

**MUMBAI PORT AUTHORITY
MECHANICAL & ELECTRICAL ENGINEERING DEPARTMENT**

TENDER No. MEED 27/2023

PROVISION OF FACADE LIGHTING AT PORT BHAVAN AND EVELYN GUEST HOUSE.

Venue: 1st Floor, ABB building

Date & Time: 12.02.2024 at 1530 hours

PRE-BID QUERIES & THEIR REPLIES

Sr. No	Reference Clause No.	Description as per tender document	Pre-Bid Queries raised by Bidders	MbPA Reply
1.	Sl. No. 2 of BOQ	Supply & delivery of LED Façade Light 30W with RGBWW	27W to 30W Façade light to be acceptable	Both are acceptable.
2.	Sl. No. 3 of BOQ	Supply & delivery of LED Wall washer 18 X 8W RGBWW	We are suggesting to go with 80W of linear wall washer of 1m length for this kind of application, linear product is suggested with lumen output of minimum 3200 lumens	80W of linear wall washer of 1m length with lumen output of minimum 3200 lumens is acceptable. For LED Wall washer 18 X 8W RGBWW lumen output shall be minimum 35 lumens per watt
3.	Sl. No. 4 of BOQ	Supply & delivery of LED Wall washer 9 X 8W RGBWW	We are suggesting to go with 40W of linear wall washer of 500mm length for this kind of application, linear product is suggested with lumen output of minimum 1600 lumens	40W of linear wall washer of 500mm length with lumen output of minimum 1600 lumens is acceptable. For LED Wall washer 9 X 8W RGBWW lumen output shall be minimum 35 lumens per watt
4.	Sl. No. 17 of BOQ	Supply & delivery of LED Façade Light 30W with RGBWW	27W to 30W Façade light to be acceptable	Please refer Sr. No. 1 above
5.	Sl. No. 18 of BOQ	Supply & delivery of LED 2 way Light 20W warm white	Supply & delivery of LED 2 way Light 10W-20W warm white to be acceptable Since there are other RGBWW luminaires, 20W luminaire will have a high output and the effect can be suppressed. So lower wattage of 2way light should be used.	Both are acceptable subject to acceptance during presentation as per clause No. 1-1 of NIT

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6.	Sl. No. 19 of BOQ	Supply & delivery of LED Linear Light 8W/Mtr warm white	Please clarify if this is a LED Strip light in linear aluminium channel or a wall washer. If wall washer, minimum wattage to be provided is 15W/m	Linear light 8W/m with aluminium housing
7.	Sl. No. 6 of tender specifications	LED/ Fixture: CRI>70 SDCM< 2	CRI> 80 (for white light) and SDCM<4 to be accepted CRI>70 and SDCM<2 are conflicting; hence requesting SDCM<4 to be accepted.	for LED, CRI> 70 (for warm white light) and SDCM<4 are only accepted The revised specifications of LED lights are enclosed below.
8.	Sl. No. 5 of tender specifications	Impact Resistance greater than or equal to IK07 for housing.	Impact Resistance greater than or equal to IK06 for complete luminaire to be accepted As per the application, we will be providing IK06 luminaires.	Both are acceptable
9.			Bidder should submit the product datasheet, photometry files, test certificates (CB, LM80) and BIS approval of the model of the luminaire to be provided during bid submission Request MPBT to add this point in the tender.	The luminaire shall conform to IEC 60598/IS10322. Bidder shall submit data sheet, photometry files / reports, BIS certificate reports for the products offered while submitting the bid.
10	Drawing		Drawing of the buildings to be provided for calculation of the cables and accessories Request MPBPT to provide the drawings	Drawings are enclosed. However, bidders are requested visit site for actual measurements.
11	NIT		Façade lighting is a very uncommon work, and a very few bidders have this credential, and this will surely hamper the competitive bidding for this tender. To ensure competitive bidding allow bidders authorized and supported by OEMs, who are meeting the required PQC criteria to participate in this tender, using the credentials of the OEMs to bid the tender. Bidders supported by the OEMs, where OEMs are meeting the technical capability criteria of the tender should be allowed in the tender.	Tender conditions prevails

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			Request you to kindly allow the same.	
12	List of drawings		Please share all relevant drawings (cad files) along with simulations of respective areas.	Please refer Sr. No. 10 above.
13	Schedule of Approved makes (Annexure IV)		Annexure IV is not available in specification. However, please consider contractor's recommended make for all required equipment & CPRI approved manufacturer for distribution control panel & centralised control panel.	Successful bidder can supply panel of any make provided that panel shall meet the tender specifications. Successful bidder shall submit the panel drawing along with technical data sheets of electrical / electronic items of panel for approval.
14	Sr. no. 5 & 20 of BOQ	Supply & delivery Distribution control panel box.	Please share the minium size & ingredients required in each box. The quantities mentioned for respective area shall not be sufficient, as per requirement. Please confirm the ceiling percentage for quantity varition. Also confirm if this varition shall be applicable for all requiried items.	The major electrical / electronic components required in panel are mentioned in revised specifications attached below. Successful bidder shall submit the panel drawing along with technical data sheets of electrical / electronic items of panel for approval. The revised quantity at Sr. No. 5 is maximum 45 Nos. However, quantity in the BOQ for Sr. No. 5 will not be changed at this stage. The payment for excess quantity at actuals shall be paid after execution of work with approval of Competent Authority. The quantity at Sr. No. 20 is unchanged.
15	Sr. no. 7 & 22 of BOQ	Supply & delivery of DMX cable 3 core 0.5 sq.mm.	3 core 0.5 sq.mm. shall be customised DMX cable. As per application, single pair having one 22AWG pair stranded (7x30) tinned copper conductors shall be suitable. We propose to use this cable in place of 3 core 0.5 sq.mm. Please confirm.	Tender condition prevails
16	General points		i) There are items that will be required to complete the job, but not mentioned in BOQ. Please confirm if such items will be paid on mutually based unit	Payment will be made as per tender BOQ items only. The cost of the extra items, if required for execution & commissioning of work shall be

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			rates in the event of order.	deemed to be included in BOQ items. No extra payment will be made for the same.
17	General points		ii) Permission for drilling, welding, clamping on structure will be issued in the event of order. Please confirm.	As regards permission for drilling, welding & clamping please refer to Sr. No. 18. The plan for route of cable / conduits and positions of fittings shall be submitted by successful bidder for approval.
18	General points		iii) Any statutory approvals from any authorities/ bodies, liasoning and such activities have not been considered in our scope of supply. However, the supporting documents, drawings shall be submitted in event of order. Please confirm.	Statutory approvals from any authorities/ bodies, liasoning required for providing façade lighting shall be obtained by successful bidder, the necessary assistance required will be provided by MbPA.
19	Technical specifications Sr. No.1	High pressure die cast Aluminium LM6 and above housing with heat sink in aluminium cold forging or anodized extruded aluminium of automotive grade with SS fasteners. The LEDs should be provided with anti-dust, UV resistant, exposed lens for avoiding any dust & dirt accumulation on the fixtures and yellowing of the lenses.	Housing for Linear Wall washer will be Extruded aluminium	High pressure die cast Aluminium or Extruded aluminium, is acceptable
20	Technical specifications Sr. No.6	Make of LED: CREE/SEMICON/LUMILED S/OSRAM/NICHE. The LED shall be of High Power Surface Mounted Design (SMD), IP66 operating voltage 110 Volt-415 Volt, Frequency 50Hz + 3%. CRI>70 SDCM < 2 for white with suitable & architectural flood lighting	Operating voltage will be 100-300V AC. Luminaire shall have BIS IS 10322 certification	Operating voltage of 110-300 volts is acceptable. The luminaire shall conform to IEC 60598/IS10322. The revised specifications of LED lights are enclosed below.

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		optics & beam angle shall be achieved using external lens, if required, The fixture shall be programmable to 16 bit control with DMx512 protocol as per lighting sequence required for desired theme creations. Luminaire shall have CE/CQC Certification		
21	Technical specifications Sr. No.7	SMD –Lenses material shall be Glass/PMMA/Exposed UV resistant Polycarbonate	Optics Mechatronics make also to be added	acceptable
22	Sr. No. 2 of BOQ	Supply & delivery of LED Façade light 30W with RGBWW	Details required: Beam angle, Type of light-Whether Square/Round projector	Successful bidder shall design the beam angle, type of light as per site conditions. You are requested to refer to scope of work at clause No. 1.1 of NIT which reproduced below: The successful tenderer shall make presentation of the proposed scheme before starting the installation. The presentation shall be made by the successful tenderer within 21 days from the date of award of contract
23	Sr. No. 3 of BOQ	Supply & delivery of LED Wall Washer 18X8W RGBWW	Wattage of product is not clear	Wall Washer 18X8W RGBWW shall consist of 18 No. of LED lights of 8 Watt each.
24	Sr. No. 4 of BOQ	Supply & delivery of LED Wall Washer 9X8W RGBWW	Wattage of product is not clear	Wall Washer 9X8W RGBWW shall consist of 9 No. LED lights of 8 Watt each.
25	Sr. No. 17 of BOQ	Supply & delivery of LED Façade light 30W with RGBWW	Details required: Beam angle, Type of light-Whether Square/Round projector	Please refer Sr. No. 22 above.
26	PQC of NIT	In addition to the above it is mandatory to submit notarized copy of TDS certificate from the previous employer or Form 26AS of IT department shall be	We request you to consider Work order and completion certificate copies from government employers only and in such case, please allow exemption from submission of TDS or 26 AS certificate.	Tender condition prevails

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		submitted by the tenderer for each executed similar work failing which the offer submitted by the tenderer shall not be considered for evaluation.		
27	NIT	The guarantee period for entire installation shall be for 5 years. The successful tenderer has to enter into CAMC as per scope of work	We request you to consider warranty terms in place of gurantee terms as per current lighting industry.	Tender condition prevails.
28	SCC	Payment will be made for the completed work as per Bill of quantities / specifications, etc. Payment will be made normally within 45 days after submitting the bill along with all the relevant documents.	We request you to confirm separate payment terms for supply and installation activities along with mile stones for each payment terms.	The payment terms for supply of materials are as below: i) Against supply of material – 75% ii) Against installation & commissioning – 25%. The other conditions of mentioned in SCC remains unchanged.
29		Valid Reports/Certifications from third party NABL accredited laboratory for luminaire and driver.	We have our own NABL accredited test lab so we request you to allow for submission of test reports from in house NABL accredited lab.	acceptable
30			We are OEM & Electrical contractor having 8 years of experience specialized in RGBW Outdoor Lighting fixtures. We would like to participate in above tender therefore we would like to clarify that can we use our OEM, BIS approved product to quote in the tender. We also request you to kindly include our make in the tender to enable us to participate.	There is no approved make of LED fixture. The fixture shall meet the tender specifications.

Revised specifications:			
Sr No	Criteria	Specification for LED light fitting	Name of supporting document to be submitted
1	Housing/ Body of fitting (Fixture) for 30W façade light and 18 X 8W Wall washer Light and 9 X 8W wall washer light	High pressure die cast Aluminium LM6 and above housing with heat sink in aluminium cold forging or anodized extruded aluminium of automotive grade with SS fasteners. The LEDs should be provided with anti-dust, UV resistant, exposed lens for avoiding any dust & dirt accumulation on the fixtures and yellowing of the lenses, with IP66 protection rating.	LM 6 Certificates and IEC 60598.
2	Fixture finish	Aesthetically designed housing with Black/Silver Grey colour corrosion resistant polyester powder coating. The coating should withstand salt spray test for 500 hours to prevent any rusting or corrosion in the life time with IP66.	Salt Spray Test Certificate
3	Fixture Cover	Fixture Cover shall be of toughened glass/Polycarbonate	Toughened Glass Certificate
4	Impact Resistance	Impact Resistance greater than or equal to IK06 for housing.	IEC-60598
5	LED	Make of LED: CREE/SEMICON/LUMILEDS/OSRAM/NICHE. The LED shall be of High Power Surface Mounted Design (SMD).	LEDs Datasheet
6	Lens for RGBW	SMD -Lenses material shall be Glass/PMMA/Exposed UV resistant Polycarbonate Make of Lens (LEDil/ Khatod) / Optiks Mechatronics	Datasheet
7	Linear Light Fixture	Operating voltage 230Volt, Frequency 50Hz + 3%, CRI>70, SDCM < 4 for white with suitable for Linear light, warm white LED linear light embedded in Aluminium extrusion flex base 10mm with height 18mm approx. designed specifically to deliver high quality linear light effect . This is new light source which reduces power consumption while delivering significantly greater effect Linear lighting functionally and an unreveiled light quality. Should comply IP 66/68. CCT 2700K to 3000K.	Linear Light Datasheet
7	Distribution Control Panel	Distribution Control Panel: Made out of Stainless Steel enclosure grade 304, 14	Datasheet

		Gauge, IP 54 protection, appropriate size, Hinged door with safety lock system. This panel will accommodate decoder, and driver system, I/P 230V AC and O/P 24V/20Amp DC. All cables will be connected to a terminal by crimp lugs and routed through truff.	
8	Centralized Control Panel	Centralized Control Panel made out of Stainless Steel enclosure grade 304, 14 Gauge, IP 54 protection, , with slanted Roof & minimum 2 Louvers on side walls, Front Single Door (Flush / surface finish type) hinged (3 Nos.) from inside with rubber gasket on the touching face of edge, Hinged door with safety lock system. PVC insulated copper wire of appropriate size shall be used for control wiring, Control panel shall be provided with Earthing connection stud provision on both side faces. Electronic Stabiliser of required KVA Rating of range 10-20 KVA, operating voltage range 90-300V, neutral Copper busbar of appropriate size with insulated support, with protecting & controlling Devices such as MCB/ contactors as per requirement with safety protection. Timer based triggering for Auto control with DMX512 controller. Phase indicator with electronic Digital meters showing parameters like voltage, current. Provision for Energy Meter. All cables will be connected to a terminal by crimp lugs and routed through truff.	
9	Conformation Standards of luminaire	The luminaire conform to IEC 60598/IS10322	
10	Reports/Certifications	Valid Reports/Certifications from third party NABL accredited laboratory for luminaire and driver.	
11	Label	The label should mention: Name of Manufacturer, Model name and number, system lumen pack, nominal CCT, wattage of fitting, Date of Manufacture, and other labelling details as per IS. Stickers are not permitted for labels.	
12	Guarantee	5 years	

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