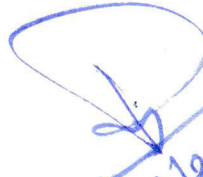


Justification Statement

Name of work : Modification of existing threshold - cum - end light.
Inset fittings at Runway 06 beginning at Mangalore
International Airport


6/2/2020
Sanyal

S. Sanyal
06/02/2020
Amm(E-4)

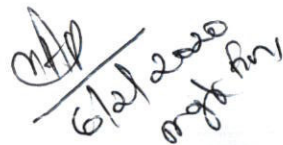

6/2/20
Sanyal

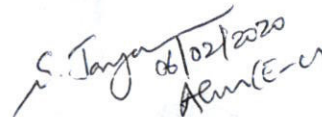
Justification Statement

Name of work: Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport.

S.No.	Description	Qty	Unit	Rate excluding GST	Amount
1	Supply of bi-directional inset type high intensity runway edge light fitting for runway edge lightings including one no amber filter/amber coloured prism at one side and white on other side as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 3 nos 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (one no as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as per below requirement 1 nos suitable for installation on the left of the rwy centerline (refer technical specification)	1	Each	75829.00	75829.00
2	Supply of uni directional inset type high intensity runway threshold light fitting including green filters/green prisms for runway threshold lightings as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 4nos 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (two lamp as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as below requirement 4 nos suitable for installation on the left of the rwy centerline (refer technical specification) and 4 Nos suitable for installation on the right of runway centerline (refer technical specification)	8	Each	77770.00	622160.00
3	Supply of bidirectional inset type high intensity runway threshold cum end light fitting including green filters/green coloured prisms for runway threshold lightings and red filters/red coloured prisms for runway end lightings as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 5 nos of 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (two lamp as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as per below requirement: 6 nos suitable for installation on the left of the rwy centerline (refer technical specification) and 6 Nos suitable for installation on the right of runway centerline (refer technical specification)	12	Each	119297.00	1431564.00


6/12/2020
Ammu


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6/12/2020
Ammu(E-U)

S.No.	Description	Qty	Unit	Rate excluding GST	Amount
4	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Amber colour	1	Each	5640.00	5640.00
5	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Red colour	3	Each	5640.00	16920.00
6	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Green colour	5	Each	5640.00	28200.00
7	Installation of inset light fittings (mentioned in item no 1, 2 & 3) including fixing of inset light housing box in the concrete runway by core cutting the runway with suitable core cutting machine tool for the required size for fixing the inset housing box, alignment of the box to match the runway surface, fixing it using cement concrete / quick setting sealant compounds, supply and fixing of factory made two pin secondary plug assembly on one side of the secondary lead for connecting to isolation transformer and receptacle assembly on other side for connecting to inset light fitting, making all electrical connections, fixing the inset light fixture to the box, making good the runway to the original shape and strength, testing and commissioning of the whole inset fittings etc complete as required.	20	Each	4214.00	84280.00
8	Installation of inset light fittings (mentioned in item no 1, 2 & 3) including fixing of inset housing box on concrete runway on removed inset fitting location, alignment of box to match the runway surface, fixing it using cement concrete / quick setting sealant compounds, supply and fixing of factory made two pin secondary plug assembly on one side of the secondary lead for connecting to isolation transformer and receptacle assembly on other for connecting to inset light fitting, making all electrical connections, fixing the inset light fixture to the box, making good the runway to the original shape and strength, testing and commissioning of the whole inset fittings etc complete as required.	11	Each	1400.00	15400.00
9	Supply of 5 KV grade 50Hz series type isolating transformers following capacity and type of fittings/lamp lights encapsulated in polyester resin finally mould in neoprene type rubber with primary & secondary connections and ready to install etc. complete as required. - 200 watts 20/6.6 amps suitable for 2 x 105W runway inset type threshold fittings	8	Each	3565.00	28520.00
10	Supply of 5 KV grade 50Hz series type isolating transformers following capacity and type of fittings/lamp lights encapsulated in polyester resin finally mould in neoprene type rubber with primary & secondary connections and ready to install etc. complete as required. - 300 Watts 20/6.6 Amps suitable for 3 x 105W runway inset type threshold cum end fittings	12	Each	6863.00	82356.00

S. Jayaraj 06/02/2020
Amc(E-C)

S.No.	Description	Qty	Unit	Rate excluding GST	Amount
11	Supply of 1.1 KV grade EPR insulated PCP/TPE sheathed secondary lead airfield lighting cable of size 2 x 2.5 Sq.mm having multistranded tinned copper conductor and colour coded core for connecting between isolation transformer and Inset light fitting complete as required.	606	Meter	91.00	55146.00
12	Supply of 5 KV grade plug and receptacle of type-I class "B" connector suitable for field attachment with 5 KV grade of 16 Sq.mm PVC insulated PVC sheathed single core copper conductor cable conforming to the relevant ISI specification etc. complete as required.	20	Each	607.00	12140.00
13	Making field connections by crimping 6/16.sq.mm plug and receptacle with the existing 6/16 sq.mm single core airfield cable including filling the gap with water sealant material, covering with HT insulation tape over which PVC tape is to be wound etc., complete as required.	20	Each	268.00	5360.00
14	Supplying and laying of 25mm size ISI marked B class GI pipe and accessories for taking secondary lead wire from inset fittings to the transformer housing box installed outside the runway shoulder by chase cutting the concrete runway with suitable chase cutting tools at a required depth to match the cable entry hole of inset housing box and width to accommodate the pipe including smooth bending of pipe as per requirement, chipping the slot, alignment and fixing the pipe including connecting to inset light shallow box using coupling/connectors etc as per requirement, closing the slot with cement concrete and other quick setting sealant materials to match the existing runway level, removal of the debris from the site, etc complete as required.	430	Meter	1290.00	554700.00
15	Supplying and laying of 25mm size ISI marked B class GI pipe and accessories including excavation of earth at suitable depth and width to accommodate the 25mm GI pipe coming from the inset light fixture, connecting the other end to the isolation transformer box provided for inset light, removing of existing GI pipes if any, refilling the excavated portion after fixing the pipe, ramming and leveling of excavated area etc complete as required.	100	Meter	276.00	27600.00
16	Removal of inset light fittings including shallow housing box from different locations in runway/operational area including dismantling of all round concrete foundation of housing box, refilling of excavated concrete runway portion with cement concrete and or suitable quick setting sealant upto existing level of runway and matching with runway surface, making good the runway to the original shape and strength, removal of all the debris from site, transportation of whole fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	20	Each	1279.00	25580.00

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6/2/2020
Amr (E-1)

S.No.	Description	Qty	Unit	Rate excluding GST	Amount
17	Removal of inset light fittings including shallow housing box from different locations in runway/taxiway/edge area including dismantling of all round concrete foundation of housing box, removal of all the debris from site, transportation of fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	11	Each	949.00	10439.00
18	Removal of old isolation transformer housing boxes from different locations in runway/taxiway/edge area after dismantling of all round concrete foundation, refilling of excavated concrete runway portion with cement concrete and or suitable quick setting sealant upto existing level of runway and matching with runway surface, making good the runway to the original shape and strength, removal of all the debris from site, transportation of fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	2	Each	2179.00	4358.00
19	Removal of old isolation transformer housing boxes from different locations in runway/taxiway/edge area including dismantling all round concrete, removal of housing box after disconnecting and removing all electrical connections, cutting the housing box up to the required depth to accommodate collars, repositioning the housing box and collar in the earlier position, alignment so that top of collars including dummy pate matches with the runway surface, fixing the housing box and collar in the runway shoulder including refilling of whole excavated concrete and or quick setting sealant smoothening the top of collar to match with the runway surface, making good the runway to the original shape and strength, making all electrical connections, testing and commissioning of electrical circuit, removal of all the debris from site, as per the direction of Engineer in Charge complete as required.	3	Each	2607.00	7821.00
20	Laying of one number PVC/ XLPE insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existing HDPE/RCC/HUME/ STONEWARE/METAL pipe as required. Upto 35 sqmm	530	Meters	27.00	14310.00
21	Numbering / nomenclature using stencil the existing runway / taxiway / turning pad / isolation bay / apron edge light fitting after providing a round back ground with runway yellow enamel paint and stenciling with black enamel paint on it etc. completed as required as per direction of Engineer-in-Charge	620	Nos	46.00	28520.00
	Total excluding GST				3136843.00
	Say				3136843.00

(Rupees Thirty One Lakhs Thirty Six Thousand Eight Hundred and Fourty Three Only

GST will be paid as per actual on receipt of original GST invoice at the time of making payments

Harish Kumar Ushalinga
6/2/2020
Jr. Executive (Engg-E)
AAI, Mangaluru Intl. Airport

6/2/2020
6/2/2020

6/2/2020
6/2/2020

Asst. Gen. Manager (Engg-E)
AAI, Mangaluru Intl. Airport
5/2/2020

Government eProcurement System Created By: RAM MOHAN S Created Date/Time: 10-Feb-2020 11:31 AM Tender Title: Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport. Tender ID: 2020_AAI_39600_1
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Tender Inviting Authority: Asst. Gen. Manager (Engg E), AAI Mangaluru, Airport.

Name of Work: Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport.

Tender ID 2020_AAI_39600_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	AMA Private Limited		Manish Electricals	
					Rate	Amount	Rate	Amount
1.00	Supply of bi-directional inset type high intensity runway edge light fitting for runway edge lightings including one no amber filter/amber coloured prism at one side and white on other side as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 3 nos 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (one no as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as per below requirement 1 nos suitable for installation on the left of the rwy centerline (refer technical specification)	1.00	Each	0.00	66000.00	66000.00	62000.00	62000.00
2.00	Supply of uni directional inset type high intensity runway threshold light fitting including green filters/green prisms for runway threshold lightings as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 4nos 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (two lamp as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as below requirement 4 nos suitable for installation on the left of the rwy centerline (refer technical specification) and 4 Nos suitable for installation on the right of runway centerline (refer technical specification)	8.00	Each	0.00	60000.00	480000.00	61750.00	494000.00

L1 Amount	L1 Vendor
62000.00	Manish Electricals
480000.00	AMA Private Limited

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	AMA Private Limited		Manish Electricals		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount		
3.00	Supply of bidirectional inset type high intensity runway threshold cum end light fitting including green filters/green coloured prisms for runway threshold lightings and red filters/red coloured prisms for runway end lightings as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 5 nos of 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (two lamp as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as per below requirement: 6 nos suitable for installation on the left of the rwy centerline (refer technical specification) and 6 Nos suitable for installation on the right of runway centerline (refer technical specification)	12.00	Each	0.00	67000.00	804000.00	69000.00	828000.00	804000.00	AMA Private Limited
4.00	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Amber colour	1.00	Each	0.00	7850.00	7850.00	7500.00	7500.00	7500.00	Manish Electricals
5.00	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Red colour	3.00	Each	0.00	8690.00	26070.00	7500.00	22500.00	22500.00	Manish Electricals
6.00	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Green colour	5.00	Each	0.00	7500.00	37500.00	7500.00	37500.00	37500.00	Manish Electricals, AMA Private Limited
7.00	Installation of inset light fittings (mentioned in item no 1, 2 & 3) including fixing of inset light housing box in the concrete runway by core cutting the runway with suitable core cutting machine tool for the required size for fixing the inset housing box, alignment of the box to match the runway surface, fixing it using cement concrete / quick setting sealant compounds, supply and fixing of factory made two pin secondary plug assembly on one side of the secondary lead for connecting to isolation transformer and receptacle assembly on other side for connecting to inset light fitting, making all electrical connections, fixing the inset light fixture to the box, making good the runway to the original shape and strength, testing and commissioning of the whole inset fittings etc complete as required.	20.00	Each	0.00	11400.00	228000.00	9000.00	180000.00	180000.00	Manish Electricals

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	AMA Private Limited		Manish Electricals	
					Rate	Amount	Rate	Amount
8.00	Installation of inset light fittings (mentioned in item no 1, 2 & 3) including fixing of inset housing box on concrete runway on removed inset fitting location, alignment of box to match the runway surface, fixing it using cement concrete / quick setting sealant compounds, supply and fixing of factory made two pin secondary plug assembly on one side of the secondary lead for connecting to isolation transformer and receptacle assembly on other for connecting to inset light fitting, making all electrical connections, fixing the inset light fixture to the box, making good the runway to the original shape and strength, testing and commissioning of the whole inset fittings etc complete as required.	11.00	Each	0.00	11400.00	125400.00	9000.00	99000.00
9.00	Supply of 5 KV grade 50Hz series type isolating transformers following capacity and type of fittings/lamp lights encapsulated in polyester resin finally mould in neoprene type rubber with primary & secondary connections and ready to install etc. complete as required. - 200 watts 20/6.6 amps suitable for 2 x 105W runway inset type threshold fittings	8.00	Each	0.00	4500.00	36000.00	4400.00	35200.00
10.00	Supply of 5 KV grade 50Hz series type isolating transformers following capacity and type of fittings/lamp lights encapsulated in polyester resin finally mould in neoprene type rubber with primary & secondary connections and ready to install etc. complete as required. - 300 Watts 20/6.6 Amps suitable for 3 x 105W runway inset type threshold cum end fittings	12.00	Each	0.00	6100.00	73200.00	6000.00	72000.00
11.00	Supply of 1.1 KV grade EPR insulated PCP/TPE sheathed secondary lead airfield lighting cable of size 2 x 2.5 Sq.mm having multistranded tinned copper conductor and colour coded core for connecting between isolation transformer and Inset light fitting complete as required.	606.00	Meter	0.00	95.00	57570.00	250.00	151500.00
12.00	Supply of 5 KV grade plug and receptacle of type-I class "B" connector suitable for field attachment with 5 KV grade of 16 Sq.mm PVC insulated PVC sheathed single core copper conductor cable conforming to the relevant ISI specification etc. complete as required.	20.00	Each	0.00	525.00	10500.00	450.00	9000.00
13.00	Making field connections by crimping 6/16.sq.mm plug and receptacle with the existing 6/16 sq.mm single core airfield cable including filling the gap with water sealant material, covering with HT insulation tape over which PVC tape is to be wound etc., complete as required.	20.00	Each	0.00	300.00	6000.00	250.00	5000.00

L1 Amount	L1 Vendor
99000.00	Manish Electricals
35200.00	Manish Electricals
72000.00	Manish Electricals
57570.00	AMA Private Limited
9000.00	Manish Electricals
5000.00	Manish Electricals

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	AMA Private Limited		Manish Electricals	
					Rate	Amount	Rate	Amount
14.00	Supplying and laying of 25mm size ISI marked B class GI pipe and accessories for taking secondary lead wire from inset fittings to the transformer housing box installed outside the runway shoulder by chase cutting the concrete runway with suitable chase cutting tools at a required depth to match the cable entry hole of inset housing box and width to accommodate the pipe including smooth bending of pipe as per requirement, chipping the slot, alignment and fixing the pipe including connecting to inset light shallow box using coupling/connectors etc as per requirement, closing the slot with cement concrete and other quick setting sealant materials to match the existing runway level, removal of the debris from the site, etc complete as required.	430.00	Meter	0.00	300.00	129000.00	575.00	247250.00
15.00	Supplying and laying of 25mm size ISI marked B class GI pipe and accessories including excavation of earth at suitable depth and width to accommodate the 25mm GI pipe coming from the inset light fixture, connecting the other end to the isolation transformer box provided for inset light, removing of existing GI pipes if any, refilling the excavated portion after fixing the pipe, ramming and leveling of excavated area etc complete as required.	100.00	Meter	0.00	350.00	35000.00	575.00	57500.00
16.00	Removal of inset light fittings including shallow housing box from different locations in runway/operational area including dismantling of all round concrete foundation of housing box, refilling of excavated concrete runway portion with cement concrete and or suitable quick setting sealant upto existing level of runway and matching with runway surface, making good the runway to the original shape and strength, removal of all the debris from site, transportation of whole fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	20.00	Each	0.00	3500.00	70000.00	1500.00	30000.00
17.00	Removal of inset light fittings including shallow housing box from different locations in runway/taxiway/edge area including dismantling of all round concrete foundation of housing box, removal of all the debris from site, transportation of fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	11.00	Each	0.00	3500.00	38500.00	4500.00	49500.00
18.00	Removal of old isolation transformer housing boxes from different locations in runway/taxiway/edge area after dismantling of all round concrete foundation, refilling of excavated concrete runway portion with cement concrete and or suitable quick setting sealant upto existing level of runway and matching with runway surface, making good the runway to the original shape and strength, removal of all the debris from site, transportation of fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	2.00	Each	0.00	2400.00	4800.00	4000.00	8000.00

L1 Amount	L1 Vendor
129000.00	AMA Private Limited
35000.00	AMA Private Limited
30000.00	Manish Electricals
38500.00	AMA Private Limited
4800.00	AMA Private Limited

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	AMA Private Limited		Manish Electricals	
					Rate	Amount	Rate	Amount
19.00	Removal of old isolation transformer housing boxes from different locations in runway/taxiway/edge area including dismantling all round concrete, removal of housing box after disconnecting and removing all electrical connections, cutting the housing box up to the required depth to accommodate collars, repositioning the housing box and collar in the earlier position, alignment so that top of collars including dummy pate matches with the runway surface, fixing the housing box and collar in the runway shoulder including refilling of whole excavated concrete and or quick setting sealant smoothening the top of collar to match with the runway surface, making good the runway to the original shape and strength, making all electrical connections, testing and commissioning of electrical circuit, removal of all the debris from site, as per the direction of Engineer in Charge complete as required.	3.00	Each	0.00	2400.00	7200.00	4800.00	14400.00
20.00	Laying of one number PVC/ XLPE insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existing HDPE/RCC/HUME/ STONEWARE/METAL pipe as required. Upto 35 sqmm	530.00	Meters	0.00	50.00	26500.00	23.00	12190.00
21.00	Numbering / nomenclature using stencil the existing runway / taxiway / turning pad / isolation bay / apron edge light fitting after providing a round back ground with runway yellow enamel paint and stenciling with black enamel paint on it etc. completed as required as per direction of Engineer-in-Charge	620.00	Nos	0.00	145.00	89900.00	90.00	55800.00

L1 Amount	L1 Vendor
7200.00	AMA Private Limited
12190.00	Manish Electricals
55800.00	Manish Electricals

Total in Figures

2358990.00

2477840.00

Lowest Amount Quoted BY: AMA Private Limited(2358990.00)

BOQ Summary Details

Tender Title: Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport.

Tender ID: 2020_AAI_39600_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	AMA Private Limited	2358990.00	L1
	2	Manish Electricals	2477840.00	L2

Comparative statement

Name of work : Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport.

Bid No.2020_AAI_39600_1

Date of Financial Bid Opening : 10.02.2020 at 11.30 hrs

Sl.No	Description	Unit	Qty	Justified		M/s AMA Pvt Ltd, Mumbai		M/s Manish Electricals,Gwalior	
				Rate	Amount	Rate	Amount	Rate	Amount
1	Supply of bi-directional inset type high intensity runway edge light fitting for runway edge lightings including one no amber filter/amber coloured prism at one side and white on other side as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 3 nos 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (one no as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as per below requirement 1 nos suitable for installation on the left of the rwy centerline (refer technical specification)	Each	1.00	75829.00	75829.00	66000.00	66000.00	62000.00	62000.00
2	Supply of uni directional inset type high intensity runway threshold light fitting including green filters/green prisms for runway threshold lightings as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 4nos 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (two lamp as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as below requirement 4 nos suitable for installation on the left of the rwy centerline (refer technical specification) and 4 Nos suitable for installation on the right of runway centerline (refer technical specification)	Each	8.00	77770.00	622160.00	60000.00	480000.00	61750.00	494000.00
3	Supply of bidirectional inset type high intensity runway threshold cum end light fitting including green filters/green coloured prisms for runway threshold lightings and red filters/red coloured prisms for runway end lightings as per ICAO aviation visual aids requirements complete with shallow base and matching body of the fitting, inner body and outer cover made of dia cast aluminium complete with 5 nos of 105 Watts, 6.6 amps pre-focused reflector halogen lamp with connected heat resistant accessories (two lamp as spare), prism assembly, optical assembly, 'O' ring seal, pressure relief test plug, clear lenses and all standard hardware and accessories ready for site installation etc complete as required as per below requirement: 6 nos suitable for installation on the left of the rwy centerline (refer technical specification) and 6 Nos suitable for installation on the right of runway centerline (refer technical specification)	Each	12.00	119297.00	1431564.00	67000.00	804000.00	69000.00	828000.00
4	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Amber colour	Each	1.00	5640.00	5640.00	7850.00	7850.00	7500.00	7500.00
5	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Red colour	Each	3.00	5640.00	16920.00	8690.00	26070.00	7500.00	22500.00
6	Supply of following coloured filters/coloured prisms as per OEMs standard suitable to use as spares for the inset light fixture mentioned in item no 1 to 3 with all standard hardware and accessories ready for site installation etc complete as required. - Green colour	Each	5.00	5640.00	28200.00	7500.00	37500.00	7500.00	37500.00
7	Installation of inset light fittings (mentioned in item no 1, 2 & 3) including fixing of inset light housing box in the concrete runway by core cutting the runway with suitable core cutting machine tool for the required size for fixing the inset housing box, alignment of the box to match the runway surface, fixing it using cement concrete / quick setting sealant compounds, supply and fixing of factory made two pin secondary plug assembly on one side of the secondary lead for connecting to isolation transformer and receptacle assembly on other side for connecting to inset light fitting, making all electrical connections, fixing the inset light fixture to the box, making good the runway to the original shape and strength, testing and commissioning of the whole inset fittings etc complete as required.	Each	20.00	4214.00	84280.00	11400.00	228000.00	9000.00	180000.00

Sl.No	Description	Unit	Qty	Justified		M/s AMA Pvt Ltd, Mumbai		M/s Manish Electricals,Gwalior	
				Rate	Amount	Rate	Amount	Rate	Amount
8	Installation of inset light fittings (mentioned in item no 1, 2 & 3) including fixing of inset housing box on concrete runway on removed inset fitting location, alignment of box to match the runway surface, fixing it using cement concrete / quick setting sealant compounds, supply and fixing of factory made two pin secondary plug assembly on one side of the secondary lead for connecting to isolation transformer and receptacle assembly on other for connecting to inset light fitting, making all electrical connections, fixing the inset light fixture to the box, making good the runway to the original shape and strength, testing and commissioning of the whole inset fittings etc complete as required.	Each	11.00	1400.00	15400.00	11400.00	125400.00	9000.00	99000.00
9	Supply of 5 KV grade 50Hz series type isolating transformers following capacity and type of fittings/lamp lights encapsulated in polyester resin finally mould in neoprene type rubber with primary & secondary connections and ready to install etc. complete as required. - 200 watts 20/6.6 amps suitable for 2 x 105W runway inset type threshold fittings	Each	8.00	3565.00	28520.00	4500.00	36000.00	4400.00	35200.00
10	Supply of 5 KV grade 50Hz series type isolating transformers following capacity and type of fittings/lamp lights encapsulated in polyester resin finally mould in neoprene type rubber with primary & secondary connections and ready to install etc. complete as required. - 300 Watts 20/6.6 Amps suitable for 3 x 105W runway inset type threshold cum end fittings	Each	12.00	6863.00	82356.00	6100.00	73200.00	6000.00	72000.00
11	Supply of 1.1 KV grade EPR insulated PCP/TPE sheathed secondary lead airfield lighting cable of size 2 x 2.5 Sq.mm having multistranded tinned copper conductor and colour coded core for connecting between isolation transformer and Inset light fitting complete as required.	Meter	606.00	91.00	55146.00	95.00	57570.00	250.00	151500.00
12	Supply of 5 KV grade plug and receptacle of type-I class "B" connector suitable for field attachment with 5 KV grade of 16 Sq.mm PVC insulated PVC sheathed single core copper conductor cable conforming to the relevant ISI specification etc. complete as required.	Each	20.00	607.00	12140.00	525.00	10500.00	450.00	9000.00
13	Making field connections by crimping 6/16.sq.mm plug and receptacle with the existing 6/16 sq.mm single core airfield cable including filling the gap with water sealant material, covering with HT insulation tape over which PVC tape is to be wound etc., complete as required.	Each	20.00	268.00	5360.00	300.00	6000.00	250.00	5000.00
14	Supplying and laying of 25mm size ISI marked B class GI pipe and accessories for taking secondary lead wire from inset fittings to the transformer housing box installed outside the runway shoulder by chase cutting the concrete runway with suitable chase cutting tools at a required depth to match the cable entry hole of inset housing box and width to accommodate the pipe including smooth bending of pipe as per requirement, chipping the slot, alignment and fixing the pipe including connecting to inset light shallow box using coupling/connectors etc as per requirement, closing the slot with cement concrete and other quick setting sealant materials to match the existing runway level, removal of the debris from the site, etc complete as required.	Meter	430.00	1290.00	554700.00	300.00	129000.00	575.00	247250.00
15	Supplying and laying of 25mm size ISI marked B class GI pipe and accessories including excavation of earth at suitable depth and width to accommodate the 25mm GI pipe coming from the inset light fixture, connecting the other end to the isolation transformer box provided for inset light, removing of existing GI pipes if any, refilling the excavated portion after fixing the pipe, ramming and leveling of excavated area etc complete as required.	Meter	100.00	276.00	27600.00	350.00	35000.00	575.00	57500.00

Sl.No	Description	Unit	Qty	Justified		M/s AMA Pvt Ltd, Mumbai		M/s Manish Electricals,Gwalior	
				Rate	Amount	Rate	Amount	Rate	Amount
16	Removal of inset light fittings including shallow housing box from different locations in runway/operational area including dismantling of all round concrete foundation of housing box, refilling of excavated concrete runway portion with cement concrete and or suitable quick setting sealant upto existing level of runway and matching with runway surface, making good the runway to the original shape and strength, removal of all the debris from site, transportation of whole fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	Each	20.00	1279.00	25580.00	3500.00	70000.00	1500.00	30000.00
17	Removal of inset light fittings including shallow housing box from different locations in runway/taxiway/edge area including dismantling of all round concrete foundation of housing box, removal of all the debris from site, transportation of fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	Each	11.00	949.00	10439.00	3500.00	38500.00	4500.00	49500.00
18	Removal of old isolation transformer housing boxes from different locations in runway/taxiway/edge area after dismantling of all round concrete foundation, refilling of excavated concrete runway portion with cement concrete and or suitable quick setting sealant upto existing level of runway and matching with runway surface, making good the runway to the original shape and strength, removal of all the debris from site, transportation of fittings to AAI store, stacking etc. as per the direction of Engineer in Charge complete as required.	Each	2.00	2179.00	4358.00	2400.00	4800.00	4000.00	8000.00
19	Removal of old isolation transformer housing boxes from different locations in runway/taxiway/edge area including dismantling all round concrete, removal of housing box after disconnecting and removing all electrical connections, cutting the housing box up to the required depth to accommodate collars, repositioning the housing box and collar in the earlier position, alignment so that top of collars including dummy pate matches with the runway surface, fixing the housing box and collar in the runway shoulder including refilling of whole excavated concrete and or quick setting sealant smoothening the top of collar to match with the runway surface, making good the runway to the original shape and strength, making all electrical connections, testing and commissioning of electrical circuit, removal of all the debris from site, as per the direction of Engineer in Charge complete as required.	Each	3.00	2607.00	7821.00	2400.00	7200.00	4800.00	14400.00
20	Laying of one number PVC/ XLPE insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existing HDPE/RCC/HUME/ STONEWARE/METAL pipe as required. Upto 35 sqmm	Meters	530.00	27.00	14310.00	50.00	26500.00	23.00	12190.00
21	Numbering / nomenclature using stencil the existing runway / taxiway / turning pad / isolation bay / apron edge light fitting after providing a round back ground with runway yellow enamel paint and stenciling with black enamel paint on it etc. completed as required as per direction of Engineer-in-Charge	Nos	620.00	46.00	28520.00	145.00	89900.00	90.00	55800.00
A	Total				3136843.00		2358990.00		2477840.00
B	Grand Total				3136843.00		2358990.00		2477840.00
							-24.80%		-21.01%
							L1		L2

Certified that I have personally conducted check of all quotations duly computed checked and satisfied myself that the checking work been properly done and the rates quoted by the contractor ie. totals are carried over correctly in the comparative statement.

Signature of the Asst.Gen.Manager (E-E)
Certified that I have personally conducted a test check of the computed & checked tenders forwarded by Deptt. Of Engg. And satisfied myself that the checking work has been properly done.

Signature of the AGM (Finance)

MEMO FORWARDING e-TENDERS TO HIGHER AUTHORITIES

1	Name of work	:	<i>Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport.</i>
2	Ref. to Admn. Approval & Expenditure sanction	:	<i>AAI/ML/ENGG(E)/2019-20/09 Date: 03.12.2019 Rs.32,23,502/-</i>
	(i) No. & Date	:	
	(ii) Amount	:	
	(iii) Proportionate amount available for the work included in the present Tenders	:	<i>Budget A3 AS scheme S.No.21 of Rs 5 Lakh</i>
3	Ref. To Tech Sanction		<i>AAI/ ML/ENGG(E)/TS/10 dt: 06.12.2019 Rs. 31,36,843/-</i>
	(i) No. & Date	:	
	(ii) Amount	:	
4	Scope of work for which Tenders have been called for clearly indicating the items omitted from the sanction estimate	:	<i>SITC of inset type end cum threshold and threshold fixtures and associated works as per BOQ.</i>
5	Ref. To Approval of NIT		
	(i) Authority	:	<i>Asst. Gen. Manager, Engg (E) Mangaluru International Airport.</i>
	(ii) Date	:	<i>AAI/ML/ENGG (E)/AGM (E)/ NIT-03/2019 dt: 07.01.2020</i>
	(iii) Est. Amount put to Tender	:	<i>Rs. 31,36,843/-</i>
6	Ref. To Publicity		
	(i) Date on which notice inviting Tender was placed on notice Board	:	<i>07.01.2020</i>
	(ii) Date of which it was circulated to other offices	:	<i>07.01.2020 (Through CPP Portal, AAI website)</i>
	(iii) Name of News papers (with dates) in which the notice inviting Tender was actually advertised	:	<i>NA</i>

7	(i) The date and time at which Tender were due to be received	:	17.01.2020 upto 18:00 hrs.		
	(ii) Postponed date and time if any	:	31.01.2020 upto 18:00 hrs		
	(iii) Reasons for postponement	:	To get more bid to increase the competition		
	(iv) Reference to publicity in regard to postponement of tenders	:	E-tender portal		
8	The date from which Tenders were available for sale contractors	:	07.01.2020		
9	Particulars of contractors to whom Tender were sold quoting authority for issue of tenders	:	Nil		
10. Sl. No	Name of contractor	Class in which registered	Departme nt in which enlisted	Date of issue of Tenders	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1	M/s AMA Pvt Ltd, Mumbai	Specialized Agency		17.01.2020	
2	M/s Manish Electricals, Gwalior	Specialized Agency		17.01.2020	
3	M/s Sri Skanda Consultancy, Mangalore	Specialized Agency		17.01.2020	
10	Opening of Tenders		:		
	(i) Date and time at which Tenders were due to be open(Financial Bid)	:	Price bid –07.02.2020 at 15.30 hrs		
	a) Date and time at which Tenders were actually opened(Financial Bid)	:	Price bid –10.02.2020 at 11:00hrs		
	b) Name and Designation of officers who actually opened the Tenders (price bid)	:	1. Sh. S Ram Mohan, Asst.Gen. Manager (E.E) 2. Sh. Praveen, Manager (F)		
	c) Name of contractors present at the time of opening of Tenders	:	NIL		
	(ii) Name and designation of any other person present	:	NIL		

Contd..3

POSITION OF TENDERS RECEIVED

Sl.No (i)	Name of contractor (ii)	Amount Excluding. GST (iii)	% age above or below the justified cost (excl. GST) (iv)
1	M/s AMA Pvt Ltd, Mumbai	Rs. 23,58,990/-	24.80 % Below
2	M/s Manish Electricals, Gwalior	Rs. 24,77,840/-	21.01 % Below
12.	(i) Justified percentage as worked by AAI	:	Rs. 31,36,843/- (excluding GST)
13.	Date on which validity of Tenders expires	:	90 DAYS from date of opening. (i.e.- on 09.05.2020)
14.	Remarks & Recommendations of the Executive Engineer	:	
	(i) Available of site	:	Yes
	(ii) Available of stipulated materials	:	N/A
	(iii) Approval of layout plans	:	-
	(iv) Approval to building, plans clearance from local body	:	N/A
	(v) Comments on the capabilities of three lowest Tenders including their financial and technical resources	:	Capable
	(vi) Is this the first call of Tenders? If not details of previous calls and results	:	Tender was called for the same work earlier. (tender ID No 2019_AAI_34761_1). The tender was cancelled without opening the financial bid as registration certificate was sought in NIT erroneously which is not required for specialized nature of work.
15	Justification Based on market rate.		
16	Comments on the Tenders: Tender was floated for the above said work on 07.01.2020. Cover-I (Hard Copy) was opened on 06.02.2020 and Cover-II (Prequalification Bid and Technical Bid) was opened on 06.02.2020 out of three agencies who participated two were qualified for the Cover-III opening. Cover-III (Financial Bid) was opened on 10.02.2020. The comparative statement was prepared with justification cost as the base (comparative statement including portal generated is enclosed). The offer of M/s AMA Pvt Ltd, Mumbai who quoted Rs. 23,58,990/- i.e. 24.80% below the justified cost of Rs. 31,36,843/- is the lowest. (without GST). The amount for this work can be realized from the budget A3 AS scheme S.No.21 of Rs 5 Lakh is available under the head “Modification of existing threshold-cum-end light inset fittings at runway 06 beginning at Mangaluru International Airport”. In RE 19-20 the amount earmarked is Rs 2.0 Lakhs and in BE 20-21 is yet to receive. The rest of the amount can be sought in subsequent budgets. Hence financial concurrence for an amount of Rs. 23,58,990/- without GST (Rupees Twenty Three Thousand Fifty Eight Thousand Nine Hundred and Ninety Only) plus applicable GST, may be accorded for awarding the work to the lowest bidder i.e to M/s AMA Pvt Ltd, Mumbai Vide D.O.P.8.5(a). Submitted for approval and forwarding please. Asst.Gen.Manager (Engg.E) AAI, Mangaluru Intl. Airport		