

Government eProcurement System Created By: Anand Gupta Created Date/Time: 13-Apr-2020 01:53 PM Tender Title: Extension of Apron and Construction of Parallel Taxi Track for Parking of Code C type of aircraft at Indore Airport Tender ID: 2020_AAI_41770_1

Tender Inviting Authority: AGM (Engg.-E)-I, AAI, DABH Airport, Indore.

Name of Work: Extension of Apron and Construction of Parallel Taxi Track for Parking of Code"C" type of aircraft at Indore Airport

Contract No: AAI/ID/AGM(ENG.G.(E)-I/INIT-14/2019-20

SCHEDULE OF WORK / ITEM(S)														
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	AMA Private Limited		Manish Electricals		Techno Electricals		JATINDER CONSTRUCTION COMPANY PRIVATE		Vardhman Airport Solutions Pvt Ltd	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.01	Supply of 7.5 W (maximum) LED Type omni directional blue LED, Elevated Medium Intensity Taxiway/ Apron edge Light Fittings complete with lens, Driver suitable heat sink, Breakable Coupling, central column assembly, 2 pin secondary Lead, Rubber Gaskets, Base Plates with 6 nos M 10 stainless steel bolts, spring washer and other accessories etc confirming to ICAO specification and technical specification etc complete as required.	152.00	Each	100.00	4700.00	714400.00	5200.00	790400.00	4969.00	755288.00	4555.00	692360.00	4150.00	630800.00
1.02	Supply of Omni-directional inset type medium intensity LED Taxiway edge light fitting with blue LED meeting ICAO standards complete with lens, filters colour as required at site etc.	12.00	Each	100.00	43000.00	516000.00	58000.00	696000.00	39279.00	471348.00	30000.00	360000.00	29338.00	352056.00
1.03	Installation of Omni-Directional Inset LED Taxiway Edge fitting - on existing CI housing box using 12" to 8" Mild steel 10 mm thick reducer plate inclusive of connection with secondary cable, transformer etc., including of providing necessary connectors, for incoming & outgoing etc. complete as required.	12.00	Each	10.00	3500.00	42000.00	8500.00	102000.00	7251.00	87012.00	1000.00	12000.00	1320.00	15840.00
1.04	Supply of Isolating transformer of 5 KV Grade suitable to operate upto 7.5 Watt, LED light of medium intensity light fitting encapsulated in polyester resin finally moulded in neoprene rubber with primary and secondary connection as specified in particular specifications. (a) 6.6A/6.6A of 15 W	175.00	Each	10.00	2600.00	455000.00	2750.00	481250.00	2472.00	432600.00	3000.00	525000.00	2472.00	432600.00
1.05	Supply of Isolating transformer of 5 KV Grade suitable to operate upto 80 Watt, LED Signage Board encapsulated in polyester resin finally moulded in neoprene rubber with primary and secondary connection as specified in particular specifications. (a) 6.6A/6.6A of 150 W	30.00	Each	10.00	4100.00	123000.00	4500.00	135000.00	3737.00	112110.00	4000.00	120000.00	4141.00	124230.00
1.06	Supply of following size 5KV grade PVC/XLPE insulated & PVC sheathed stranded copper conductor Airport lighting cable confirming IS 1554 (Part-II)/IS 7098 (Part-II) with upto date amendent and confirming to particular specification etc. as required. (a) 1X6 sqmm	9800.00	Metre	10.00	70.00	686000.00	68.00	666400.00	63.00	617400.00	80.00	784000.00	66.00	646800.00
1.07	Supply of following size 5KV grade PVC/XLPE insulated & PVC sheathed stranded copper conductor Airport lighting cable confirming IS 1554 (Part-II)/IS 7098 (Part-II) with upto date amendent and confirming to particular specification etc. as required. (b) 2X6 sqmm	1100.00	Metre	10.00	130.00	143000.00	185.00	203500.00	159.00	174900.00	155.00	170500.00	173.00	190300.00
1.08	Supply of following size of 1.1. KV grade multicore Copper Conductor XLPE insulated and PVC sheathed un-armoured cable as per IS 7098 (Part -I) : 1988 with upto date amendments, as required. (a) 4X4 Sqmm	610.00	Metre	10.00	145.00	88450.00	140.00	85400.00	139.00	84790.00	155.00	94550.00	182.00	111020.00
1.09	Supply of following size of 1.1. KV grade multicore Aluminium Conductor XLPE insulated and PVC sheathed armoured cable as per IS 7098 (Part -I) : 1988 with upto date amendments, as required. (a) 4X25 Sqmm	600.00	Metre	10.00	139.00	83400.00	135.00	81000.00	121.00	72600.00	175.00	105000.00	194.00	116400.00
1.10	Supplying and laying of 63 mm dia (OD-63 mm & ID-51/50 mm nominal) DWC HDPE pipe (PN8, PE 80 grade) ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground including excavation, trenching (75 cm deep) and refilling etc., complete as required.	4800.00	Metre	10.00	175.00	840000.00	150.00	720000.00	163.00	782400.00	155.00	744000.00	297.00	1425600.00
1.11	Supplying and laying of 25 mm dia PE 80 PN 10 HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 4984:2016 , complete with fitting and cutting, jointing etc. direct (75 cm deep) in ground including excavation trenching and refilling etc., complete as required.	610.00	Metre	10.00	275.00	167750.00	110.00	67100.00	159.00	96990.00	110.00	67100.00	179.00	109190.00
1.12	Laying of one number PVC/ XLPE insulated and PVC sheathed / XLPE power cable of 5 KV grade of following size in the existing RCC/ HUME/ METAL pipe/ HDPE Pipe as required. (a) 1X6 sqmm	6790.00	Metre	10.00	15.00	101850.00	15.00	101850.00	25.00	169750.00	20.00	135800.00	20.00	135800.00
1.13	Laying of one number PVC/ XLPE insulated and PVC sheathed / XLPE power cable of 5 KV grade of following size in the existing RCC/ HUME/ METAL pipe/ HDPE Pipe as required. (b) 2X6 sqmm	960.00	Metre	10.00	18.00	17280.00	15.00	14400.00	27.00	25920.00	20.00	19200.00	20.00	19200.00
1.14	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) 4C X 4sqmm	590.00	Metre	10.00	18.00	10620.00	15.00	8850.00	27.00	15930.00	10.00	5900.00	20.00	11800.00
1.15	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. (b) 4C X 25sqmm	30.00	Metre	10.00	18.00	540.00	15.00	450.00	30.00	900.00	20.00	600.00	28.00	840.00
1.16	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) 4C X 25sqmm	300.00	Metre	10.00	20.00	6000.00	15.00	4500.00	30.00	9000.00	20.00	6000.00	20.00	6000.00

1.17	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. (a) 4C X 25sqmm	200.00	Metre	10.00	250.00	50000.00	300.00	60000.00	283.00	56600.00	300.00	60000.00	275.00	55000.00
1.18	Supply of following 5KV grade plug & suitable receptacle (essna connector) of type-1 class B connector & suitable field attachment suitable for following size 5KV grade PVC insulated PVC sheathed single core stranded copper conductor cable confirming to IS:1554 (Part-II) with upto date amendment. (a) 6 sqmm	430.00	Set	10.00	475.00	204250.00	360.00	154800.00	400.00	172000.00	375.00	161250.00	390.00	167700.00
1.19	Making field connections by crimping of 6/16 sq.mm. plug & receptable with existing 6/16 sq.mm. single core PVC Cu. Conductor cable including filling the gap with water sealant material applying PVC insulation tape etc. complete as reqd.	400.00	Set	10.00	250.00	100000.00	100.00	40000.00	85.00	34000.00	80.00	32000.00	165.00	66000.00
1.20	Supply of C.I. Isolating Transformer housing box, water tight round type,metal container of outside size 330mm height 450mm made of 10mm thick cast iron moulding suitable to receive a light fitting base plate on the top and underground housing associated with transformer power cable and having a clear hole centre at one side surface centre 75mm above bottom surface suitable to receive one /two nos. of 50mm dia "B" class GI pipe and including check nuts as required and another hole at 175mm from the bottom of the CI Box to receive one no. 15mm dia "B" class GI pipe and check nut as required.The box should have two SS earth bolts of M10 x 30mm tapped inside near the hole (4" away from the hole centre) and having a drain hole at the bottom suitably tapped to receive 15mm dia "B" class GI pipe and having clear opening of 220 mm at the top surface and 6 nos. M10 tapped hole at the hole centre 260 mm to receive fitting base plate and bolts complete as required. (a) Single Hole Type	25.00	Each	10.00	3600.00	90000.00	4300.00	107500.00	4209.00	105225.00	4000.00	100000.00	4410.00	110250.00
1.21	Installation of Transformer housing boxes with a base concrete of 1:3:6 of size 630x630x100 mm thick all round concrete of 1:2:4, 150mm thick,the top sloped with 1:2:4 cement concrete including providing and fixing 250 mm long 15mm dia "B" class GI pipe with check nut for drainage of water including excavation of side shoulder and refilling (wherever the transformers boxes are to be installed in a line the same has to be aligned in such a way that the centre fall in a straight line) etc. complete as required.	25.00	Each	10.00	3500.00	87500.00	1500.00	37500.00	2323.00	58075.00	1800.00	45000.00	2530.00	63250.00
1.22	Providing, laying and fixing 50 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc. as required	100.00	Metre	10.00	450.00	45000.00	490.00	49000.00	563.00	56300.00	370.00	37000.00	536.00	53600.00
1.23	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	100.00	Metre	10.00	275.00	27500.00	110.00	11000.00	215.00	21500.00	110.00	11000.00	180.00	18000.00
1.24	Installation, Testing and commissioning of elevated type LED Taxi Light fitting on the existing transformer housing boxes including installation of transformer, lens, lamp gasket, nut bolts, lens holding clamp and other accessories i/c alignment, levelling, isolating transformer, connection, earth connection etc. complete as required.	152.00	Each	10.00	250.00	38000.00	100.00	15200.00	124.00	18848.00	200.00	30400.00	275.00	41800.00
1.25	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.	12.00	Each	10.00	8000.00	96000.00	6500.00	78000.00	6427.00	77124.00	5500.00	66000.00	4950.00	59400.00
1.26	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.	7000.00	Metre	10.00	12.00	84000.00	21.00	147000.00	23.00	161000.00	20.00	140000.00	36.00	252000.00
1.27	Supply installation testing and comissioning of indoor type aircooled FAA compliant Microprocessor based Constant current regulator of thyristor controlled type suitable for use on Input Supply voltage 230V/415 V +/-10%, 50 c/s input AC supply with out put power of following rating with 5 steps variation of current output suitable for local and remote control operations with 24/48 Volts integral control supply and complete with output digital ammeter of (0-30) Amps range, over current, over voltage, earth fault protection and earth leakage meter, possitive feedback indication equipments, complete with 5.0 KV grade suitable current transformers and relay contacts complete as required as per AAI specifications. (a) 7.5 KW MPCCR at 6.6 A, with 230 VAC tapping at 4 KW	2.00	Each	10.00	255000.00	510000.00	240000.00	480000.00	215225.00	430450.00	275000.00	550000.00	228000.00	456000.00
1.28	Supply of 2 X 105 W Inset Type bi-directional High Intensity Runway Edge light fittings, complete with prism assembly, optical assembly, 'O' ring seal pressure relief test plug, 6.6 A halogen lamp, filters (White/White), shallow base, die cast aluminium inner body & outer cover and other accessories etc. complete as required meeting requirement of ICAO Annex-14 and Aerodrome Design Manual Part -IV	3.00	Each	10.00	60000.00	180000.00	68000.00	204000.00	63211.00	189633.00	50000.00	150000.00	54208.00	162624.00

1.29	ITC of inset type light fixtures after making suitable size of hole / core cutting in the bitumin / pavement area of runway / RESA and fixing with dobefil and hardner inclusive of connection with secondary cable, transformer etc., including providing necessary connectors, mountings for incoming & outgoing etc. complete as required. Including surface cutting upto 1 meter length in taxiway/runway/apron of POC / bituminous upto 30 mm and width 15 mm for 1or 2 nos secondary lead including refilling the same by suitable sealing material etc. complete as required and as per instruction of E-I-C	3.00	Job	10.00	15000.00	45000.00	6000.00	18000.00	7562.00	22686.00	5000.00	15000.00	7700.00	23100.00
1.30	Supply, installation, testing, commissioning of Guidance Signage board (IP 65 protection) complying ICAO standard of various sizes fabricated from anodized aluminium profile structure & 2 mm thick aluminium sheet, 4mm thick non-specular surface polycarbonate signage sheet, symbols of sign shall be made of self-adhesive 3M film applied on face of polycarbonate sheet and All reflector sheet for light reflection if required. Board shall be illuminated with linear LED's & driver(s) i/c all other accessories, suitable converter to operate on two different circuits A&B seperately, of 2.8 Amp to 6.6 Amp AC constant current as incoming supply , mounting legs with breakable coupling & base frame, crimping & molding secondary leads with connector kit of OEM approved , supply & laying of PVC coated GI flexible pipe with couplers for protecting secondary leads, providing cement concrete foundation of suitable size & depth for each unit, providing pedestal up to 1.5mtr all around the signage with 1:2:4 CC of 150mm thick & finish with neat cement plaster, connections / interconnections with isolating transformers complete as required and confirming to tenders technical specifications etc. complete as required.	40.00	Sqm	10.00	51000.00	204000.00	36500.00	146000.00	43258.00	1730320.00	35000.00	1400000.00	39743.00	1589720.00
1.31	Excavation of the cable trenches in hard rock not exceeding 1.5 meter in width, and lift upto 1.5 meter, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meter.	250.00	cum	10.00	2200.00	550000.00	600.00	150000.00	663.00	165750.00	400.00	100000.00	715.00	178750.00
1.32	SITC of Elevated LED High Intensity runway guardlight with visors , for use on 230 Volt input power supply , flashing rate: 45-50 per minute i/c frangible support and High strength base plate for runway guard light to resist wind speed (300 mph) as per ICAO/FAA specification as relevant.	8.00	Each	10.00	165000.00	1320000.00	185000.00	1480000.00	173226.00	1385808.00	175000.00	1400000.00	165352.00	1322816.00
1.33	Providing and fixing following rating and breaking capacity and pole MCCB with Adjustable Thermal Setting and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.(Ics=100% Icu) (a) 63A 25KA 4Pole	2.00	Each	10.00	8500.00	17000.00	4000.00	8000.00	4653.00	9306.00	7947.50	15895.00	5400.00	10800.00

Total in Figures

9479540.00

8658100.00

8603563.00

8155555.00

8959286.00

Lowest Amount Quoted BY: JATINDER CONSTRUCTION COMPANY PRIVATE

Signature Not Verified

Digitally signed by Anand Gupta
Date: 2020.04.13 15:20:23 IST
Location: eProcurement System for Central PSUs