

सं: एएआई/सिल/अभि.- वि./एसटीपी/व.ओ - 12/2022-23/464-473
Ref: AAI/SIL/ENGG-E/STP/W.O-12/2022-23/

दिनांक: 30.03.2023
Date: 30.03.2023

सेवा,
एम/एस. ब्लूवाटरटेक सर्विसेस प्राइवेट लिमिटेड,
जीएफ-4/79, ग्यान खंड - 1,
इंदिरापुरम, गाज़ियाबाद,
उत्तर प्रदेश - 201014

To,
M/s Bluewatertech Services Private Limited,
GF-4/79, Gyan Khand - 1,
Indirapuram, Ghaziabad,
Uttar Pradesh-201014

कार्य का नाम :- सप्लाई, इंस्टालेशन, टेस्टिंग, कमीशनिंग एंड ऑपरेशननेलाईजेसन ऑफ़ एसबीआर टेक्नोलॉजी बेस्ड 150 केएलडी सिवेज ट्रीटमेंट प्लांट इन्क्लुडिंग 7 इयर्स ओएंडएम एट सिलचर एयरपोर्ट।

Name of Work: - Supply, Installation, Testing, Commissioning and Operationalization of SBR Technology based 150 KLD Sewage Treatment Plant including 7 years O&M at Silchar Airport.

(Tender ID: 2023_AAI_142053_1)

प्रिय महोदय / Dear Sir (s),

- उपर्युक्त कार्य के लिए आपके ई-टेंडर, भारतीय विमानपत्तन प्राधिकरण के अध्यक्ष की ओर से आपके द्वारा उद्धरित मद दर जिसकी कुल राशि रु. 1,57,55,086/- जीएसटी के बिना (रुपये एक करोड़ सत्तावन लाख पचपन हजार छियासी केवल) लागत रु. 2,37,26,113/- से 33.60% कम है, स्वीकृत किया जाता है।

Your E-Tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to Rs. 1,57,55,086/- excluding GST (Rupees One Crore Fifty Seven Lakh Fifty Five Thousand & Eighty Six Only) which is 33.60% below the Justified cost of Rs. 2,37,26,113/-.

- सहायक महाप्रबंधक (अभि-विद्युत), भा.वि.प्रा., शिलचर हवाईअड्डा कार्य के लिए प्रभारी इंजीनियर होंगे। आपसे अनुरोध है कि आप अपना प्रत्यायित प्रतिनिधि जिसे कि आप की ओर से संविदा करार पर हस्ताक्षर करने की शक्ति दी गई है। सहायक महाप्रबंधक (अभि-विद्युत), भा.वि.प्रा., शिलचर हवाईअड्डा के कार्यालय में करार पर हस्ताक्षर करने के लिए दिनांक 10.04.2023 को उपस्थित हों। संविदा करार रु.100/- (रुपये सौ केवल) के नॉन ज्युडिशियल स्टाम्प पेपर पर निष्पादित किया जाएगा और स्टाम्प पेपर की लागत आपको ही वहन करनी होगी।

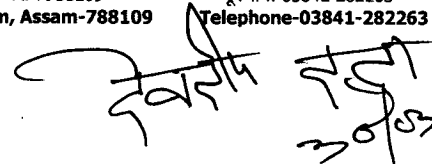
Assistant General Manager (Engg.-Elect.), AAI, Silchar Airport, Silchar shall be the Engineer-in-Charge for the work. You are requested to attend the O/o Assistant General Manager (Engg.-Elect.), AAI, Silchar Airport by 10.04.2023 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees Hundred only) and the cost of the stamp paper shall be borne by you.

- कृपया इस पत्र के जारी होने के 10 दिन में सुरक्षा जमा के लिए रु. 15,75,509.00 जमा करवा दें, ऐसा नहीं करने पर संविदा दस्तावेज की शर्त के अनुसार आपके रनिंग बिल से काट ली जाएगी।

Please deposit Rs. 15,75,509.00 towards security deposit within 10 (Ten) days from the date of issue of this letter, failing which, the same will be deducted as per condition of the Contract document.

- आपसे अनुरोध है कि संविदा श्रमिक (विनियमन एवं उन्मूलन) अधिनियम 1970 और संविदा श्रमिक (विनियमन एवं उन्मूलन) केन्द्रीय नियमावली 1971, अधिन, केन्द्रीय और राज्य सरकार के न्यूनतम मजदूरी अधिनियम और ई.पी.एफ.एक्ट, 1952 एवं ई. एस. आई. एक्ट नियमों का पालन करें।

You are requested to comply with provision of Contract Labour (Regulation and Abolition) Act of 1970 and contract (Re regulation and Abolition) Central rules 1971, Minimum Wages Act & Rules, EPF Act, 1952 and ESI act thereof Central & State Governments.


30/03/2023

5. आपको निर्देश दिए जाते हैं कि आप प्रबंधक (अभि-विद्युत) से तत्काल सम्पर्क करें जो कि आपको कार्यस्थल सुपर्द करने कि व्यवस्था करेंगे।

You are also directed to contact **Manager (Engg-E)**, AAI, Silchar Airport immediately who will arrange to hand over the site to you.

6. कृपया ध्यान दें कि एसआईटीसी कार्य करने के लिए अनुमत समय **06 (छह) महीने** होगा जिसकी गणना **05 अप्रैल 2023** से की जाएगी और ओएंडएम **07 (सात) वर्ष** (एसआईटीसी के पूरा होने की तारीख से 2 वर्ष डीएलपी के तहत पहले और डीएलपी अवधि के बाद अगले 05 वर्ष) होगी।

Please note that the time allowed for carrying out the SITC work shall be **06 (Six) months** which shall be reckoned from **05th April 2023** and O&M shall be **07 (Seven) years** (First 2 years under DLP from the Date of Completion & next 05 years after DLP period).

7. कार्य का दोष दायित्व **24 (चौबीस) माह** होगी।

The defect liability period of the work shall be **24 (Twenty Four) months**.

8. संविदा के संबंध में आगे किया जाने वाला पत्राचार समान्यतः इंजीनियर प्रभारी से किया जाए।

Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.

9. कृपया इस आदेश की प्राप्ति को स्वीकार करें।

Please acknowledge the receipt of this order.

10. यदि कोई विसंगति पाई जाती है तो अंग्रेजी भाषा ही मान्य होगी।

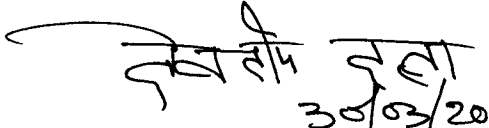
In case any discrepancy is found, then English version will be taken as correct.

धन्यवाद/ Thanking you.

भवदीय / Yours faithfully

Encl: 1. *Schedule of Quantities*

संलग्न: 1. अनुसूची की मात्रा


30/03/2023
देवदीप दत्ता (DEBDEEP DUTTA)
सहायक महाप्रबंधक (अभि-विद्युत)
Asstt. G.M. (Engg.-Elect.)
भा.वि.प्रा., सिलचर हवाई अड्डा
AAI, Silchar Airport

Validate

Print

Help

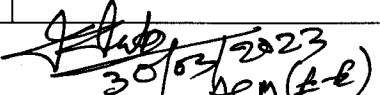
SCHEDULE OF QUANTITIES

Tender Inviting Authority: Asstt. G.M. (Engg-Electrical), AAI, Silchar Airport.

Name of Work: Supply, Installation, Testing, Commissioning and Operationalization of SBR Technology based 150 KLD Sewage Treatment Plant including 7 years O&M at Silchar Airport.

Tender Id: 2023_AAI_142053_1

Name of the Bidder/ Bidding Firm / Company :	BLUEWATERTECH SERVICES PRIVATE LIMITED					
<u>PRICE SCHEDULE</u> (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE (Excluding GST) In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT (Excluding GST) in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	SH:I - Site Inspection,Process design & obtaining NOC from PCB etc Site inspection, Process design, preparation and submission of duly signed complete layout drawings, Hydraulic drawings and Construction drawings of 150 KLD packaged type Sewage Treatment Plant of SBR technology ,considering the following SOQ, scope of work and as per Technical specification of the contract, obtaining initial and final NOC from pollution Control Board etc as complete required.	1.00	Job	5000.00	5000.00	INR Five Thousand Only
2	SH:II - CIVIL ENGG. WORKS Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. All kinds of soil.	85.50	Cum	106.67	9120.29	INR Nine Thousand One Hundred & Twenty and Paise Twenty Nine Only
3	SH:II - CIVIL ENGG. WORKS Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m: Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	600.00	Meter	53.33	31998.00	INR Thirty One Thousand Nine Hundred & Ninety Eight Only
4	SH:II - CIVIL ENGG. WORKS Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	404.50	Cum	53.33	21571.99	INR Twenty One Thousand Five Hundred & Seventy One and Paise Ninety Nine Only
5	SH:II - CIVIL ENGG. WORKS Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources).	83.00	Cum	3200.00	265600.00	INR Two Lakh Sixty Five Thousand Six Hundred Only
6	SH:II - CIVIL ENGG. WORKS Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc	237.00	Sqm	320.00	75840.00	INR Seventy Five Thousand Eight Hundred & Forty Only
7	SH:II - CIVIL ENGG. WORKS Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works upto plinth level. All works upto plinth level: Concrete of M25 grade with minimum cement content of 330 kg /cum.	58.00	Cum	4000.00	232000.00	INR Two Lakh Thirty Two Thousand Only


 30/03/2023
 APN (A-E)

8	SH:II - CIVIL ENGG. WORKS cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works above plinth level upto floor V level: Concrete of M25 grade with minimum cement content of 330 kg /cum.	22.00	Cum	4266.67	93866.74	INR Ninety Three Thousand Eight Hundred & Sixty Six and Paise Seventy Four Only
9	SH:II - CIVIL ENGG. WORKS Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	6788.00	Kg	42.67	289643.96	INR Two Lakh Eighty Nine Thousand Six Hundred & Forty Three and Paise Ninety Six Only
10	SH:II - CIVIL ENGG. WORKS Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	2591.00	Kg	45.33	117450.03	INR One Lakh Seventeen Thousand Four Hundred & Fifty and Paise Three Only
11	SH:II - CIVIL ENGG. WORKS Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand).	17.50	Cum	3200.00	56000.00	INR Fifty Six Thousand Only
12	SH:II - CIVIL ENGG. WORKS Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in: Cement mortar 1:4 (1 cement : 4 coarse sand).	41.00	Cum	3733.33	153066.53	INR One Lakh Fifty Three Thousand & Sixty Six and Paise Fifty Three Only
13	SH:II - CIVIL ENGG. WORKS Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	2505.00	Kg	53.33	133591.65	INR One Lakh Thirty Three Thousand Five Hundred & Ninety One and Paise Sixty Five Only
14	SH:II - CIVIL ENGG. WORKS 12 mm cement plaster of mix: 1:4 (1 cement: 4 fine sand).	689.00	Sqm	37.33	25720.37	INR Twenty Five Thousand Seven Hundred & Twenty and Paise Thirty Seven Only
15	SH:II - CIVIL ENGG. WORKS Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer.	508.00	Sqm	26.67	13548.36	INR Thirteen Thousand Five Hundred & Forty Eight and Paise Thirty Six Only
16	SH:II - CIVIL ENGG. WORKS Finishing walls with textured exterior paint of required shade: New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.	508.00	Sqm	53.33	27091.64	INR Twenty Seven Thousand & Ninety One and Paise Sixty Four Only
17	SH:II - CIVIL ENGG. WORKS Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works.	116.00	Sqm	40.00	4640.00	INR Four Thousand Six Hundred & Forty Only
18	SH:II - CIVIL ENGG. WORKS Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	116.00	Sqm	80.00	9280.00	INR Nine Thousand Two Hundred & Eighty Only
19	SH:II - CIVIL ENGG. WORKS Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm.	21.00	Sqm	533.33	11199.93	INR Eleven Thousand One Hundred & Ninety Nine and Paise Ninety Three Only
20	SH:II - CIVIL ENGG. WORKS Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	76.00	Mtr	266.67	20266.92	INR Twenty Thousand Two Hundred & Sixty Six and Paise Ninety Two Only
21	SH:II - CIVIL ENGG. WORKS Painting of AAI Logo with stencil cut out in acrylic sheet (size 2'x2'), on the outside surface of the Operatinal wall / AAI Property / Boundary wall, finished with Exterior Acrylic Emulsion paint as direction & instruction of Engineer-in-charge.: AAI Logo - Blue Colour.	4.00	Each	1333.33	5333.32	INR Five Thousand Three Hundred & Thirty Three and Paise Thirty Two Only


30/03/2023
A.G.M (E-6)

22	SH:II - CIVIL ENGG. WORKS Surface preparation: Cleaning and preparation of surface with the help of wire brush or grinder. Cleaning by air blower, crack filling etc., complete. Wrapping all pipes inserts with a two-way adhesion tape of make Dr. Fixit Bathseal tape and grouting the gaps space between the slab & vertical wall, grout the pipe gaps with non-shrink grout Dr. Fixit Pidigrout 10M or by preparing polymer modified cementations mortar mixed with Dr. Fixit Pidicrete URP in the ratio of 1:3 by adding polymer 10% by weight of the cement.	138.50	Sqm	53.33	7386.21	INR Seven Thousand Three Hundred & Eighty Six and Paise Twenty One Only
23	SH:II - CIVIL ENGG. WORKS Injection Treatment: All the honeycombed areas & construction joints shall be identified and injected with cement slurry admixed with expansive additive, Dr. Fixit Pidicrete AM @ 225gms / bag of cement. Providing and fixing PVC grouting nozzles of 130mm length & 10mm outer dia, with a stopper at the outer end, shall be fixed on the concrete surface @ 1m C/C or at the location of water leakage, by drilling a hole of same dia and inserting up to a depth of 80mm. Cement paste mixed with Dr. Fixit Instant Leak Plug shall be used to fix and seal the sides of the nozzle. The grouting shall be done under pressure of 3-5 kg / cm2 using grouting pump.	150.00	Grouting point (Per nozzle)	106.67	16000.50	INR Sixteen Thousand and Paise Fifty Only
24	SH:II - CIVIL ENGG. WORKS Waterproofing: Providing & Applying 2 coats of CFTRI approved, waterproof coating with high performance two component pre-packed cementitious waterproofing, Dr. Fixit Fastflex, with a mix ratio of (liquid: Powder), parts by wt. - 1:1.4 @ 0.42- 0.50 Sq.mt / Kg to achieve 1mm DFT over the floor surface & wall surface upto full height, as per the manufacturer's specification. All the coats to be applied in right angle to each other with an interval of 4-6 Hrs. The coating shall have Elongation at break > 120% as per ASTM D 412, Tensile strength - 1 N/mm2 as per ASTM D 412, Adhesion strength: 0.80 N/mm2 as per ASTM D 7234, crack bridging upto 2mm as per ASTM C 836, Water penetration (5 bar pressure) : 1% as per BS EN 12390, Hardness, Shore A: 60 as per ASTM D 2240, RCPT permeability: 70% as per ASTM C 1202-19.	138.50	Sqm	266.67	36933.80	INR Thirty Six Thousand Nine Hundred & Thirty Three and Paise Eighty Only
25	SH:II - CIVIL ENGG. WORKS Anticorrosive & Protective Coating for external wall surfaces: Providing & applying 2 coats of Dr. Fixit Coal Tar Epoxy of Pidilite Industries Ltd; 2 component coal tar epoxy-based coating. The product attains a dry film thickness of 150 – 200 microns when fully cured. The two coats are to be brush applied in a span of 8-10 hours. Storing, mixing & application to be done strictly in accordance with the manufacturer's instructions. Applicator to ensure complete surface preparation of concrete substrate prior to using Dr. Fixit Coal Tar Epoxy. Storing & application to be done strictly in accordance with the manufacturer's instructions. Applicator to ensure complete surface preparation of concrete substrate prior to application.	182.00	Sqm	400.00	72800.00	INR Seventy Two Thousand Eight Hundred Only
26	SH:II - CIVIL ENGG. WORKS Angel Fillet & Treatment of construction Joint: All the old/broken joints need to be removed and provided with 50 mm X 50 mm angle fillets on the vertical up- stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Dr. Fixit Pidicrete URP in the ratio of 1:3 by adding polymer 10% by weight of the cement.	150.00	Rmt	53.33	7999.50	INR Seven Thousand Nine Hundred & Ninety Nine and Paise Fifty Only
27	SH:II - CIVIL ENGG. WORKS Providing, laying and fixing HDPE Pipe (PE-100 grade) IS: 14333 of 6 kg / cm2 including all fittings with or without access door i.e. bends, junctions, cowls, offsets etc. and jointing with Butt welding etc. complete to the satisfaction of the Engineer-In-Charge.	600.00	Rmt	66.67	40002.00	INR Forty Thousand & Two Only
28	SH:II - CIVIL ENGG. WORKS Providing Engineering Consultancy services for RCC structure for STP, RCC foundation work, drainage and soil testing for load bearing capacity with all relevant calculation sheet and design vetted through any Govt. Engineering Colleges/NIT/IIT etc, providing detailed construction drawing and shop drawings required during execution etc. as specified in tender document and any other details related to consultancy work which are essential for successful execution of works etc complete as per direction and satisfaction of EIC.	1.00	Job	26666.67	26666.67	INR Twenty Six Thousand Six Hundred & Sixty Six and Paise Sixty Seven Only
29	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing & commissioning of manual coarse bar Screen placed at inlet of Coarse screen chambers at the inlet of Collection tank to match the inlet channel, 1 number of Stainless Steel bar screen fabricated from 30mm x 5 mm SS 304 flats, 20mm equally spaced for coarse screen with suitable lifting arrangement and as per technical specification of contract etc. as required.	1.00	Job	100000.00	100000.00	INR One Lakh Only
30	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing & commissioning of manual fine bar Screen placed at inlet of screen chambers at the inlet of Collection tank to match the inlet channel, 1 number of Stainless Steel bar screen fabricated from 30mm x 5mm SS 304 flats, 10mm equally spaced for fine screen with suitable lifting arrangement and as per technical specification of contract etc. as required.	1.00	Job	150000.00	150000.00	INR One Lakh Fifty Thousand Only


30/03/2023
AQM(k-e)

31	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing & commissioning of Non clog type, Submersible pump ,Solid passage of 100mm max,discharge of minimum 35 m3/hr,Head of 10 mtrs, minimum HP-5,RPM-2900,Motor body and shaft-SS, working voltage 3 phase,415 +/- 10% volts, 50Hz Continuous duty, Class 'F' insulation, placed at inlet of Collection tank to lift raw sewage from collection tank to Fine screen chamber, providing suitable length of 80mm UPVC pipe on delivery connection with flange, SS bolts and nuts,gasket,Water tight power supply connection, earthing connection, interlinking and common delivery lines with UPVC pipe,UPVC valves, non return valves, pressure gauges with isolation valve, including all necessary accessories and as per Technical specification of the contract etc. complete as required. Maximum loading current of the pump shall be less than 90% of the full load current of the motor. (For Sewage transfer from collection tank to Fine Screen Chamber)	2.00	Jobs	150000.00	300000.00	INR Three Lakh Only
32	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing & commissioning of sewage submersible pump lifting arrangement on collection tank to lift 1no 35m3/hr capacity pump fabricated from GI angle/GI pipe, guide pipe and Chain is made from SS 304 and as per Technical specification, painting etc. complete as required.	1.00	Job	200000.00	200000.00	INR Two Lakh Only
33	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing & commissioning of complete Decanter Mechanism suitable for SBR tank of 55Cum including moving weir arm fabricated from SS 304 with suitable drive, scum guard, down comer, supports, with PLC controlled auto/Manual operation , motorized valves with by pass arrangement, local control box with manual operation selection, push buttons, electrical and communication cable wiring, communication to main PLC by RS 485/Ethernet, one Decanter per Basin and as per technical specification etc. as required.	2.00	Jobs	850000.00	1700000.00	INR Seventeen Lakh Only
34	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply ,installation, testing & commissioning of (Minimum) 150m³/Hr capacity of twin lobe rotary air blower, discharge pressure 6000 mmwc, 'V' belt or flexible couple drive, suitable capacity motor, 415 + 10% volts,3 phase, 50Hz with necessary outdoor enclosure for protecting the unit from rain water , for fresh air supply to SBR tanks . Supplying and providing air grid distribution system with non clog type fine bubble diffusers for SBR tanks. Air distribution shall be comprise of isolation valves, pipe droppers, laterals, interlinking etc. with UPVC pipeline with all fittings,supports,clamps,flanges, non clog , modular type air dispersion system capable of handling 3-5 cfm of air to the required depth with necessary supports , valves, with all necessary accessories, operation of aeration system with PLC based control and as per technical specification etc. complete as required .	2.00	Jobs	750000.00	1500000.00	INR Fifteen Lakh Only
35	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply,installation,testing and commissioning of centrifugal,monoblock, filter feed pump to transfer water from SBR tanks to filters with following specifications a) Discharge of 7.5 m3/hr at 25 meter head (Minimum) , b) minimum 3HP motor capacity c) Impeller--Cast iron, d) Motor body--Cast iron, e) Power supply--415v+ 10%, f) Phase--3, concrete foundation, necessary out door enclosure for rain protection, providing individual UPVC suction lines, interlinking and common delivery line upto multi grain sand filter with UPVC piping, UPVC butterfly valves (for both suction & discharge), UPVC non return valves, pressure gauges with isolation, including all necessary accessories etc. as required.	2.00	Jobs	80000.00	160000.00	INR One Lakh Sixty Thousand Only
36	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing and commissioning of Pressure Sand filter made of FRP of minimum dia 1.0m and 1.8m height of capacity not less than 7.5 m3/hr at 3 kg/cm2 pressure, with max pressure rating of 4.5 kg/cm2 pressure vessel, necessary foundation , along with UPVC frontal pipeline, necessary valves, interlinking pipes, delivery line upto Activated Carbon filter, drain line upto collection tank, pressure gauge with isolation, air release, provision of back wash arrangement, valves, all necessary accessories complete with filtering media , support media etc. as required.	1.00	Job	750000.00	750000.00	INR Seven Lakh Fifty Thousand Only
37	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing and commissioning of Activated carbon filter made of FRP of minimum dia 1.0m and 1.8m height of capacity not less than 7.5 m3/hr at 3 kg/cm2 pressure, with max pressure rating of 4.5 kg/cm2 pressure vessel, necessary foundation , UPVC frontal pipeline, necessary valves, interlinking pipes for delivery line upto treated water tank, drain line (duly painted GI pipe line) upto collection tank, pressure gauge with isolation valve, air release, provision of back wash arrangement, valves, all necessary accessories complete with filtering media , support media etc. as required.	1.00	Job	800000.00	800000.00	INR Eight Lakh Only
38	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing and commissioning of UV System, 7.5cum/hr, fabricated from SS for 150KLD Packaged type Sewage treatment plant SBR technology including wiring, all accessories complete etc. as required.	1.00	Job	750000.00	750000.00	INR Seven Lakh Fifty Thousand Only


30/05/2023
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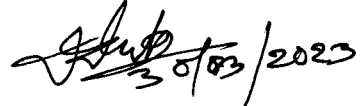
39	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply,installation,testing and commissioning of centrifugal,monoblock, Treated water pump to transfer water from treated water tank with following specifications a) Discharge of 10 m3/hr at 25 meter head (Minimum) , b) minimum 3HP motor capacity c) Impeller--Cast iron, d) Motor body--Cast iron, e) Power supply--415v+ 10%, f) Phase--3, concrete foundation, necessary out door enclosure for rain protection, providing individual UPVC suction lines, interlinking and common delivery line upto 1mtr with UPVC piping, UPVC butterfly valves (for both suction & discharge), UPVC non return valves, pressure gauges with isolation, including all necessary accessories etc. as required.	2.00	Jobs	150000.00	300000.00	INR Three Lakh Only
40	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing and commissioning of Sludge feed pump, capacity of 4m3/hr for 150 KLD Packaged type Sewage treatment plant SBR technology with following specifications a) Minimum motor capacity-2HP b) Impeller--Cast iron, c) Motor body--Cast iron, d) Power supply--415v+ 10%, e) Phase--3, concrete foundation, necessary out door enclosure for rain protection, providing individual UPVC suction lines from SBR tanks, interlinking and common delivery line to Bag filter , valves , non return valves, pressure gauges with isolation, including all necessary accessories etc. as required.	2.00	Jobs	69500.00	139000.00	INR One Lakh Thirty Nine Thousand Only
41	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply, installation, testing and commissioning of motorized screw press for 150 KLD Packaged type Sewage treatment plant SBR technology, concrete foundation, enclosure, drain pipe to collection tank etc complete as required.	1.00	Job	1000000.00	1000000.00	INR Ten Lakh Only
42	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Supply,installation,testing and commissioning of 2 inch magnetic flow water meter for treated water delivery line including isolation valves, sampling point, all accessories etc. as required.	1.00	Job	150000.00	150000.00	INR One Lakh Fifty Thousand Only
43	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Construction of container plant room having size (3000 mm X 4000 mm) including 1 door and door panel having size of 1000mm(width)x2000mm(height),2 nos windows each having size of 1000mmx1000mm with window panel, fabrication with MS sheet and Angler, rain proof, all finishing works such as painting inside and outside walls, roof with plastic emulsion paint, CC flooring, etc. including provision for fixing required electric wiring, LED fittings,fan,sockets, complete as directed by the Engineer-incharge. The necessary provision for cable entry for incoming and outgoing power cables, control cables, data cables, earthing, fixing arrangement of wall mounting /self standing control panel to be incorporated. The installation shall complete with proper locking arrangement on door and windows ,finishing, cleaning etc. complete as required. The structural design of Foundation and superstructure shall be vetted through any Govt. Engineering Colleges/NIT/IIT etc. The cost is inclusive of all the above and nothing extra shall be paid.	1.00	Job	250000.00	250000.00	INR Two Lakh Fifty Thousand Only
44	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Providing, fabricating and placing in position of Fine screen Chamber fabricated from MS, FRP lining/coating inside the chamber having capacity of 1 Cum, inside size of 1.5m(L) x 1m(W) x1.2m(H) (0.7m liquid depth + 0. 5m free board) , for providing 1 no fine bar screen and attached to Grit chamber, including suitable MS structure,ladder ,guard railings, painting etc complete as per instruction and satisfaction of Engineer-in charge. The design shall be vetted through any Govt. Engineering Colleges/NIT/IIT etc. The cost is inclusive of all the above and nothing extra shall be paid.	1.00	Job	35000.00	35000.00	INR Thirty Five Thousand Only
45	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Providing, fabricating and placing in position of Grit chamber fabricated from MS FRP lining/coating inside the tank having capacity of 1.75 Cum,inside size of 2.5m(L) x1m(W)x1.2m(D) (0.7m liquid depth+0.5m free board) attached to MBBR Tank including suitable MS structure,ladder,gaurd railings, painting etc complete as per instruction and satisfaction of Engineer-in charge. The design shall be vetted through any Govt. Engineering Colleges/NIT/IIT etc. The cost is inclusive of all the above and nothing extra shall be paid.	1.00	Job	50000.00	50000.00	INR Fifty Thousand Only
46	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Providing, fabricating and placing in position of SBR tank fabricated from MS FRP lining/coating inside, each having capacity of 55Cum ,inside size of 3.75m dia x 5.5m(H) (5m liquid depth + 0. 5m free board), including suitable MS ladder, guard railings, painting etc. complete as per instruction and satisfaction of Engineer-in charge. The design shall be vetted through any Govt. Engineering Colleges/NIT/IIT etc. The cost is inclusive of all the above and nothing extra shall be paid.	2.00	Jobs	800000.00	1600000.00	INR Sixteen Lakh Only
47	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Providing, fabricating and placing in position of SBR decant tank fabricated from MS FRP lining/coating inside, each having capacity of 30Cum ,inside size of 3.75m dia x 3.0m(H) (2.7m liquid depth + 0. 3m free board), including suitable MS ladder, guard railings, painting etc.complete as per instruction and satisfaction of Engineer-in charge. The design shall be vetted through any Govt. Engineering Colleges /NIT/ IIT etc. The cost is inclusive of all the above and nothing extra shall be paid.	1.00	Job	368000.00	368000.00	INR Three Lakh Sixty Eight Thousand Only
48	SH:III - SUPPLY OF MECHANICAL AND ELECTRICAL EQUIPMENT Providing, fabricating and placing in position of Treated water collection tank fabricated from MS FRP lining/coating inside, each having capacity of 30Cum ,inside size of 3.75m dia x 3.0m(H) (2.7m liquid depth + 0. 3m free board), including suitable MS ladder, guard railings, painting etc. complete as per instruction and satisfaction of Engineer-in charge. The design shall be vetted through any Govt. Engineering Colleges/NIT/IIT etc. The cost is inclusive of all the above and nothing extra shall be paid.	1.00	Job	369000.00	369000.00	INR Three Lakh Sixty Nine Thousand Only

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49	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Supply, Installation, testing Commissioning of LT Panel , cubicle type, made out of 14 swg CRCA sheet steel, totally enclosed,dust and vermin proof, IP 42, protection free floor standing, indoor, compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC supply system with busbars extensible on both sides, earth bus bar, interconnections by FRLS copper wire, control circuit with necessary breaker control switch & auto/ manual selector switch, spring charging indication, top entry of cables, interlocking of incomer & Bus couplers Air circuit breakers complete with releases for protection complete as required items and as per specifications 1) Incomer - 4pole MCCB 100Amp 25KA- 2 Nos 2) Bus coupler - 4pole MCCB 100Amp 25KA 3) Al Bus bar R,Y,B,N,100amps-1 set. 4) Out goings: (a)32 Amps 3pole MCB, DOL starter with OLR, SPP,for SBR blowers - 7.5 HP-2nos, (b) 25 Amps 3pole MCB,DOL starter with OLR,SPP, for submersible sewage pumps-3HP-2nos,(c)25Amps,3 pole MCB, DOL starter with OLR,SPP, for Filter Feed pump-3HP-2nos, (d)25 Amps 3pole MCB,DOL starter with OLR,SPP, for Treated water pump-3 HP-2nos, (e) 16 Amps 3pole MCB, contactor, ON/OFF push button , OLR,SPP, for filter press-1no. (B)Supply and laying of PVC insulated, PVC sheathed Copper armoured cable including cable glanding, 1) 1 run of 4sqmm cable- for blower motor-2run, 2) 1 run of 4 sqmm submersible cable for submersible pumps-2run, 3) 1 run 4sqmm cable for Filter feed pumps-2runs, 4) 1run of 2.5sqmm cable for sludge pumps-2 HP -2 run, (C)8 SWG GI earth-2run to all individual motors and main panel . (D)Push button ON and OFF with ON red coloured LED Indication/contactor/OLR/outgoing connectors including wirings-09sets. (1 set spare). (E) RYB LED indication – 1set. (F) 96mmx96mm Digital volt meter with selector switch-1no. (G) 96mmx96mm Digital Ammeter with selector switch and CTS-1set, including all interconnections etc. (H) Power supply and control wiring to UV lamps, motorized valves, all pumps, blowers etc. complete as required.(Quote shall include SITC of MCC panel, supply and laying of armoured XLPE copper cables in GI trays,supports,providing cable glands, providing and laying of 2 nos8 SWG GI earthings to all equipment, Providing and laying of all communication and control cables complete as requires) 	1.00	Job	100000.00	100000.00	INR One Lakh Only
50	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Supply, installations, testing and commissioning of 4 pole MCCB 100 Amp 35 KA incoming panel and bus coupler.	1.00	Each	10000.00	10000.00	INR Ten Thousand Only
51	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Supply,installation,testing and commissioning of PLC software (SCADA) system including all hardware's and software to Control the entire 150 KLD SBR plant in Auto/Manual mode including all the pumps and blowers etc. The automation system includes HMI, process and operator software with dynamic flow chart displayed on monitor,furniture,UPS,PC ,passwords,etc complete as required.	1.00	Job	20000.00	20000.00	INR Twenty Thousand Only
52	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Earthing with G.I. earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	2.00	Each	12800.00	25600.00	INR Twenty Five Thousand Six Hundred Only
53	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Providing and fixing 25 mm x 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re- filling etc. as required.	20.00	meter	800.00	16000.00	INR Sixteen Thousand Only
54	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Providing and fixing 25 mm x 5 mm G.I. strip on surface or in recess for connections etc. as required.	10.00	meter	80.00	800.00	INR Eight Hundred Only
55	SH:IV - ELECTRICAL/INSTRUMENTATION EQUIPMENT Providing internal electrification with ISI PVC conduit,wiring with 1.5sqmm,Copper ,PVC insulated,flame retardant,low smoke,ISI braded wires,PVC switch boards with ISI switches and sockets,all accessories,2 nos. of LED tube lights(minimum 20 Watts),wall mounting fan (2nos),5A sockets(2nos),outdoor LED bulk head lights (minimum 10 watts)- 4 nos., ST plant area lighting with LED out door fitting (2nosx30watts) on 4 mtrs (above ground) G.I. poles, concrete foundation of G.I. poles including cabling,earthing, as per CPWD specification etc complete as required.	1.00	Job	16000.00	16000.00	INR Sixteen Thousand Only
56	SH:V - Overhauling & repairing of Electrical Pumps / Motors / Air Blowers etc Complete Overhauling & repairing with supply & fixing of necessary related spare parts of Non clog type, Submersible pump of discharge capacity of minimum 30 to 50 m3/hr, including all necessary accessories etc. after dismantling from the existing location, transporation upto the workshop if necessary & reinstallation of the same, testing etc complete as required as per site condition.	1.00	Job	5000.00	5000.00	INR Five Thousand Only
57	SH:V - Overhauling & repairing of Electrical Pumps / Motors / Air Blowers etc Complete Overhauling & repairing with supply & fixing of necessary related spare parts of minimum 100 to 200m³/Hr capacity of twin lobe rotary air blower with all necessary accessories after dismantling from the existing location, transporation upto the workshop if necessary & reinstallation of the same, testing etc complete as required as per site condition.	1.00	Job	7500.00	7500.00	INR Seven Thousand Five Hundred Only


30/03/2023
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58	SH:V - Overhauling & repairing of Electrical Pumps / Motors / Air Blowers etc Complete Overhauling & repairing with supply & fixing of necessary related spare parts of centrifugal, monoblock, filter feed pump / Treated water pump of discharged capacity 5 to 10 m3/hr including all necessary accessories etc. after dismantling from the existing location, transportation upto the workshop if necessary & reinstallation of the same, testing etc complete as required as per site condition.	2.00	Jobs	3500.00	7000.00	INR Seven Thousand Only
59	SH:V - Overhauling & repairing of Electrical Pumps / Motors / Air Blowers etc Complete Overhauling & repairing with supply & fixing of necessary related spare parts of Sludge feed pump, discharge capacity of minimum 3 to 10m3/hr for 150 KLD SBR technology based packaged type Sewage treatment plant including all necessary accessories etc. after dismantling from the existing location, transportation upto the workshop if necessary & reinstallation of the same, testing etc complete as required as per site condition.	1.00	Job	2000.00	2000.00	INR Two Thousand Only
60	SH:V - Overhauling & repairing of Electrical Pumps / Motors / Air Blowers etc Complete Re-winding with fresh suitable size copper coils of different types of motors / air blowers of capacity 2 HP to 5 HP after removal of burnt out copper coils from the motor assembly and also considering buy back of burnt out copper coils including dismantling from the existing location, transporting upto the workshop and reinstallation of the motor / air blowers after repair alongwith all other necessary spare parts complete as required.	2.00	Jobs	2500.00	5000.00	INR Five Thousand Only
61	SH:VI - OPERATION AND MAINTENANCE (O&M) Operation and maintenance of complete 150 KLD Sewage Treatment Plant on 1 shift basis with reliever for all days including Sundays and holidays (One trained Technician cum Operator in 1 shift,6days in a week and one trained Technician cum operator in General shift,6 days in a week)with uniform, necessary ,tools, consumable items such as cotton waste,greese,UV lamp,Chemicals,safety materials such as shoes, gloves, mask etc,monitoring and maintaining the required registers, monthly testing of treated water from the State govt approved Lab, monitoring the reading of water meter,etc including all preventive maintenance activities related with the plant complete as required and as per specification. First year (Operation and day to day maintenance under Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
62	Second year (Operation and day to day maintenance under Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
63	Third year (Operation and day to day maintenance after Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
64	Fourth year (Operation and day to day maintenance after Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
65	Fifth year (Operation and day to day maintenance after Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
66	Sixth year (Operation and day to day maintenance after Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
67	Seventh year (Operation and day to day maintenance after Defect Liability Period (DLP)) (Predecided percentage @ 3.45% of Total of Item No. 1 to 55)	1.00	Annum	437081.14	437081.14	INR Four Lakh Thirty Seven Thousand &Eighty One and Paise Fourteen Only
Total in Figures					15755086.00	INR One Crore Fifty Seven Lakh Fifty Five Thousand &Eighty Six Only
Quoted Rate in Words		INR One Crore Fifty Seven Lakh Fifty Five Thousand &Eighty Six Only				
(NOTE: On the increase of labour wages; difference in labour wages, EPF, ESIC & Bonus reimbursement will be made accordingly) For O&M only.						


Asst.G.M. (Engg-Elect)
AAI, Silchar Airport