



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

स.स.: भाविप्रा/क्षेमु उक्षे/वप्र(ई-ई)/NGL-EnM/E-306809/2026-27/01/123
R.No: AAI/RHQ/NR/SM(E-E)/NGL-EnM/E-306809/2026-27/01/123

दिनांक: 25/05/2026
Dated: 25/05/2026

सेवा में,

मैसर्स शिवा एंटरप्राइज़स

एफ-342, सहारा ट्रेड सेंटर, अयोध्या रोड,

लखनऊ - 226016

फोन: 9415102136 / 9653098403

ईमेल: SHIVAENT2000@GMAIL.COM

To,

M/s SHIVA ENTERPRISES

F-342, SAHARA TRADE CENTRE,

AYODHYA ROAD,

LUCKNOW - 226016

PH: 9415102136 / 9653098403

EMAIL: SHIVAENT2000@GMAIL.COM

विषय: कन्स्ट्रक्शन ऑफ न्यू यूपीएस एंड बैटरी बैंक (सीओपी सिस्टम) एट INLUS गगन कॉम्प्लेक्स, नांगलोई, दिल्ली। (उप-शीर्ष: एसआईटीसी ऑफ इलैक्ट्रिकल एंड मैकानिकल इन्स्टालेशन्स, इंटरनल एंड एक्सटर्नल इलैक्ट्रिफिकेशन वर्क्स)।

SUB: CONSTRUCTION OF PROPOSED ROOMS FOR NEW UPS AND BATTERY BANKS (COPS SYSTEM) AT INLUS GAGAN COMPLEX, NANGLOI, DELHI. (SH: SITC OF E&M INSTALLATIONS, INTERNAL & EXTERNAL ELECTRIFICATION WORK)

TENDER ID: 2026_AAI_269590_1 (FINANCIAL BID OPENED ON 15.04.2026)

LOI: AAI/RHQ/NR/SM(E-E)/NGL-ENM/E-306809/2026-27/01/305; Dt: 27/04/2026

PERFORMANCE BANK GUARANTEE: 6828IPEBG260019; Dt: 11/05/2026

- उपरोक्त कार्य हेतु आपकी ई-निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है जोकि आपके द्वारा उद्धृत मद मूल्यो जिसकी कुल राशि रुपये 34,82,605/- (रुपये चौतीस लाख बयासी हजार छह सौ और पाँच मात्र) जोकि अनुमानित लागत रुपये 41,32,867/- से 15.73% कम है (उद्धृत मूल्य में जीएसटी शामिल नहीं है)।

YOUR E-TENDER FOR THE WORK MENTIONED ABOVE IS HEREBY ACCEPTED ON BEHALF OF THE CHAIRMAN, AIRPORTS AUTHORITY OF INDIA AT THE ITEM RATES QUOTED BY YOU TOTALING TO Rs.34,82,605/- (RUPEES THIRTY FOUR LAKHS EIGHTY TWO THOUSAND SIX HUNDRED AND FIVE ONLY) WHICH IS 15.73% BELOW THE ESTIMATED COST PUT TO TENDER OF Rs.41,32,867/- (THE QUOTED RATES ARE EXCLUSIVE OF GST).

- वरिष्ठ प्रबन्धक अभि.(विद्युत), भाविप्रा, क्षेमु, उक्षे, NATS बिल्डिंग, टी2- रोड, आईजीआई एयरपोर्ट, नई दिल्ली -110037 इस कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप अपनी ओर से एक विश्वसनीय प्रतिनिधि नियुक्त करें जो कंस्ट्रक्शन पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 10/06/2026 तक वरिष्ठ प्रबन्धक अभि.(विद्युत), भाविप्रा, क्षेमु, उक्षे, NATS बिल्डिंग, टी2- रोड, आईजीआई एयरपोर्ट, नई दिल्ली 110037- के कार्यालय में उपस्थित हो तथा कंस्ट्रक्शन को पूरा करें। ठेके का कंस्ट्रक्शनमा रुपये 100/- के नोनजुडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा उठाया जाएगा।

SENIOR MANAGER ENGG.(E), AAI, RHQ, NR, NATS BUILDING, T-2 ROAD, IGI AIRPORT, NEW DELHI-110037 WILL BE ENGINEER-IN-CHARGE OF THE WORK. YOU ARE REQUESTED TO DEPUTE YOUR AUTHORISED REPRESENTATIVE, EMPOWERED TO SIGN THE CONTRACT AGREEMENT ON YOUR BEHALF IN THE O/O SENIOR MANAGER ENGG.(E), AAI, RHQ, NR, NATS BUILDING, T-2 ROAD, IGI AIRPORT, NEW DELHI-110037 TO SIGN & COMPLETE THE AGREEMENT ON OR BEFORE 10/06/2026. THE CONTRACT AGREEMENT SHALL BE EXECUTED ON A NON-JUDICIAL STAMP PAPER OF VALUE OF RS.100/- AND THE COST OF THE STAMP PAPER SHALL BE BORNE BY YOU.



- 3) कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर धरोहर राशि **₹ 3,48,261/-** (रुपये तीन लाख अड़तालीस हजार दो सौ इकसठ मात्र) जमा कर दे अन्यथा ठेके के करारनामे में दी गई शर्त के अनुसार इतनी ही राशि आपके रनिंग बिल में से काट ली जाएगी।

PLEASE DEPOSIT Rs.3,48,261/- (RUPEES THREE LAKHS FORTY EIGHT THOUSAND TWO HUNDRED SIXTY ONE ONLY) TOWARDS SECURITY DEPOSIT WITHIN 10 DAYS FROM THE DATE OF ISSUE OF THIS LETTER FAILING WHICH, THE SAME SHALL BE DEDUCTED FROM YOUR RUNNING BILLS AS PER CONDITIONS OF THE CONTRACT DOCUMENT.

- 4) आपसे निवेदन है कि आप केंद्रीय और राज्य सरकारों के 1970 अधिनियम अनुबंध श्रम नियम तथा 1971 के केंद्रीय नियम (नियमन तथा उन्मूलन) एवं केंद्र और राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधान का अनुपालन करें।

YOU ARE REQUESTED TO COMPLY WITH THE PROVISIONS OF CONTRACT LABOUR (REGULATION AND ABOLITION) ACT OF 1970 AND CONTRACT LABOUR (REGULATION & ABOLITION) CENTRAL RULES 1971 & MINIMUM WAGES ACT & RULES THERE OF CENTRAL & STATE GOVERNMENTS.

- 5) आपको निर्देश दिया जाता है कि तुरंत वरिष्ठ प्रबंधक (अभि-विद्युत), भाविप्रा, क्षेमु, उक्षे, NATS बिल्डिंग, टी-2 रोड, आईजीआई एयरपोर्ट, नई दिल्ली-110037 से मिले वह आपको साइट सौंपने की व्यवस्था करेंगे। कृपया नोट कर ले कि काम करने का निर्धारित समय **तीन (03) महीने** है जोकि **05/06/2026** से गिना जाएगा।

YOU ARE DIRECTED TO CONTACT SENIOR MANAGER ENGG.(E), AAI, RHQ, NR, NATS BUILDING, T-2 ROAD, IGI AIRPORT, NEW DELHI-110037 IMMEDIATELY FOR TAKING OVER THE SITE. PLEASE NOTE THAT THE TIME ALLOWED FOR CARRYING OUT THE WORK IS THREE (03) MONTHS WHICH SHALL BE RECKONED FROM 05/06/2026.

- 6) इस ठेके के संबंध में आने का कोई भी पत्राचार वरिष्ठ प्रबंधक (अभि-विद्युत), भाविप्रा, क्षेमु, उक्षे, NATS बिल्डिंग, टी-2 रोड, आईजीआई एयरपोर्ट, नई दिल्ली -110037 के पते पर किया जाए।

ANY FURTHER CORRESPONDENCE IN CONNECTION WITH THIS CONTRACT SHOULD NORMALLY BE ADDRESSED TO SENIOR MANAGER ENGG(E), AAI, RHQ, NR, NATS BUILDING, T-2 ROAD, IGI AIRPORT, NEW DELHI-110037.

- 7) उपरोक्त संदर्भित सभी पत्र इस ठेके का भाग होंगे।

ALL THE LETTERS REFERRED ABOVE SHALL FORM PART OF CONTRACT.

- 8) ठेके की दोष दायित्व अवधि **बारह (12) महीने** होगी जोकि कार्य समाप्ति की तिथि से गिना जाएगा।

THE DEFECT LIABILITY PERIOD SHALL BE TWELVE (12) MONTHS WHICH SHALL BE RECKONED FROM THE DATE OF COMPLETION OF WORK.



- 9) कहीं भी हिन्दी या अँग्रेजी संस्करण में अंतर या अस्पष्टता के मामले में, अँग्रेजी संस्करण मान्य होगा।
IF THERE IS ANY DIFFERENCE OR AMBIGUITY IN HINDI OR ENGLISH VERSION ANYWHERE, THE ENGLISH VERSION SHALL PREVAIL.
- 10) कृपया इस कार्य आदेश की प्राप्ति को स्वीकार करें और स्वीकृति के टोकन के रूप में अधोहस्ताक्षरी को हस्ताक्षर करने के बाद इस पत्र की डुप्लिकेट कॉपी को संलग्न करें।
PLEASE ACKNOWLEDGE THE RECEIPT OF WORK ORDER AND RETURN THE DUPLICATE COPY OF THIS LETTER ENCLOSED HEREWITH AFTER SIGNING IT TO THE UNDERSIGNED AS A TOKEN OF ACCEPTANCE.

भवदीय/YOURS FAITHFULLY,

संलग्न / ENCL:- एसओक्यू / SOQ (06 PAGES)

Khija
25/05/26

वरिष्ठ प्रबंधक अभि.(वि) / SR. MANAGER ENGG.(E)

भा.वि.प्रा., क्षे.मु., उ.क्षे. / AAI, RHQ, NR.

एनएटीएस बिल्डिंग, आईजीआई हवाईअड्डा / NATS BUILDING, IGI AIRPORT,

नई दिल्ली - 110037 / NEW DELHI - 110037

कृते तथा की ओर से अध्यक्ष / FOR AND ON BEHALF OF CHAIRMAN

SCHEDULE OF QUANTITIES

NAME OF WORK: **CONSTRUCTION OF PROPOSED ROOMS FOR NEW UPS AND BATTERY BANKS (COPS SYSTEM) AT INLUS, GAGAN COMPLEX NANGLOI, DELHI.**
SH- SITC OF E&M INSTALLATIONS, INTERNAL & EXTERNAL ELECTRIFICATION WORK.

S. No.	DESCRIPTION OF WORK / ITEM(S)	UNIT	QTY.	RATE(Rs.) EXCL. GST	AMOUNT (Rs.)
1.00	<u>LED PANEL LIGHT 2x2 FT. (SYSTEM LUMEN EFFICACY ≥105 <120 LM/WATT)</u> S.I.T.C. OF 36 WATT PANEL LIGHT 2 x 2 FT. OF FOLLOWING BODY MATERIAL AND CONSTRUCTION AS PER IS: 10322 WITH DRIVER AS PER THE REQUIREMENT WITH DRIVER EFFICIENCY >85%, OPERATING VOLTAGE AC 140-270 VOLT, FREQ 50/60 HZ, OPERATING TEMP RANGE -15 DEG TO 40 DEG CENTIGRADE, INTERNAL SURGE PROTECTION OF 2.5 KV WITH SHORT & OPEN CIRCUIT PROTECTION, THD <10%, P.F. ≥0.95, IP20, CRI >80, UGR (UNIFIED GLARE RATING) <19, FLICKER FREE, (FLICKER SHOULD BE BELOW 5 %), LIFE TIME (LED, DRIVER & ELECTRICAL CIRCUITRY), OF MINIMUM 50000 BURNING HOURS WITH, 70% OF INITIAL LUMEN MAINTAINED TILL LIFE ENDS AS PER LM80 EXTRAPOLATION IES TM-21-11 REPORT, CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (AS PER ANSI BIN), SDCM (STANDARD DEVIATION COLOR MATCHING) <3, MAXIMUM POWER CONSUMPTION SHOULD NOT MORE THAN SPECIFIED RATING AND FIXTURE SHALL BE OF RELEVANT BIS STANDARD AND TRADE MARK CERTIFICATE (T.C.). MANUFACTURES WORD MARK/ NAME ENGRAVED/ EMBOSING/ SCREEN PRINTING ON HOUSING. COMPLETE IN ALL RESPECT I/C CONNECTIONS WITH 1.5 SQ MM FRLS, PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND EARTHING ETC. AS REQUIRED WITH MINIMUM 5 YEAR OEM WARRANTY. SYSTEM LUMEN EFFICACY ≥105<120 LM/WATT OUTPUT. LM79 & LM80 TEST REPORT FROM NABL LAB FOR ALL TESTING REQUIRED FOR LED FIXTURES AS PER BIS SHALL BE SUBMITTED. SHAPE SIZE AND CCT SHALL BE AS APPROVED BY ENGINEER-IN-CHARGE AS PER REQUIREMENT. (THERMAL MANAGEMENT: HEAT SINK OF ALUMINUM HOUSING SUCH THAT LED JUNCTION TEMPERATURE SHALL NOT RISE ABOVE 90°C). <u>POWDER COATED DIE CAST / EXTRUDED ALUMINIUM BODY (THICKNESS ≥ 1.20 MM)</u>	EACH	27	1175.00	31725.00
2.00	<u>LED DOWN LIGHTER (SMD TYPE) (SYSTEM LUMEN EFFICACY ≥ 105 < 120 LM/WATT)</u> S.I.T.C. OF 10 WATT LED RECESSED/ SURFACE DOWN LIGHTER (ROUND / SQUARE/ RECTANGULAR) SMD TYPE OF FOLLOWING BODY MATERIAL WITH PMMA & PRISMATIC DIFFUSER & CONSTRUCTION AS PER IS: 10322 WITH DRIVER AS PER THE REQUIREMENT WITH DRIVER EFFICIENCY >85%, OPERATING VOLTAGE AC 140-270 VOLT, FREQUENCY 50/60 HZ, OPERATING TEMP RANGE -15 DEG TO 40 DEG CENTIGRADE, INTERNAL SURGE PROTECTION OF 2.5 KV WITH SHORT & OPEN CIRCUIT PROTECTION, THD <10%, P.F. ≥0.95, IP20, CRI >80, UGR (UNIFIED GLARE RATING) <19, FLICKER FREE (FLICKER SHOULD BE BELOW 5%), LIFE TIME (LED, DRIVER & ELECTRICAL CIRCUITRY) OF MINIMUM 50000 BURNING HOURS WITH 70% OF INITIAL LUMEN MAINTAINED TILL LIFE ENDS, CCT 3000°K/ 4000°K/ 5700°K/ 6000°K / 6500°K (AS PER ANSI BIN), SDCM (STANDARD DEVIATION COLOR MATCHING) <3, MAXIMUM POWER CONSUMPTION SHOULD NOT MORE THAN SPECIFIED RATING & FIXTURE SHALL BE CONFIRMING TO RELEVANT BIS STANDARDS & TRADE MARK CERTIFICATE (T.C.). MANUFACTURES WORD MARK / NAME ENGRAVED/ EMBOSING/ SCREEN PRINTING ON HOUSING COMPLETE IN ALL RESPECT I/C CONNECTIONS WITH 1.5 SQ MM FRLS, PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE & EARTHING ETC. AS REQUIRED WITH MINIMUM 5 YEAR OEM WARRANTY, SYSTEM LUMEN EFFICACY ≥105 & <120 LM/WATT OUTPUT, LM79 & LM80 TEST REPORT FROM NABL LAB FOR ALL TESTING REQUIRED FOR LED FIXTURES AS PER BIS SHALL BE SUBMITTED, SHAPE SIZE & CCT SHALL BE AS APPROVED BY ENGINEER-IN-CHARGE AS PER REQUIREMENT. (THERMAL MANAGEMENT: HEAT SINK OF ALUMINUM HOUSING SUCH THAT LED JUNCTION TEMPERATURE SHALL NOT RISE ABOVE 90°C) <u>POWDER COATED DIE CAST / EXTRUDED ALUMINUM BODY INCLUDING TRIM</u>	EACH	16	470.00	7520.00

S. No.	DESCRIPTION OF WORK / ITEM(S)	UNIT	QTY.	RATE(Rs.) EXCL. GST	AMOUNT (Rs.)
3.00	LED FLOOD LIGHT, POWDER COATED PRESSURE DIE CAST ALUMINUM (SYSTEM LUMEN EFFICACY ≥ 120 AND < 135 LM/WATT) S.I.T.C. OF 100 WATT FLOOD LIGHT, POWDER COATED PRESSURE DIE CAST ALUMINUM BODY WITH BUILT IN OR SEPARATE DRIVER AS PER THE REQUIREMENT WITH DRIVER EFFICIENCY $> 85\%$, INPUT VOLTAGE: INPUT VOLTAGE: 140-270 VOLT AC, FREQ 50/60 HZ, OPERATING TEMP RANGE -15°C TO 50°C , INTERNAL SURGE PROTECTION OF 5 KV L,N,E AS PER IEC 61000-4-5, DRIVER EFFICIENCY $> 85\%$, THD $< 10\%$ AS PER IEC 61000-3-2, P.F. ≥ 0.95 , IP-66, IK-10, CRI > 80 , UNDER VOLTAGE & OVER VOLTAGE PROTECTION, EMI-EMC AS PER CISPR-15, LENSES FOR BEAM ANGLE 30 DEG 120 DEG AS PER APPLICATION & THE PROJECT REQUIREMENT DEG, SUITABLE TILTABLE FITTING, LIFE TIME (LED, DRIVER & ELECTRICAL CIRCUITRY) OF MINIMUM 50000 BURNING HOURS WITH 70% OF INITIAL LUMEN MAINTAINED TILL LIFE ENDS AS PER LM80 EXTRAPOLATION IES TM-21-11 REPORT, CCT 3000° K /4000°K /5700°K /6000°K/6500°K (AS PER ANSI BIN), SDCM(STANDARD DEVIATION COLOR MATCHING) < 5 , MAXIMUM POWER CONSUMPTION SHOULD NOT MORE THAN THE SPECIFIED RATING & FIXTURE SHALL BE OF RELEVANT BIS STANDARD COMPLETE IN ALL RESPECT I/C CONNECTIONS WITH 1.5 SQ MM FRLS, PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE & EARTHING ETC. AS REQUIRED WITH MINIMUM 5 YEAR OEM WARRANTY. SYSTEM LUMEN EFFICACY ≥ 120 AND < 135 LM/WATT OUTPUT. LM79 & LM80 TEST REPORT FROM NABL LAB FOR ALL TESTING REQUIRED FOR LED FIXTURES AS PER BIS SHALL BE SUBMITTED. SHAPE SIZE & CCT SHALL BE AS APPROVED BY ENGINEER-IN-CHARGE AS PER REQUIREMENT. (THERMAL MANAGEMENT: HEAT SINK OF ALUMINUM HOUSING SUCH THAT LED JUNCTION TEMPERATURE SHALL NOT RISE ABOVE 90°C).	EACH	7	2200.00	15400.00
4.00	SUPPLYING & FIXING DP SHEET STEEL ENCLOSURE ON SURFACE/ RECESS ALONG WITH 25/32 A 240 V "C" CURVE DP MCB COMPLETE WITH CONNECTIONS, TESTING & COMMISSIONING ETC. AS REQUIRED.	JOB	14	1360.00	19040.00
5.00	SUPPLYING & FIXING FOLLOWING WAY, HORIZONTAL TYPE THREE POLE & NEUTRAL, SHEET STEEL, MCB DISTRIBUTION BOARD, 415 V, ON SURFACE/ RECESS, COMPLETE WITH TINNED COPPER BUS BAR, NEUTRAL BUS BAR, EARTH BAR, DIN BAR, INTER-CONNECTIONS, POWDER PAINTED INCLUDING EARTHING ETC. AS REQUIRED. (BUT WITHOUT MCB / RCCB / ISOLATOR)				
5.01	4 WAY (4 + 12), DOUBLE DOOR	EACH	1	3260.00	3260.00
5.02	6 WAY (4+18), DOUBLE DOOR	EACH	1	4350.00	4350.00
6.00	SUPPLYING & FIXING FOLLOWING MODULAR SWITCH/ SOCKET ON THE EXISTING MODULAR PLATE & SWITCH BOX INCLUDING CONNECTIONS BUT EXCLUDING MODULAR PLATE ETC. AS REQUIRED.				
6.01	5/6 A SWITCH	EACH	26	130.00	3380.00
6.02	15/16 A SWITCH	EACH	18	150.00	2700.00
6.03	3 PIN 5/6 A SOCKET OUTLET	EACH	14	180.00	2520.00
6.04	6 PIN 15/16 A, SOCKET OUTLET	EACH	18	240.00	4320.00
7.00	SUPPLYING & FIXING MODULAR BLANKING PLATE ON THE EXISTING MODULAR PLATE & SWITCH BOX EXCLUDING MODULAR PLATE AS REQUIRED.	EACH	25	30.00	750.00
8.00	SUPPLYING & FIXING FOLLOWING SIZE/ MODULES, GI BOX ALONGWITH MODULAR BASE & COVER PLATE FOR MODULAR SWITCHES IN RECESS ETC. AS REQUIRED.				
8.01	2 MODULE (75 MM X 75 MM)	EACH	8	350.00	2800.00
8.02	3 MODULE (100MMX75MM)	EACH	19	450.00	8550.00
8.03	6 MODULE (200MMX75MM)	EACH	8	500.00	4000.00
9.00	SUPPLYING & 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.				
9.01	SINGLE POLE	EACH	27	220.00	5940.00
9.02	TRIPLE POLE AND NEUTRAL	EACH	2	750.00	1500.00
10.00	SUPPLYING & FIXING FOLLOWING RATING, FOUR POLE, (THREE PHASE & NEUTRAL), 415 VOLTS, RESIDUAL CURRENT CIRCUIT BREAKER (RCCB), HAVING A SENSITIVITY CURRENT 30 mA IN THE EXISTING MCB DB COMPLETE WITH CONNECTIONS, TESTING AND COMMISSIONING ETC. AS REQUIRED.				
10.01	63 A	EACH	2	2600.00	5200.00

S. No.	DESCRIPTION OF WORK / ITEM(S)	UNIT	QTY.	RATE(Rs.) EXCL. GST	AMOUNT (Rs.)
11.00	PROVIDING & FIXING OF FOLLOWING RATING & BREAKING CAPACITY AND POLE MCCB WITH THERMOMAGNETIC RELEASE AND TERMINAL SPREADERS IN EXISTING CUBICLE PANEL BOARD INCLUDING DRILLING HOLES IN CUBICLE PANEL, MAKING CONNECTIONS ETC. AS REQUIRED.				
11.01	400 A, 50KA, FP MCCB	EACH	2	30000.00	60000.00
12.00	SUPPLYING & FIXING SINGLE POLE BLANKING PLATE IN THE EXISTING MCB DB COMPLETE ETC. AS REQUIRED.	EACH	10	30.00	300.00
13.00	SUPPLYING & FIXING OF FOLLOWING SIZES OF MEDIUM CLASS PVC CONDUIT ALONG WITH ACCESSORIES IN SURFACE / RECESS INCLUDING CUTTING THE WALL & MAKING GOOD THE SAME IN CASE OF RECESSED CONDUIT AS REQUIRED.				
13.01	20 MM	MTR	120	100.00	12000.00
13.02	25 MM	MTR	120	120.00	14400.00
14.00	SUPPLY OF FOLLOWING SIZES FRLSH PVC INSULATED & PVC ROUND SHEATHED MULTI CORE ANNEALED BARE COPPER STRANDED CONDUCTOR (FLEXIBLE) INDUSTRIAL CABLES FOR 1100 VOLT GRADE CONFORMING TO IS 694:2010 AS & WHEN REQUIRED AS DIRECTED BY E-I-C :-				
14.01	3 C x 2.5 SQMM	MTR	200	220.00	44000.00
14.02	3 C x 4.0 SQMM	MTR	200	270.00	54000.00
15.00	WIRING FOR CIRCUIT/ SUBMAIN WIRING ALONG WITH EARTH WIRE WITH THE FOLLOWING SIZES OF FRLS PVC INSULATED COPPER CONDUCTOR, SINGLE CORE CABLE IN SURFACE / RECESSED MEDIUM CLASS PVC CONDUIT AS REQUIRED.				
15.01	2 x 1.5 SQ.MM + 1 x 1.5 SQ.MM EARTH WIRE	MTR	350	180.00	63000.00
15.02	2 x 2.5 SQ.MM + 1 x 2.5 SQ.MM EARTH WIRE	MTR	300	270.00	81000.00
15.03	2 x 4 SQ.MM + 1 x 4 SQ.MM EARTH WIRE	MTR	300	290.00	87000.00
16.00	SUPPLY OF FOLLOWING SIZES XLPE ARMoured CABLES WITH ALUMINIUM CONDUCTOR 650/1100V. GRADE CONFIRMING TO IS:7098 (PART-1) 1988 WITH UPTO DATE AMENDMENTS COMPLETE AS REQUIRED AS DIRECTED BY E-I-C:				
16.01	3.5 X 185 SQMM	MTR.	500	1100.00	550000.00
16.02	3.5 X 50 SQMM	MTR.	400	350.00	140000.00
17.00	LAYING OF ONE NUMBER PVC INSULATED & PVC SHEATHED / XLPE POWER CABLE OF 1.1 KV GRADE OF FOLLOWING SIZE IN THE EXISTING RCC/ HUME/ METAL/ HDPE PIPE AS REQUIRED.				
17.01	ABOVE 35 SQ.MM & UPTO 95 SQ.MM	MTR.	250	70.00	17500.00
17.02	ABOVE 95 SQ.MM & UPTO 185 SQ.MM	MTR.	400	110.00	44000.00
18.00	LAYING & FIXING OF ONE NUMBER PVC INSULATED & PVC SHEATHED / XLPE POWER CABLE OF 1.1 KV GRADE OF FOLLOWING SIZE ON WALL SURFACE AS REQUIRED.				
18.01	ABOVE 35 SQMM & UPTO 95 SQMM (CLAMPED WITH 25X3 MM MS FLAT CLAMP)	MTR.	100	95.00	9500.00
18.02	ABOVE 95 SQ. MM AND UPTO 185 SQ. MM (CLAMPED WITH 25/40X3MM MS FLAT CLAMP)	MTR.	100	130.00	13000.00
19.00	LAYING OF ONE NUMBER PVC INSULATED & PVC SHEATHED / XLPE POWER CABLE OF 1.1 KV GRADE OF FOLLOWING SIZE IN THE EXISTING MASONARY OPEN DUCT AS REQUIRED.				
19.01	ABOVE 35 SQ. MM & UPTO 95 SQ. MM	MTR.	50	85.00	4250.00
19.02	ABOVE 95 SQ. MM & UPTO 185 SQ. MM	MTR.	100	110.00	11000.00
20.00	LAYING & FIXING OF ONE NUMBER PVC INSULATED & PVC SHEATHED / XLPE POWER CABLE OF 1.1 KV GRADE OF FOLLOWING SIZE ON CABLE TRAY AS REQUIRED.				
20.01	ABOVE 35 SQ. MM AND UPTO 95 SQ. MM (CLAMPED WITH 25X3 MM MS FLAT CLAMP)	MTR.	100	95.00	9500.00
20.02	ABOVE 95 SQ. MM AND UPTO 185 SQ. MM (CLAMPED WITH 25/40X3MM MS FLAT CLAMP)	MTR.	50	110.00	5500.00
21.00	SUPPLYING & LAYING OF FOLLOWING SIZE DWC HDPE PIPE ISI MARKED ALONG WITH ALL ACCESSORIES LIKE SOCKET, BEND, COUPLERS ETC. CONFORMING TO IS 14930, PART II COMPLETE WITH FITTING & CUTTING, JOINTING ETC. DIRECT IN GROUND (75 CM BELOW GROUND LEVEL) I/C EXCAVATION & REFILLING THE TRENCH BUT EXCLUDING SAND CUSHIONING AND PROTECTIVE COVERING ETC., COMPLETE AS REQUIRED.				
21.01	120 MM DIA (OD-120 MM & ID-103 MM NOMINAL)	MTR.	300	300.00	90000.00

S. No.	DESCRIPTION OF WORK / ITEM(S)	UNIT	QTY.	RATE(Rs.) EXCL. GST	AMOUNT (Rs.)
22.00	PROVIDING, LAYING & FIXING OF FOLLOWING DIA G.I. PIPE (MEDIUM CLASS) IN GROUND COMPLETE WITH G.I. FITTINGS I/C TRENCHING (75 CM DEEP) AND RE-FILLING ETC AS REQUIRED.				
22.01	100 MM DIA	MTR.	50	1200.00	60000.00
23.00	EARTHING WITH G.I. EARTH PIPE 4.5 MTR. LONG, 40 MM DIA I/C ACCESSORIES & PROVIDING MASONRY ENCLOSURE WITH COVER PLATE HAVING LOCKING ARRANGEMENT & WATERING PIPE ETC. WITH CHARCOAL/ COKE & SALT AS REQUIRED.	SET	2	7000.00	14000.00
24.00	SUPPLYING & LAYING 25MM X 5MM G.I STRIP AT 0.50 MTR. BELOW GROUND AS STRIP EARTH ELECTRODE I/C CONNECTION / TERMINATING WITH G.I. NUT, BOLT, SPRING, WASHER ETC. AS REQUIRED. (JOINTING SHALL BE DONE BY OVERLAPPING & WITH 2 SETS OF G.I. NUT BOLT & SPRING WASHER SPACED AT 50MM)	MTR.	20	250.00	5000.00
25.00	PROVIDING AND FIXING 25 MM X 5 MM G.I. STRIP ON SURFACE OR IN RECESS FOR CONNECTIONS ETC. AS REQUIRED.	MTR.	100	260.00	26000.00
26.00	PROVIDING AND FIXING 6 SWG DIA G.I. WIRE ON SURFACE OR IN RECESS FOR LOOP EARTHING AS REQUIRED.	MTR.	100	25.00	2500.00
27.00	PROVIDING AND FIXING 6 SWG DIA G.I. WIRE ON SURFACE OR IN RECESS FOR LOOP EARTHING ALONG WITH EXISTING SURFACE/ RECESSED CONDUIT/SUBMAIN WIRING/ CABLES AS REQUIRED.	MTR.	1500	23.00	34500.00
28.00	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.	SET	8	8500.00	68000.00
29.00	SUPPLYING & LAYING 25MM X 5MM COPPER STRIP AT 0.50 METRE BELOW GROUND AS STRIP EARTH ELECTRODE, I/C CONNECTION / TERMINATING WITH NUT, BOLT, SPRING, WASHER ETC. AS REQUIRED. (JOINTING SHALL BE DONE BY OVERLAPPING & WITH 2 SETS OF BRASS NUT BOLT & SPRING WASHER SPACED AT 50MM)	MTR.	50	650.00	32500.00
30.00	PROVIDING & FIXING 25MM X 5MM COPPER STRIP IN 40MM DIA G.I. PIPE FROM EARTH ELECTRODE I/C CONNECTION WITH BRASS NUT, BOLT, SPRING, WASHER EXCAVATION & RE-FILLING ETC. AS REQUIRED.	MTR.	50	750.00	37500.00
31.00	PROVIDING & FIXING 25MM X 5MM COPPER STRIP ON SURFACE OR IN RECESS FOR CONNECTIONS ETC. AS REQUIRED.	MTR.	150	650.00	97500.00
	SITC OF SPLIT AC's				
32.00	SUPPLY OF 2.0 TR BEE-5 STAR RATING WALL MOUNTED INVERTER SPLIT TYPE AIR CONDITIONING UNITS OPERATING ON ECO-REFRIGERANT (R32 PREFERABLY), COPPER CONDENSER & COPPER EVAPORATOR COILS SUITABLE FOR OPERATION ON 220-240 V SINGLE PHASE 50 HZ SUPPLY HAVING ALL SAFETY FEATURES, AIR FILTERS, CORDLESS REMOTE FOR OPERATION ETC. INCL. ALL ACCESSORIES SUCH AS STD. LENGTH COPPER PIPE (NOT LESS THAN 3 MTRS), DRAIN PIPE, POWER CABLE, CONTROL CABLE ETC. HAVING COMPRESSOR WARRANTY OF MINIMUM 05 YEARS COMPLETE AS REQUIRED.	EACH	12	43000.00	516000.00
33.00	INSTALLATION, TESTING & COMMISSIONING OF 2.0 TR SPLIT AC AS PER SITE CONDITIONS & CONNECTING THE INDOOR & OUTDOOR UNIT WITH STANDARD COPPER PIPE OF 3 MTRS. APPROX, BRAZING, CONNECTING THE DRAIN PIPE WITH INDOOR UNIT ETC. COMPLETE AS REQUIRED AS DIRECTED BY E-I-C.	EACH	12	1250.00	15000.00
34.00	SUPPLYING & FIXING OF COPPER PIPE (1/2", 1/4") FOR SUCTION / LIQUID LINE AND CONNECTING THE SAME WITH EXISTING COPPER PIPE, BRAZING ETC. OF INDOOR / OUTDOOR UNIT ALONG WITH INSULATION, FIXING INSULATION WITH VINYL TAPE ETC. COMPLETE AS REQUIRED AS PER SITE REQUIREMENT AND AS DIRECTED BY E-I-C.	MTR.	100	1500.00	150000.00
35.00	SUPPLY & FIXING OF DRAIN PIPE WITH INSULATION OF SUITABLE LENGTH TO CONNECT WITH EXISTING DRAIN PIPE OF AC COMPLETE AS REQUIRED	MTR.	150	200.00	30000.00
36.00	SUPPLYING & FIXING OF OUTDOOR WALL BRACKETS SO AS TO MOUNT THE OUTDOOR UNITS OF SPLIT AC ON WALL / FLOOR COMPLETE AS REQUIRED WITH NUT, BOLTS ETC. AS DIRECTED BY E-I-C.	JOB	12	850.00	10200.00
37.00	SUPPLYING & APPLYING OF PREVENTIVE COATING ON COPPER PIPES (CONDENSER / EVAPORATOR) TO PREVENT REFRIGERANT LEAKAGE FROM 2.0 TR SPLIT ACS COMPLETE AS REQUIRED AS DIRECTED BY E-I-C.	JOB	12	250.00	3000.00

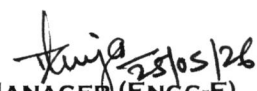
S. No.	DESCRIPTION OF WORK / ITEM(S)	UNIT	QTY.	RATE(Rs.) EXCL. GST	AMOUNT (Rs.)
	SITC OF LT PANEL				
38.00	LT PANEL SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CUBICLE TYPE LT PANEL (TTA) INDOOR TYPE, IP54 PROTECTION, 50 KA SUITABLE FOR 415V, 3 PHASE, 4 WIRE 50 Hz AC SUPPLY SYSTEM FABRICATED IN COMPART-MENTALIZED DESIGN FROM CRCA SHEET STEEL OF 2 MM THICK FOR FRAME WORK AND COVERS, 3 MM THICK FOR GLAND, PLATES I/C CLEANING & FINISHING COMPLETE WITH 7 TANK PROCESS FOR POWDER COATING IN APPROVED SHADE, HAVING 4P ALUMINIUM ALLOY BUS BARS OF HIGH CONDUCTIVITY, SMC BUS BAR SUPPORTS, WITH SHORT CIRCUIT WITHSTAND CAPACITY OF 50 KA FOR 1 SEC, BOTTOM BASE CHANNEL OF MS SECTION NOT LESS THAN 100 MM X 50 MM X 5 MM THICK, FABRICATION SHALL BE DONE IN TRANSPORTABLE SECTIONS, ENTIRE PANEL SHALL HAVE A COMMON COPPER EARTH BAR OF SIZE 25 MM X 5 MM AT THE REAR WITH 2 NOS. EARTH STUD, SOLID CONNECTIONS FROM MAIN BUS BAR TO SWITCH GEARS WITH REQUIRED SIZE OF AL. BUS BARS AND CONTROL WIRING WITH SUITABLE SIZE OF PVC INSULATED COPPER CONDUCTOR, CABLE ALLEYS, CABLE GLAND PLATES IN TWO HALF, I/C PROVIDING FOLLOWING :-				
	(A) INCOMER i) 02 Nos. MCCB, 300A, 35 kA, FOUR POLE WITH MICRO-PROCESSOR BASED (LSING) RELEASE HAVING OVER CURRENT, SHORT CIRCUIT, EARTH FAULT PROTECTION (ICS=ICU) FOR BOTH INCOMERS. ii) 01 No. MCCB, 300A, 35 kA, FOUR POLE WITH MICRO-PROCESSOR BASED (LSING) RELEASE HAVING OVER CURRENT, SHORT CIRCUIT, EARTH FAULT PROTECTION (ICS=ICU) FOR BUS COUPLER. EACH MCCB ABOVE SHALL BE PROVIDED WITH: i) 16 PARAMETER MULTIFUNCTION DIGITAL METER TO READ A, V, KVA, KW, KVAR, KVAH, Hz, P.F & THD ETC. THE MFM TO BE DULY EQUIPPED WITH RS-485 PORT ON BOTH THE INCOMER MCCBs. ii) OFF/ON/TRIP INDICATING LED LIGHTS WITH 2A SP MCB iii) 1 SET EXTENDED ROTARY OPERATING MECHANISM AND TERMINAL EXTENSION SPREADERS FOR ALL THE MCCBs. iv) 1-SET OF LED PHASE INDICATING LIGHTS R,Y,B WITH 2A SP MCB FOR PROTECTION. (B) BUS BARS 4 Nos 400 A ELECTROLYTIC ALUMINIUM BUS- BARS OF EQUAL CROSS-SECTION.				
	(C) ACCESSORIES FOR ELECTRICAL INTER-LOCKING i) ELECTRICAL INTERLOCKING ARRANGEMENT AS PER DRAWING APPROVED BY E-I-C & TECHNICAL SPECIFICATIONS AMONG 2 NOS. INCOMERS FROM MAIN LT PANEL & 1 NO. BUS COUPLER I/C INTERCONNECTIONS ETC. AS REQUIRED. (D) OUTGOINGS i) 08 Nos. MCCB, 200A, 35 kA, FOUR POLE WITH MICRO-PROCESSOR BASED (LSING) RELEASE HAVING OVER CURRENT, SHORT CIRCUIT, EARTH FAULT PROTECTION (ICS=ICU). EACH OUTGOING MCCB ABOVE SHALL BE PROVIDED WITH: i) 16 PARAMETER MULTIFUNCTION DIGITAL METER TO READ A, V, KVA, KW, KVAR, KVAH, Hz, P.F & THD ETC. THE MFM TO BE DULY EQUIPPED WITH RS-485 PORT. ii) OFF/ON/TRIP INDICATING LED LIGHTS WITH 2A SP MCB iii) 1 SET EXTENDED ROTARY OPERATING MECHANISM & TERMINAL EXTENSION SPREADERS FOR ALL THE MCCBs. iv) 1-SET OF LED PHASE INDICATING LIGHTS R,Y,B WITH 2A SP MCB FOR PROTECTION.	JOB	1	798000.00	798000.00

S. No.	DESCRIPTION OF WORK / ITEM(S)	UNIT	QTY.	RATE(Rs.) EXCL. GST	AMOUNT (Rs.)
39.00	EXECUTION OF ITEMS OF WORK AS PER REQUIREMENT OF SITE FROM THE CPWD SCHEDULE OF RATES (DSR E&M-2022) AS PER CPWD SPECIFICATION COMPLETE AS REQUIRED (TOTAL AMOUNT OF Rs.3,00,000/- (EXCL. GST) IS KEPT FOR DSR ITEMS 2022). NOTE:- BIDDER MAY REFER CLAUSE 32 OF E-NOTICE INVITING TENDER BEFORE QUOTING AGAINST THIS ITEM.	JOB	1	150000.00	150000.00

TOTAL AMOUNT EXCL. GST 3482605.00

SAY Rs. 3482605.00

(RUPEES THIRTY FOUR LAKH(S) EIGHTY TWO THOUSAND SIX HUNDRED FIVE ONLY EXCLUDING GST)


SR. MANAGER (ENGG-E)
AAI, RHQ-NR