



Ref. No.: AAC/NIPTB/Capital/Façade Lighting/2024-25/ 142

Dated: 21.08.2024

To

M/s Bajaj Electricals Limited,
13th Floor, DN18, Saltee Tech Park,
Sector V, Salt Lake, Bidhan Nagar,
Kolkata – 700091.

Ph: 91- 9560820610

Email: b271@bajajelectricals.com

कार्य का नाम : Design, Supply, Installation, Testing and Commissioning of Façade Lighting of New Integrated Terminal Building at NSCBI Airport, Kolkata..

संदर्भ / Ref. : Your e-bid (Financial) opened on 28.05.2024 (Open Tender ID: 2023_AAI_174782_1)

महोदय / Dear Sir(s),

- 1) ऊपर उल्लिखित कार्य हेतु आपका ई-टेंडर (निविदा क्रमांक: 2023_AAI_174782_1) के लिए, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकार किया जाता है, आपके द्वारा बताये गए मद मूल्य पर आपकी ई-टेंडर राशि रुपये 3,45,85,775.62 (जीएसटी को छोड़कर) (केवल तीन करोड़ पैंतालीस लाख पचासी हजार सात सौ पचहत्तर रुपए और बासठ पैसे) (जो SITC और 5 वर्ष AICMC के लिए है) के लिए स्वीकृत किया जाता है। जो टेंडर की अनुमानित लागत राशि रुपये 8,71,56,488.00 (जीएसटी को छोड़कर) से 60.32% कम है।

Your e-tender (tender Id.: 2023_AAI_174782_1) for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India at the item rates quoted by you totaling to Rs. 3,45,85,775.62 (Excluding GST) (Rupees Three Crore Forty-Five Lakh Eighty Five Thousand Seven Hundred Seventy Five and Sixty Two paisa only) (For SITC + 5 years AICMC works) which is 60.32% below the justified cost of Rs. 8,71,56,488.00 (Excluding GST) put to tender.

- 2) उप. महाप्रबंधक (अभि - वि), एन°एस°सी°बी°आई एयरपोर्ट, कोलकाता कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप आपकी ओर से एक विश्वासनीय प्रतिनिधि प्रतिनयुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह इस पत्र के 10 दिन के अंदर तक उप. महाप्रबंधक (अभि - वि), एन°एस°सी°बी°आई एयरपोर्ट, कोलकाता के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा रुपये 100.00 (केवल एक सौ रुपये) के नॉन ज्यूडीशियल स्टॉप पेपर पर निष्पादित किया जाएगा तथा करारनामा खर्च आपके द्वारा वहन की जाएगी।

Dy. General Manager (Engg. – Elect.), AAI, NSCBI Airport, Kolkata shall be Engineer in charge of the work. You are requested to attend the office of Dy. General Manager (Engg. – Elect.), AAI, NSCBI Airport, Kolkata within 10 days from the date of issue of this award letter to sign and complete the contract agreement. The contract agreement shall be executed on non-judicial stamp paper of Rs.100.00 (Rupees one hundred only) and cost of the stamp paper shall be borne by you.

Signature
sim(B-6)



- 3) आपसे अनुरोध है कि, एनआईटी खण्ड के अनुसार, कार्य आदेश जारी करने के 30 दिनों के भीतर अनुबंध राशि की एक अपरिवर्तनीय निष्पादन गारंटी प्रस्तुत करें, जिसका मूल्य एसआईटीसी कार्य के 5% (पाँच प्रतिशत) मूल्य की बराबर होगा। जिसकी वैधता, कार्य समाप्ति के बाद 2 वर्ष दोष दायित्व अवधि तक होनी चाहिए।

As per NIT clause, you are requested to submit an irrevocable performance guarantee @ 5% (Five percentage) of the SITC work value within 30 days of issue of work order, and shall be valid up to the stipulated date of completion plus defect liability period of 2 years.

- 4) आपसे यह भी अनुरोध है कि, एनआईटी क्लॉज के अनुसार, एक अपरिवर्तनीय बैंक गारंटी SDBG सुरक्षा जमा के रूप में जमा करें, जिसका मूल्य एसआईटीसी कार्य के 5% (पाँच प्रतिशत) मूल्य की बराबर होगा। जिसकी वैधता, कार्य पूर्णता की निर्धारित तिथि तथा दोष दायित्व अवधि की समाप्ति के पश्चात 02 वर्ष तथा 03 महीने की दोष दायित्व अवधि तक होनी चाहिए।

- 5) As per NIT clause, you are also requested to submit an irrevocable bank guarantee SDBG as security deposit @ 5% (five percentage) of the SITC work value within 30 days of issue of work order, and shall be valid up to the stipulated date of completion plus defect liability period of 02 years plus 03 months after the expiry of Defects Liability Period.

- 6) रुपये 30,78,159.00 (केवल तीस लाख अठहत्तर हजार एक सौ उनचास रुपये) मूल्य की गुणवत्ता सुरक्षा बैंक गारंटी, निबिदा दस्तावेज के सामान्य नियम और निर्देश के उपबंध संख्या 13 के अनुसार, आपके द्वारा जमा करा दी गयी है जो SITC और 5 वर्ष AICMC पूरा होने तक वैध होना चाहिए।

You have submitted QPBG (Quality Protection Bank Guarantee) amounting to Rs. **30,78,159.00 (Rupees Thirty Lakh Seventy Eight Thousand One Hundred Fifty Nine only)** as per clause No.13 of General Rules & Directions of contract document of NIT and which must be valid till completion of SITC & 5 years AICMC works.

- 7) आपसे अनुरोध है कि अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और अनुबंध श्रम (विनियमन और उन्मूलन) केंद्रीय नियमों 1971, बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिकों (रोजगार और सेवा की स्थिति का विनियमन) के प्रावधान का पालन करें। अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण उपकर अधिनियम 1996 जैसा कि केंद्र और राज्य सरकार के नियमों और नियमों के खंड में निर्दिष्ट है।

You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation & 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 welfare cess Act 1996 as specified in Clause of tender and rules of Central and State Government.



- 8) आपको निर्देश दिया जाता है कि आप वरिष्ठ प्रबंधक (अभि - बि) तथा सहायक प्रबंधक (अभि - बि) एन०एस०सी०बी०आई एयरपोर्ट कोलकाता - 52 पर मिले जो आपको साइट सौंपने की व्यवस्था करेगा।

You are also directed to contact Sr. Manager (Engg.-Elect.), & Asst. Mgr. (Engg-Elect) AAI, NSCBI Airport, Kolkata - 52, who will arrange to hand over the site to you.

- 9) कृपया ध्यान दें कि कार्य को करने के लिए अनुमत समय **90 महीने यानी (SITC के लिए 06 महीने, AICMC के लिए 60 महीने जो DLP के 02 साल बाद)** है जो कार्य आर्दश के जारी करने के दसवे दिन से गिना जायेगा।

Please note that the time allowed for carrying out the work shall be **90 Months i.e. (06 months for SITC, 60 months for AICMC after 02 years of DLP)** which shall be reckoned from the 10th day after issue of this letter of award of work.

- 10) कार्य की दोष दायित्व अवधि **SH:I (SITC) कार्य के लिए होगी - 24 महीने और SH:II - AICMC कार्य के लिए 06 महीने** जो कार्य सफलता पूर्वक कार्य समाप्ति के बाद की होगी।

The defect liability period of the work shall be for **SH:I (SITC) - work 24 months and for SH:II - AICMC work 06 months** from the date of successful completion of the work.

- 11) कृपया ध्यान दें SITC कार्य के अंतर्गत सभी फिटिंग्स / फिक्चर आदि की आपूर्ति से पहले ईआईसी से अनुमोदन प्राप्त किया जाना आवश्यक है।

Please note that all the fittings / fixture etc. under SITC job to be got approved by the EIC before supply.

- 12) कृपया ध्यान दें कि कार्य हेतु आवश्यक टर्मिनल बिल्डिंग के प्रवेश पास का खर्च आपको स्वयं वहन करना होगा तथा BCAS दिशानिर्देश के अनुसार कार्य शुरू होने से काफी पहले ही उसे संसाधित कर दिया जाएगा।

Please note that entry passes for Terminal Building as required for work will be borne by you and same shall be processed well in advance before commencement of work as per BCAS guideline.

- 13) ई-टेंडरिंग प्रक्रिया के दौरान उठाए गए सभी प्रश्न, स्पष्टीकरण आदि और जारी किए गए सभी शुद्धिपत्र सहित उनके उत्तर भी समझौते का हिस्सा होंगे।

All queries, clarifications etc. raised during e-tendering process and replies there of including all corrigendum issued shall also form part of the agreement.

- 14) कृपया पावती भेजे तथा इस पत्र की डुप्लिकेट प्रतिलिपि स्वीकृति के एक टोकन के रूप में अधिसूचना में हस्ताक्षर करने के बाद इस के साथ 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.

Signature
Smile



- 15) कृपया ध्यान दें कि अनुबंध के SITC भाग के पूरा होने पर दोष दायित्व अवधि के बाद 5 वर्ष की अवधि के लिए एक अलग अनुपूरक अनुबंध तैयार किया जाएगा। AICMC अनुपूरक समझौते के भाग के लिए स्टाम्प पेपर की मूल्य आपके द्वारा वहन की जाएगी। अन्य सभी नियम और शर्तें एनआईटी के अनुसार होंगी।

Please note that a separate supplementary agreement shall be drawn for a period of 5 years after Defect Liability Period on completion of SITC part of the agreement. The cost of the stamp paper for Part of AICMC supplementary agreement shall be borne by you. All other terms and conditions shall be as per NIT.

Thanking you,

Encl: Schedule of Work / Item rate BOQ.

भवदीय,

उप. महाप्रबंधक (अभि - वि.) - I
एन°एस°सी°बी°आई हवाई अड्डा कोलकाता
के लिए और अध्यक्ष°
भारतीय विमान पत्तन प्राधिकरण के तरफ से

प्रतिलिपि:

आन्तरिक-

1. महाप्रबंधक (अभि-वि) भा°वि°प्रा° एन°एस°सी°बी°आई हवाई अड्डा कोलकाता ।
2. महाप्रबंधक (विन्त) भा°वि°प्रा° एन°एस°सी°बी°आई हवाई अड्डा कोलकाता ।
3. सहायक महाप्रबंधक (अभि-वि) भा°वि°प्रा° एन°एस°सी°बी°आई हवाई अड्डा कोलकाता ।
4. प्रबंधक (अभि-वि) भा°वि°प्रा° एन°एस°सी°बी°आई हवाई अड्डा कोलकाता ।
5. संबन्धित फाईल ।
6. अनुबंध ।

वाहय-

- 1) Income Tax Commissioner, P-7, Chowringhee Square, Kol-69.
- 2) Regional Labour Commissioner, 234/4, A.J.C. Bose Road, Kol-20.
- 3) Dy. Commissioner, Commercial Taxes, Salt Lake Charge, DF Block, Sector – 1, Salt Lake City, Kolkata-91.
- 4) Regional Provident Fund Commissioner, DK Block, Sector – 2, Salt Lake City, Kolkata-91
- 5) Chief Commissioner of Central Excise, Service Tax Division-II, Central Excise Bhawan, 2nd Floor, 180, Shantipalli, Raj Danga Main Road, Kol-107.

मोक्षमोदे

उप. महाप्रबंधक (अभि - वि.) - I
एन°एस°सी°बी°आई हवाई अड्डा कोलकाता
के लिए और अध्यक्ष°
भारतीय विमान पत्तन प्राधिकरण के तरफ से

Item Rate BoQ

Validate Print Help

Tender Inviting Authority: Airports Authority of India

Name of Work:-Design, Supply, Installation, Testing and Commissioning of Façade lighting of New Integrated Terminal Building at NSCB Airport, Kolkata.

Contract No: AAI, NSCB Airport, Kolkata.

Name of the Bidder/ Bidding Firm / Company : Bajaj Electricals Ltd.

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 #	NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words	TEXT #	
1	SH: I - SITC WORKS Supply, Installation, Testing & Commissioning of following Luminaries: Supply Installation testing & commissioning of 300W to 350W RGBW surface mounted Narrow to Medium beam luminaire suitable for outdoor applications of Façade Lighting as per AAI requirement. Luminaire luminous flux range shall be more than 12000 lm, CRI of 80 (for only white colour), overall surge protection of $\geq 10kV$ & IP ≥ 66 . Luminaire should be provided with suitable power supply unit and controllable on DMX protocol. High pressure die cast aluminium alloy housing with adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements including LED drivers, decoders, anchor fasteners, ingress protected cable connectors, mounting arrangements, etc. as complete as required. LOCATION : NIPTB T2 Terminal Building Departure Canopy Roof & side edge of the terminal building - Working height 5m.	4 84	5 Each	12 INR	13 53,283.00	53 44,75,772.00	55 INR Forty Four Lakh Seventy Five Thousand Seven Hundred & Seventy Two Only		
2	Supply, Testing, Installation & Commissioning of 1 meter length 24W to 30W RGBW surface mounted Wide - Elliptical beam linear continuous luminaire, suitable for outdoor applications of Façade Lighting as per AAI requirement. Luminaire luminous flux range shall be more than 960 lm, CRI of 80 (for only white colour), overall surge protection of $\geq 10kV$ & IP ≥ 66 . Luminaire should be provided with suitable power supply unit and integral part of DMX protocol & the same is controllable. Housing should have suitable mounting arrangements with complete accessories, so that the light direction can be adjusted to illuminate desired structural elements including LED drivers, decoders, anchor fasteners, ingress protected cable connectors, mounting channels, etc. as complete as required. The erection & fabrication of GI mounting supporting structure & clamping arrangements set with SS nut & bolts at the top roof of terminal building to be considered abiding all AAI measures of safety mentioned in ANNEXURE-II. LOCATION : NIPTB T2 Terminal Building Roof Top - Working height 30m from Departure floor level.	500	Each	INR	9,378.00	46,89,000.00	INR Forty Six Lakh Eighty Nine Thousand Only		

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NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words	TEXT #	
1	2	4	5	12	13	53	55		
3	Supply, Testing, Installation & Commissioning of 1 meter length 24W to 30W RGBW surface mounted Wide - Elliptical beam linear continuous luminaire, suitable for outdoor applications of Facade Lighting as per AAI requirement. Luminaire luminous flux range shall be more than 960 lm, CRI of 80 (for only white colour), overall surge protection of ≥ 10kV & IP ≥ 66. Luminaire should be provided with suitable power supply unit and integral part of DMX protocol & the same is controllable. Housing should have suitable mounting arrangements in existing structure with complete accessories, so that the light direction can be adjusted to illuminate desired structural elements including LED drivers, decoders, anchor fastners, ingress protected cable connectors, mounting channels, etc. as complete as required.	750	Each	INR	7,035.00	52,76,250.00	INR Fifty Two Lakh Seventy Six Thousand Two Hundred & Fifty Only		
4	LOCATION : NIPTB T2 Terminal Building departure glass canopy - Working height 5m from Departure level. Supply, Testing, Installation & Commissioning of static warm white 9W to 12W (3000K) surface mounted Medium / Wide beam cylindrical down projector luminaire suitable for outdoor applications of Facade Lighting. Luminaire luminous efficacy ≥ 70 lm/w, CRI of 80 (for only white colour), overall surge protection of ≥ 10kV & IP ≥ 66. The luminaire should have powder coating pressure die cast aluminium housing with minimum 3-4mm thick safety glass. Luminaire shall have suitable power supply unit and mounting accessories as complete as required so that the light direction can be adjusted to illuminate desired structural elements including LED drivers, decoders, anchor fastners, power connectors etc.	110	Each	INR	4,110.00	4,52,100.00	INR Four Lakh Fifty Two Thousand One Hundred Only		
5	LOCATION : NIPTB T2 Terminal Building Departure Canopy Pillar - Working height 3m. Supply, Testing, Installation & Commissioning of 50W to 55W RGBW surface mounted Round/square projector luminaire with Narrow / Medium / Wide beam or Round/square projector luminaire with Beam Angle 10/15/30/45/60 deg, suitable for outdoor applications of Facade Lighting as per AAI requirement. Luminaire luminous flux range shall be more than 2000 lm, CRI of 80 (for only white colour), overall surge protection of ≥ 10kV & IP ≥ 66. Luminaire should be provided with suitable power supply unit and DMX Decoder integral part of DMX protocol & the same is controllable. High pressure die cast aluminium alloy housing with adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements including LED drivers, decoders, anchor fastners, ingress protected cable connectors, mounting arrangements, etc. as complete as required.	360	Each	INR	12,610.00	45,39,600.00	INR Forty Five Lakh Thirty Nine Thousand Six Hundred Only		
6	LOCATION : NIPTB T2 Terminal Building Arrival Pillar - Working height 10m. Supply, Testing, Installation & Commissioning of static warm white 100W to 120W (2700K / 3000K) warm surface mounted Medium / Wide beam round/square projector luminaire suitable for outdoor applications of Facade Lighting as per AAI requirement. Luminaire efficacy shall be more than 100 lm/W, overall surge protection of ≥ 10kV & IP ≥ 66. Luminaire should be provided with suitable power supply unit. High pressure die cast aluminium alloy housing with adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements including LED drivers, decoders, anchor fastners, ingress protected cable connectors, mounting arrangements, etc. as complete as required.	24	Each	INR	20,949.00	5,02,776.00	INR Five Lakh Two Thousand Seven Hundred & Seventy Six Only		
	LOCATION : NIPTB T2 Garden area Netaji, national flag & MIG - Working at ground level.								

Signature
5/11/24

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words	TEXT #					
1	2	4	5	12	13	53	55						
7	Lighting Panel: Supply, installation, testing & commissioning of 3 Phase, 415V wall mounted, single door Lighting panel with lockable arrangement made from polycarbonate material, 1 no. earth stud on each side face, LED indicating lamps for incomer, copper bus bars and having following: Incomer: 63A 4P MCCB (25kA) - 1no., respective rating 4P 63A contactor -1no., SPD: 40 kV -1 no. Digital Time Switch having following facilities: Precise time programming for - Daily / Weekly, Pulse switching, Simple Reset feature, Weekend programming, Red LED for relay ON Indication, 24 Hr display (Military), Manual Override. Supply Voltage & Frequency: 110 - 240 VAC, +10% / -20 %, 50 / 60 Hz; Memory Locations: 8 On / Off operations, 16 memory locations; Minimum Switching Time: 1 min; Housing: Flame Retardant UL94V0 Outgoing: 10A 3P 'C' Curve MCB (10kA) - 9 nos.	2	Each	INR	1,17,999.00	2,35,998.00	INR Two Lakh Thirty Five Thousand Nine Hundred & Ninety Eight Only						
8	Supply, Installation testing & commissioning of 3 Phase, 415V Lighting panel, outdoor type with canopy, free standing, double door with lockable arrangement made from polycarbonate material, 1 no. earth stud on each side face, LED indicating lamps for incomer, copper bus bars and having following: Incomer: 63A 4P MCCB (25kA) - 1no., respective rating 4P 63A contactor -1no., SPD: 40 kV -1 no. Digital Time Switch having following facilities: Precise time programming for - Daily / Weekly, Pulse switching, Simple Reset feature, Weekend programming, Red LED for relay ON Indication, 24 Hr display (Military), Manual Override. Supply Voltage & Frequency: 110 - 240 VAC, +10% / -20 %, 50 / 60 Hz; Memory Locations: 8 On / Off operations, 16 memory locations; Minimum Switching Time: 1 min; Housing: Flame Retardant UL94V0 Outgoing: 10A 3P MCB (10kA) - 4 nos.	2	Each	INR	1,43,704.00	2,87,408.00	INR Two Lakh Eighty Seven Thousand Four Hundred & Eight Only						
9	Supply, Installation testing & commissioning of 3 Phase, 415V Lighting panel, outdoor type with canopy, free standing, double door with lockable arrangement made from polycarbonate material, 1 no. earth stud on each side face, LED indicating lamps for incomer, copper bus bars and having following: Incomer: 63A 4P MCCB (25kA) - 1no., respective rating 4P 63A contactor -1no., SPD: 40 kV -1 no. Digital Time Switch having following facilities: Precise time programming for - Daily / Weekly, Pulse switching, Simple Reset feature, Weekend programming, Red LED for relay ON Indication, 24 Hr display (Military), Manual Override. Supply Voltage & Frequency: 110 - 240 VAC, +10% / -20 %, 50 / 60 Hz; Memory Locations: 8 On / Off operations, 16 memory locations; Minimum Switching Time: 1 min; Housing: Flame Retardant UL94V0 Outgoing: 32A 3P 'C' Curve MCB (10kA) - 2 no. Outgoing: 10A 3P 'C' Curve MCB (10kA) - 4 nos.	2	Each	INR	1,46,685.00	2,93,370.00	INR Two Lakh Ninety Three Thousand Three Hundred & Seventy Only						
10	Earthing Materials: 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	INR	26,511.00	1,06,044.00	INR One Lakh Six Thousand & Forty Four Only						
11	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	240	Meter	INR	43.00	10,320.00	INR Ten Thousand Three Hundred & Twenty Only						
12	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. (Joining shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	240	Meter	INR	116.00	27,840.00	INR Twenty Seven Thousand Eight Hundred & Forty Only						
13	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required	6100	Meter	INR	30.00	1,83,000.00	INR One Lakh Eighty Three Thousand Only						

Sanjay Singh

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1	2	4	5	12	13	53	55				
14	CONTROLLERS- Supply, Installation, Testing and Commissioning of following DMX CONTROL SYSTEM: Supply, Installation, Testing and Commissioning of DMX Controller System with Standalone interfaces. Controller should deliver 3072 DMX channels. The controller should have new Nicolaudio Stand Alone engine (NSA) offering some great possibilities (multi-zone, extended triggers, 16-bit channels management). The controller should offer multiple possibilities to trigger your lighting scenes: time / date, input ports, TCP/UDP commands. The controller should have LS Cloud (Future activation required) as an optional feature to manage lighting controller from anywhere in the world, at any time using internet connectivity. PC DMX Should have IN triggers, Standalone DMX IN triggers with 512 interfaces, x8 nos, dry (5V) External trigger contacts, Internal calendar, internal clock with power backup of 3 weeks, 4GB minimum micro SD Memory card, input power voltage: 8-15V DC with power adapter via USB (USB power supply included). Trigger lighting scenes using calendar triggers and conditional rules with New Stand-Alone engine, contact ports, RS232 or over Ethernet. Provision of Stand Alone mode with 2000 scenes across 20 zones & Buttons with rotary switch for scene selection. iPhone/iPad/Android remote and programming apps. Temperature: 0 to +50 C°. DMX Compatibility: 8- and 16-bit DMX fixtures, System Compatibility: Windows 10, 11, MAC OS X (10.6 and +), Linux."	1	Each	INR	3,46,906.00	3,46,906.00	INR Three Lakh Forty Six Thousand Nine Hundred & Six Only				
15	Supply, Installation, commissioning, and Testing of 22 AWG DMX cable of single pair stranded (7x30) tinned copper conductors having Datalene (FHDPE) insulation, twisted pairs, overall Beldfoil shield (100% coverage) with tinned copper braid & PVC jacket Cable in PVC conduit alongwith Water proof (IP 66 rating) 3 pin DMX Connector set of flame resistance / anti - UV nylon shell material for connecting DMX cables as complete as required.	9200	Meter	INR	157.00	14,44,400.00	INR Fourteen Lakh Forty Four Thousand Four Hundred Only				
16	Supply, installation, Testing and commissioning of Splitter, is a 6-output DMX splitter with capacity of DMX signal boosting. This unit takes the incoming DMX signal and splits the signal into six separate output channels allowing for expanding the number of connecting devices upto 6 x 32 nos. (32 nos/out put). The output terminals are optically isolated from the input and share a common ground reference. All six output ports have an independent output driver and ELV transformer to boost the DMX signal with enclosure (Protection Rating ≥ IP 66) Box for splitter including Water proof 3 pin DMX Connector (IP 66 rating) set of flame resistance / anti - UV nylon shell material for connecting DMX cables as complete as required.	9	Each	INR	52,808.00	4,75,272.00	INR Four Lakh Seventy Five Thousand Two Hundred & Seventy Two Only				
17	Supply, installation, Testing and commissioning of Splitter, is a 6 output DMX splitter with capacity of DMX signal boosting. This unit takes the incoming DMX signal and splits the signal into six separate output channels allowing for expanding the number of connecting devices upto 6 x 32 nos. (32 nos/out put). The output terminals are optically isolated from the input and share a common ground reference. All two output ports have an independent output driver and ELV transformer to boost the DMX signal with enclosure (Protection Rating ≥ IP 66) Box including Water proof 3 pin DMX Connector (IP 66 rating) set of flame resistance / anti - UV nylon shell material for connecting DMX cables as complete as required.	9	Each	INR	52,808.00	4,75,272.00	INR Four Lakh Seventy Five Thousand Two Hundred & Seventy Two Only				
18	Supply, installation, Testing and commissioning of Signal Amplifier, Should be specially design for signal shaping & amplification of DMX Master controller's signal which attenuated after a long-distance transmission, realizing extending the signal transmission distance. DMX Signal amplifier shall increase & distribute multi-channel control. Amplifier shall have optical isolation between input and output terminal, & the same can operate on 220V AC/24V DC. Working temperature shall be (-10 to 50 Deg Cel). Protection Rating ≥ IP 66 with enclosure (≥ IP 66, ≥ IK 08) Box including Water proof (≥ IP 66 rating) 3 pin DMX Connector set of flame resistance / anti - UV nylon shell material for connecting DMX cables as complete as required.	6	Each	INR	6,799.00	40,794.00	INR Forty Thousand Seven Hundred & Ninety Four Only				

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19	Programming charges to complete the Installation, testing and commissioning of complete Façade lighting System as per the simulation decided by AAI as & when required till upto completion of DLP and AMC period with full satisfaction of EIC.	1	Job	INR	1,58,108.00	1,58,108.00	INR One Lakh Fifty Eight Thousand One Hundred & Eight Only					
20	Supply of new laptop with specification min. RAM 16GB, min. 512GB SSD, min. intel i5/Ryzen 5 processor, screen size 15.6", Charger unit, pre loaded original operating windows professional software, MS office professional, screen resolution 1920 x 1080 pixel light weight including essential laptop Backpack. Laptop shall be suitable for connecting with DMX controller system & necessary DMX programming software platform to run the entire façade light. make: DELL / HP / IBM / LENOVO.	1	Each	INR	64,824.00	64,824.00	INR Sixty Four Thousand Eight Hundred & Twenty Four Only					
21	LT Cables: Supplying and Laying of one number PVC / XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade of following size in the existing RCC/ HUMIE/METAL pipe as required.											
21.01	(a) 4C x 10 sq. mm armoured Copper conductor cable	200	Meter	INR	1,033.00	2,06,600.00	INR Two Lakh Six Thousand Six Hundred Only					
21.02	(b) 3.5C x 70 sq. mm armoured Aluminium conductor cable	100	Meter	INR	331.00	33,100.00	INR Thirty Three Thousand One Hundred Only					
22	Supplying and Laying of one number PVC / XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade of following size on wall surface as required.											
22.01	(a) 4C x 10 sq. mm armoured Copper conductor cable (clamped with 1mm thick saddle)	2200	Meter	INR	661.00	14,54,200.00	INR Fourteen Lakh Fifty Four Thousand Two Hundred Only					
22.02	(b) 3.5C x 50 sq. mm armoured Aluminium conductor cable (clamped with 25x3mm MS flat clamp)	100	Meter	INR	696.00	69,600.00	INR Sixty Nine Thousand Six Hundred Only					
22.03	(c) 3.5C x 70 sq. mm armoured Aluminium conductor cable (clamped with 25x3mm MS flat clamp)	300	Meter	INR	578.00	1,73,400.00	INR One Lakh Seventy Three Thousand Four Hundred Only					
23	Supplying and Laying of one number PVC / XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade of following size on cable tray as required.											
23.01	(a) 4C x 10 sq. mm armoured Copper conductor cable (clamped with 1mm thick saddle)	300	Meter	INR	440.00	1,32,000.00	INR One Lakh Thirty Two Thousand Only					
23.02	(b) 3.5C x 50 sq. mm armoured Aluminium conductor cable (clamped with 25x3mm MS flat clamp)	100	Meter	INR	257.00	25,700.00	INR Twenty Five Thousand Seven Hundred Only					
23.03	(c) 3.5C x 70 sq. mm armoured Aluminium conductor cable (clamped with 25x3mm MS flat clamp)	1000	Meter	INR	342.00	3,42,000.00	INR Three Lakh Forty Two Thousand Only					
24	Supplying and Laying of one number PVC / XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade of following size in the existing G.I. trunking with necessary accessories as complete as required.											
24.01	(a) 4C x 10 sq. mm armoured Copper conductor cable	2200	Meter	INR	466.00	10,25,200.00	INR Ten Lakh Twenty Five Thousand Two Hundred Only					
24.02	(b) 4C x 16 sq. mm armoured Aluminium conductor cable	600	Meter	INR	102.00	61,200.00	INR Sixty One Thousand Two Hundred Only					
25	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi core cable in surface / recessed with PVC solid conduit as required.											
25.01	(a) 3C x 1.5 sq. mm	2250	Meter	INR	102.00	2,29,500.00	INR Two Lakh Twenty Nine Thousand Five Hundred Only					
25.02	(b) 3C x 2.5 sq. mm	200	Meter	INR	136.00	27,200.00	INR Twenty Seven Thousand Two Hundred Only					

20/05/2024

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1	2	4	5	12	13	53	55						
26	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi core cable in surface / recessed with GI flexible conduit with PVC coating as required.												
26.01	(a) 3C x 1.5 sq. mm	2300	Meter	INR	180.00	4,14,000.00	INR Four Lakh Fourteen Thousand Only						
27	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi core cable in surface / recessed with PVC flexible conduit as required.												
27.01	(a) 3C x 1.5 sq. mm	1660	Meter	INR	91.00	1,51,060.00	INR One Lakh Fifty One Thousand & Sixty Only						
27.02	(b) 3C x 2.5 sq. mm	200	Meter	INR	125.00	25,000.00	INR Twenty Five Thousand Only						
28	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi core cable in surface / recessed in the existing G.I. trunking with necessary accessories as complete as required.												
28.01	(a) 3C x 1.5 sq. mm	850	Meter	INR	83.00	70,550.00	INR Seventy Thousand Five Hundred & Fifty Only						
28.02	(b) 3C x 2.5 sq. mm	500	Meter	INR	506.00	2,53,000.00	INR Two Lakh Fifty Three Thousand Only						
29	Supply & termination of following sizes of cables using polyamide glands & Aluminium/ copper lugs: 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.												
29.01	(a) 3½ X 50 sq. mm (35mm)	4	Each	INR	3,162.00	12,648.00	INR Twelve Thousand Six Hundred & Forty Eight Only						
29.02	(b) 3½ X 70 sq. mm (38mm)	8	Each	INR	1,050.00	8,400.00	INR Eight Thousand Four Hundred Only						
30	Supply & installation of Other Miscellaneous Items. Providing, laying and fixing of 100 mm dia G.I. pipe (medium class) in ground including making suitable trench by cutting of road / drain / pavement, concrete etc. with necessary G.I. fittings, accessories and re-filling etc. as complete as required.	80	Meter	INR	525.00	42,000.00	INR Forty Two Thousand Only						
31	Supply, fixing, Testing & Commissioning of 7 mtrs. High octagonal Aluminium pole with bracket suitable for mounting of luminaires for MIG aircraft including excavation, civil foundation & electrical connection etc. as complete as required.	4	Each	INR	24,453.00	97,812.00	INR Ninety Seven Thousand Eight Hundred & Twelve Only						
32	Providing & installing of GI Hot dipped galvanized Maxi trunking of size 75 x 50 mm for laying of cable with necessary fixing arrangements as complete as required.	1550	Meter	INR	116.00	1,79,800.00	INR One Lakh Seventy Nine Thousand Eight Hundred Only						
33	Supply, Installation, Testing and Commissioning of one Polycarbonate weatherproof junction box suitable for outdoor installation with ingress protection 65 or above, with knockouts for cable entry and exit of following sizes with stud type terminal suitable for terminating XLPE insulated armoured aluminium cables in & out and along with 1 no. breather, gland socket etc. with necessary accessories as complete as required.												
33.01	(a) 155 x 210 x 92 mm	240	Each	INR	1,553.00	3,72,720.00	INR Three Lakh Seventy Two Thousand Seven Hundred & Twenty Only						
33.02	(b) 225 x 295 x 122 mm	100	Each	INR	2,118.00	2,11,800.00	INR Two Lakh Eleven Thousand Eight Hundred Only						

Good work smile

