



भारतीय विमानपत्तन प्राधिकरण
पश्चिमी क्षेत्र मुख्यालय
AIRPORTS AUTHORITY OF INDIA
WESTERN REGION, HQRS.

संदर्भ सं.: भाविप्रा/प.क्षे./स.म.प्र (इंजी-विद्युत)/भुज/सीडब्लू-02/2023-24/ 934
Ref. No: AAI/WR/AGM(E-E)/BHU/CW-02/2023-24/

दिनांक: 11.10.2023
Date: 11.10.2023

सेवा में/ To,

मेसर्स हाई-टेक स्वीट वाटर टेक प्रा. लिमिटेड/ M/s Hi-tech Sweet Water Tech. Pvt. Ltd.,
डब्ल्यू जेड-249 ए / WZ-249 A,
इंद्रपुरी, नई दिल्ली-110012/ Inderpuri, New Delhi-110012,

विषय/ Sub: भुज विमानपत्तन में एस.बी.आर तकनीक पर आधारित 25 के.एल.डी सीवेज ट्रीटमेंट प्लांट की आपूर्ति, स्थापना, परीक्षण और कमीशनिंग एवं 05 वर्ष संचालन और ऐ.आई.सी.एम.सी का कार्य।
Supply, Installation, Testing & Commissioning of SBR Based 25 KLD Sewage Treatment Plant including Operation and AICMC for 05 yrs at Bhuj Airport.

संदर्भ: आपकी ई-निविदा नं. 2023_AAI_164937_1 दिनांक 27.09.2023 को खोला गया।

Your e-tender id. 2023_AAI_164937_1 opened on Dated 27.09.2023.

महोदय,/ Dear Sir(s),

- उल्लेखित कार्य हेतु आपके द्वारा बताए गये मद मूल्यों पर आपकी ई-निविदा राशि कुल रु. 54,53,606.00 (रुपए चौवन लाख तिरपन हजार छे सौ छे मात्र) + जीएसटी है, जो कि ई-निविदा की उचित लागत राशि रु. 58,65,931/- से 7.03 % 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. 54,53,606/- (Rupees Fifty Four Lakh Fifty Three Thousand Six hundred Six only)** which is **7.03 % below** the Justified cost of **Rs.58,65,931/-**. 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 20.10.2023 तक सहा.महाप्रबंधक (इंजी-विद्युत), भाविप्रा, परिचालन कार्यालय भवन, न्यू 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 20.10.2023 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

क्षेत्रीय कार्यपालक निदेशक का कार्यालय, पारसीवाडा के सामने, सहार रोड, विलेपार्ले (पूर्व), मुंबई - 400 099.
Office of the Regional Executive Director, Opp. Parshiwada, Sahar Road, Vile Parle (E), Mumbai - 400 099.

☎ 91-22-29217400

ए.टी.एस. कॉम्प्लेक्स, सहार कार्गो के पास, सुतार पखाडी रोड, सहार, मुंबई - 400 099.

☎ 91-22-26819300

ATS Complex, Near Sahar Cargo, Sutar Pakadi Road, Sahar, Mumbai - 400 099.



3. कृपया रु. 5,45,360.00(रुपये पाँच लाख पैंतालीस हजार तीन सौ साठ 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.5,45,360.00 (Rupees Five Lakh Forty Five Thousand Three Hundred & Sixty 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), भुज हवाईअड्डा से संपर्क करें जो आपको साईट सौंपने की व्यवस्था करेंगे।

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

6. कृपया आप से अनुरोध है की दिनांक **20.10.2023** से काम शुरू करें। कृपया ध्यान दे की **सिविल एव एस.आई.टी.सी** कार्य को पूरा करने के लिए दिनांक **19.02.2024** तक का समय दिया गया है।

You are requested to start the work from **20.10.2023**. Please note that time allowed for completion of Civil and SITC work is up to **19.02.2024**.

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 (पुर्व), 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,

भवदीय / Yours faithfully,

Encl: 1. SOQ

Sd/-

(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



संदर्भ सं.: भाविप्रा/प.क्षे./स.म.प्र (इंजी-विद्युत)/भुज/सीडब्लू-02/2023-24/ 934

दिनांक: 11.10.2023

Ref. No: AAI/WR/AGM(E-E)/BHU/CW-02/2023-24/

Date: 11.10.2023

N.O.O.:-

External:

प्रतिलिपी/ Copy to:

1. Regional Enforcement Officer (Central), Ministry of Labour, Govt. of India, Kothi Compound, Rajkot-360001.
2. Regional Provident Fund Commissioner, Panchayat Nagar Chowk, University Road Rajkot-360 005
3. O/o Additional commissioner of Income Tax, Aaykar Bhavan, plot no. 20/A, Sector no .8, B/h KPT AO building, Gandhidham, Kutch, Gujarat-370201

आंतरिक / Internal -

1. महाप्रबंधक (इंजी.), भाविप्रा, प.क्षे. मुख्यालय, मुंबई- 400 099
General Manager (Engg.), WR, RHQ, Mumbai-400 099.
2. संयुक्त महाप्रबंधक (इंजी-विद्युत), भाविप्रा, प.क्षे. मुख्यालय, मुंबई- 400 099
Jt.GM (Engg.-E), WR,RHQ,Mumbai-400 099.
3. उपमहाप्रबंधक (इंजी-सी), भाविप्रा, प.क्षे. मुख्यालय, मुंबई- 400 099
Dy.GM (Engg.-C), WR,RHQ,Mumbai-400 099.
4. उपमहाप्रबंधक (सतर्कता), भाविप्रा, प.क्षे. मुख्यालय, मुंबई- 400 099
Dy.GM(Vigilance), WR,RHQ, Mumbai-400 099.
5. संयुक्त महाप्रबंधक (वित्त), भाविप्रा, प.क्षे. मुख्यालय, मुंबई- 400 099
Jt.GM (Fin), WR,RHQ, Mumbai-400 099.
6. वरिष्ठ प्रबंधक (इंजी-सिविल), भाविप्रा, प.क्षे. मुख्यालय, मुंबई- 400 099
SM (Engg-C), AAI, WR,RHQ, Mumbai-400 099 .
7. विमानपत्तन निदेशक, भुज हवाईअड्डा / Airport Director, AAI, Bhuj Airport
8. सहायक प्रबंधक (इंजी-विद्युत)-I, भुज हवाईअड्डा / Asstt.Mgr.(E-E)-I, AAI, Bhuj Airport.
9. सहायक प्रबंधक (इंजी-विद्युत)-II, भुज हवाईअड्डा / Asstt.Mgr.(E-E)-II, AAI, Bhuj Airport.
10. करारनामा प्रति/ Agreement copy.
11. कार्य फाईल/ Work File.

भवदीय / Yours faithfully,

मो. सदरुल हुदा

(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

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Item Rate BoQ

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

Name of Work: "Supply, Installation, Testing & Commissioning of SBR Based 25 KLD Sewage Treatment Plant including Operation and AICMC for 05 yrs at Bhuj Airport"

Tender ID: 2023_AAI_164937_1

Name of the Bidder/
Bidding Firm /
Company : HITECH SWEET WATER TECH 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. - All kinds of soil	105.60	cum	150.00	15840.00	INR Fifteen Thousand Eight Hundred & Forty Only
2	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 - Ordinary rock	139.27	cum	160.00	22283.20	INR Twenty Two Thousand Two Hundred & Eighty Three and Paise Twenty Only
3	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. Ordinary or hard rock	139.27	cum	135.00	18801.45	INR Eighteen Thousand Eight Hundred & One and Paise Forty Five Only
4	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 - Ordinary rock : -Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	70.00	metre	200.00	14000.00	INR Fourteen Thousand Only
5	Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre)	70.00	metre	245.00	17150.00	INR Seventeen Thousand One Hundred & Fifty Only
6	CARRIAGE OF MATERIALS By Mechanical Transport including loading,unloading and stacking Excavated rock upto 1Km	139.27	cum	125.00	17408.75	INR Seventeen Thousand Four Hundred & Eight and Paise Seventy Five Only
7	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 : 300 mm diameter S.W. pipe	70	cum	227.00	15890.00	INR Fifteen Thousand Eight Hundred & Ninety Only
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	10.75	cum	235.00	2526.25	INR Two Thousand Five Hundred & Twenty Six and Paise Twenty Five Only
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	10.42	cum	390.00	4063.80	INR Four Thousand & Sixty Three and Paise Eighty Only
10	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.Concrete of M30 grade with minimum cement content of 350 kg /cum	47.86	cum	235.00	11247.10	INR Eleven Thousand Two Hundred & Forty Seven and Paise Ten Only

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1	2	4	5	13	53	55
11	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	6757.92	kg	20.00	135158.40	INR One Lakh Thirty Five Thousand One Hundred & Fifty Eight and Paise Forty Only
12	Centering and shuttering including strutting, propping etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	254.4	sq.mtr	165.00	41976.00	INR Forty One Thousand Nine Hundred & Seventy Six Only
13	Centering and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	73.82	sq.mtr	80.00	5905.60	INR Five Thousand Nine Hundred & Five and Paise Sixty Only
14	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete	35	sq.mtr	100.00	3500.00	INR Three Thousand Five Hundred Only
15	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)	41.04	cum	165.00	6771.60	INR Six Thousand Seven Hundred & Seventy One and Paise Sixty Only
16	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	41.04	sq.mtr	200.00	8208.00	INR Eight Thousand Two Hundred & Eight Only
17	12 mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand)	41.04	sq.mtr	210.00	8618.40	INR Eight Thousand Six Hundred & Eighteen and Paise Forty Only
18	Providing and fixing soil, waste and vent pipes rigid pvc pipe having working pressure 6kg/sqm including jointing of pipes & fittings with one step solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 110 mm	50	metre	210.00	10500.00	INR Ten Thousand Five Hundred Only
19	Providing and fixing soil, waste and vent pipes rigid pvc pipe having working pressure 10kg/sqm including jointing of pipes & fittings with one step solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 110 mm	80	metre	215.00	17200.00	INR Seventeen Thousand Two Hundred Only
20	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15)	8	kg	255.00	2040.00	INR Two Thousand & Forty Only
21	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)	6.7	kg	555.00	3718.50	INR Three Thousand Seven Hundred & Eighteen and Paise Fifty Only
22	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge Pre-laminated particle board with decorative lamination on both sides	2.1	sq.mtr	7000.00	14700.00	INR Fourteen Thousand Seven Hundred Only
23	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	46.64	kg	124.00	5783.36	INR Five Thousand Seven Hundred & Eighty Three and Paise Thirty Six 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
24	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required	13.75	sq.mtr	100.00	1375.00	INR One Thousand Three Hundred & Seventy Five Only
25	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality L D- 2.5Rectangular shape 600x450 mm internal dimensions	10	each	267.00	2670.00	INR Two Thousand Six Hundred & Seventy Only
26	Providing and laying non-pressure NP2 class (light duty) R.C.C.pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :300 mm dia. R.C.C. pipe	70	mtr	255.00	17850.00	INR Seventeen Thousand Eight Hundred & Fifty Only
27	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement: 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel 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, all complete as per standard design :0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter con forming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.(Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :With common burnt clay F.P.S. (non modular)bricks of class designation 7.5	4	each	225.00	900.00	INR Nine Hundred Only
28	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 mWith common burnt clay F.P.S. (non modular) bricks ofclass designation 7.5	4	each	455.00	1820.00	INR One Thousand Eight Hundred & Twenty Only
29	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in ChargeExternal work40 mm nominal dia Pipes	100	metre	355.00	35500.00	INR Thirty Five Thousand Five Hundred Only
30	Providing and fixing gun metal gate valve with C.I. wheel of approvedquality (screwed end) :40 mm nominal bore	2	each	1800.00	3600.00	INR Three Thousand Six Hundred Only
31	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 250 to 300 mm diameter	5	each	1500.00	7500.00	INR Seven Thousand Five Hundred Only
32	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	litre	10.00	20000.00	INR Twenty Thousand Only
33.0	SH-II: SITC of STP Design, Supply, Installation, Testing & Commissioning of RCC tank based on Sequencing Batch Reactor (SBR), Sewage Water Treatment Plant of 25 KLD Capacity System. The Tank should be suitable for installation with underground RCC tank (designed as per OEM) & 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 UV filtration system. 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. 8 Hrs. for Aeration. System must be designed to meet the outlet parameters given below. 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 Tertiary 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	1	Job	1800000.00	1800000.00	INR Eighteen Lakh Only

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1	2	4	5	13	53	55
33.1	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 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 list of approved make Air Blowers - Size shall be as per OEM & Make shall be as per list of approved make. Filter feed Pumps (1 working and 1 standby) - Size shall be as per OEM & Make shall be as per list of approved make. Solenoid valve sets (4 Nos), Valve (1 No) stands and their arrangement as per requirement. Airhose, Piping, valves, clamps etc. as per requirement Tertiary treatment system (1 working and 1 standby) of minimum capacity 1.5KLPH with MGF/ Pressure sand filter and Activated carbon filter with UV filtration system. Make shall be as per list of approved make. 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. ii) 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.					
34	SH-III: Electrical Works Supplying and laying of 50 mm dia (OD-50mm & ID 40 mm nominal) size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS:14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	150	metre	766.00	114900.00	INR One Lakh Fourteen Thousand Nine Hundred Only
35	Supply of LT power cable of 3.5C x 50 Sq.mm , 1.1 KV grade of aluminum conductor PVC insulated/ XLPE insulated and PVC sheathed armoured cable conforming to IS-5554 (Part-I) 1988/ IS-7098 (Part-I) 1985 respectively with upto date amendment as required.	200	metre	899.00	179800.00	INR One Lakh Seventy Nine Thousand Eight Hundred Only
36	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. Above 35 sq. mm and upto 95 sq. mm	150	metre	855.00	128250.00	INR One Lakh Twenty Eight Thousand Two Hundred & Fifty Only
37	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	200	metre	800.00	160000.00	INR One Lakh Sixty Thousand Only
38	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5C x 50 Sq.mm (35mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	2	set	750.00	1500.00	INR One Thousand Five Hundred Only
39	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.	2	job	5000.00	10000.00	INR Ten Thousand Only
40	Providing and fixing 25 mm x 5 mm GI 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.	40	metre	800.00	32000.00	INR Thirty Two Thousand Only
41	Providing and fixing 25 mm x 5 mm GI strip on surface or in recess for connections etc. as required.	40	metre	800.00	32000.00	INR Thirty Two Thousand Only

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1	2	4	5	13	53	55
42	Fabrication, Supply, installation, testing and commissioning of Motor Control Center (MCC) Panel with all accessories for Auto/ Manual On/Off control of entire 25 KLD 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 Filter Feed Pump 1HP - 2 Nos (c) 16 Amps 3 Pole MCB, DOL Starter with OLR, SPP for Treated Water Pump 1 HP - 2 Nos (d) 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 cable for Filter feed pumps - 2 Run (e) 8 SWG GI earth - 2 Run to all individual motors and main panel (f) Push Button ON and OFF with ON red coloured LED Indication / contactor / OLR / outgoing connectors i/c wirings - 09 Set (1 Set Spare) (g) RYB LED indication - 1 Set (h) 96mm x 96mm Digital Voltmeter with Selector Switch - 1 No (i) 96mm x 96mm Digital Ammeter with Selector Switch and CTS - 1 Set i/c all interconnections etc. (j) 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)	1	Job	255000.00	255000.00	INR Two Lakh Fifty Five Thousand Only
43	SH-IV: Operation and All Inclusive Comprehensive Maintenance All inclusive Comprehensive maintenance and Operation of complete 25 KLD S.T.P on 1 shift basis with reliever for all days i/c Sundays and holidays (One trained Technician cum Operator) with uniform, necessary tools, consumable items such as cotton waste, grease, UV lamp, Chemicals, safety materials such as shoes, gloves, mask etc. monitoring and maintaining the required registers, Quarterly testing of treated water from the NABL accredited lab/State govt approved Lab, monitoring the reading of water meter etc. as required and as per direction of Engineer Incharge.					
43.1	a) First Year (During Defect Liability Period) for Operation only (22.06% on item no. 33 of SH-II SITC of STP)	1	Year	397080.00	397080.00	INR Three Lakh Ninety Seven Thousand & Eighty Only
43.2	b) Second Year (After Defect Liability Period), for Operation and AICMC (5.93% over 1st year Cost)	1	Year	420627.00	420627.00	INR Four Lakh Twenty Thousand Six Hundred & Twenty Seven Only
43.3	c) Third Year (After Defect Liability Period), for Operation and AICMC (6.16% over 2nd year Cost)	1	Year	446538.00	446538.00	INR Four Lakh Forty Six Thousand Five Hundred & Thirty Eight Only
43.4	d) Fourth Year (After Defect Liability Period), for Operation and AICMC (6.38% over 3rd year Cost)	1	Year	475027.00	475027.00	INR Four Lakh Seventy Five Thousand & Twenty Seven Only
43.5	e) Fifth Year (After Defect Liability Period), for Operation and AICMC (6.60% over 4th year Cost)	1	Year	506379.00	506379.00	INR Five Lakh Six Thousand Three Hundred & Seventy Nine Only
Total in Figures					5453606.41	INR Fifty Four Lakh Fifty Three Thousand Six Hundred & Six and Paise Forty One Only
Quoted Rate in Words	INR Fifty Four Lakh Fifty Three Thousand Six Hundred & Six and Paise Forty One Only					

मो. सदरुल हुदा
11.10.2023

मो. सदरुल हुदा / Md. Sadrul Huda

Asst. General Manager (Engg. Deptt.)

भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India

प. क्षे. मुख्यालय, मुंबई / WR, Mumbai - 400 099.