should have inbuilt features to produce necessary reports. Following is list of major reports: i) Daily incoming and outgoing MLD (Data to be visible for upto 36 months) ii) Monthly incoming and outgoing MLD (Upto 36 months) iii) Daily equipment running hours and their electrical parameters (Upto 12 months) iv) Monthly equipment running hours and their electrical parameters (Upto 12 months) Computer Configuration :- Computer Configuration for SCADA server grade machine, Engineering and Historian software station:- SCADA servers Licensed Microsoft windows server 2025 or latest, with Intel xeon 6900 processors or latest available at the time of design, to be installed on server grade machine only, Engineering work station, Historian workstation Licensed Microsoft windows 11 Ver 2025 or latest, with Intel i7 processors or latest available at the time of design Configuration Tower Architecture 64 bit System memory (RAM) 32 GB Harddisk 1 TB Communication ports USB-4 Nos. Ethernet-1 No. Graphic accelerator 1 GB Power supply 240 VAC Keyboard USB Mouse USB Monitor Type Full HD LED color monitor Screen size 32" or higher Resolution 1920x1080 Power supply 240 VAC Commissioning:- Complete Commissioning of PLC and SCADA system at site. The System should be compatible with OPC UA to connect, integrate and display data at proposed centralized SCADA command center for monitoring of different STPs The system shall be designed to transmit/integrate the data to the integration RTU panel (to be supplied under other contract) comprising of wireless communication modules, as per user defined intervals for data polling as requested from the central SCADA command center. The contractor scope of work shall include the necessary co-ordination, programming and mapping of the data to achieve complete data integration with the central SCADA system integration RTU and any software modification as required. Make-Siemens/Mitsubishi/Allen Bradley/Fuji/Honeywell/Schneider Electric R.A. Unit : 1 / Per No	1360000
Per No 3	5022603.3 DO Analyzer:- Supply Install Testing and commissioning of Dissolved Oxygen Analyzer with 10 Meter Cable and Controller, Canopies, Surge Protection Devices, Dip Type PVC Assembly suitable for C-Tech SBR Basin/ Aeration Basin, Integration with RTU Panel over Instrumentation Signal for Cloud Based Monitoring Make: HACH/ Mettler Toledo/Emerson/ABB/Yokogawa R.A. Unit : 1 / Per No	350000