



Amended Work Order

AAI/TUT/E-E/TUT-86/2023-24/ 765

दि:/Date 13.06.2023

सेवा में / To

M/s. Bajaj Electricals Limited,
No.103 A, 8th Floor, A Block,
Navins Presidium,
Nelson Manikkam Road,
Chennai – 600 029.

विषय /Sub: "Provision of Perimeter Lighting at Tuticorin Airport."

**Ref: 1]Your e-tender (Tender ID : 2023_AAI_146971_1) opened
on 18.04.2023.**

2]BEL/AAI/TUT/002 Dtd:10.06.2023

महोदय / Dear Sir(s),

- 1) Your e-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totalling to **Rs. 3,77,38,917.00 (Rupees Three Crore Seventy Seven Lakh Thirty Eight Thousand Nine Hundred and seventeen Only)** plus applicable GST which is 22.91% below the justified cost of Rs.4,89,55,414.00. (Excluding GST).
- 2) Jt. General Manager (Engg-Elect.), Airports Authority of India, Tuticorin Airport, Tuticorin – 628 103, shall be the Engineer-in-charge of the work. You are requested to attend the Office of Jt. General Manager (Engg-Elect.), AAI, Tuticorin Airport by **07.06.2023** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100.00 (Rupees One Hundred Only) and cost of the stamp paper shall be borne by you.
- 3) Please deposit Rs.37,73,891.00 (Rupees Thirty Seven Lakh Seventy Three Thousand Eight Hundred and Ninety One Only) towards security deposit within 10 days from the date of issue of this letter failing which, the same will be deducted as per condition of Clause No.1A at Page No.16 of GCC 2017 contract document.

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विमानपत्तन निदेशक का कार्यालय भारतीय विमानपत्तन प्राधिकरण, तूत्तिकोरिन हवाई अड्डा,
तूत्तिकोरिन-628103

O/o The Airport Director, Airports Authority of India, Tuticorin Airport, Tuticorin – 628103
दूरभाष/Tel: 0461-2271863 फैक्स/FAX:0461-2271110 ई-मेल/E-mail: apd-tuticorin@aai.aero
वैबसाइट/Website: www.aai.aero



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- 4) You are requested to comply with the provisions of Contract Labour (Regulation and abolition) Act of 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971, Child Labour (Prohibition and Regulation) and 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 No.19 on Page No.50 of GCC of tender and rules of Central and State Governments.
- 5) You are also directed to contact Jt. General Manager (Engg-Elect), AAI, Tuticorin Airport, immediately who will arrange to hand over the site to you.
- 6) Please note that the time allowed for carrying out the work shall be **06 Months** and the same shall be reckoned from 10.06.2023.
- 7) Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.
- 8) Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.
- 9) This work order is allotted the number **TUT-86** which shall be quoted by you for all future correspondence in connection with this work order.

Encl: Schedule of Quantities

भवदिय / Yours faithfully,

Handwritten signature and date 13/6/23

**Jt. General Manager (Engg-Elect.),
For and on behalf of the Chairman,
Airports Authority of India.**

विमानपत्तन निदेशक का कार्यालय भारतीय विमानपत्तन प्राधिकरण, तूत्तिकोरिन हवाई अड्डा,
तूत्तिकोरिन-628103

O/o The Airport Director, Airports Authority of India, Tuticorin Airport, Tuticorin – 628103
दूरभाष/TEL: 0461-2271863 फैक्स/FAX: 0461-2271110 ई-मेल/E-mail: apd-tuticorin@aai.aero
वेबसाइट/Website: www.aai.aero



INTERNAL

1. The Airport Director, AAI, Tuticorin Airport
2. Dy.General Manager (E-Civil), AAI, Tuticorin Airport
3. Dy.General Manager (E-E), AAI, Tuticorin Airport
4. Asst.Manager (E-E), AAI,Tuticorin Airport
5. Agreement
6. Office copy

EXTERNAL

7. The General Manager (Engg.), AAI, Southern Region, Chennai Airport.
8. The General Manager (Engg-Elect.), AAI, Chennai Airport.
9. The Jt. General Manager (Vigilance), AAI, Southern Region, Chennai Airport.
10. The Jt. General Manager (F&A), AAI, Southern Region, Chennai Airport – FC accorded vide Note No.96 on 23.05.2023 through e-file no. AAI/TUT/ENGG(E)/TUT-86/2021-22.
11. Labour Enforcement Officer, Extension Port – Zone "B" South Beach Road Opp. Asst. Commisioner of Custom office, Tuticorin – 628 001.

Handwritten signature and date 13/6/23

Jt. General Manager (Engg-Elect.),
For and on behalf of the Chairman,
Airports Authority of India.



AIRPORTS AUTHORITY OF INDIA
TUTICORIN AIRPORT::TUTICORIN-628103

Schedule of Quantities

Name of work: Provision of Perimeter Lighting at Tuticorin Airport.

S. No.	Description	Qty	Unit	Rate	Amount
	SH-I : SUPPLY OF CABLES				
1	Supply of following size of XLPE insulated PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade conforming to IS-7098 Part-I amended upto date etc. complete as required.				
	a) 3.5 core x 400 mm ²	3,500	Metre	1,574.00	5,509,000.00
	b) 3.5 core x 240 mm ²	4,260	Metre	1,007.00	4,289,820.00
	c) 3.5 core x 95 mm ²	3,580	Metre	422.00	1,510,760.00
	d) 4 core x 10 mm ²	18,900	Metre	111.00	2,097,900.00
	Total of SH-I				13,407,480.00
	SH-II : SUPPLY OF LED LIGHT FIXTURE				
2	Supply of LED Flood Light Luminaire having minimum 3300 lumens with minimum efficacy of 110 lumen/Watt, CCT 5700K and made of pressure diecast aluminium housing body, front glass, IP 66 suitable for operation at 230 V +/- 10%, Single phase AC supply complete etc. as required. Model: JETA QUANTO Make: HAVELLS or its equivalent model.	650	Each	1,100.00	715,000.00
	Total of SH-II				715,000.00
	SH-III : ITC WORK				
3	Supply, Installation, Testing and Commissioning of LT Outdoor Type Main Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer Shell (width not less than 450 mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing suitable for operation at 433 V, 3 Phase, 4 Wire, 50 Hz, AC System with One Set of 400 Amps Al. Bus Bars with at Par Neutral Bus Bar as required complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel and locking arrangements including excavation for foundation, providing foundation of suitable RCC pedestal up to 900 mm (600 mm BGL and 300 mm AGL), fixing of panel etc. complete as required and comprising of the following:				
	a) Two Nos. of 250 A, 50 KA, 4P MCCB with Microprocessor Based Releases (L&T with MTX 2.0 / Equivalent) for OC/SC/EF Protection and ROM as INCOMER with Castle key interlocking arrangement, resin cast C.T. operated Digital Meter (EM 6400 of Conserve/Equivalent), ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	b) Two Nos. of 250 A, 25 KA, 4P MCCB with TM Releases for OC/SC Protection and ROM as Outgoings with ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	c) Three Nos. of 100 A, 36 KA, 4P MCCB with TM Releases for OC/SC Protection and ROM as Outgoings with ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	d) Two Nos. of 63 A, 25 KA, 4P MCCB with TM Releases for OC/SC Protection and ROM as Outgoings each having 4P Contactor of 40 Amps rating and 24 Hours Digital Timer for Automatic Control of Perimeter Lighting, ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	e) All accessories such as fuses, auxillary contactors, auxillary switches etc. as required.				
	(a) to (e) above - 1 Job	4	Job	472,153.00	1,888,612.00

Handwritten signature

S. No.	Description	Qty	Unit	Rate	Amount
4	Supply, Installation, Testing and Commissioning of LT Outdoor Type Sub Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer Shell (width not less than 400 mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing suitable for operation at 433 V, 3 Phase, 4 Wire, 50 Hz AC System with one Set of 200 Amps Al. Bus Bars with at Par Neutral Bus Bars as required. complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel and locking arrangements including excavation for foundation, providing foundation of suitable RCC pedestal up to 750 mm (500 mm BGL and 250 mm AGL), fixing of panel etc. complete as required and comprising of the following:				
	a) One No. of 100 A, 36 KA, 4P MCCB with TM Releases for OC/SC Protection and ROM as INCOMER with resin cast C.T. operated Digital VAF Meter (EM 6459 of Conserve/Equivalent), ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	b) Two Nos of 63 A, 25 KA, 4P MCCB with TM Releases for OC/SC Protection and ROM as Outgoings each having 4P Contactor of 40 Amps rating and 24 Hours Digital Timer for Automatic Control of Perimeter Lighting, ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	c) Two Nos of 40 A, 25 KA, 4P MCCB with TM Releases for OC/SC Protection and ROM as Outgoings ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required.				
	d) All accessories such as fuses, auxillary contactors, auxillary switches etc. as required.				
	(a) to (d) above - 1 Job	4	Jobs	297,294.00	1,189,176.00
5	Fabrication and Supply of tubular swaged pole consisting of one section with 5.4 mm thick & 114.3 mm outer dia MS pole for 1 Mtr length with door and lock provision, providing and fixing 1 No. 5-32 Amps 'C' Series DP MCB and 63A 4 way connector inside the door, 16mm thick base plate of dimension 250mm x 250mm, 4 Nos of 12mm dia 500 mm long GI foundation bolts and nuts, Bottom Section welded with Top section of tubular swaged pole of 4.85 mm thick & 88.9 mm outer dia for length upto 1.0 Mtr welded with MS C channel of suitable size for mounting LED fixture, providing mounting arrangement for LED fixture and painted with one coat of zinc chromate primer and two coats of polyurethane paint of approved colour complete as required.	575	Jobs	7,095.00	4,079,625.00
6	ITC of 2m height tubular swaged pole with base plate after providing RCC foundation of size 500 mm x 500 mm & 450 mm depth below ground level and 300 mm height above ground level with cement concrete ratio 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) after PCC base of size 600 mm x 600 mm & 150 mm depth with cement concrete ratio 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) including excavation, shuttering, positioning template and fixing foundation bolts and nuts as supplied i/c securing with holding clamps, providing and fixing 2 Nos. of PE 63 PN 6 40mm OD HDPE Pipe of required length in foundation for loop in loop out cable, refilling, levelling surface, installation of LED light fixture, supply and laying of copper cable of size 3 x 1.5 mm ² of required length from MCB to LED light fixture mounted at the top including the numbering of poles using sticker etc. complete as required and as per instructions of Engineer-In-Charge.	575	Jobs	5,504.00	3,164,800.00
7	Supply and Installation of Thermo plastic polycarbonate Junction box complying IP54 protection of minimum size 680mm x 1035mm x 400mm with 4 Nos 50mm x 10mm copper bus bar to terminate 3.5 x 400 mm ² Aluminium conductor cable with suitable gland and mounting frame mounted on pedestal complete etc. at a minimum height of 1m above ground level on 2 Nos of MS L angle for both vertical support and flat wall mount support of size 60mm x 60mm x 6mm on a concrete pedestal of size 300mm x 300mm x 600mm (Depth) with CC ratio of 1:2:4 etc. as required.	6	Jobs	93,161.00	558,966.00
8	Supply and Installation of Thermo plastic polycarbonate Junction box complying IP54 protection of minimum size 680mm x 1035mm x 400mm with 4 Nos 50mm x 10mm copper bus bar to terminate 3.5 x 240 mm ² Aluminium conductor cable with suitable gland and mounting frame mounted on pedestal complete etc. at a minimum height of 1m above ground level on 2 Nos of MS L angle for both vertical support and flat wall mount support of size 60mm x 60mm x 6mm on a concrete pedestal of size 300mm x 300mm x 600mm (Depth) with CC ratio of 1:2:4 etc. as required.	7	Jobs	93,161.00	652,127.00

H-J-N

S. No.	Description	Qty	Unit	Rate	Amount
9	Supply and Installation of Thermo plastic polycarbonate Junction box complying IP65 & IK10 protection of minimum size 380mm x 658mm x 232mm with 30mm x 10mm copper bus bar to terminate 3.5 x 95 mm ² Aluminium conductor cable with suitable gland and mounting frame mounted on pedestal complete etc. at a minimum height of 1m above ground level on 2 Nos of MS L angle for both vertical support and flat wall mount support of size 60mm x 60mm x 6mm on a concrete pedestal of size 300mm x 300mm x 600mm (Depth) with CC ratio of 1:2:4 etc. as required.	2	Jobs	93,161.00	186,322.00
10	Supply and laying of 150 mm dia 'B' Class GI Pipe in concrete/bitumen for cable crossing/laying by cutting the bitumen/concrete of suitable size to a depth of minimum 200mm for laying the pipe, threading, cutting, jointing of pipe & filling the gaps with bitumen mix/concrete and making good the surface matching with original finish etc. as required and as per the instruction of Engineer-in-charge.	50	Metre	1,920.00	96,000.00
11	Supplying and laying of HDPE pipe of 125 mm OD ISI marked of PE 80 PN6 grade conforming to IS 4984 along with all accessories like socket, bend etc. complete with fitting and cutting, jointing etc. direct in ground at a depth of 0.80 m below the ground level i/c excavation and refilling the trench but excluding sand cushioning and protective covering etc. as required.	3,150	Metre	590.00	1,858,500.00
12	Supplying and laying of HDPE pipe of 110 mm OD ISI marked of PE 80 PN6 grade conforming to IS 4984 along with all accessories like socket, bend etc. complete with fitting and cutting, jointing etc. direct in ground at a depth of 0.80 m below the ground level i/c excavation and refilling the trench but excluding sand cushioning and protective covering etc. as required.	3,900	Metre	488.00	1,903,200.00
13	Supplying and laying of HDPE pipe of 63 mm OD ISI marked of PE 80 PN6 grade conforming to IS 4984 along with all accessories like socket, bend etc. complete with fitting and cutting, jointing etc. direct in ground at a depth of 0.80m below the ground level i/c excavation and refilling the trench but excluding sand cushioning and protective covering etc. as required.	3,000	Metre	234.00	702,000.00
14	Supplying and laying of HDPE pipe of 40 mm OD ISI marked of PE 63 PN6 grade conforming to IS 4984 along with all accessories like socket, bend etc. complete with fitting and cutting, jointing etc. direct in ground at a depth of 0.80m below the ground level i/c excavation and refilling the trench but excluding sand cushioning and protective covering etc. as required.	18,210	Metre	163.00	2,968,230.00
15	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC / HUME / METAL / HDPE pipe as required:				
	a) 3.5 core x 400 mm ²	3,150	Metre	166.00	522,900.00
	b) 3.5 core x 240 mm ²	3,900	Metre	128.00	499,200.00
	c) 3.5 core x 95 mm ²	3,000	Metre	102.00	306,000.00
	d) 4 x 10 mm ²	18,210	Metre	28.00	509,880.00
16	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
	a) Above 185 mm ² and upto 400 mm ²	100	Metre	320.00	32,000.00
	b) Upto 35 mm ²	40	Metre	192.00	7,680.00
17	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:				
	a) 3.5 core x 400 mm ²	16	Set	5,760.00	92,160.00
	b) 3.5 core x 240 mm ²	20	Set	4,096.00	81,920.00
	c) 3.5 core x 95 mm ²	10	Set	2,048.00	20,480.00
18	Supplying and making end termination with aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade as required:				
	a) 4 x 10 mm ²	1,164	Set	102.00	118,728.00
19	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required.	16	Job	12,800.00	204,800.00
20	Supplying and laying 25 mm x 5 mm GI 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)	32	Metre	320.00	10,240.00

S. No.	Description	Qty	Unit	Rate	Amount
21	Providing and fixing 25 mm x 5 mm G.I. strip on surface or in recess for connections etc. as required.	16	Metre	243.00	3,888.00
22	Providing and fixing 6 SWG dia G.I. wire on surface or in recess or ground for loop earthing along with existing cable as required.	17,176	Metre	21.00	360,696.00
23	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) of size 60 cm x 60 cm at the bottom and 50 cm x 50 cm at the top with a thickness of 10 cm including inscription duly engraved as required.	20	Each	1,024.00	20,480.00
24	Providing cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) to make platform around the installed perimeter poles including excavation to required depth, plastering, finishing etc. as per the direction of Engineer-in-charge as required.	67.25	m ³	10,240.00	688,640.00
25	Carrying out site survey of perimeter lighting system regarding the routes of main feeder, sub feeder and loop-in loop out cables from various power houses / main feeder pillars / sub feeder pillars for distribution of power supply, location of all main feeder pillars, sub feeder pillars and perimeter light poles with Profile level and WGS Coordinates (i.e. Longitude and Latitude), submission of complete layout showing all such installations in hard copy and soft copy (Autocad, PDF and KML file) etc. complete as required.	1	Job	115,207.00	115,207.00
26	SITC of 18W LED, (4 ft.) with LED lamp & batten for LED tube made of extruded aluminium / poly carbonate housing with integrated electronic driver suitable for operation on 220V, 50 Hz AC supply etc. with minimum 5 years OEM warranty as required.	8	Job	850.00	6,800.00
27	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 medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S./ PVC box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (GROUP C)	16	Point	2,560.00	40,960.00
28	Supplying and fixing DP sheet steel enclosure conforming to IP 20 and IK 08 on surface/ recess along with 16 amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	8	Job	2,560.00	20,480.00
29	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 PVC conduit as required. 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	40	Metre	260.00	10,400.00
30	Supplying and fixing PVC box suitable for fixing 2 sets of piano type 5/6 A switch and socket on surface or in recess etc. as required.	8	Each	896.00	7,168.00
31	Supplying and fixing following piano type switch / socket on the existing switch box/ cover including connections etc. as required. 5/6 A switch	16	Each	320.00	5,120.00
32	Supplying and fixing following piano type switch / socket on the existing switch box / cover including connections etc. as required. 3 pin 5/6 A socket outlet	16	Each	448.00	7,168.00
33	SITC of 230V/50hz for 450mm (18") sweep wall mounted air circulator fan of approved make.	8	Job	9,601.00	76,808.00
34	Laying of one number armoured XLPE insulated and PVC sheathed power cable of 1.1 KV grade of following size on wall surface as required. Upto 35 sq.mm	40	Metre	192.00	7,680.00
35	Hire charges for providing one vehicle with driver (4 wheel, AC Bolero or equivalent) for attending the project execution and supervision of Perimeter Lighting system complete with required fuel, oil, insurance, road tax etc. in good condition on all days including Sunday's, Holidays and National Holidays complete as required.	6 Month		98,566.00	591,396.00
Total of SH-III					23,616,437.00
Total of SH-I, II & III					37,738,917.00
Grand Total Rs.					37,738,917.00

Rupees Three Crores seventy Seven Lakhs Thirty Eight Thousand Nine Hundred and Seventeen Only


Jt. General Manager(E-E)
AAI/ Tuticorin Airport



Ref: BEL/AAI/TUT/002

Dt: 10.06.2023

To,
Jt. General Manager (E-E)
Airport Authority of India
Tuticorin Airport

Dear Sir,

Subject: Request to Change address in PO

Nature of the Work: Provision of Perimeter Lighting at Tuticorin Airport

Ref: PO No: AAI/TUT/E-E/TUT-86/2023-24/760 dated: 30-05-2023 for "Provision of Perimeter Lighting at Tuticorin Airport"

With reference to the above subject, we received the above-mentioned PO on our Mumbai Address. As per GST rules the Supply, Installation, Testing and Commissioning items billing shall be done only with local GST, hence you are requested to change the address mentioned in PO to our regional branch office at Chennai.

Accordingly billing will happen from Bajaj Chennai to AAI, Tuticorin with Local SGST & CGST applicable.

Our regional branch office address as follows and GST certificate of Chennai Branch enclosed for your reference.

BAJAJ ELECTRICALS LTD
No.103 A, 8th Floor, A Block,
Navins Presidium,
Nelson Manikkam Road,
Chennai.
Pin Code - 600029

Yours faithfully,
For BAJAJ ELECTRICALS LIMITED


Srinivas Gokhale - Head - Lighting Commercial



*Am (24)
Pl. 18th revised
work order as requested
N=1/K
13/6/23
Jm (16)*

Head Office: Rustomjee Aspiree, 7th Floor, Bhanu Shankar Yagnik Marg, Off Eastern Express Highway, Sion (E), Mumbai 400022 | Tel: +91 22 6218 2300 | www.bajajelectricals.com

Registered Office: 45/47, Veer Nariman Road, Fort, Mumbai 400001

Tel: +91 22 6110 7800 | Email: legal@bajajelectricals.com | CIN: L31500MH1938PLC009887

