



संदर्भ सं.: भाविप्रा/प.क्षे./स.म.प्र (इंजी-विद्युत)/भावनगर/सीडब्लू-01/2023-24/ 850
Ref. No: AAI/WR/AGM(E-E)/BHAV/CW-01/2023-24/

दिनांक: 05.04.2023
Date: 05.04.2023

सेवा में/ To,

मेसर्स ग्रीनगेर्स एनवीरो सलूशंस एंड सर्विस प्रा.एलटीडी / M/s Greenagers Enviro Solutions and Services Pvt. Ltd,
ऑफिस क्र. 6, 3rd फ्लोर, गोविंद प्लाज़ा/ OFFICE NO 6,3rd FLOOR,GOVIND PLAZA,
फ़ैज़ाबाद रोड,चिनहट तिराहा / FAIZABAD ROAD,CHINHAT TIRAHA,,
लखनऊ-206028 / LUCKNOW-206028

विषय/ Sub: भावनगर विमानपत्तन में एस.बी.आर तकनीकी आधारित 15 के.एल.डी सीवेज ट्रीटमेंट प्लांट का प्रावधान
एव 05 वर्ष संचालन और ऐ.आई.सी.एम.सी का कार्य ।

Supply, Installation, Testing & Commissioning of SBR Based 15 KLD Sewage Treatment Plant including Operation and AICMC for 05 yrs at Bhavnagar Airport.

संदर्भ: आपकी ई-निविदा नं. 2023_AAI_144666_1 दिनांक 17.03.2023 को खोला गया ।

Your e-tender id. 2023_AAI_144666_1 opened on Dated 17.03.2023.

महोदय,/ Dear Sir(s),

- उल्लेखित कार्य हेतु आपके द्वारा बताए गये मद मूल्यों पर आपकी ई-निविदा राशि कुल **रु. 60,78,823.00 (रुपए साठ लाख अठहत्तर हजार आठ सौ तेईस मात्र) + जीएसटी** है, जो कि ई-निविदा की उचित लागत राशि **रु. 64,59,562/-** से **5.89 % नीचे** है, उसे अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है, । आपके द्वारा वैध टैक्स इन्वाइस प्रस्तुत करने पर जीएसटी अदा किया जाएगा । गुजरात राज्य के लिए जीएसटी क्र. GSTIN:-24AAACA6412D1ZE है ।
Your e-tender for the work mentioned above is hereby accepted on behalf of The Chairman, Airports Authority of India at the item rates quoted by you totaling to **Rs. 60,78,823.00 (Rupees Sixty Lakh Seventy Eight Thousand Eight Hundred and Twenty Three only) + GST** which is **5.89 % below** the Justified cost of **Rs.64,59,562/-** . GST will be paid against valid Tax invoice from the agency. For Gujarat state AAI GST no. is **GSTIN:24AAACA6412D1ZE**
- सहा.महाप्रबंधक (इंजी-विद्युत), भाविप्रा, प.क्षे., क्षेत्रीय मुख्यालय, विलेपार्ले (पूर्व), मुंबई-400099, कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आपकी ओर से एक विश्वसनीय प्रतिनिधी प्रतिनियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक **17.04.2023** तक सहा.महाप्रबंधक (इंजी-विद्युत),भाविप्रा, परिचालन कार्यालय भवन, न्यु एअरपोर्ट कालोनी, विलेपार्ले (पूर्व), मुंबई-400099 के कार्यालय में उपस्थित हो तथा करारनामे को पुरा करें । ठेके का करारनामा रु. 100/- के नॉनज्युडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा, तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जाएगा ।

Asstt.GM (ENGG. - ELECT.), RHQ (WR), Vile Parle (E), Mumbai - 400 099 shall be the Engineer-In-Charge of this work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf, to attend the office to the Asstt.GM (ENGG- ELECT.), RHQ (WR), Operational office building, New Airport Colony, Vile Parle (E), Mumbai-400 099 by **17.04.2023** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100/-** and the cost of the stamp paper shall be borne by you.

P.T.O



3. कृपया रु. 6,07,882.00(रुपये छे लाख सात हजार आठ सौ बयाशी मात्र) प्रतिभूति जमा के रूप में यह पत्र जारी करने के तारीख के 10 दिन के अंदर जमा किजीये। जमा करने की असफलता में वह राशि बिल से ठेके की शर्तों के अनुसार काट दी जायेगी।

Please deposit **Rs.6,07,882.00 (Rupees Six Lakh Seven Thousand Eight Hundred & Eighty Two only)** towards security deposit within 10 days from the date of issue of this letter, failing which the same will be deducted from your bill as per contract conditions.

4. आपसे निवेदन है कि आप केंद्रीय और राज्य सरकारों 1970 के अधिनियम अनुबंध श्रम नियम (नियम तथा उन्मुलन) 1971 के केन्द्रीय नियम श्रम नियम (नियमन तथा उन्मुलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन करें।

You are requested to comply with provision of contract labour (Regulation and Abolition Act 1970 and contract labour Regulation & Abolition) Central rule 1971 and minimum wages Act & rules thereof central and state Govt.

5. आपको यह निर्देश दिया जाता है कि आप सहायक प्रबंधक(इंजी-विद्युत), भावनगर हवाईअड्डा से संपर्क करें जो आपको साइट सौंपने की व्यवस्था करेंगे।

You are directed to contact Asstt. Mgr. (E-E), Bhavnagar Airport immediately who will arrange to handover the site.

6. कृपया आप से अनुरोध है कि दिनांक 16.04.2023 से काम शुरू करें। कृपया ध्यान दें कि सिविल एव एस.आई.टी.सी कार्य को पूरा करने के लिए दिनांक 15.07.2023 तक का समय दिया गया है।

You are requested to start the work from 16.04.2023. Please note that time allowed for completion of Civil and SITC work is up to 15.07.2023.

7. इस ठेके के संबंध में आगे का कोई भी पत्राचार सहा.महाप्रबंधक (इंजी-विद्युत), भाविप्रा, प.क्षे., क्षेत्रीय मुख्यालय, एकीकृत प्रचालन कार्यालय भवन, विलेपार्ले (पूर्व), मुंबई-400099 के पते पर किया जाए।

Any further correspondence in connection with the contract should normally be addressed to Asstt.GM(E-E), RHQ (WR), Integrated Operational office building, Vile Parle (E), Mumbai - 400099.

8. कृपया पावती भेजें तथा इस आदेश की दोहरी प्रति आपके हस्ताक्षर के पश्चात इस कार्यालय में भेजें जो कि स्वीकृति टोकन समझा जाएगा।

Please acknowledge the receipt and return the duplicate copy of this order enclosed herewith after signing to the undersigned as a token of acceptance.

9. यदि अंग्रेजी और हिंदी पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जायेगा।

If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

धन्यवाद/ Thanking You,

Encl: 1. SOQ

भवदीय / Yours faithfully,

मो. सदरुल हुदा
05/05/2023

(मो. सदरुल हुदा)/(Md. Sadrul Huda)

सहा.महाप्रबंधक (इंजी-विद्युत),

Asstt.GM (Engg.-Elect.)

कृते तथा ओर से, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण,

For and on behalf of Chairman, Airports Authority of India

Item Rate BoQ

Validate

Print

Help

Tender Inviting Authority: Asst.General Manager (E-E)

Name of Work: "Supply, Installation, Testing & Commissioning of SBR Based 15 KLD Sewage Treatment Plant including Operation and AICMC for 05 yrs at Bhavnagar Airport"

Tender ID: 2023_AAI_144666_1

Name of the Bidder/ Bidding Firm / Company :		Greenagers Enviro Solutions and Services Pvt. Ltd.				
PRICE SCHEDULE (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 In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	SH-I: Civil 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-in-charge a) All kinds of soil	130.00	cum	180.00	23400.00	INR Twenty Three Thousand Four Hundred Only
2	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 : a) All kinds of soil i) Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	300.00	mtr	300.00	90000.00	INR Ninety Thousand Only
3	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.	22.00	cum	180.00	3960.00	INR Three Thousand Nine Hundred & Sixty Only
4	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. a) All kinds of soil	75.00	cum	80.00	6000.00	INR Six Thousand Only
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : a) 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	6	cum	5200.00	31200.00	INR Thirty One Thousand Two Hundred Only
6	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification	470	Per 50kg cement	51.00	23970.00	INR Twenty Three Thousand Nine Hundred & Seventy Only
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : a)1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	47	cum	7900.00	371300.00	INR Three Lakh Seventy One Thousand Three Hundred Only
8	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	7	cum	7900.00	55300.00	INR Fifty Five Thousand Three Hundred Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
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1	2	4	5	13	53	55
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights : a) Foundations, footings, bases of columns, etc. for mass concrete	11	sq.mtr	380.00	4180.00	INR Four Thousand One Hundred & Eighty Only
10	Centering and shuttering including strutting, propping etc. and removal of form for all heights : b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	220.00	sq.mtr	380.00	83600.00	INR Eighty Three Thousand Six Hundred Only
11	Centering and shuttering including strutting, propping etc. and removal of form for all heights : c) Suspended floors, roofs, landings, balconies and access platform	38	sq.mtr	360.00	13680.00	INR Thirteen Thousand Six Hundred & Eighty Only
12	Edges of slabs and breaks in floors and walls a) Under 20 cm wide	21	mtr	150.00	3150.00	INR Three Thousand One Hundred & Fifty Only
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level : a) Thermo-Mechanically Treated bars of grade Fe-500D or more	6500	kg	80.00	520000.00	INR Five Lakh Twenty Thousand Only
14	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 : a) Cement mortar 1:6 (1 cement : 6 coarse sand)	11	cum	5200.00	57200.00	INR Fifty Seven Thousand Two Hundred Only
15	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. a) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4	sq.mtr	2800.00	11200.00	INR Eleven Thousand Two Hundred Only
16	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : a) 300x16 mm	2	each	230.00	460.00	INR Four Hundred & Sixty Only
17	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : a) 125 mm	4	each	52.00	208.00	INR Two Hundred & Eight Only
18	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: a) Profile B i) Fixing with adjustable lugs with split end tail to each jamb	6	mtr	400.00	2400.00	INR Two Thousand Four Hundred Only
19	12 mm cement plaster of mix : a) 1:6 (1 cement: 6 fine sand)	50	sq.mtr	200.00	10000.00	INR Ten Thousand Only
20	15 mm cement plaster on the rough side of single or half brick wall of mix : a) 1:6 (1 cement: 6 fine sand)	42	sq.mtr	220.00	9240.00	INR Nine Thousand Two Hundred & Forty Only
21	6 mm cement plaster of mix : a) 1:3 (1 cement : 3 fine sand)	39	sq.mtr	180.00	7020.00	INR Seven Thousand & Twenty Only
22	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams	220	sq.mtr	200.00	44000.00	INR Forty Four Thousand Only
23	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. a) Two or more coats on new work	42	sq.mtr	36.00	1512.00	INR One Thousand Five Hundred & Twelve Only

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1	2	4	5	13	53	55
24	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: a) New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	47	sq.mtr	120.00	5640.00	INR Five Thousand Six Hundred & Forty Only
25	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : a) Two or more coats on new work	1	sq.mtr	170.00	170.00	INR One Hundred & Seventy Only
26	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. i) External work PN - 16 Pipe, 32 mm OD (SDR-7.4)	370	mtr	300.00	111000.00	INR One Lakh Eleven Thousand Only
27	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. i) External work a) PN - 10 Pipe, 50 mm OD (SDR-11)	330	mtr	550.00	181500.00	INR One Lakh Eighty One Thousand Five Hundred Only
28	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000	ltr	10.80	21600.00	INR Twenty One Thousand Six Hundred Only
29	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : a) 150 mm diameter	300	mtr	450.00	135000.00	INR One Lakh Thirty Five Thousand Only
30	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : a) 150 mm diameter S.W. pipe	300	mtr	950.00	285000.00	INR Two Lakh Eighty Five Thousand Only
31	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : a) Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : i) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	12	each	10000.00	120000.00	INR One Lakh Twenty Thousand Only
32	Extra for depth for manholes a) Size 120x90 cm i) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	12	mtr	1600.00	19200.00	INR Nineteen Thousand Two Hundred Only
33	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	81	each	450.00	36450.00	INR Thirty Six Thousand Four Hundred & Fifty Only
34	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality a) MD-10 i) Circular shape 500 mm internal diameter	9	each	990.00	8910.00	INR Eight Thousand Nine Hundred & Ten Only
35	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work. 80 mm dia nominal bore	5	mtr	850.00	4250.00	INR Four Thousand Two Hundred & Fifty Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
36	Supplying and fixing C.I. cover without frame for manholes : 560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	5	each	10000.00	50000.00	INR Fifty Thousand Only
37	SH-II: SITC of STP Design, Supply, Installation, Testing & Commissioning of RCC tank based Package type Sequencing Batch Reactor (SBR) based Sewage Water Treatment Plant of 15 KLD Capacity System. The RCC Tanks & the Unit Should be suitable for all phases (loading, Aeration, rest, clear water extraction) Semi treated water from settling / Sedimentation zone shall be tertiary treated using a pressure sand filter, Activated Carbon Filter (ACF) followed by chlorine dosing system / Ultra Violet (UV) filtration. Plant must have fully automatic operation i/c IoT controller, alarm for CIP & mains failure . The system must have adequate retention times for all process including min. 4 Hrs. per batch for Aeration. System must be designed to meet the outlet parameters given below. The system must be provided with UV based disinfection at the final outlet. Inlet Effluent Characteristics: pH - 6.5 –8.5 BOD - 200-350Mg/L S. Solids - 200-500 Mg/L COD - 400-600 Mg/L Oil & Grease - 40-50 Mg / L Discharge Effluent Characteristics after UF Treatment pH - 6.0 – 8.0 BOD - Less than 20 Mg/L S. Solids - Less than 10 Mg/L COD - Less than 50 Mg/L Oil & Grease - Less than 10 Mg/L SBR type Sewage treatment plant shall include the following items:(Complying Relevant IS / International standard if any) Mounting parts / Air lifting units for water transfer in the collection, aeration and treated water tanks. Charging air lifter (Collection to Aeration) Clear water air lifter i.e. Discharge unit (Aeration to Treated water Tank) Excessive air sludge lifter i.e. Sludge return unit (Aeration to Collection Tank) minimum- 4/6 units or as required in the site. MOC: As per OEM & Make shall be as per OEM/ list of approved make Air Diffusion system (Fine Bubble tubular) EPDD / EPDM with SS Diffuser stands etc. as required in the site. MOC: As per OEM & Make shall be as per OEM/ list of approved make	1	Job	1000000.00	1000000.00	INR Ten Lakh Only
37.01	Air Compressor/Blowers - Size shall be as per OEM & Make shall be as per OEM/ list of approved make. Filter feed Pump (1W + 1S) - Size shall be as per OEM & Make shall be as per OEM/ list of approved make. Solenoid valve 1 set of 4 Nos, Valve (1 No) stand and their arrangement as per requirement. Airhose, Piping, valves, clamps etc. as per requirement Tertiary treatment system of minimum capacity 1KLPH with MGF / Pressure sand filter and Activated carbon filter with chlorine dosing / UV filtration system. NOTE: i) Electrical cable from STP electrical panel to all STP equipments (internal wiring) and all mechanical parts involved shall also be included in quoted price. iii) Contractor shall ensure submission of detailed GA drawings (Plan & Section), P & I diagram, schematic diagram for the above system including additional component if so required for the complete working of the STP before procurement of material for approval from Engineer-In-charge.					
38	Supply of following size of 1.1 KV grade multicore aluminium conductor PVC insulated / XLPE insulated and PVC sheathed armoured cable as per IS-1554 (Part-I) 1988/IS-7098 (Part-I) 1985 respectively with upto date ammendments. a) 3.5C x 120 Sq.mm	400	mtr	600.00	240000.00	INR Two Lakh Forty Thousand Only
39	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. a) Above 95 Sq.mm and upto 185 Sq.mm	380	mtr	350.00	133000.00	INR One Lakh Thirty Three Thousand Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
40	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC / Hume / Stoneware / GI pipe / HDPE / DWC Pipe as required. a) Above 95 Sq.mm and upto 185 Sq.mm	12	mtr	350.00	4200.00	INR Four Thousand Two Hundred Only
41	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in masonry open duct etc as required. a) Above 95 Sq.mm and upto 185 Sq.mm	8	mtr	350.00	2800.00	INR Two Thousand Eight Hundred Only
42	Providing and fixing of 50 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings in existing trench etc as required.	10	mtr	300.00	3000.00	INR Three Thousand Only
43	Supplying and making end termination with brass compression gland and aluminium lugs for 31/2 x 120 Sq.mm (45 mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	4	set	350.00	1400.00	INR One Thousand Four Hundred Only
44	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm x 60 cm at the bottom and 50 cm x 50 cm at the top with a thickness of 10 cm i/c inscription duly engraved as required.	5	each	1800.00	9000.00	INR Nine Thousand Only
45	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 metre long etc. with charcoal/ coke and salt as required.	4	set	2800.00	11200.00	INR Eleven Thousand Two Hundred Only
46	Supplying and laying 25 mm x 5 mm GI strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	40	mtr	180.00	7200.00	INR Seven Thousand Two Hundred Only
47	Providing and fixing 25 mm x 5 mm GI strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	40	mtr	200.00	8000.00	INR Eight Thousand Only
48	Providing and fixing 25 mm x 5 mm GI strip on surface or in recess for connections etc. as required.	40	mtr	150.00	6000.00	INR Six Thousand Only
49	SITC of Centrifugal, Monoblock, Treated water pump to transfer water from treated water tank with following specifications a) Discharge of 2 m3/hr at 25 meter head (Minimum), b) minimum 1HP 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	no	30000.00	60000.00	INR Sixty Thousand Only

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
50	Fabrication, Supply, installation, testing and commissioning of Motor Control Center (MCC) Panel with all accessories for Auto / Manual On / Off control of entire 10 KLD Packaged type sewage treatment plant of SBR technology, fabricated from 14 SWG M.S sheet, totally enclosed, free standing, floor mounted / wall mounted, powder coated, fabricated from CPRI approved panel manufacture with following accessories. Incomer : a) 4 Pole MCCB 100 Amp 25 KA - 1 No b) Aluminium Bus Bar R, Y, B, N, 100 Amp - 1 Set Out goings : (a) 16 Amps 3 Pole MCB, DOL Starter with OLR, SPP for SBR Blowers - 1.5 HP - 2 Nos (b) 16 Amps 3 Pole MCB, DOL Starter with OLR, SPP for Submersible Sewage Pump 1 HP - 02 Nos (c) 16 Amps 3 Pole MCB, DOL Starter with OLR, SPP for Filter Feed Pump 1HP - 2 Nos (d) 16 Amps 3 Pole MCB, DOL Starter with OLR, SPP for Treated Water Pump 1 HP - 2 Nos (e) Supply and laying of PVC insulated, PVC sheathed Copper armoured cable i/c cable glanding, 1) 1 run of 1.5 Sq.mm cable for blower motor - 2 Run 2) 1 run of 1.5 Sq.mm submersible cable for submersible pumps - 2 Run	1	no	150000.00	150000.00	INR One Lakh Fifty Thousand Only
50.01	3) 1 run of 1.5 Sq.mm cable for Filter feed pumps - 2 Run 4) 1 run of 1.5 Sq.mm cable for sludge pumps - 2 Run (f) 8 SWG GI earth - 2 Run to all individual motors and main panel (g) Push Button ON and OFF with ON red coloured LED Indication / contactor / OLR / outgoing connectors i/c wirings - 09 Set (1 Set Spare) (h) RYB LED indication - 1 Set (i) 96mm x 96mm Digital Voltmeter with Selector Switch - 1 No (j) 96mm x 96mm Digital Ammeter with Selector Switch and CTS - 1 Set i/c all interconnections etc. (k) 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 Nos. 8 SWG GI earthings to all equipment, Providing and laying of all communication and control cables complete as required)					
51	SH-III: Operation and maintenance Operation and comprehensive maintenance of complete 15 KLD Sewage Treatment Plant on 1 shift per day basis for all days i/c Sundays and holidays (One trained Technician cum Operator in 1 shift per day, 6 days in a week and one trained Technician cum operator as reliever, for Sundays and Holidays) with uniform, necessary tools, consumable items such as cotton waste, grease, UV lamp, Chemicals, safety materials/equipment such as shoes, gloves, mask etc. monitoring and maintaining the required registers, monthly testing of treated water from the State govt. approved Lab/ NABL accredited Lab, monitoring the reading of water meter etc. as required and as per specification.					
51.1	a) First Year (During Defect Liability Period) for Operation only (22.9% on SH-II SITC of STP Cost i.e. from Item 37 to 50)	1	Year	374598.20	374598.20	INR Three Lakh Seventy Four Thousand Five Hundred & Ninety Eight and Paise Twenty Only
51.2	b) Second Year (After Defect Liability Period), for Operation and AICMC (5.3% over 1st year Cost)	1	Year	394451.90	394451.90	INR Three Lakh Ninety Four Thousand Four Hundred & Fifty One and Paise Ninety Only
51.3	c) Third Year (After Defect Liability Period), for Operation and AICMC (5.5% over 2nd year Cost)	1	Year	416146.75	416146.75	INR Four Lakh Sixteen Thousand One Hundred & Forty Six and Paise Seventy Five Only
51.4	d) Fourth Year (After Defect Liability Period), for Operation and AICMC (5.7% over 3rd year Cost)	1	Year	439867.11	439867.11	INR Four Lakh Thirty Nine Thousand Eight Hundred & Sixty Seven and Paise Eleven Only
51.5	e) Fifth Year (After Defect Liability Period), for Operation and AICMC (6% over 4th year Cost)	1	Year	466259.14	466259.14	INR Four Lakh Sixty Six Thousand Two Hundred & Fifty Nine and Paise Fourteen Only
Total in Figures					6078823.10	INR Sixty Lakh Seventy Eight Thousand Eight Hundred & Twenty Three and Paise Ten Only
Quoted Rate in Words		INR Sixty Lakh Seventy Eight Thousand Eight Hundred & Twenty Three and Paise Ten Only				

मो. सदरुल हुदा
05/04/2023
मो. सदरुल हुदा / Md. Sadrul Huda
सहायक महाप्रबंधक (अभि.-विद्युत) / Asst. General Manager (Engg-Elect.)
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
प. भे. मुख्यालय, मुंबई / WR, Mumbai - 400 099.