

दूरभाष कार्यालय : 2511-9600

भारतीय विमानपत्तन प्राधिकरण

पूर्वी क्षेत्र, न.सुच.ब.अ. विमानपत्तन., कोलकाता



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

Tel. Office : - 2511-9600

AIRPORTS AUTHORITY OF INDIA
Eastern Region, N.S.C.B.I. Airport, Kolkata - 52

संदर्भ सं /Ref. No:- AAI/KOL/ENGG(C)/W.O. – 03/2024-25/92 दिनांक /Date :- 18.06.2024

सेवा में/To

मे. भट्टाचार्या कन्स्ट्रक्शन

M/s. Bhattacharyya Construction

महाजाति नगर, ब्लॉक नंबर - 4,

Mahajati Nagar, Block No. – 4,

बिराटी,

Birati,

कोलकाता / KOLKATA – 700 051.

विषय/Sub :- अपग्रेडेशन ऑफ क्वार्टर नंबर 598 टु हॉस्टल अककोमोडेशन

/ गेस्ट हाउस एट न्यू क्वार्टर रेज़िडेन्शियल एरिया एट

एनएससीबीआई एयरपोर्ट कोलकाता।

Upgradation of Qtr. No. 598 to Hostel accommodation / Guest House at New Quarters Residential Area at NSCBI Airport, Kolkata.

संदर्भ/ Ref. : (i) आपकी इ निविदा खोला गया 22-04-2024

Your E-Bid opened on 22-04-2024.

खुली निविदा आईडी: 2024_AAI_187328_1

[Open Tender ID: 2024_AAI_187328_1]

महोदय /Dear Sir (s),

- उपरोक्त कार्य की रुपया 1,30,85,834.00 (जीएसटी रहित) (एक करोड़ तीस लाख पचासी हजार आठ सौ चैंतीस रुपये मात्र) की मद दर निविदा, जो कि कार्य कि अनुमानित लागत रुपया 2,20,69,519.00 (दो करोड़ बीस लाख उनहतर हजार पाँच सौ उन्नीस रुपये मात्र) से 40.71% (चार शुन्य दशमलव सात एक) कम है, आपके द्वारा निविदा प्रपत्र में दर्शायी गयी मद दरों पर भरी गई है, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है।

Your 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 totalling to Rs. 1,30,85,834.00 (Excl. GST) (Rupees One Crore Thirty Lakh Eighty-Five Thousand Eight Hundred Thirty-Four Only) which is 40.71% (Four Zero Point Seven One Percent) below the estimated cost put to tender of Rs. 2,20,69,519.00 (Rupees Two Crore Fifty Twenty Lakh Sixty-Nine Thousand Five Hundred Nineteen Only).

Contd. /-2

2. सहा. महाप्रबन्धक (अभि- सिविल), क्षेत्रीय कार्यपालक निदेशक (पूर्वी क्षेत्र) का कार्यालय, ए ए आइ, एन एस सी बी आइ एयरपोर्ट, कोलकाता -52 इस कार्य के कार्य प्रभारी अभियन्ता होंगे। आपसे अनुरोध है कि दिनांक 24 जून 2024 तक संयुक्त महा प्रबन्धक (अभि- सिविल), ए ए आइ, एनएससीबीआई एयरपोर्ट कोलकाता-52 के कार्यालय में उपस्थित होकर संविदा अनुबंध को हस्ताक्षरित कर पूर्ण करें। अनुबंध 100/- रुपये के गैर न्यायिक स्टाम्प पेपर पर सम्पादित किया जाएगा, स्टाम्प पेपर की कीमत आपके द्वारा वहन की जाएगी।

Asstt. Gen. Manager (E-C), O/o The Regional Executive Director (E/R), Airports Authority of India, N.S.C.B.I. Airport, Kolkata - 52 shall be the Engineer-in-charge of the work. You are requested to attend the office of Jt. Gen. Manager (E-C), O/o The Regional Executive Director (E/R), Airports Authority of India, NSCBI Airport, Kolkata - 52 by **28-06-2024** to sign and complete the agreement. The contract agreement shall be executed on a **non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred only)** and the cost of the stamp paper shall be borne by you.

3. निविदा के साथ प्राप्त धरोहर राशि रुपया 4,41,390/- (चार लाख एकतालीस हजार तीन सौ नब्बे रुपये मात्र) को संविदा के पृष्ठ संख्या 16 के शर्त संख्या 1A के अनुसार प्रतिभूति निक्षेप राशि का हिस्सा मानकर उसमें बदल दिया गया है। कृपया शेष प्रतिभूति निक्षेप राशि रुपया 8,67,193/- (आठ लाख सड़सठ हजार एक सौ तिरानब्बे रुपये मात्र) इस पत्र के निर्गत दिनांक से दस दिनों के भीतर जमा करें अन्यथा उक्त धनराशि की कटौती संविदा प्रपत्र की उक्त संदर्भित शर्त संख्या 1A पृष्ठ संख्या 16 के अनुसार की जाएगी।

The Earnest Money amount of **Rs. 4,41,390/- (Rupees Four Lakh Forty-One Thousand Three Hundred Ninety Only)** received along with your tender will be treated and converted as part of **Security Deposit**, as per **Clause No. 1A on Page No. – 16 of General Conditions of Contract**. Please deposit **Rs. 8,67,193/- (Rupees Eight Lakh Sixty-Seven Thousand One Hundred Ninety-Three Only)** towards balance security deposit within **10 (Ten) days** from the date of issue of this letter, failing which the same will be deducted as per **clause 1A on page 16 of General Conditions of Contract**.

4. आपसे अनुरोध है कि संविदा श्रमिक प्रावधान (विनियम एवं उन्मूलन) एक्ट 1970, श्रमिक प्रावधान (विनियम एवं उन्मूलन) - केन्द्रीय नियम 1971 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिकों (रोजगार और सेवा की शर्तों का विनियमन) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण उपकर अधिनियम 1996 आदि में समय-समय पर या किसी अन्य कानून से संबंधित संशोधन और नियमों से संबंधित नियम बनाए गए केंद्र और राज्य सरकारों के समय-समय पर नियमों का पालन करना सुनिश्चित करें।

You are requested to comply with the provision of contract labour (Regulation & Abolition) Act of 1970 and contract labour (Regulation & Abolition) Central Rules, 1971, Child Labour (Prohibition & Regulation) Act 1986, Construction workers (Regulation of Employment and Conditions of Service) Act 1996, Building and other Construction workers Welfare Cess Act 1996 etc. amended from time to time or any other laws relating thereto and rules made there under from time to time of Central and State Governments.

Contd. /-3



5. आपको निर्देशित किया जाता है कि आप तुरंत प्रभाव से सहायक प्रबंधक (इंजी-सिविल), ए ए आइ, एनएससीबीआई एयरपोर्ट, कोलकाता से सम्पर्क करें जो आपको कार्यस्थल सौंपने की व्यवस्था करेंगे।

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

6. कृपया ध्यान दें कि कार्य पूर्ण करने की अवधि 135 (एक सौ पैंतीस) दिन है जो इस पत्र के जारी होने की तिथि से दसवें दिन से प्रभावी मानी जाएगी।

Please note that the time allowed for carrying out the work is **135 (One Hundred Thirty-Five) Days** and shall be reckoned from the tenth day after issue of this letter.

7. संविदा के सन्दर्भ में किसी भी प्रकार का पत्राचार सामान्यता अभियंता प्रभारी को सम्बोधित करें।

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

8. कृपया इस पत्र की पावती भेजे एवं पत्र की अनुलिपि जो कि संलग्न है को हस्ताक्षरित कर अधोहस्ताक्षरी को स्वीकृत चिन्ह के रूप में वापस करें।

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

9. उपरोक्त के हिन्दी पाठ में कोई अंतर या द्विधरथकथा होने की स्थिति में अँग्रेजी पाठ मान्य होगा।

In case of difference or ambiguity in Hindi and English version, the English version will prevail.

भवदीय /Yours faithfully,

Encl:- BOQ

Sd-

(विनय प्रकाश / Vinay Prakash)

सहा. महाप्रबन्धक (इंजी -सि)/Asstt. Gen. Manager (E-C)

प्रथम तल, परिचालन कार्यालय

1st Floor, Operational Office,

भाविप्रा, नेसुचबोअ हवाईअड्डा, कोलकाता - 52

AAI, N.S.C.B.I. Airport, Kolkata – 700 052.

अध्यक्ष, भावि प्रा के लिए व उनकी तरफ से

For and behalf of the Chairman, AAI.

मूल प्रति पर नहीं /N.O.O:

प्रतिलिपि/ Copy To

1. क्षेत्रीय कार्यपालक निदेशक, पू.क्षे., भाविप्रा, नेसुचबोअ हवाईअड्डा, कोलकाता-52.
The Regional Executive Director, ER, AAI, N.S.C.B.I. Airport, Kolkata - 52
2. महाप्रबंधक (अभियांत्रिकी-सिविल), पू.क्षे., भाविप्रा, ने.सु.च.बो.अं. हवाईअड्डा, कोलकाता-52
The Gen. Manager (Engg.-C), ER, AAI, N.S.C.B.I. Airport, Kolkata - 52.
3. महाप्रबंधक (वित्त), पू.क्षे., भाविप्रा, ने.सु.च.बो.अं. हवाईअड्डा, कोलकाता-52
The Gen. Manager (Fin), ER, AAI, N.S.C.B.I. Airport, Kolkata - 52.
4. संयुक्त महाप्रबंधक (अभि.-सिविल), भाविप्रा, ने.सु.च.बो.अं. हवाईअड्डा, कोलकाता-52.
The Jt. Gen. Manager (Engg.-C), AAI, N.S.C.B.I. Airport, Kolkata - 52.
5. प्रधान आयकर आयुक्त का कार्यालय, पश्चिम बंगाल और सिक्किम सूचना का अधिकार विंग आयकर भवन, 5 वीं मंजिल, पी-7, चौरीङ्घी स्क्वेर, कोलकाता - 700 069।
Office of the Principal Chief Commissioner of Income Tax, WB & Sikkim Right to Information Wing Aayakar Bhavan, 5th Floor, P-7, Chowringhee Square, Kolkata-700 069.
6. सहायक श्रम आयुक्त (सेन्ट्रल), 2 एम.एस. बिल्डिंग, 5वां तल, निजाम पैलेस, 234/4, एजेसी बोस रोड, कोलकाता-700020.
The Asst. Labour Commissioner (Central), 2nd M.S. Building, 5th Floor, Nizam Palace, 234/4, A.J.C. Bose Road, Kolkata - 700 020.
7. क्षेत्रीय भविष्य निधि आयुक्त, वेस्ट बंगाल भविष्य निधि भवन, डीके-ब्लॉक, सेक्टर-II, सॉल्टलेक सिटी, कोलकाता-700091.
The Regional Provident Fund Commissions, West Bengal Bhavishyanidhi Bhawan, DK - Block, Sector - II, Salt Lake City, Kolkata - 700 091.
8. वर्क फाइल /Works File.
9. कार्यालय प्रति/ Office Copy.


18/06/24

(विनय प्रकाश/ Vinay Prakash)

सहा. महाप्रबन्धक (इंजी -सि)/Asstt. Gen. Manager (E-C)

प्रथम तल, परिचालन कार्यालय

1st Floor, Operational Office,

भाविप्रा, नेसुचबोअ हवाईअड्डा, कोलकाता - 52

AAI, N.S.C.B.I. Airport, Kolkata - 700 052.

अध्यक्ष, भा वि प्रा के लिए व उनकी तरफ से

For and behalf of the Chairman, AAI.

Government eProcurement System

Created By: Vinay Prakash

Created Date/Time: 22-Apr-2024 06:03 PM

Tender Title: Upgradation of Qtr. No. 598 to Hostel accommodation / Guest House at New Quarters Residential Area at NSCBI Airport, Kolkata.

Tender ID: 2024_AAI_187328_1

Tender Inviting Authority: Vinay Prakash, Asstt. Gen. Manager (E-C), ER, AAI, NSCBI Airport, Kolkata - 700 052.

Name of Work: Upgradation of Qtr. No. 598 to Hostel accommodation / Guest House at New Quarters Residential Area at NSCBI Airport, Kolkata.

Contract No: 2024_AAI_187328_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	M/S BHATTACHARYYA CONSTRUCTION (GSTN- 19AAFFM4885Q1ZA) BID ID - 678225	
				Rate (Rs.)	Amount (Rs.)
1.00	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	125.00	Cum	140.00	17500.00
2.00	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	20.00	Cum	20.00	400.00
3.00	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)	80.00	Cum	4500.00	360000.00
4.00	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns	100.00	Sqm	180.00	18000.00
5.00	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 : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources)	10.00	Cum	5100.00	51000.00
6.00	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 : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	35.00	Cum	5000.00	175000.00
7.00	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	130.00	Cum	5200.00	676000.00
8.00	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform	90.00	Sqm	190.00	17100.00
9.00	Centering and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers	190.00	Sqm	200.00	38000.00
10.00	Centering and shuttering including strutting, propping etc. and removal of form for Columns, Pillars, Piers, Abutments, Posts and Struts	295.00	Sqm	200.00	59000.00
11.00	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.	3100.00	Kg.	70.00	217000.00
12.00	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.	3400.00	Kg.	70.00	238000.00
13.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	38.00	Cum	4800.00	182400.00
14.00	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 1:6 (1 cement : 6 coarse sand)	13.00	Cum	5500.00	71500.00
15.00	Half brick masonry 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. Cement mortar 1:4 (1 cement : 4 coarse sand)	20.00	Sqm	100.00	2000.00
16.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels Granite stone slab colour black, Cherry/Ruby red Area of slab upto 0.50 sqm	50.00	Sqm	2700.00	135000.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	M/S BHATTACHARYYA CONSTRUCTION (GSTN- 19AAFFM4885Q1ZA) BID ID - 678225	
				Rate (Rs.)	Amount (Rs.)
17.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite stone slab colour black, Cherry/Ruby red Area of slab over 0.50 sqm	48.00	Sqm	2700.00	129600.00
18.00	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete. Wedge expansion type Fastener with threaded dia 10 mm	500.00	Each	20.00	10000.00
19.00	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc including a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.	730.00	Sqm	2000.00	1460000.00
20.00	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws : 35 mm thick shutters with ISI marked M.S. pressed butt hinges bright finished of required size Kiln seasoned and chemically treated hollock wood	40.00	Sqm	2000.00	80000.00
21.00	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete. With second class teak wood beading 62X19 mm	160.00	Sqm	550.00	88000.00
22.00	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc complete : 250x10 mm	32.00	Each	300.00	9600.00
23.00	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 200x10 mm	32.00	Each	280.00	8960.00
24.00	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	16.00	Each	760.00	12160.00
25.00	Providing and fixing bright finished brass handles with screws etc. complete: 125 mm	64.00	Each	250.00	16000.00
26.00	Providing and fixing bright finished brass handles with screws etc. complete: 100 mm	8.00	Each	200.00	1600.00
27.00	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	125.00	Mtr.	500.00	62500.00

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Sl.No	Description of Work / Item(s)	No.of Qty	Units	M/S BHATTACHARYYA CONSTRUCTION (GSTN- 19AAFFM4885Q1ZA) BID ID - 678225	
				Rate (Rs.)	Amount (Rs.)
28.00	Providing and fixing to existing door frames. 30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS. 14856, complete as per direction of Engineer-in-charge.	31.00	Sqm	2900.00	89900.00
29.00	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality 1.0 mm thick	61.00	Sqm	550.00	33550.00
30.00	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	255.00	Kg	85.00	21675.00
31.00	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer	16.00	sqm	5500.00	88000.00
32.00	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	10670.00	Kg	80.00	853600.00
33.00	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	3250.00	Kg	79.00	256750.00
34.00	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	1160.00	Kg	490.00	568400.00
35.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) 25 mm thick	190.00	Sqm	800.00	152000.00
36.00	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS. 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1 : 4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	1160.00	Sqm	800.00	928000.00
37.00	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS 15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size Size of Tile 600 x 600 mm	45.00	Sqm	900.00	40500.00
38.00	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in wall, skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	1400.00	Sqm	830.00	1162000.00
39.00	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	280.00	Mtr.	280.00	78400.00
40.00	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee with door 110x110x110 mm	30.00	Each	200.00	6000.00

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				Rate (Rs.)	Amount (Rs.)
41.00	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5° 110 mm bend	35.00	Each	160.00	5600.00
42.00	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Shoe (Plain) 110 mm Shoe	16.00	Each	120.00	1920.00
43.00	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.	470.00	Sqm	560.00	263200.00
44.00	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS : 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	12.00	Sqm	1200.00	14400.00
45.00	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	2210.00	Sqm	200.00	442000.00
46.00	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	290.00	Sqm	50.00	14500.00
47.00	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	290.00	Sqm	180.00	52200.00
48.00	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	160.00	Sqm	80.00	12800.00
49.00	Providing and applying plaster of paris putty of 2 mm thickness (application in two coat) over plastered surface to prepare the surface even and smooth complete	2500.00	Sqm	80.00	200000.00
50.00	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	2500.00	Sqm	30.00	75000.00
51.00	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	2500.00	Sqm	60.00	150000.00
52.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	540.00	Sqm	70.00	37800.00
53.00	French spirit polishing : Two or more coats on new works including a coat of wood filler	55.00	Sqm	100.00	5500.00
54.00	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	800.00	Sqm	75.00	60000.00
55.00	Finishing walls with Acrylic Smooth exterior paint of required shade : Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	1035.00	Sqm	60.00	62100.00
56.00	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)	200.00	Sqm	100.00	20000.00

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				Rate (Rs.)	Amount (Rs.)
57.00	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	35.00	Cum	400.00	14000.00
58.00	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	45.00	Cum	120.00	5400.00
59.00	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	792.00	Sqm	22.00	17424.00
60.00	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)	90.00	Mtr.	400.00	36000.00
61.00	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	2100.00	Sqm	15.00	31500.00
62.00	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge	800.00	Sqm	750.00	600000.00
63.00	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C I brackets and stainless steel plug, 40 mm C.P. brass waste complete, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board 470x420 mm bowl depth 178 mm	8.00	Each	2800.00	22400.00
64.00	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	24.00	Each	60.00	1440.00
65.00	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	16.00	Each	600.00	9600.00
66.00	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 15 mm dia nominal bore	160.00	Mtr.	250.00	40000.00
67.00	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 20 mm dia nominal bore	50.00	Mtr.	10.00	500.00
68.00	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20 mm dia nominal bore	50.00	Mtr.	230.00	11500.00
69.00	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 25 mm dia nominal bore	50.00	Mtr.	250.00	12500.00
70.00	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 40 mm dia nominal bore	50.00	Mtr.	400.00	20000.00
71.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 20 mm nominal bore	16.00	Each	1000.00	16000.00
72.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 40 mm nominal bore	4.00	Each	1300.00	5200.00
73.00	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 15 mm nominal bore	16.00	Each	10.00	160.00
74.00	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 15 mm nominal bore	15.00	Each	5.00	75.00
75.00	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 20 mm nominal bore	5.00	Each	200.00	1000.00
76.00	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 40 mm nominal bore	5.00	Each	300.00	1500.00
77.00	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	4000.00	Per Ltr.	7.10	28400.00

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				Rate (Rs.)	Amount (Rs.)
78.00	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	16.00	Each	850.00	13600.00
79.00	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	16.00	Each	970.00	15520.00
80.00	Providing and fixing C.P. brass angle valve (Angular Stop Cock) for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	32.00	Each	700.00	22400.00
81.00	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)	655.00	Kg.	410.00	268550.00
82.00	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) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1620.00	Kg.	430.00	696600.00
83.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	215.00	Sqm	850.00	182750.00
84.00	Providing and fixing 12mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer in charge (Door handle, lock and stopper etc. to be paid separately)	16.00	Sqm	3800.00	60800.00
85.00	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	20.00	Cum	4800.00	96000.00
86.00	Taking away after Dismantling old doors, (wood) including chowkhats, holdfasts etc. complete as per required at site and as per direction of E-I-C. This is a credit item so rate to be quoted in negative.	48.00	Each	100.00	-4800.00
87.00	Taking away after Dismantling old windows (wood) complete as per required at site and as per direction of E-I-C. This is a credit item so rate to be quoted in negative.	48.00	Each	100.00	-4800.00
88.00	Taking away after Dismantling old M.S. Grill complete as per required at site and as per direction of E-I-C. This is a credit item so rate to be quoted in negative.	1120.00	Kg.	10.00	-11200.00
89.00	Providing and fixing Vertical blinds of approved quality, shade and pattern of vista make or equivalent with necessary holding frames, brackets, screws etc complete as per direction of engineer -in-charge.	90.00	Sqm	700.00	63000.00
90.00	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter	8.00	Each	700.00	5600.00
91.00	Providing and fixing C.P. brass water Mixture of approved quality conforming to IS standards.	16.00	Each	4000.00	64000.00

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				Rate (Rs.)	Amount (Rs.)
92.00	Design, Manufacture, Supply and Installation of roof with standing seam polycarbonate panel system. The complete assembly should be of co-extruded UV protected 16mm thick (minimum) multi-layered multicell polycarbonate panels incorporated into a complete system. Panels with multilayers in a combination of alternate angular translucent clear and opaque walls for angular daylighting to achieve required Lux Levels with improved variable shading throughout the day for better ambient temperature below the roof. Panels shall have minimum six layers. Panels shall be with grip-lock standing seam running lengthwise to accommodate the connectors with SS fastener resting on the base of the standing seam for better stability of the system. Panel system shall be assembled & installed on MS Structure (paid separately) with 3 numbers self-drilling screws & trapezoid SS fasteners to ensure a pull-out load of min. 7000N (7KN) tested as per ISO 6892:1998 and IS 1608: 2005. Panel widths shall be 1050-1200mm (as approved). Panels shall pass dart drop impact test as per IS 14443-97, shall show no sign of breakage on Polycarbonate sheets which have been exposed to UV for a min. of 500 Hours as per ASTM G 155. Panels shall not have Yellowness Index as per ASTM D 1925 of 15 units when tested on a sample exposed to UV for 500 Hours as per ASTM G 155. All the above-mentioned test certificates shall be submitted by the manufacturer. U value shall not be more than 2.1 W/m2K as per EN ISO 10077-2:2018. Panel shall be with additional End cap / Aluminium U / F Profile / Glazing Bar (mill finish) for ends as required. Panel shall be fixed over M S structural steel / MS purlin (MS work paid separately) conforming to the detail technical specifications as per approved architectural drawings. Fixed with Trained and factory authorized labour with supervision to complete the entire panel installation as per drawing & direction of the engineer in charge. Colour: Clear & white or As Approved Approved Make: Flux/ DPI Daylighting	210.00	Sqm	2500.00	525000.00
93.00	Providing and fixing stainless steel chromium plates glass door patch lock system with nuts and screws etc. complete as per direction of engineer in charge	20.00	Each	5.00	100.00
94.00	Providing and fixing stainless steel chromium plated glass pulls door handle back to back fixing 25 mm dia, with nuts and screws etc. complete : (a) 450 mm as per direction of engineer in charge	2.00	Each	6000.00	12000.00
95.00	Providing and fixing C.P. brass 2-way chrome finish bib cock of approved quality as per E-I-C. 15 mm nominal bore	8.00	Each	950.00	7600.00
96.00	Providing and fixing white vitreous china Wall Hang type water closet (European type W.C. pan Single Piece) with seat and lid, flushing cistern etc. with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan single piece including cistern (Model: Verve AM C022N Closet, ENGMA Cat No.: 92535 (P-18.5) Cist. 92130 or equivalent)	16.00	Each	10000.00	160000.00
97.00	Providing and fixing table top wash basin, 32 mm C.P. brass waste of standard pattern as per E-I-C. White Vitreous China Wash basin size L-550, B-370-390, H-150 mm (Model: Luxury 600/550, IMMACULA Cat. No.: 91205 or equivalent)	16.00	Each	3500.00	56000.00
98.00	Providing and fixing C.P. brass Pillar Cock (Swan Neck) of approved quality as per E-I-C 15 mm nominal bore	16.00	Each	1800.00	28800.00
99.00	Providing and fixing Health Faucet with long CP Flexible Tube (Chrome Finish) of approved quality as per E-I-C. 15 mm nominal bore	24.00	Each	1200.00	28800.00
100.00	Cleaning the corrosion and grouting the old reinforcement with anti-corrosion chemical/rusticide as per manufacturers specification and as per site condition all complete as per direction of Engineer-in-Charge.	1000.00	Mtr.	38.00	38000.00
101.00	Dismantling old water proofing material on terrace floor, walls and cleaning the surface including disposal of rubbish to the dumping ground within 50 metres lead.	600.00	Sqm	8.00	4800.00
102.00	Consultancy charges for providing detailed structural design and drawings of roof truss to support profile sheet and truss work in the front area to support Poly Carbonate Panels and design and drawings of footings, beam and column for Kitchen and Security rooms and Overhead Tanks including vetting from IIT, NIT or any Govt. Engineering Colleges (3 sets of each approved drawings by AAI are to be submitted.)	1.00	Job	50000.00	50000.00
Total in Figures					13085834.00

(Rupees One Crore Thirty Lakh Eighty Five Thousand Eight Hundred Thirty Four Only)

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18/06/24

(विनय प्रकाश / Vinay Prakash)
सहा. महाप्रबन्धक (इंजी -सि)/Asstt. Gen. Manager (E-C)
प्रथम तल, परिचालन कार्यालय
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AAI, N.S.C.B.I. Airport, Kolkata - 700 052.
FF अध्यक्ष, भा वि प्रा के लिए व उनकी तरफ से
For and behalf of the Chairman, AAI.