



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

सं/No: AAI/BG/ENGG(C)/ALPHA-2/W-03/2023-24/1167-1179 दिनांक/Date:08.06.2023

सेवा में/To,

सुब्रमण्यम कोन्स्ट्रक्शन्स / Subramanyam Constructions

S2, एसजीएस सिल्वर ओक अपार्टमेंट / S2, SGS Silver OAK Apartment,

फर्स्ट ए क्रॉस, स्नेहा कॉलोनी, चिक्कलसंद्रा, First A Cross, Sneha Colony, Chikkalasandra,

बैंगलोर -560061 / Bangalore -560061

कार्य का नाम : केम्पेगौड़ा अंतराष्ट्रीय हवाई अड्डा , देवनहल्ली, बैंगलोर "आल्फा- 2" भवन का संसोधन कार्य

Name of Work: - Modification of ALPHA-2 Building at KIA, Devanahalli, Bangalore

संदर्भ : दिनांक 26.04.2023 को खोली गई निविदा ।

Ref: Your Tender opened on 26.04.2023

Tender I.D. 2023_AAI_142195_1

महोदय/Dear Sir,

1. ऊपर उल्लिखित कार्य के लिए ई-टेंडर आपके द्वारा उद्धरित आइटम धारों रु. **3,56,85,536/-** (केवल तीन करोड़ छप्पन लाख पचासी हजार पांच सौ छत्तीस रुपये मात्र) (जीएसटी को छोड़कर) की राशि के लिए जो कि अनुमानित लागत रु. 345.56 lakhs (जीएसटी को छोड़कर) से 3.27 ऊपर है, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकार किया जाता है।

E-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India at the Items rates(negotiated) quoted by you for an amount of **Rs. 3,56,85,536/-** (Rupees Three Crore fifty-Six lakhs Eighty five thousand Five hundred thirty six only) (**Excluding GST**) which is **3.27 %** above the estimated cost of Rs. 345.56 lakhs (**Excluding GST**).

2. वरिष्ठ प्रबन्धक (इंजीनियरिंग-सिविल), एएआई, बेंगलूर एयरपोर्ट, बेंगलूर, कार्य के प्रभारी अभियंता प्रभारी होंगे। आपसे अनुरोध है कि आप वरिष्ठ प्रबन्धक, (इंजीनियरिंग-सिविल), एएआई, बेंगलूर एयरपोर्ट, बेंगलूर के कार्यालय में अनुबंध करार पर हस्ताक्षर करने और अनुबंध पूरा करने के लिए 23.06.2023 तक उपस्थित हों। कॉन्ट्रैक्ट एग्रीमेंट को 100/- रुपये के मूल्य के गैर-न्यायिक स्टॉप पेपर पर निष्पादित किया जाएगा (केवल सौ रुपये) और स्टैंप पेपर की लागत आपके द्वारा वहन की जाएगी।

Senior Manager (Engg-Civil), AAI, Bangalore Airport, Bangalore, shall be the Engineer-In-charge of the work. You are requested to attend the office of Senior Manager (Engg-Civil), AAI, Bangalore Airport, Bangalore, by 23.06.2023 to sign and complete the contract agreement. The Contract Agreement shall be executed on a non-judicial stamp paper of value Rs 100/- (Rupees Hundred only) and the cost of the stamp paper shall be borne by you.

3. आपकी निविदा के साथ प्राप्त की गई बयाना राशि रु 6,91,200/= (केवल छह लाख इक्यानवे हजार दो सौ रुपये) की कुल धन राशि को सिक्योरिटी डिपॉजिट के हिस्से के रूप में अनुबंध क्लॉज नंबर -1 ए, पृष्ठ संख्या- GCC-16 के अनुसार परिवर्तित किया जाएगा। इस पत्र के जारी होने की तारीख से 15 दिनों के भीतर सिक्योरिटी डिपॉजिट के संदर्भ में कृपया रु 28,77,354/= (केवल अट्ठाईस हजार सतहत्तर हजार तीन सौ चौवन रुपये) जमा करें, ऐसे न करने पर जो अनुबंध क्लॉज-1 ए, पेज नंबर जीसीसी -16 की सामान्य शर्तों के अनुसार आपके चल रहे बिलों से घटाया जाएगा।

The Earnest Money Amount of Rs 6,91,200/- (Rupees Six lakhs ninety-one thousand two hundred only) received along with your tender has been converted as part of Security Deposit as per General conditions of Contract Clause No-1A, Page No.GCC-16. Please deposit Rs. 28,77,354 /- (Rupees Twenty-eight thousand seventy-seven thousand three hundred and fifty-four only) towards security deposit within 15 days from the date of issue of this letter failing which the same will be deducted from your running bills as per General conditions of Contract Clause No-1A, Page No. GCC-16.

- 4 आपसे अनुरोध है कि 1970 के अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम के प्रावधानों और अनुबंध श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार और सेवा की स्थिति का विनियमन) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक A-173 कल्याण उपकर अधिनियम 1996 जैसा कि पृष्ठ संख्या 19 पर खंड 19 में निर्दिष्ट है। टेंडर के जीसीसी और केंद्र और राज्य सरकार के नियम।

You are requested to comply with the provision of Contract labour (Regulation and Abolition) Act 1970 and contract labour (Regulation and Abolition) Central rules 1971 Child Labour (Prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment and Condition of Service) Act 1996, Building and other construction Workers A-173 Welfare Cess Act 1996 as specified in Clause 19 on page no49 of GCC of tender and rules of Central and State Government.

- 5 आपको सहायक प्रबंधक इंजी (सी), एएआई, बेंगलूर हवाईअड्डा से संपर्क करने के लिए भी निर्देशित किया जाता है, जो तुरंत आपको साइट सौंपने की व्यवस्था करेगा।

You are also directed to contact Asst Manager, Engg.(C), AAI, Bangalore Airport immediately who will arrange to hand over the site to you.

- 6 कृपया ध्यान दें कि कार्य करने के लिए अनुमत समय 04 (चार) महीने होगा और इसकी गणना इस पत्र के जारी होने के 10वें दिन से की जाएगी।

Please note that the time allowed for carrying out the work shall be **06 (Six)** months and same shall be reckoned from the 10th day after issue of this letter.

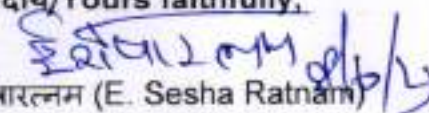
- 7 अनुबंध के संबंध में आगे कोई पत्राचार आम तौर पर प्रभारी अधिकारी (इंजीनियरिंग-सिविल), एएआई, बेंगलूर एयरपोर्ट (एचएएल), बेंगलूर -560017 को संबोधित किया जाना चाहिए।

Any further correspondence in connection with the contract should normally be addressed to the Engineer-In-Charge (Engg-Civil), AAI, Bangalore Airport (HAL), Bangalore-560017.

- 8 कृपया रसीद स्वीकार करें और स्वीकृति के टोकन के रूप में अधोहस्ताक्षरी को हस्ताक्षर करने के बाद इस पत्र की प्रतिलिपि प्रति संलग्न 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.

भवदीय/Yours faithfully,


ई शेषारत्नम (E. Sesharathnam)

वरिष्ठ प्रबन्धक (इंजी सिविल)
Senior Manager (Engg- Civil)

अध्यक्ष, भाविप्रा के लिए एवं उनकी ओर से
For and on behalf Chairman, Airports Authority of India

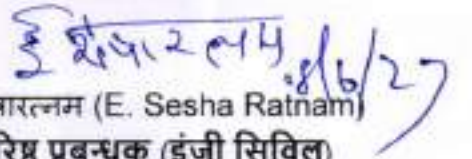
संलग्नक/Encl : अनुसूची-ए /Schedule-A

N.O.O.

कृपया सूचनार्थ /Copy for information to:

1. महाप्रबंधक (सामान्य-प्रभारी), भाविप्रा, बेंगलूर हवाई अड्डा
GM(CIC), AAI, Bangalore Airport.
2. जीएम (इंजीनियरिंग), आरएचक्यू, दक्षिणी क्षेत्र, एएआई, चेन्नई, चेन्नई एयरपोर्ट
GM (Engg), RHQ, SR, AAI, Chennai, Chennai Airport
3. महाप्रबंधक (ए टी एम), बेंगलूर हवाई अड्डा
G M(ATM), AAI, HAL Airport Bangalore
4. उप महा प्रबंधक (वित्त), एस ए यू, एएआई, बेंगलूर एयरपोर्ट
DGM (F&A), AAI, Bangalore Airport
5. संयुक्त महाप्रबंधक (सतर्कता), भाविप्रा, दक्षिणी क्षेत्र, चेन्नई हवाई अड्डा
Jt.GM (Vigilance), AAI, S/R, Chennai Airport
6. सहायक महाप्रबंधक (इंजीनियरी-विद्युत) भाविप्रा, बेंगलूर हवाई अड्डा
AGM (E-E), AAI, Bangalore

7. सहायक प्रबंधक (इंजीनियरी-सिविल) भाविप्रा, बेंगलूर हवाई अड्डा
Asst Manager (Engg-Civil), AAI, Bangalore
8. श्रम आयुक्त (केंद्रीय), श्रम सदन, यशवंतपुर, गोरगुंटे पालया, टुमकुर रोड, बेंगलूर-22
Labour Commissioner (Central), ShramSadana, Yeshwanthpur, Goraguntepalaya,
Tumkur Road, Bangalore - 22
9. भविष्य निधि संगठन, बेंगलूर/ Provident Fund Organization, Annapoorneshwari
Complex, No.37/1, 6th Main, Bangalore - 560068
10. कर्मचारी राज्य बीमा निगम/ Employees State Insurance Corporation, Sub
Regional Office, Bangalore North (Peenya), Harini Towers, 3rd Cross, 3rd Main,
Off.Ring Road Near (F.T.I), IInd Stage Industrial Suburb. Yeshwanthpur,
Bangalore - 560022
11. करार फाईल/ Agreement File
12. भाविप्रा वेबसाइट/ AAI Website


ई शेषारत्नम (E. Sesharathnam)
वरिष्ठ प्रबंधक (इंजी सिविल)
Senior Manager (Engg- Civil)
AAI, Bangalore Airport.

Validate

Print

Help

SCHEDULE-A

Name of Work: Modification of Alpha-2 building at KIA, Devanahalli Bengaluru.

Contract No: 2023_AAI_142195_1

Bidder Name :		SUBRAMANYAM CONSTRUCTIONS.					
PRICE SCHEDULE							
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant 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 #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
SL. No.	Item Description	Item Code / Mark #	Quantity	Units	RS MC RATE In Figures To be entered by the Bidder excluding GST Rs. / P	TOTAL AMOUNT excluding GST Rs. / P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8
1	SH: 1 CIVIL WORKS						
1.1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge		1	Cum	2865	2865	INR Two Thousand Eight Hundred & Sixty Five Only
1.2	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		40	Cum	1662	66480.00	INR Sixty Six Thousand Four Hundred & Eighty Only
1.3	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 m lead.		1752	Sqm	45	80640.00	INR Eighty Thousand Six Hundred & Forty Only
1.4	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.		165	Sqm	45	7425.00	INR Seven Thousand Four Hundred & Twenty Five Only
1.5	Disposal of masonry/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge		130	Cum	402	52260.00	INR Fifty Two Thousand Two Hundred & Sixty Only
1.6	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) : 3 graded stone aggregate 20 mm nominal size]		2	Cum	10010	20020.00	INR Twenty Thousand & Twenty Only
1.7	Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts		20	Sqm	787	15740.00	INR Fifteen Thousand Seven Hundred & Forty Only

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Basic Rate In Figures To be entered by the bidder excluding GST Rs. /-	TOTAL AMOUNT excluding GST Rs. /-	TOTAL AMOUNT In Words
1	2	3	4	5	13	33	35
1.8	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-5000 or more.		200	Kg	99	19800.00	INR Nineteen Thousand Eight Hundred Only
1.9	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 : 4 coarse sand)		10	Cum	10765	107650.00	INR One Lakh Seven Thousand Six Hundred & Fifty Only
2.00	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564 embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.		47	Each	837	39339.00	INR Thirty Nine Thousand Three Hundred & Thirty Nine Only
2.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.		800	Kg	176	140800.00	INR One Lakh Forty Thousand Eight Hundred Only
2.2	Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stringer frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of: (a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.(b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.(c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Concrete epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product. 450 mm Finished Floor Height (FFH)		1150	Sqm	5192	5970800.00	INR Fifty Nine Lakh Seventy Thousand Eight Hundred Only

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
SL No.	Item Description	Item Code / Mark	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder excluding GST Rs. /-	TOTAL AMOUNT excluding GST Rs. /-	TOTAL AMOUNT In Words
1	2	3	4	5	11	53	55
2.3	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 17 x 37 x 25 x 1.6 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 square edge PVC laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS: 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.		1792	Sqm	1908	3419136.00	INR Thirty Four Lakh Nineteen Thousand One Hundred & Thirty Six Only
2.4	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)		50	Sqm	480	24000.00	INR Twenty Four Thousand Only
2.5	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)		50	Sqm	489	24450.00	INR Twenty Four Thousand Four Hundred & Fifty Only
2.6	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)		20	Sqm	489	9780.00	INR Nine Thousand Seven Hundred & Eighty Only
2.7	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work		100	Sqm	161	16100.00	INR Sixteen Thousand One Hundred Only
2.8	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One or more coats on old work		3250	Sqm	127	412750.00	INR Four Lakh Twelve Thousand Seven Hundred & Fifty Only
2.9	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) : a). For fixed portion i) Powder coated aluminium (minimum thickness of powder coating 50 micron)		3990	KG	600	2394000.00	INR Twenty Three Lakh Ninety Four Thousand Only

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the bidder excluding GST Rs. P	TOTAL AMOUNT excluding GST Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8
3.0	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) : a). 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) fixed portion. i) Powder coated aluminium (minimum thickness of powder coating 50 micron)		460	KG	664	305440.00	INR Three Lakh Five Thousand Four Hundred & Forty Only
3.1	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 aluminium 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. a) Pre-laminated particle board with decorative lamination on both sides.		512	Sqm	1126	576512.00	INR Five Lakh Seventy Six Thousand Five hundred & Twelve Only
3.2	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): a) With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)		352	Sqm	1297	456544.00	INR Four Lakh Fifty Six Thousand Five Hundred & Forty Four Only
3.3	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness		47	Each	2447	115009.00	INR One Lakh Fifteen Thousand & Nine Only
3.4	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.		47	Each	881	41407.00	INR forty One Thousand Four Hundred & Seven Only
3.5	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge Powder coated minimum thickness 50 micron aluminium		94	Each	195	18330.00	INR Eighteen Thousand Three Hundred & Thirty Only
3.6	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.		550	KG	190	106150.00	INR One Lakh Six Thousand One Hundred & Fifty Only
3.7	Providing and fixing 12 mm thick panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Fire retardant plywood conforming to IS: 5509		97	Sqm	2397	232509.00	INR Two Lakh Thirty Two Thousand Five Hundred & Nine Only

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1	1	3	4	5	13	51	55
3.8	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		97	Sqm	764	74108.00	INR Seventy Four Thousand One Hundred & Eight Only
3.9	Providing Technical Services for Construction of 8 Nos VHF antenna support structure on rooftop of ALPHA II Building complex at BIAL as per following scope of work : a) Design of 8 Nos of RCC Pedestals with 3 Nos 3inch Dia Pipe Stubs and Flange on existing Terrace Roof Slab of ALPHA – II Building at b) Providing Design drawings for 8 Nos of RCC Pedestals with 3 Nos 3inch Dia Pipe Stubs and Flange c) Providing 3 Nos Designer's Site Supervision to carry out this work with all the Safety norms		1	Job	120000	120000.00	INR One Lakh Twenty Thousand Only
4.0	Providing and fixing Scratch resistant coated sun control garware polyester film 1.5 Mil on glass panes after thoroughly cleaning of existing surface. The rate is inclusive of removal of sun control film wherever required. Non-reflective type		300	Sqm	750	225000.00	INR Two Lakh Twenty Five Thousand Only
4.1	Providing and fixing roller blinds for windows of approved quality and design fixed in top horizontal aluminium rail with supporting clamps fixed in the wall all complete as per the requirement and direction of Engineer-in-charge		342	Sqm	1060	362520.00	INR Three Lakh Sixty Two Thousand Five Hundred & Twenty Only
5.0	SH: II Electrical works (Internal Wiring & External Electrical works)						
5.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C		75	Point	492	36900.00	INR Thirty Six Thousand Nine Hundred Only
5.2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C		160	point	970	155200.00	INR One Lakh Fifty Five Thousand Two Hundred Only
5.3	Wiring for light/power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.		550	Meter	259	142450.00	INR One Lakh Forty Two Thousand Four Hundred & Fifty Only
5.4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. a) 2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.		1600	Meter	200	320000.00	INR Three Lakh Twenty Thousand Only
5.5	Supplying and fixing 25 mm dia MS/GI flexible pipe with PVC coating along with all accessories like coupler etc., complete as required.		100	Meter	811	81100.00	INR Eighty One Thousand One Hundred Only
5.6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.		110	Each	461	50710.00	INR Fifty Thousand Seven Hundred & Ten Only

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1	2	3	4	5	6	7	8
5.7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.		70	Each	724	50680.00	INR Fifty Thousand Six Hundred & Eighty Only
5.8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).		40	Each	782	31280.00	INR Thirty One Thousand Two Hundred & Eighty Only
5.9	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular 5P MCB, "C" curve including connections, painting etc. as required.		10	Each	2115	21150.00	INR Twenty One Thousand One Hundred & Fifty Only
6.0	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required						
6.1	4 way(4 +12) Double door		6	Each	5351	32106.00	INR Thirty Two Thousand One Hundred & Six Only
6.2	8 way(4 +24) Double door		6	Each	7650	45900.00	INR Forty Five Thousand Nine Hundred Only
6.3	12 way(4 +36) Double door		6	Each	9700	58200.00	INR Fifty Eight Thousand Two Hundred Only
6.4	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/isolator)						
6.5	6 way , Double door		6	Each	1692	10152.00	INR Ten Thousand One Hundred & Fifty Two Only
6.6	8 way , Double door		6	Each	2115	12690.00	INR Twelve Thousand Six Hundred & Ninety Only
7.7	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
7.8	Single pole		250	Each	222	55500.00	INR Fifty Five Thousand Five Hundred Only
7.9	Double pole		12	Each	549	6588.00	INR Six Thousand Five Hundred & Eighty Eight Only

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Sl. No.	Item Description	Item Code / Mark	Quantity	Units	RS&C RATE In Figures To be entered by the Bidder excluding GST Rs. P	TOTAL AMOUNT excluding GST Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	33	33	35
8.0	Triple pole		42	Each	1207	50694.00	INR Fifty Thousand Six Hundred & Ninety Four Only
8.1	Triple pole and neutral		18	Each	520	9360.00	INR Nine Thousand Three Hundred & Sixty Only
8.2	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, Floor / Ceiling Mounted Support for Running Single/Multiple Cable Trays including G.I. suspenders / G.I. bolts & nuts, etc. as required.						
8.3	300 mm width X 50 mm depth X 1.6 mm thickness		200	Meter	634	126800.00	INR One Lakh Twenty Six Thousand Eight Hundred Only
8.4	225 mm width X 50 mm depth X 1.6 mm thickness		115	Meter	576	66240.00	INR Sixty Six Thousand Two Hundred & Forty Only
8.5	150 mm width X 50 mm depth X 1.6 mm thickness		90	Meter	549	49410.00	INR Forty Nine Thousand Four Hundred & Ten Only
8.6	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, Floor / Ceiling Mounted Support for Running Single/Multiple Cable Trays including G.I. suspenders / G.I. bolts & nuts, etc. as required.						
8.7	300 mm width X 50 mm depth X 1.6 mm thickness		10	Each	1650	16500.00	INR Sixteen Thousand Five Hundred Only
8.8	225 mm width X 50 mm depth X 1.6 mm thickness		6	Each	1650	9900.00	INR Nine Thousand Nine Hundred Only
8.9	150 mm width X 50 mm depth X 1.6 mm thickness		6	Each	1068	6408.00	INR Six Thousand Four Hundred & Eight Only
9.0	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, Floor / Ceiling Mounted Support for Running Single/Multiple Cable Trays including G.I. suspenders / G.I. bolts & nuts, etc. as required.						
9.1	300 mm width X 50 mm depth X 1.6 mm thickness		10	Each	1897	18970.00	INR Eighteen Thousand Nine Hundred & Seventy Only
9.2	225 mm width X 50 mm depth X 1.6 mm thickness		6	Each	1897	11382.00	INR Eleven Thousand Three Hundred & Eighty

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1	2	3	4	5	11	33	33
9.3	150 mm width X 50 mm depth X 1.6 mm thickness		6	Each	1074	6444.00	INR Six Thousand Four Hundred & Forty Four Only
9.4	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, Floor / Ceiling Mounted Support for Running Single/Multiple Cable Trays including G.I. suspenders / G.I. bolts & nuts, etc. as required.						
9.5	300 mm width X 50 mm depth X 1.6 mm thickness		10	Each	2094	20940.00	INR Twenty Thousand Nine Hundred & Forty Only
9.6	225 mm width X 50 mm depth X 1.6 mm thickness		6	Each	2094	12564.00	INR Twelve Thousand Five Hundred & Sixty Four Only
9.7	150 mm width X 50 mm depth X 1.6 mm thickness		6	Each	1024	6144.00	INR Six Thousand One Hundred & Forty Four Only
9.8	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, Floor / Ceiling Mounted Support for Running Single/Multiple Cable Trays including G.I. suspenders / G.I. bolts & nuts, etc. as required.						
9.9	300 mm width X 50 mm depth X 1.6 mm thickness (300/225 or 300/150)		10	Each	2518	25180.00	INR Twenty Five Thousand One Hundred & Eighty Only
10.0	225 mm width X 50 mm depth X 1.6 mm thickness (225/150)		5	Each	2200	11000.00	INR Eleven Thousand Only
10.1	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	5140	20560.00	INR Twenty Thousand Five Hundred & Sixty Only
10.2	Earthing with copper earth plate 600 mm X 600 mm X 3 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.		7	Set	10100	70700.00	INR Seventy Thousand Seven Hundred Only
10.3	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre 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 50mm)		30	Meter	2030	60900.00	INR Sixty Thousand Nine Hundred Only
10.4	Supplying and laying 25 mm X 5 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)		20	Meter	5076	101520.00	INR One Lakh One Thousand Five Hundred & Twenty Only
10.5	Providing and fixing 25 mm X 5 mm copper 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		70	Meter	1143	80010.00	INR Eighty Thousand & Ten Only

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1	2	3	4	5	13	55	55
10.6	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring washer excavation and re-filling etc. as required.		40	Meter	453	18120.00	INR Eighteen Thousand One Hundred & Twenty Only
10.7	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.		300	Meter	879	263700.00	INR Two Lakh Sixty Three Thousand Seven Hundred Only
10.8	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.		150	Meter	202	30300.00	INR Thirty Thousand Three Hundred Only
10.9	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.		20	Meter	1269	25380.00	INR Twenty Five Thousand Three Hundred & Eighty Only
11.0	Laying and fixing of one number PVC insulated and PVC sheathed /XLPE power cable of 1.1 KV grade of following size on wall surface/existing cable tray as required.						
11.1	Upto 35 sq. mm (clamped with 1mm thick saddle)		570	Meter	117	66690.00	INR Sixty Six Thousand Six Hundred & Ninety Only
11.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)		200	Meter	253	50600.00	INR Fifty Thousand Six Hundred Only
11.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)		150	Meter	592	88800.00	INR Eighty Eight Thousand Eight Hundred Only
11.4	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.						
11.5	4c x 10 Sq.mm (25mm)		36	Set	351	12636.00	INR Twelve Thousand Six Hundred & Thirty Six Only
11.6	4c x 16 Sq.mm (28mm)		18	Set	468	8424.00	INR Eight Thousand Four Hundred & Twenty Four Only
11.7	3.5c x 95 Sq.mm (45mm)		4	Set	507	2028.00	INR Two Thousand & Twenty Eight Only
11.8	3.5c x 185 Sq.mm (57mm)		4	Set	634	2536.00	INR Two Thousand Five Hundred & Thirty Six Only

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1	2	3	4	5	15	55	55
12	SH : III - SITC of LT panels, LT cables, LED fixtures, Conventional Lighting Arrestor etc.,						
12.1	Design, Fabrication, Supply, Installation, Testing and Commissioning of LT Panel indoor type with enclosure protection class IP 42 of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection of switchgears with suitable size copper conductor cable, accessories of switchgear like rotary handles, spreader terminals, phase barriers, auxiliary relays/contacts etc, control wiring, protection MCBs, common G.I earth bar of size 25mm X 5 mm at the rear with 2 Nos. earth studs etc. complete in all respect and as per specification with following switchgears and components suitable for operation on 415V, 3 phase, 50Hz AC Supply etc complete as required. INCOMING (i) 250A, 36kA (Ics=100% Icu rating), Four pole Microprocessor based MCCB - 02 No. (ii) Three phase Digital Multifunction Meter with inbuilt selector switch, three nos of CTs of 250/5A, 15 VA, Class 1.0 etc. - 02 set. (iii) Set of LED type indicating lamps for R,Y,B, ON & OFF - 02 set BUSCOUPLER (i) 250A, 36kA (Ics=100% Icu rating), FP MCCB - 01 No. MECHANICAL INTERLOCK Mechanical interlocking arrangement between incomers and buscoupler with 3 lock and 1 key - 1 set BUSBARS Set of TPN Aluminium Bus Bar of 300A rating - 01 Set OUTGOINGS (i) 100A, 25kA (Ics=100% Icu rating), FP MCCB - 2 No. (ii) 63A, 25kA (Ics=100% Icu rating), FP MCCB - 6 No. (iii) 40A, 25kA (Ics=100% Icu rating), FP MCCB - 2 No.		1	Set	170000	170000.00	INR. One Lakh Seventy Thousand Only

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1	2	3	4	5	13	53	55
12.2	Design, Fabrication, Supply, Installation, Testing and Commissioning of LT Panel Indoor type with enclosure protection class IP 42 of cubical construction, floor/wall mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection of switchgears with suitable size copper conductor cable, accessories of switchgear like rotary handles, spreader terminals, phase barriers, auxiliary relays/contacts etc, control wiring, protection MCBs, suitable din rail terminal blocks, common G.I earth bar of size 25mm X 5 mm at the rear with 2 Nos. earth studs etc. complete in all respect and as per specification with following switchgears and components suitable for operation on 415V, 3 phase, 50Hz AC Supply etc complete as required. INCOMING (i) 160A, 36kA (Ics=100% Icu rating), Four Pole Microprocessor based MCCB - 02 No. (ii) Three phase Digital Multifunction Meter with inbuilt selector switch, three nos of CTs of 150/5A, 15 VA, Class 1.0 etc. - 02 set. (iii) Set of LED type indicating lamps for R,Y,B, ON & OFF - 02 set. BUSCOUPLER (i) 160A, 36kA (Ics=100% Icu rating), FP MCCB - 01 No. MECHANICAL INTERLOCK Mechanical Interlocking arrangement between incomers and buscoupler with 3 lock and 1 key - 1 set BUSBARS Set of TPN Aluminium Bus Bar of 200A rating - 01 Set OUTGOINGS (i) 63A, FP RCCB 100mA - 12 No. (ii) 40A, FP C curve MCB - 2 No.		1	Set	170000	170000.00	INR One Lakh Seventy Thousand Only

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1	2	3	4	5	13	53	55
12.3	Supplying of Aluminium conductor PVC insulated and PVC sheathed/XLPE , steel strip armoured power cable of 1.1 Kv grade conforming to IS:1554 (Part-I) of following sizes.						
12.4	4c x 10 Sq.mm		270	Meter	141	38070.00	INR Thirty Eight Thousand & Seventy Only
12.5	4c x 16 Sq.mm		300	Meter	169	50700.00	INR Fifty Thousand Seven Hundred Only
12.6	3.5c x 95 Sq.mm		200	Meter	592	118400.00	INR One Lakh Eighteen Thousand Four Hundred Only
12.7	3.5c x 185 Sq.mm		150	Meter	1184	177600.00	INR One Lakh Seventy Seven Thousand Six Hundred Only
12.8	Supply of 4ft X 1ft Recess mounted LED luminaries having minimum 3600 lumen output complete with electronic driver, made out of powder coated CRCA/Aluminium housing with opal/acrylic diffuser suitable to operate on 230V, 50Hz single phase AC supply etc, complete as per specifications.		50	Each	6973	348650.00	INR Three Lakh Forty Eight Thousand Six Hundred & Fifty Only
12.9	Supply of 2ft X 2ft Recess mounted LED luminaries having minimum 3600 lumen output complete with electronic driver, made out of powder coated CRCA/Aluminium housing with opal/acrylic diffuser suitable to operate on 230V, 50Hz single phase AC supply etc, complete as per specifications.		180	Each	2579	464220.00	INR Four Lakh Sixty Four Thousand Two Hundred & Twenty Only
13	Supply of Recess mounted LED downlight luminaire (Round Profile) having minimum 1200 lumen output; suitable for 230 volts, 50 Hz, AC supply, including suitable driver/control gear min. 100 Lumen/watt energy efficient led complete along with all accessories etc complete as required.		30	Each	67	2010.00	INR Two Thousand & Ten Only
13.1	Supply of Surface/Wall mounted mirror LED type luminaire having minimum 1800 lumen output; suitable for 230 volts, 50 Hz, AC supply, including suitable driver/control gear min. 100 Lumen/watt energy efficient led complete along with all accessories etc as required.		25	Each	423	10575.00	INR Ten Thousand Five Hundred & Seventy Five Only
13.2	Installation, testing and commissioning of recessed type LED fittings of all types complete with all accessories like GI chain etc. including modification/cutting/finishing of existing cutouts of gypsum false ceiling to install the new fittings, connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. complete as required as per actual site requirements.		260	Each	211	54860.00	INR Fifty Four Thousand Eight Hundred & Sixty Only
13.3	Installation, testing and commissioning of surface/ wall mounted indoor type LED fittings of all types complete with all accessories including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. complete as required as per actual site requirements.		25	Each	202	5050.00	INR Five Thousand & Fifty Only
13.4	Supply & Fixing of 20 mm x 12 mm size Casing and Capping of ISI marked with all accessories etc., complete as required.		150	Meter	50	7500.00	INR Seven Thousand Five Hundred Only

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1	2	3	4	5	13	53	55
13.5	Supply & installation of Vertical Air Terminal 1.5m with mounting accessories, providing of air terminals as per IS/IEC-62305 part-3, solid copper air terminal rod material of 16mm dia rod tapered to 10mm dia (Franklin Rod) and the copper purity - not less than 90% etc, including all accessories complete as required.		2	Each	5076	10152.00	INR Ten Thousand One Hundred & Fifty Two Only
13.6	Supply of following 1x70 sqmm size multi stranded copper conductor XLPE/PVC insulated and PVC sheathed unarmoured power cable of 1.1 KV grade conforming to relevant IS with upto date amendments.		50	Meter	2030	101500.00	INR One Lakh One Thousand Five Hundred Only
13.7	Supply & installation of support mast of 50 mm dia of length 4mtr GI + 1 mtr FRP with GI base plate of 300 x 300 x 3 mm base installed on the existing terrace roof with 4 nos of SS bolts of suitable dimensions complete as required.		2	Each	6345	12690.00	INR Twelve Thousand Six Hundred & Ninety Only
13.8	Supply & laying of 32 mm dia B class (Medium) GI pipe including joints and bends complete etc as required at 0.50 metre below ground for laying of 70sqmm copper cable.		25	Meter	846	21150.00	INR Twenty One Thousand One Hundred & Fifty Only
13.9	Dismantling and shifting the following damaged or broken electrical items installed above/below false ceiling & below the flooring as per the existing site conditions and handing over the same to EIC complete etc as required as per site conditions. [Area of Ground floor = 24m x 24m (LxB) = 576sq mtrs, Area of 1st floor = 40m x 24m (LxB) = 960sq mtrs and Area of 2nd floor = 40m x 24m (LxB) = 960sq mtrs. Total area of the building = 2496sqmtrs approx] a) Various sizes of wires & cables b) Fitting/fixtures (Conventional type) c) Conduits (PVC/MS/GI) d) MS Boxes/MCB/MS DB etc e) Metallic & non metallic items like cable tray, casing & capping etc., f) Any other assorted Electrical items switches, sockets, plates etc., available at site.		1	JOB	101000	101000.00	INR One Lakh One Thousand Only

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Sl. No.	Item Description	Item Code / Mark	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder excluding GST Rs. P	TOTAL AMOUNT excluding GST Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	13	55	55
14	SH : IV - SITC of Precision Air-Conditioning System						
14.1	Design, Supply, Installation, Testing and Commissioning of Precision Air-conditioning Unit (double skin, bottom flow and top return) with 9TR sensible cooling capacity complete with first charge of refrigerant, hermetically sealed fixed/digital scroll single/multiple compressors, fan section with dynamically balanced electronically commutated fan with motor and with compensate blade, multi rows deep cooling coil of copper tubes & aluminium fins, remote aircooled (DX type) condenser with copper tubes & aluminium fins, electronically commutated/Axial fan with speed controller, electronic / thermostatic expansion valve, 95% down to 5 micron HDPE filters, insulated drain pan, microprocessor based programmable logic controller, steam electrode humidifier, heaters, complete in a unit enclosed in a factory fabricated & painted to smooth finish enclosure, supported on a fabricated steel structure/stand complete with necessary control wiring and minor civil works etc complete as per enclosed specifications and site requirements. The precision unit shall be complete with auto sequencing arrangement as required. The compressor shall be suitable for operation on 415 +/- 10%, 50 Hz, 3 phase A.C. power supply. The scope also includes complete designing, preparation and submission of shop drawings for the complete PAC system for approval of AAJ before execution of work. (i) Fan out let velocity shall not exceed 600 FPM, (ii) CFM / TON = 550 - 600 CFM, (iii) Inside Temperature : 18 degree C ± 1 degree C, RH 50 ± 5%		8	Each	880000	7040000.00	INR Seventy Lakh Forty Thousand Only
14.2	SITC of Drain Pump Kit consisting of 0.25HP Pumps (1W+158) capable for pumping water with vertical head of 10 meter, necessary piping and valve support arrangement, Water Level Sensor for Automatic operation of the pump, Drain tank of SS304, 1.0 mm thick, 600*400*325/350mm height size (approx) and shall be insulated with 19mm insulation laminated with glass fabric including controller enclosure and Control Wiring, the pumps shall be fixed over GI box bottom with insulation etc complete as required as per site requirements.		3	Set	54413	163239.00	INR One Lakh Sixty Three Thousand Two Hundred & Thirty Nine Only
14.3	Providing and Fixing of 18 SWG hard drawn copper refrigerant piping of suitable dia for above precision AC units including necessary supports, fittings, pressure testing, 13mm Nitrile rubber insulation over hot gas/discharge copper piping inside the PAC Room, extended piping kit/circuit (wherever required) etc. (Each running meter includes one meter of copper pipe for both suction & discharge. All non insulated areas of suction and discharge pipes shall be painted with two different colours for identification)		200	Meter	2791	558200.00	INR Five Lakh Fifty Eight Thousand Two Hundred Only
14.4	Providing & fixing of 13mm thickness of nitrile rubber insulation for hot gas copper piping including sealing of all joints etc complete as required.		60	Meter	152	9120.00	INR Nine Thousand One Hundred & Twenty Only
14.5	Providing and Fixing of FLOOR insulation of 19 mm thick with density between 40-60 kg / m³ Closed cell elastomeric nitrile rubber insulation laminated with glass fabric (thickness of cover 6-7 mils minimum or 200 gm/sqm+10%), TUFF COATING Class 'O' FM GLOBAL (Note : Area quantity to be underfloor plus vertical wall till false flooring height all round the underfloor)		380	Sq. Meter	608	231040.00	INR Two Lakh Thirty One Thousand & Forty Only

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1	2	3	4	5	11	53	55
14.6	Providing and Fixing of CPVC piping for drain water with 9 mm thick nitrile foam insulation & all fittings, valves, supports and clamps including drilling, wall chipping etc and U trap has to be provided near the units, conceal the wall opening and closing of suitable dia for above precision AC units		100	Meter	405	40500.00	INR Forty Thousand Five Hundred Only
14.7	Providing and Fixing of humidifier/fresh water piping of CPVC with all fittings, valves, supports and clamps including drilling, wall chipping etc, conceal the wall opening and closing of suitable dia for above precision AC units		100	Meter	761	76100.00	INR Seventy Six Thousand One Hundred Only
14.8	Supply and fixing of suitable size/core, PVC insulated armoured copper cable between indoor units and outdoor units (for communication/Power) with necessary supports, end terminations with required Earthing copper cable connection suitable for precision AC units.		160	Meter	1039	166240.00	INR One Lakh Sixty Six Thousand Two Hundred & Forty Only
14.9	Providing and Fixing of Aluminium powder coated rigid supply air grilles of 600mmX600mm in false floor mounting with 80% Opening, double directional grill with Volume Control Damper etc complete as per actual site requirements.		28	Each	11929	334012.00	INR Three Lakh Thirty Four Thousand & Twelve Only
15	Providing and Fixing of Aluminium powder coated return air grill of 600mmX600mm etc complete as per actual site requirements.		35	Each	10152	355320.00	INR Three Lakh Fifty Five Thousand Three Hundred & Twenty Only
15.1	Providing and fixing of 20G Factory fabricated, powder coated plenum with Double skin construction of 25mm thick PUF insulation suitable for precision AC units complete as per actual site requirements. (Note : Appropriate cutout to be made to connect the branch ducts with dampers of 0.63 thick inner & outer skin)		60	Sq. Meter	7614	456840.00	INR Four Lakh Fifty Six Thousand Eight Hundred & Forty Only
15.2	SITC of powder coated Motorized volume control damper with opposed blades, GI frame shall be made of 18G and Aluminium AEROFIL blades shall be made of 16G with Damper actuator for Control (inside GI frame 6mm thermal insulation need to be done to avoid condensation /sweating) of air flow into Non Working Unit and 20G plenum as per unit size, Control wiring of Actuator from Unit etc complete as per actual site requirement.		8	Each	21996	175968.00	INR One Lakh Seventy Five Thousand Nine Hundred & Sixty Eight Only

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SL No.	Item Description	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder excluding GST Rs. P	TOTAL AMOUNT excluding GST Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8
16	SH :V - SITC of VRV/VRF Air-Conditioning System						
16.1	Design, Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above 14 HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The scope also includes complete designing, preparation and submission of shop drawings for the complete VRF/VRV system for approval of AAI before execution of work. (i) The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5.		44	Per HP	34000	1496000.00	INR Fourteen Lakh Ninety Six Thousand Only
16.2	Supply, installation, testing and commissioning of following minimum capacity 4-way flow VRV/VRF Cassette Type indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System.						
16.3	2.0 TR		3	Each	68400	205200.00	INR Two Lakh Five Thousand Two Hundred Only
16.4	3.2 TR		3	Each	75600	226800.00	INR Two Lakh Twenty Six Thousand Eight Hundred Only
16.5	4.0 TR		4	Each	75000	300000.00	INR Three Lakh Only
16.6	Supply, installation, testing and commissioning of following minimum capacity VRV/VRF High wall type indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V ± 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System.						
16.7	2.0 TR		2	Each	42000	84000.00	INR Eighty Four Thousand Only

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1	1	1	4	5	11	51	55
16.8	Supply, installation, testing and commissioning including vacuumization and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required.						
16.9	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation		20	Meter	387	7740.00	INR. Seven Thousand Seven Hundred & Forty Only
17	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation		60	Meter	490	29400.00	INR. Twenty Nine Thousand Four Hundred Only
17.1	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation		75	Meter	595	44625.00	INR. Forty Four Thousand Six Hundred & Twenty Five Only
17.2	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation		75	Meter	832	62400.00	INR. Sixty Two Thousand Four Hundred Only
17.3	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation		60	Meter	959	57540.00	INR. Fifty Seven Thousand Five Hundred & Forty Only
17.4	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation		50	Meter	1286	64300.00	INR. Sixty Four Thousand Three Hundred Only
17.5	25.4 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation		20	Meter	1412	28240.00	INR. Twenty Eight Thousand Two Hundred & Forty Only
17.6	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation		15	Meter	1553	23295.00	INR. Twenty Three Thousand Two Hundred & Ninety Five Only

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SL No.	Item Description	Item Code / Mark	Quantity	Units	BASIC RATE In Figures To be entered by the bidder excluding GST Rs. / -	TOTAL AMOUNT excluding GST Rs. / -	TOTAL AMOUNT In Words
1	2	3	4	5	13	13	15
17.7	31.8 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation		10	Meter	1684	16840.00	INR Sixteen Thousand Eight Hundred & Forty Only
17.8	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation		10	Meter	1883	18830.00	INR Eighteen Thousand Eight Hundred & Thirty Only
17.9	38.1 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation		10	Meter	2093	20930.00	INR Twenty Thousand Nine Hundred & Thirty Only
18	41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation		10	Meter	2180	21800.00	INR Twenty One Thousand Eight Hundred Only
18.1	Supply & fixing of suitable size Refnets with insulation for VRV units complete as per actual site requirements.		12	Each	1800	21600.00	INR Twenty One Thousand Six Hundred Only
18.2	Providing & fixing control cum transmission wiring of 2 core x 1.5 sqmm copper in suitable 25 mm dia MS conduits on surface or in recess between indoor units and outdoor units, indoor units and remote controllers.		165	Meter	208	34320.00	INR Thirty Four Thousand Three Hundred & Twenty Only
18.3	Supply, installation, testing and commissioning of condensate drain water piping of suitable dia of CPVC complete with fittings like elbows, tees, reducers, bends, U-traps, braided flexible pipe connections with GI clamps, flanges, supports, solvent etc. as required conforming to specifications and as per actual site requirements		120	Meter	550	66000.00	INR Sixty Six Thousand Only

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	UNIT PRICE In Figures To be entered by the Bidder excluding GST Rs. P	TOTAL AMOUNT excluding GST Rs. P	TOTAL AMOUNT In Words
1	1	1	4	3	13	53	53
18.4	SH : VI - Replacement works related to existing Air Distribution system of Central Air-Conditioning System						
18.5	Supplying, fixing, testing & commissioning of Supply Air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.		20	Sq. Meter	19886	397720.00	INR Three Lakh Ninety Seven Thousand Seven Hundred & Twenty Only
18.6	Supplying, fixing, testing & commissioning of Return Air diffusers of powder coated aluminium without aluminium volume control dampers with anti smudge ring & removable core.		20	Sq. Meter	11408	228160.00	INR Two Lakh Twenty Eight Thousand One Hundred & Sixty Only
18.7	Supply, installation, testing & commissioning of thermal insulated flexible duct of following sizes duly supported at regular interval as per site requirement etc., complete as required as per specifications.						
18.8	200mm dia		30	Meter	1500	45000.00	INR Forty Five Thousand Only
18.9	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.		10	Sq. Meter	14443	144430.00	INR One Lakh forty four Thousand Four Hundred & Thirty Only

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Sl. No.	Item Description	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder excluding GST Rs. /-	TOTAL AMOUNT excluding GST Rs. /- TOTAL AMOUNT In Words
1	2	3	4	5	13	55
19	SH : VII - Provision of Fire Gas Suppression System Design, Manufacturing, Supply, Installation, Testing and Commissioning of of Gas Suppression System consisting of Cylinder PESO Approved, complete with UL / VDS / PESO Approved valve assembly and arrangement for supervisory switch connection for monitoring cylinder pressure, pressure gauge with a safety burst disc, electronic control head / Solenoid, pressure operated control head, Manually operated actuator, Pneumatic actuator valve, flexible hose, strap, NRV, Pressure Switch and a safety cap, required nos. of nozzles (UL / VDS listed) and directional valves, Addressable Fire Alarm Gas release panel, addressable smoke detectors, Manual gas release and abort station with manual call points, Piping, Manifold, copper cabling etc. complete as required as per specifications. Note : (1) Gas (Quantity would be as per the volume given below and as per the UL / VDS certification.) CLEAN AGENT (FK-5-1-12) / NOVAC 1230 / Inert Gas with Zero Ozone Depletion Potential (ODP), has appearance / Colourless gas and odour less. (2) Complete designing of the system along with shop drawings and technical details of the components to be submitted for approval of EIC prior to execution of work. (3) The Cylinder, Volume of Gas, Nos. of Nozzles, discharge valves, piping design and pressure calculations using manufacturer design software duly approved by manufacturer (OEM) shall be submitted prior to commencement of the works. The cylinder capacity and volume of gas shall be computed for the room having largest volume in each floor. (Note : * Room with largest volume at each floor).					
19.1	Ground Floor (a) Automation Fallback Server Room* (Volume=16.0mtr(L)X6.0 mtr(B)X4.10 Mtr(H) = 393.60 Cu.Mtr) (b) UPS Room (Volume = 6.0mtr (L) X 4.0 mtr (B) X 3.65 Mtrs (H) = 87.60 Cu.Mtr) (c) Battery Room (Volume = 6.0mtr (L) X 4.0 mtr (B) X 3.65 Mtrs (H) = 87.60 Cu.Mtr)		1	Set	2123000	2123000.00 INR Twenty One Lakh Twenty Three Thousand Only
19.2	Second Floor (a) Automation Server Room* (Volume =12.0mtr(L) X 8.0 mtr(B) X 4.10 Mtr(H) = 393.60 Cu.Mtr) (b) ASMGCS Server Room (Volume= 6.0mtr(L) X 4.0 mtr(B) X 4.10 Mtr(H) = 98.40 Cu.Mtr) (c) VHF/VCCS/VCR/DATIS Room(Volume =16.0mtr(L)X6.0 mtr(B)X4.10 Mtr(H) = 393.60 Cu.Mtr) (d) UPS Room (Volume = 6.0mtr (L) X 4.0 mtr (B) X 3.65 Mtrs (H) = 87.60 Cu.Mtr) (e) Battery Room (Volume = 6.0mtr (L) X 4.0 mtr (B) X 3.65 Mtrs (H) = 87.60 Cu.Mtr)		1	Set	2645000	2645000.00 INR Twenty Six Lakh Forty Five Thousand Only

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SL No.	Item Description	Item Code # / Mark #	Quantity	Units	BASIC RATE In Figures To be entered by the Bidders excluding GST Rs. /	TOTAL AMOUNT excluding GST Rs. /	TOTAL AMOUNT In Words
1	2	3	4	5	33	33	33
19.3	SH : VIII - Provision of Portable Fire extinguishers Supply and fixing of CO2 type Portable Fire Extinguishers (fully charged) of following capacity confirming to IS 15683-2006 including providing wall mounting bracket etc., complete as required.						
19.4	2.0 Kg, CO2 based		15	Each	2830	42450.00	INR Forty Two Thousand Four Hundred & Fifty Only
19.5	4.5 Kg, CO2 based		10	Each	11800	118000.00	INR One Lakh Eighteen Thousand Only
Total in Figures						37963336.00	Lakh Sixty Three Thousand Three Hundred & Thirty Six
Add on conditional rebate on overall quoted rates @6%(Six Percent) offered by the agency during negoation meeting						-2277800.16	
						₹ 3,56,85,535.84	

(Rupees Three crore Fifty six lakhs Eighty five thousand Five hundred and thirty five and paise Eighty four only)

(Signature)
(E Sesha Ratnam)
Sr Manager(Emgg-Civil)
AAI, Bangalore Airport