



QMS 9001:2015 EMS 14001:2015 CERTIFIED

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

कलिकट अंतर्राष्ट्रीय विमानपत्तन / CALICUT INTERNATIONAL AIRPORT

कलिकट विमानपत्तन(पी.ओ.) केनरा / Calicut Airport (P.O.), Kerala - 673 647

दूरभाष Phone : 0483 2719475, फैक्स/Fax : 0483 2711406, ई-मेल/E mail : dgmelect_calicut@aaiaero

By Regd.AD/E-mail

Ref. No. AAI/CL/ENGG(E)/154/WO-8/156

Date: 26.07.2022

✓ M/s Blue Star Ltd.,
Prestige TMS Square,
9th Floor, No. 2, Service Road,
Edappally,
Kochi - 682 024.

Name of Work : Facility Management of E&M Installations in Operational area at Calicut International Airport during 2022-24.

**Ref: : 1. E Bid No.2022 AAI 119446_1
2. Corrigendum No.1 dtd 21.06.2022
3. Corrigendum No.2 dtd 01.07.2022
4. Your financial bid opened on 19.07.2022.**

Dear Sir(s),

1. 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.2,45,97,786/- (Rupees Two Crores Forty Five Lakhs Ninety Seven Thousand Seven hundred and Eighty Six Only)**.
2. Jt. Gen. Manager (Engg-Elect), AAI, Calicut International Airport shall be the Engineer-in-Charge of the work. You are requested to attend the office of Jt. Gen. Manager (Engg-Elect), AAI, Calicut International Airport by **01.08.2022** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.200/- (Rupees Two Hundred Only)** and the cost of the stamp paper shall be borne by you.
3. The earnest money amount of **Rs.4,93,000/- (Rupees Four Lakhs Ninety Three Thousand Only)** received along with your tender will be treated and converted as part of security deposit as per Clause No.1A of Clauses of Contract on Page GCC 16 of the contract document. Please deposit **Rs.19,66,779/- (Rupees Nineteen Lakhs Sixty Six Thousand Seven Hundred and Seventy Nine 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.1 A at page No. GCC 16 of contract document.
4. Within 30 days of issue of acceptance letter, you shall submit to AAI, a Performance Guarantee as per condition of clauseon page.....for an amount of **Rs. (Rupees.....Only)** in the form of Bank Guarantee on the Proforma appended at Annexure ...onof Contract Document (If it is applicable).

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AIRPORTS AUTHORITY OF INDIA

कलिकट अंतर्राष्ट्रीय विमानपत्तन / CALICUT INTERNATIONAL AIRPORT
कलिकट विमानपत्तन(पो.ओ), केरल / Calicut Airport (P.O), Kerala - 673 647

टेलीफोन : 0483 2719475, फैक्स : 0483 2711406, ई-मेल : dgmelect_calicut@aaiaero

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5. 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 & Regulation) Act 1986, Construction of Works (Regulation of Employment and Condition of Services) Act 1996, Building and other construction Workers Welfare Cess Act 1996 as specified in Clause 37 on Page No.66 & 88 of GCC of tender and rules of Central and State Government.
6. You are also directed to contact Manager (Engg-Elect)- II, AAI, Calicut International Airport immediately who will arrange to hand over the site.
7. Please note that the time allowed for carrying out the work shall be **24 (Twenty Four) Months** and same shall be reckoned from **01.08.2022**.
8. Any further correspondence in connection with the contract should normally be addressed to the Engineer- In- Charge.
9. Please note that the awarded rate is exclusive of GST and you are required to submit valid GST invoices for effecting payment.
10. 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.

Thanking you,

Encl: SOQ

Yours faithfully,

Paulp 24/07/2022

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



Airports Authority of India
Engineering Wing (Electrical)
SR, Calicut International Airport, Calicut-673 647
SCHEDULE OF QUANTITIES

Name of work : Facility Management of E&M Installations in Operational area at Calicut International Airport during 2022 - 24

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
1	Item No.1	Daily operation and periodic maintenance of entire installations related to perimeter lighting, carrying out preventive and breakdown maintenance of E&M installations in new & operational power houses, CCRs, GLF installations, fire station, ancillary buildings, CISF Barrack, Nav-Aids, power supply to water pumping installations in the operational area including providing required assistance to AAI in maintaining the installations of Calicut Airport as required.	24	Month	3,68,370.00	88,40,880.00
2	Item No.2	Daily operation & Maintenance of grid connected 750KWp, 20kWp and 5kWp Solar plants including minor repairs, replacing devices/components/equipment that are supplied by AAI or OEM integrating the same to system (both hardware and software) and carrying out preventive maintenance, periodic cleaning of SPV panels to ensure optimum generation etc.	24	Month	43,442.00	10,42,608.00
3	Item No.3	Periodic Maintenance, Safe keeping, operation of SPOL & RLIL system as and when needed on the instructions of AAI, co-ordination with AAI and the maintaining the premises of the installations in neat and tidy condition by removing wild growth and timely grass cutting, clearing debris, floor & ceiling cleaning etc for Solar Powered Obstruction Lights installations at 05 Locations and Runway Lead In Lights at 04 Locations, on all days including ensuring serviceability monitoring, maintaining required records etc., as required.	24	Month	1,69,392.00	40,65,408.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
4	Item No.4	Daily operation and Maintenance of E&M inventories of Sewage Treatment Plant of 400 KLD capacity including carrying out Preventive and Breakdown Maintenance, round the clock, on all days including Sundays and Holidays etc. as required.	24	Month	1,17,672.00	28,24,128.00
5	Item No.5	Daily operation and Maintenance of E&M inventories of Sewage Treatment Plant (As per the inventory details provided in the tender document) installed at CISF barrack including carrying out Preventive and Breakdown Maintenance, in single shift of 8 hours, on all days including Sundays and Holidays etc. as required.	24	Month	21,065.00	5,05,560.00
6	Item No.6	Providing unskilled manpower for urgent maintenance works such as excavation to locate cable fault, clearing stores, or assisting maintenance related activities etc. as per direction of the EIC.	150	Days	617.00	92,550.00
7	Item No.7a	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 1.5TR split type wall mounted type Air conditioners.	552	Job	196.00	1,08,192.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
8	Item No.7b	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 1.5TR split type wall mounted type Air conditioners (Inverter type).	72	Job	196.00	14,112.00
9	Item No.7c	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 2TR split type wall mounted Air conditioners.	714	Job	261.00	1,86,354.00
10	Item No.7d	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 3TR Floor mounted 3 phase split Air conditioners .	360	Job	391.00	1,40,760.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
11	Item No.7e	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 3TR Cassette type 3 phase split Air conditioners.	144	Job	391.00	56,304.00
12	Item No.7f	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 3TR Ductable type 3 phase split Air conditioners.	264	Job	391.00	1,03,224.00
13	Item No.7g	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 5.5TR Ductable type 3 phase split Air conditioners.	48	Job	717.00	34,416.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
14	Item No.7h	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 2TR Inverter split type Air conditioners.	1056	Job	261.00	2,75,616.00
15	Item No.7i	All inclusive Comprehensive Maintenance of following type, make and capacity of air-conditioners installed at different locations including providing all necessary consumables and spares carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation. (1 Job = Comprehensive maintenance of 01 AC unit for one month) 4TR Cassette type 3 phase split Air conditioners.	112	Job	522.00	58,464.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
16	Item No.8	Comprehensive Maintenance of VRV multi split Airconditioning system of 30 HP capacities comprising of inverter scroll compressor, air cooled condenser, system controller, R 410 refrigerant, including providing all necessary consumables and spares carrying out various maintenance activities by maintaining adequate technical tie up with OEM (Blue star) as required. (1 Job = Maintaining entire system for 1 year) Details 1) Outdoor unit capacity of 30 HP (12HP-1 No.,10HP-1 No.,8HP-1 No.) 2) Indoor units : 2 Ton High wall split -4 Nos., 1 TR cassette type AC unit - 3 Nos., 2 TR cassette type AC unit - 2 Nos., 2.8 TR cassette type AC unit - 1 No., 4 TR cassette type AC unit - 3 Nos.	2	Job	97,826.00	1,95,652.00
17	Item No.9	All inclusive Comprehensive Maintenance of horizontal FAN COIL UNITS, blow through type, 3 rows deep chilled water coil, centrifugal fans, metallic filters, main condensate drain pans, casing, coil piping connections, condensate drain connections working at 230 + 6% volts, 50 cycles, single phase power supply. Fan Coil are of 3TR and 1200CFM refrigeration capacities (1 Job = Comprehensive maintenance of the Unit with accessories for one month).	72	Job	130.00	9,360.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
18	Item No.10a	Comprehensive maintenance of water coolers of various makes of following capacities installed at different locations providing all necessary consumables and spares, carrying out various maintenance activities as per AA1 maintenance manual/OEM recommendation including periodic checking of all units for proper functionality etc. complete as required. (1 Job =Comprehensive maintenance of 01 water cooler unit per month) 20/40 Ltr	96	Job	87.00	8,352.00
19	Item No.10b	Comprehensive maintenance of water coolers of various makes of following capacities installed at different locations providing all necessary consumables and spares, carrying out various maintenance activities as per AA1 maintenance manual/OEM recommendation including periodic checking of all units for proper functionality etc. complete as required. (1 Job =Comprehensive maintenance of 01 water cooler unit per month) 40/80 Ltr	168	Job	92.00	15,456.00
20	Item No.10c	Comprehensive maintenance of water coolers of various makes of following capacities installed at different locations including providing all necessary consumables and spares, carrying out various maintenance activities as per AA1 maintenance manual/OEM recommendation including periodic checking of all units for proper functionality etc. complete as required. (1 Job =Comprehensive maintenance of 01 water cooler unit per month) 60/120 Ltr	120	Job	98.00	11,760.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
21	Item No.11	Comprehensive maintenance of 125 ltr/Hr capacity water cooler with UV and Ozone purifying technologies with necessary filters and water dispensing Mechanism with hot, normal and cool water facilities with stainless steel body, suitable compressor, insulation etc. as required (Model No.HIMA 7 NHC- 3 nos) (1 Job =Comprehensive maintenance of 01 water cooler unit per month).	72	Job	163.00	11,736.00
22	Item No.12	Comprehensive maintenance 50 ltr/Hr capacity water Dispenser with Ozone purifying technologies with necessary filters and water dispensing Mechanism with normal water facilities with SS body,insulation etc. as required (Model No. VARUNA 2: -1 nos) (1 Job =Comprehensive maintenance of 01 water cooler unit per month).	24	Job	146.00	3,504.00
23	Item No.13	Comprehensive maintenance of hot and cold water dispensers of USHA model HNCCC21V9S or similar installed at different locations including providing all necessary consumables and spares, carrying out various maintenance activities as per AAI maintenance manual/OEM recommendation including daily checking of all units for proper functionality etc. complete as required. (1 Job =Comprehensive maintenance of 01 water cooler unit per month)	44	Job	146.00	6,424.00
24	Item No.14a	Comprehensive maintenance of Kelby make water cooler Model No.Brook 250 NHC including two half yearly mandatory services with replacement of spun and carbon filters and attending breakdown/ malfunction within 24 Hrs throughout the year including repair/replacement of all defective parts. (1 Job = 1 unit/year) 1st year (First 12 months)	7	Job	4,099.00	28,693.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
25	Item No.14b	Comprehensive maintenance of Kelby make water cooler Model No.Brook 250 NHC including two half yearly mandatory services with replacement of spun and carbon filters and attending breakdown/ malfunction within 24 Hrs throughout the year including repair/replacement of all defective parts. (1 Job = 1 unit/year) IInd year (Next 12 months)	7	Job	4,149.00	29,043.00
26	Item No.15a	Comprehensive maintenance of Kelby make water cooler Model No.Brook 125 NHC including two half yearly mandatory services with replacement of spun and carbon filters and attending breakdown/ malfunction within 24 Hrs throughout the year including repair/replacement of all defective parts (1 Job = 1 Unit for 01 year) Ist year (First 12 months)	3	Job	3,425.00	10,275.00
27	Item No15b	Comprehensive maintenance of Kelby make water cooler Model No.Brook 125 NHC including two half yearly mandatory services with replacement of spun and carbon filters and attending breakdown/ malfunction within 24 Hrs throughout the year including repair/replacement of all defective parts (1 Job = 1 Unit for 01 year) IInd year (Next 12 months)	3	Job	3,450.00	10,350.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
28	Item No.16a	Comprehensive maintenance of Kelby make water purifier Model No.Brook 125 N including two half yearly mandatory services with replacement of spun and carbon filters and attending breakdown/ malfunction within 24 Hrs throughout the year including repair/ replacement of all defective parts (1 Job = 1 Unit for 01 year) 1st year (First 12 months)	13	Job	3,043.00	39,559.00
29	Item No.16b	Comprehensive maintenance of Kelby make water purifier Model No.Brook 125 N including two half yearly mandatory services with replacement of spun and carbon filters and attending breakdown/ malfunction within 24 Hrs throughout the year including repair/ replacement of all defective parts (1 Job = 1 Unit for 01 year) 11nd year (Next 12 months)	13	Job	3,043.00	39,559.00
30	Item No.17	Comprehensive maintenance of 100 LPH Reverse Osmosis Plant (RO plant) having UV sterilization system carrying out various maintenance activities, replacement of filters, servicing, attending breakdowns etc as required.(1 Job = 1 unit/year)	2	Job	8,261.00	16,522.00
31	Item No.18	Relocating existing 1.5/2.0 Ton split type AC including dismantling, shifting re installing and re commissioning at new location complete as required [excluding any extra materials].	5	Job	2,995.00	14,975.00
32	Item No.19	Relocating existing 3.0 Ton split type AC including dismantling, shifting re installing and re commissioning at new location complete as required [excluding any extra materials].	2	Job	4,342.00	8,684.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
33	Item No.20a	Providing & laying of following size thermally Insulated copper pipe for refrigerant line suitable for the AC unit. 1/4 inch	25	Meter	538.00	13,450.00
34	Item No.20b	Providing & laying of following size thermally Insulated copper pipe for refrigerant line suitable for the AC unit. 3/8 inch	50	Meter	592.00	29,600.00
35	Item No.20c	Providing & laying of following size thermally Insulated copper pipe for refrigerant line suitable for the AC unit. 5/8 inch	50	Meter	841.00	42,050.00
36	Item No.21	Providing & laying (2+1E) Core x 2.5 sq.mm FR insulated, PVC sheathed unarmored multi strand copper cable suitable for the AC outdoor unit connection.	50	Meter	103.00	5,150.00
37	Item No.22	Testing of water samples taken from water purifiers/cooler outlet in NABL/state government accredited Lab for the following parameters and submitting reports as required. 1) PH value 2) Turbidity 3)TDS 4)Total Iron (Fe) 5)coliform 6) E coli	250	Job	1,207.00	3,01,750.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
38	Item No.23	Monthly Testing of water samples taken from treated water of STP in NABL/state government accredited Lab for the following parameters and submitting reports as required. 1) PH value 2) Suspended solids 3)COD 4)BOD for 3 days at 27 degree C 5)Oil & grease	48	Job	1,609.00	77,232.00
39	Item No.24	Replacement of approved consumable iron birm media of the existing water purifiers (1 Job = Two Times replacement in a year).	48	Job	500.00	24,000.00
40	Item No.25a	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 800A, 415 Volts	8	Job	1,957.00	15,656.00
41	Item No.25b	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 1000A, 415 Volts	8	Job	1,957.00	15,656.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
42	Item No.25c	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 1250A, 415 Volts	16	Job	1,957.00	31,312.00
43	Item No.25d	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 1600A, 415 Volts	4	Job	1,957.00	7,828.00
44	Item No.25e	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 2000A, 415 Volts	10	Job	1,957.00	19,570.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
45	Item No.25f	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 2500A, 415 Volts	2	Job	1,957.00	3,914.00
46	Item No.25g	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 3200 A, 415 Volts	6	Job	1,957.00	11,742.00
47	Item No.25h	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). L&T Make 4000A,415Volts	18	Job	1,957.00	35,226.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
48	Item No.25i	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). GE make Spectronics 4P, 415V,800A	32	Job	1,957.00	62,624.00
49	Item No.25j	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). GE make Spectronics 4P, 415V,1000A	8	Job	1,957.00	15,656.00
50	Item No.25k	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). GE make 4P, 415V,1250A	70	Job	1,957.00	1,36,990.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
51	Item No.251	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). GE make 4P, 415V,2000A	4	Job	1,957.00	7,828.00
52	Item No.251	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). ABB Make 1250 A, 4P, 415 V	44	Job	1,957.00	86,108.00
53	Item No.251	Servicing of following air circuit breakers through specialised service personnel, overhauling; carrying out preventive maintenance checks as per manufacturer's specification and attending breakdown calls as and when required. Spares if any required shall be provided by AAI (services for an ACB in 1 year i.e. one overhauling & servicing in one year= 1 Job). Schneider make 1250 A, 4P, 415V	22	Job	1,957.00	43,054.00
54	Item No.26	Testing of BDV of transformer oil from approved testing facility and submission of report to AAI	5	Job	409.00	2,045.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
55	Item No.27a	Filtration of the transformer oil to achieve satisfactory BDV value for the following transformers installed at Calicut International Airport, including topping up of oil (if required, the transformer oil for topping up will be supplied by AAI) and testing the BDV of the transformer oil after filtration and submission of reports to AAI. (01 job = carrying the work once in one transformer) 2000 KVA Make : Voltamp, with OLTC Year of Manufacture : 2006 Oil : 1456 ltrs (approx.)	4	Job	9,081.00	36,324.00
56	Item No.27b	Filtration of the transformer oil to achieve satisfactory BDV value for the following transformers installed at Calicut International Airport, including topping up of oil (if required, the transformer oil for topping up will be supplied by AAI) and testing the BDV of the transformer oil after filtration and submission of reports to AAI. (01 job = carrying the work once in one transformer) 2000 KVA, Make : Kirlosker, without OLTC Year of Manufacture : 2007 Oil : 1900 ltrs (approx.)	6	Job	11,850.00	71,100.00
57	Item No.28	Servicing of Areva Make 11 KV, 50Hz vacuum circuit breaker i/c cleaning of CTs, PTs, Busbars and testing etc. as required and as per manufacturers guidelines(Timer test, contact resistance test, 5KV megger test are included) of different rating:	16	Job	5,165.00	82,640.00

Duty

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
58	Item No.29a	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Differential protection Relay, Type : CAG, electromechanical Model no:CAG34AF71A,	8	Job	484.00	3,872.00
59	Item No.29b	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Earth Fault Relay(Inverse), Type : CDG, Electromechanical, Model no : CDG11AF006SACH, Make : AREVA	8	Job	484.00	3,872.00
60	Item No.29c	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. OVER CURRENT RELAY(Inverse) all the 3 elements, Type : CDV, Electromechanical, Model no : CDV62EG8512ACH, Make : AREVA	4	Job	807.00	3,228.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
61	Item No.29d	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Undervoltage Relay, Type : VDG, electromechanical, Model no : VDG 13AF9101ACH, Make : ALSTOM	4	Job	646.00	2,584.00
62	Item No.29c	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Reverse Power Relay, Type : CCUM21,electromechanical, Model no : CCUM21PF132A, Make: AREVA	4	Job	484.00	1,936.00
63	Item No.29 f	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Overvoltage Relay Type : VDG, electromechanical, Model no:VDG11AF001SBCH, Make : ALSTOM	4	Job	538.00	2,152.00



Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
64	Item No.29 g	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Overcurrent & Earth Relay(Inverse) - all the 3 elements Type : CDG, electromechanical, Model no:CDG31EG002SBCH/CDG61EG101ZRCH Make :AREVA	8	Job	484.00	3,872.00
65	Item No.29 h	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Underfrequency/Overfrequency Relay, Type: MFVUM22, Digital, Model no ; MFVUM22D1AA0015A, Make : Alstom	4	Job	646.00	2,584.00
66	Item No.29 i	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Instantaneous Under/Over voltage Relay Type : VAGM , electromechanical Model no:VAGM22AF171G, Make: AREVA	4	Job	538.00	2,152.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
67	Item No.29 j	Testing, Calibration of relays at Calicut Airport (As per the Annexure, attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Earth fault relay, Type SC14S, Make: L&T	6	Job	484.00	2,904.00
68	Item No.29k	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Over/under voltage relay, Type MV12, Make:L&T	6	Job	646.00	3,876.00
69	Item No.29 l	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Overcurrent & Earth Relay(Inverse) - all the 3 elements Type CDG, Model no:CDG 31EG001SBCH, Make AREVA	12	Job	807.00	9,684.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
70	Item No.29 m	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Overcurrent & Time delay , Short Circuit & Time delay, Ground fault & Time delay, Type : SR18G Make L&T	24	Job	807.00	19,368.00
71	Item No.29 n	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Overcurrent & Time delay, Short Circuit & Time delay,Ground fault& Time delay, Instantaneous, Type : RMS7, Make : GE Spectronics	98	Job	646.00	63,308.00
72	Item No.29 o	Testing, Calibration of relays at Calicut Airport (As per the Annexure attached) by secondary injection method with suitable testing kit with a Govt. approved Laboratory/ Test centre including submission of report of calibration to AAI. Restricted E/F relay Make: Alstom, trip circuit efficacy testing by simulation, end connection if any	6	Job	532.00	3,192.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
73	Item No.30a	Testing and Calibration of following type AC meters by suitable method from Govt approved Test centre and submission of the calibration certificate as per NABL norms. Multi Function Meter Model EM Conzerv 6400	17	Job	852.00	14,484.00
74	Item No.30b	Testing and Calibration of following type AC meters by suitable method from Govt approved Test centre and submission of the calibration certificate as per NABL norms. True RMS Ammeter of range 0 A - 30 A rms (30/1 A)	16	Job	852.00	13,632.00
75	Item No.31	Testing and Calibration of Clinometer make M/s AMA by suitable method from OEM and submission of the calibration certificate to AAI. The Job includes the charges for to and fro transportation of the equipment to the testing/calibration centre.	4	Job	460.00	1,840.00
76	Item No.32	Testing with suitable testing kit with government approved laboratory/test centre including trip circuit efficacy testing by end to end simulation from CT secondary to trip coil and corrections if any	200	Job	1,124.00	2,24,800.00
77	Item No.33 a	Servicing of Honda make Generator Set of the following models from authorised service dealers: Model:EXK 2800 S-2KVA	2	Job	1,399.00	2,798.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
78	Item No.33 b	Servicing of Honda make Generator Set of the following models from authorised service dealers: Model:EK 1000-650VA	2	Job	1,022.00	2,044.00
79	Item No.34	Clearing of Grass/vegetation around street light poles, HT yard and other electrical installations by mechanical means like grass cutting machine, disposal of cut grass including Man Power etc complete as required and as per instructions from Engineer In Charge.	1000	sqm	5.00	5,000.00
80	Item No.35	Painting of electrical panels, bus ducts, transformers, pipelines etc with synthetic enamel paint of required colour , approved brand (2 or more coats). - By hand brush/roller	50	sqm	140.00	7,000.00
81	Item No.36	Painting of exhaust pipes etc with heat resistant paint of required colour , approved brand. (2 or more coats).	175	sqm	312.00	54,600.00
82	Item No.37	Painting of electrical panels, bus ducts, transformers, pipelines etc with polyruthene enamel paint of required colour , approved brand (2 or more coats). - By Spray paint	600	sqm	161.00	96,600.00
83	Item No.38	Painting of double pole structures, street light poles along with supporting structures, anywhere in the airport premises with polyruthene enamel paint of required colour, approved brand.(1 pole=1 job)	500	Job	123.00	61,500.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
84	Item No.39	Re-lettering on panels/earth pits using enamel painting with suitable colour as per the direction of Engineer In Charge (1 Job = 1 letter of 3 cm height)	2000	Job	48.00	96,000.00
85	Item No.40	Preparing Effluclean Activated Effective Microorganism solution(5 litr) from EM stock solution, water and Jagger as mentioned in the tender for treating the sewage. The Job includes the supply of required Jagger and EM solution for preparing 5 litre Effluclean Activated Microorganism solution. The treatment shall be done by operator.	220	Job	196.00	43,120.00
86	Item No.41	Servicing of A1 Blowers (MODEL-A1-67M) and motor (MODEL K2147436) including complete servicing of blower, clearance check, timing setting and cleaning of filter overhauling of motor, replacing the gland packing etc as required including transportation charges and any other incidental charges complete as required.(1 job= 1 servicing once a year)	2	Job	9,677.00	19,354.00
87	Item No.42	Servicing of following pumps at STP installed at Airport School including overhauling, replacing the gland packing etc as required(1 job= servicing of all pumps below once in a year) a) Sewage Pump - 5HP, make : Kirloskar - 2 Nos b) Filter Feed Pump - 5HP, make : Kirloskar - 2 Nos c) Sludge Pump - 3HP, make : Kirloskar - 2 Nos d) self-priming Sludge Effluent Transfer Pump-10HP, Make : ABB-2 Nos e) Treated Water Pump (NIAB) - 20HP, Make : ABB - 2 Nos	2	Job	13,037.00	26,074.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
88	Item No.43	Supply of SODIUM HYPO CHLORITE WITH 10% CHLORINE (120 GPL) and disinfection of treated water with mixture of Sodium Hypo Chlorite with 10% Chlorine (120gpl) per day to get 0.1 ppm Residual Free Chlorine (Approximate Requirement for Chlorination per day as per STP Consultant is 50 Kg/day, 1 Job Requirement for Chlorination per day as per STP Consultant is 50 Kg/day, 1 job = 50 Kg)	734	Job	1,446.00	10,61,364.00
89	Item No.44	Supply of Polyelectrolyte Anion Powder and mixing with water for treatment of sludge tank (Approximate Requirement for Anion Powder per day as per STP Consultant is 2 Kg/day mixed with 198L Water, 1 Job = 2Kg)	730	Job	871.00	6,35,830.00
90	Item No.45 a	Servicing of following make air blower motor set including complete servicing of blower, clearance check, timing setting cleaning of filter, overhauling of motor, replacing the gland packing etc as required including transportation charges and any other incidental charges complete as required.(1 job= 1 servicing once a year) Everest Blower (Model 1450) and Crompton Greaves Motor (Model 1542J)	2	Job	6,774.00	13,548.00
91	Item No.45 b	Servicing of following make air blower motor set including complete servicing of blower, clearance check, timing setting cleaning of filter, overhauling of motor, replacing the gland packing etc as required including transportation charges and any other incidental charges complete as required.(1 job= 1 servicing once a year) b) ABL Blower (Model 42AC) and Kirloskar Motor (Model KI90L)	2	Job	7,742.00	15,484.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
92	Item No.46	Servicing of following pumps at STP installed at CISF Barrack including overhauling, replacing the gland packing etc as required(1 job= servicing of all pumps below once in a year) a) Sewage Pump - 1HP, make : Kirloskar - 2 Nos b) Filter Feed Pump - 1HP, make : Kirloskar - 2 Nos d) Back Wash Pump - 1HP, Make : Kirloskar - 2 Nos e) Treated Water Pump - 0.75HP, Make : ATEXON - 1 Nos	2	Job	9,194.00	18,388.00
93	Item No.47	Replacement of media for pressure sand filter (Capacity :1000 LPH @ 2-3.5 kg/Sq.m), MOC of which is FRP, top opening type of dia 330 mm and height 1380 mm including, removing the old media, shifting the same to a location not more than 50 metres away, as directed by AAI, dismantling of the existing pressure sand filter from the said location after removing all pipe line connections, re-fixing the same after filling new media (sand and sillex up to 70% of total height) , making all necessary piping inter connection as before, replacement of strainer, testing and commissioning of the filter to the satisfaction of the Engineer - In -Charge, AAI.	1	Job	39,183.00	39,183.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
94	Item No.48	Replacement of media for pressure carbon filter (Capacity :1000 LPH @ 2-3.5 kg/Sq.m), MOC of which is FRP, top opening type of dia 330 mm and height 1380 mm including, removing the old media, shifting the same to a location not more than 50 metres away, as directed by AAI, dismantling of the existing pressure sand filter from the said location after removing all pipe line connections, re-fixing the same after filling new media (Activated carbon with an Iodine value ≥ 1000 , 70% of total height) , making all necessary piping inter connection as before, replacement of strainer, testing and commissioning of the filter to the satisfaction of the Engineer - In -Charge, AAI.	1	Job	50,000.00	50,000.00
95	Item No.49	Supply,Installation, testing and commissioning of dosing pump of capacity 6 ltr/hr at a working pressure of 4kg/m2 with tubing connections and all accessories.	2	Job	7,473.00	14,946.00
96	Item No.50 a	Checking of following parameters through Kerala PCB enlisted agency with calibrated test equipment, including submission of test reports for the same etc. complete as required (relevant calibration certificate of equipment to be submitted) Checking exhaust emission of DG (for 7 Nos of DGs twice in a year)	28	Job	880.00	24,640.00
97	Item No.50 b	Checking of following parameters through Kerala PCB enlisted agency with calibrated test equipment, including submission of test reports for the same etc. complete as required (relevant calibration certificate of equipment to be submitted) Noise level of DG (for 7 Nos of DGs twice in a year)	28	Job	103.00	2,884.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
98	Item No.51	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group-B	10	Each	492.00	4,920.00
99	Item No.52 a	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required a) 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	150	Meter	186.00	27,900.00
100	Item No.53 a	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required a) 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	150	Meter	200.00	30,000.00
101	Item No.54 a	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required a) 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	150	Meter	274.00	41,100.00
102	Item No.55	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches in recess etc as required. 3 Module (100mmX75mm)	40	Each	241.00	9,640.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
103	Item No.56	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches in recess etc as required. 4 Module (125mmX75mm)	5	Each	225.00	1,125.00
104	Item No.57	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required 5/6 A switch	25	Each	43.00	1,075.00
105	Item No.58	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required 3 Pin 5/6 A Socket Outlet	25	Each	109.00	2,725.00
106	Item No.59	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 A Switch	15	Each	138.00	2,070.00
107	Item No.60	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 6 pin 15/16 amp socket outlet	15	Each	190.00	2,850.00
108	Item No.61	Supply and fixing of SMC loop in loop out box of inside dimension 240 X 130 X 95 (equivalent to Sintex make model No.GS-JB-2817) including suitable 20 A 4 way connector and din rail etc, including making required interconnections as required.	25	Each	406.00	10,150.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
109	Item No.62	Supplying and fixing of 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	5	Each	1,126.00	5,630.00
110	Item No.63	Earthing with GI 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 and salt as required.	5	Each	6,161.00	30,805.00
111	Item No.64	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.	100	Meter	61.00	6,100.00
112	Item No.65	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)	50	Meter	184.00	9,200.00
113	Item No.66	Supply of capacitor duty contactors suitable for 50 Kvar, 440 V 3 phase, 50 Hz with coil voltage 240 V 50 Hz equivalent to l&t make MO C50 model with cat,no, CS96324.	5	Each	8,086.00	40,430.00
114	Item No.67	Supply of capacitor duty contactors suitable for 25 Kvar, 440 V 3 phase, 50 Hz with coil voltage 240 V 50 Hz equivalent to l&t make MO C25 model with cat,no, CS96322.	5	Each	2,854.00	14,270.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
115	Item No.68	Excavation for cable trenches of depth upto 1.2 m in soft soil including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 meters.	100	cum	165.00	16,500.00
116	Item No.69	Excavation of the cable trenches in hard rock not exceeding 1.5 meters in width, and lift upto 1.5 meters, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meters.	20	cum	459.00	9,180.00
117	Item No.70	Providing and fixing following rating, breaking capacity and adjustable thermal setting MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. 3 pole, 100 Amp, 415V, 50Hz, 25KA	1	Each	4,588.00	4,588.00
118	Item No.71	Providing and fixing following rating, breaking capacity and adjustable thermal setting MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. 3 pole, 32Amp, 415V, 50Hz, 10KA	1	Each	1,645.00	1,645.00
119	Item No.72	Supply of Digital time switch (Equivalent to L&T make CAT NO. 67DDT0)	10	Each	1,645.00	16,450.00
120	Item No.73	Supplying, drawing following sizes of FR PVC insulated copper conductor, three core cable in the existing surface/ recessed steel/ PVC conduit/ underground pipe as required. 3 x 1.5 sq. mm	200	Meter	108.00	21,600.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
121	Item No. 74	Supplying, drawing following sizes of FR PVC insulated copper conductor, four core cable in the existing surface/ recessed steel/ PVC conduit/ underground pipe as required. 4 x 1.5 sq. mm	100	Meter	128.00	12,800.00
122	Item No. 75	Supplying, drawing following sizes of FR PVC insulated copper conductor, four core cable in the existing surface/ recessed steel/ PVC conduit/ underground pipe as required. 4 x 4 sq. mm	200	Meter	228.00	45,600.00
123	Item No. 76	Supply, installation, testing and commissioning of Solar powered red & green colour blinking traffic lights of 4w,300 mm dia suitable for working 24 hours including for mounting on 1.5m pole including supplying, installing, providing of pole, customized traffic light receiver controller, Long range transmitter, Button box, Battery set & Solar panel required capacity, having 2 day autonomy and connection including painting of pole including provision for wireless control for switching on & off for a distance of 1.5-2 km complete as required	1	Job	20,430.00	20,430.00
124	Item No. 77	Supply, installation, testing and commissioning of Solar powered red colour blinking traffic lights of 4w,300 mm dia suitable for working 24 hours including for mounting on 1.5m pole including supplying, installing, providing of pole, customized traffic light receiver controller, Button box, Battery set & Solar panel required capacity, having 2 day autonomy and connection including painting of pole complete as required	1	Job	20,430.00	20,430.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
125	Item No.78	Locating the cable fault like earth fault, open circuit fault etc, by means of portable fault locator including excavation, rectifying the fault, refilling etc complete as required but excluding the cost of joining kit.	4	Job	27,765.00	1,11,060.00
126	Item No.79	Providing and laying in position cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including form work etc. as required.	30	cum	1,171.00	35,130.00
127	Item No.80 a	Laying and fixing of one number XLPE/ PVC insulated PVC sheathed aluminium/copper conductor cable of 1.1 KV grade of following sizes on wall/ surface as required. Upto 35 Sq.mm	50	Meter	49.00	2,450.00
128	Item No.80 b	Laying and fixing of one number XLPE/ PVC insulated PVC sheathed aluminium/copper conductor cable of 1.1 KV grade of following sizes on wall/ surface as required. Above 35 Sq mm upto 95 Sq mm	50	Meter	76.00	3,800.00
129	Item No.80 c	Laying and fixing of one number XLPE/ PVC insulated PVC sheathed aluminium/copper conductor cable of 1.1 KV grade of following sizes on wall/ surface as required. Above 95 Sq.mm upto 185 Sq.mm	50	Meter	130.00	6,500.00
130	Item No.80 d	Laying and fixing of one number XLPE/ PVC insulated PVC sheathed aluminium/copper conductor cable of 1.1 KV grade of following sizes on wall/ surface as required. Above 185 Sq mm upto 400 Sq mm	50	Meter	190.00	9,500.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
131	Item No.81 a	Laying of 1 No. XLPE/PVC insulated, PVC sheathed, armoured / unarmoured aluminum/copper conductor power cable of 1.1 KV / 5 KV grade following sizes in DWC/ HDPE /Hume/ RCC metal /stone ware pipe as required.(clamped with 1mm thick saddle) . Upto 35 Sq.mm	200	Meter	44.00	8,800.00
132	Item No.81 b	Laying of 1 No. XLPE/PVC insulated, PVC sheathed, armoured / unarmoured aluminum/copper conductor power cable of 1.1 KV / 5 KV grade following sizes in DWC/ HDPE /Hume/ RCC metal /stone ware pipe as required.(clamped with 1mm thick saddle) . Above 35 Sq mm upto 95 Sq mm	100	Meter	60.00	6,000.00
133	Item No.81 c	Laying of 1 No. XLPE/PVC insulated, PVC sheathed, armoured / unarmoured aluminum/copper conductor power cable of 1.1 KV / 5 KV grade following sizes in DWC/ HDPE /Hume/ RCC metal /stone ware pipe as required.(clamped with 1mm thick saddle) . Above 95 Sq mm upto 185 Sq mm	300	Meter	88.00	26,400.00
134	Item No.81 d	Laying of 1 No. XLPE/PVC insulated, PVC sheathed, armoured / unarmoured aluminum/copper conductor power cable of 1.1 KV / 5 KV grade following sizes in DWC/ HDPE /Hume/ RCC metal /stone ware pipe as required.(clamped with 1mm thick saddle) . Above 185 Sq mm upto 400 Sq mm	100	Meter	113.00	11,300.00
135	Item No.82 a	Supplying and making straight joint with heat shrinkable kit including ferrules and other jointing materials for following size PVC insulated and PVC sheathed/ XLPE Al conductor cable of 1.1kV grade as required 4 C x 25 sqmm	5	set	1,287.00	6,435.00

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Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
136	Item No.82b	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size PVC insulated and PVC sheathed/ XLPE Al conductor cable of 1.1kV grade as required 3.5 C x 50 sqmm	2	set	1,546.00	3,092.00
137	Item No.82c	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size PVC insulated and PVC sheathed/ XLPE Al conductor cable of 1.1kV grade as required 3.5 C x 70 sqmm	2	Set	2,425.00	4,850.00
138	Item No.82d	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size PVC insulated and PVC sheathed/ XLPE Al conductor cable of 1.1kV grade as required 3.5 C x 185 sqmm	10	Set	3,618.00	36,180.00
139	Item No.83a	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. 4 C x 25 sqmm	35	Set	269.00	9,415.00
140	Item No.83b	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. 3.5C x 50Sq.m	2	Set	354.00	708.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
141	Item No.83 c	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. 3.5 C x 70 sqmm	2	Set	396.00	792.00
142	Item No.83 d	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. 3.5 C x 185 sqmm	10	Set	755.00	7,550.00
143	Item No.84	Repairing of earth pits by dismantling the existing masonry enclosure and providing RCC enclosure of 1:2:4 grade (1 cement : 2 coarse sand : 4 graded stone) and reinforced with steel rods 8mm dia in a pattern approved by AAI, providing hinged MS cover of minimum 8 mm thickness with suitable locking system as per specifications including, painting the earth pit portion above ground and cover plate, numbering the same, providing and fixing suitable funnel, removing of debris etc. as per the direction of EIC.	10	Job	2,081.00	20,810.00
144	Item No.85 a	Repairing of 11kV HT yard structure complete with the following works as required Supply and fixing of 11kV AB switch including dismantling the existing AB switch with required nut and bolts(1 job=1 set of AB switch)	2	Job	14,000.00	28,000.00



Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
145	Item No.85 b	Repairing of 11kV HT yard structure complete with the following works as required Supply and fixing of 11kV lightning arrestor including dismantling the existing lightning arrestor with required nut, bolts and jumpers(1 job=1 set of arrestors)	2	Job	3,175.00	6,350.00
146	Item No.85 c	Repairing of 11kV HT yard structure complete with the following works as required Supply and fixing of 200 A Drop out fuse including dismantling the existing DO fuse with required jumpers(1 job=1 set of DO fuse)	2	Job	3,450.00	6,900.00
147	Item No.86	Painting of HIIRL/MIRL Light fittings installed at runway at Calicut Airport with PU paint of aviation yellow colour (2 coats) of approved brand as required after removing dirt and grease.	462	Job	93.00	42,966.00
148	Item No.87	Painting of Approach Light fittings installed at runway at Calicut International Airport with PU paint of aviation yellow colour (2 coats), approved brand as required after removing dirt and grease.	24	Job	173.00	4,152.00
149	Item No.88	Painting of PAPI Light fittings installed at runway at Calicut International Airport with PU paint of aviation yellow colour (2 coats), approved brand as required after removing dirt and grease.	8	Job	140.00	1,120.00

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
150	Item No.89	Painting of Landing 'T' Light fittings installed at runway at Calicut International Airport with PU paint of aviation yellow colour (2 coats), approved brand as required after removing dirt and grease.	1	Job	1,705.00	1,705.00
151	Item No.90	Supplying and installing following size of perforated painted with powder coating G.I. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. 300 mm width x 100 mm depth x 1.6 mm thickness	100	Meter	988.00	98,800.00
152	Item No.91	Hiring of Hydraulic Earth mover/Excavator complete with driver and fuel for levelling, digging and other earth work required for cabling etc.	100	hour	1,225.00	1,22,500.00
153	Item No.92	SITC of grid tie solar inverter of capacity 100 kW 415 V including accessories (Make ABB PVS-100/120-TL or equivalent). The Job shall include the rate of installation, testing and commissioning of the string inverter including communication.	1	Job	3,99,566.00	3,99,566.00
154	Item No.93	Supply of ELANTAS compound of weight 25kg along with ELANTAS hardner (758) 1 Kg	10	Set	13,200.00	1,32,000.00
155	Item No.94	Supply of AC Surge Protection Device AC SPD (Type 2), Make : GEHE voltage :690V Cartridge without base Part code 0926910483 suitable for Delta make Inverter	10	Each	2,446.00	24,460.00
156	Item No.95	Supply of DC Surge Protection Device SPD (Type 2) Make : GEHE Voltage :1120V, Cartridge without base Part code 921022783 suitable for Delta make Inverter	10	Each	2,540.00	25,400.00

Deep

Sl. No	Item Code	Item Description	Qty	Unit	Rate	Amount
157	Item No.96	Supply of Halogen lamp 150W (OSRAM, 64631 HLX-Z 150W-15 PK30D or equivalent) suitable for use in runway edge light fitting or equivalent in approved makes of AAI	100	Each	1,235.00	1,23,500.00
158	Item No.97	Supply of Halogen lamp 200 W (OSRAM, 64382 HLX-C 200W 6.6A PK30D or equivalent,) suitable for use in Runway Edge Light fitting or equivalent in approved makes of AAI	100	Each	1,355.00	1,35,500.00
159	Item No.98	Supply of 105 W, 6.6 A, halogen lamp used for runway edge inset type fittings (Make : Osram Cat No. 64339C/ NARVA MODEL 6108 or equivalent in list of approved makes of AAI)	60	Each	1,070.00	64,200.00
		Total				2,45,97,786.00

(Rupees Two Crores Forty Five Lakhs Ninety Seven thousand Seven hundred and Eighty Six Only)




 Asst. General Manager (Engg-Elect) - I
 AAI, Calicut International Airport