

SCOPE OF WORK FOR INDOOR LED DISPLAY FOR INDOOR VIDEO WALL – ICAI, BBSR

Introduction

This Document describes the Scope of Work for bidder & OEM to provide and maintain the Indoor LED Display at customer end.

1. **Scope of Work for Supply**
 - 1.1. Bidder/ OEM shall responsible to supply and OEM shall be responsible for install and maintain the LED Display wall to ensure the support during complete contract period as mentioned per below.
 - Fine Pitch LED Display based Indoor wall
 - 2.5 mm Pixel Pitch based Indoor Fine Pitch LED Wall Screen / Display Size – 18.89 feet x 6.29 Feet with Accessories as per BOM - Annexure A and Technical specs as per Annexure B.
 - Complete Indoor LED display, LED control system, Power Distribution Unit should be from same OEM & OEM brands to avoid Integration and compatibilities issue
 - 1.2. OEM shall accept the responsibility for the work detailed in this document. This includes engineering associated with configuring the video wall work, installation, commissioning and after sales support
 - 1.3. OEM shall be responsible for Power calculations, heat loads, equipment dimensions, weight of the equipment, installation details etc. All civil work requirements, grounding and Earthing scheme etc. shall be in Customer' scope.
 - 1.4. Bidder/ OEM shall furnish equipment as specified in the Bill of Material (BOM) defined As per Annexure – A.
 - 1.5. Bidder/ OEM shall supply a functional, operable, reliable system in accordance with the requirement of this project.
 - 1.6. Bidder & OEM shall be responsible for smooth and mutually agreed time bound progress of Project.
 - 1.7. OEM/ bidder shall be responsible for supply of all interconnecting cables including CAT 6 wiring & termination between all components of system.
 - 1.8 Bidder/OEM/OEM subsidiary in India should have as a minimum a luminance meter (which can provide direct brightness reading in cd/m^2) testing instrument for brightness measurement of offered LED screen. They should provide details (Model No. & Date of Purchase) of the luminance meter available with them in India along with its latest calibration certificate. Only bids of those bidders will be considered who provide this information. The same instrument shall be used to check the minimum brightness levels as offered in the bid.(Please note- illuminance meters are not acceptable as they are not for measuring emitted light)
 - 1.9 As OEM shall be responsible for providing Three years' warranty for solution directly.
 - 1.10 Bidder needs to submit their bids in two parts i.e. (i) Technical Bid (ii) Financial Bid in form of hardcopies in the address of the ICAI Institute i.e. The Institute of Chartered Accountant of India(ICAI),Bhubaneswar, Nilaknatha Nagar, Unit- 8,Near DAV Public School, Bhubaneswar, India – 751 012.
2. **Scope of Work for Installation and Commissioning**
 - 2.1. OEM shall be responsible for a high standard of workmanship, inspection of the equipment and quality assurance of all materials.
 - 2.2. OEM shall be responsible for supervising site installation, power distribution, grounding and mounting of all its equipment
 - 2.3. OEM shall perform all work neatly and will at all times ensure and keep the installation site (including areas adjacent to the actual installation) and other work areas free from waste materials, rubbish and debris of any kind resulting from the Work.
 - 2.4. OEM shall be responsible for supply of all materials required for installation and commissioning of the System related to Digital display and any the Civil work or interior etc. shall be excluded and to be in Customer scope.
 - 2.5 OEM shall install and configure all the necessary software including systems software (e.g. OS, drivers, etc), applications software etc.
 - 2.6 Bidder/OEM shall be responsible for Supply & OEM shall be responsible for installation of interconnection of cables and cabling & End point devices.

3. Inspection and Testing

3.1 Site Acceptance Test (SAT) :

The SAT procedures will be developed by OEM according to project requirement. The SAT will be performed upon completion of OEM hardware installation and tests.

SAT will be witnessed and signed off by OEM representative and Customer.

4. Document Reference List for LED Display System

Following documents describe and govern the installation and commissioning of products as provided by the Bidder/ OEM:

- Acceptance Test Procedure
- Operating & User Manual
- Warranty certificate
- Manufacture Authorization Certificate on OEM Letter Head

5. Technical Support Services

OEM Should provide directly service support with their own engineer for this project.

6. Selection Criteria of OEM

- 6.1. OEM should have their own registered office in India from the last 10 years on the date of bid submission.
- 6.2. OEM shall be ISO 9001, ISO 14001, OHSAS 45001 & ISO 27001:1 certified – Certificates to be submit.
- 6.3. OEM should have their own service center across India for support. Franchised or Authorized service center are not acceptable.
- 6.4. Service centers should be available in all major metro cities ex. NCR, Mumbai, Bangalore, and Kolkata & Chennai with their own engineer at each location. GST registration number for all these service centers.
- 6.5. Installation, Commissioning, after Sales support shall be provided by OEM only.
- 6.6. OEM should have installed at least 50 LED display (Indoor/Outdoor) based on SMD Technology with at least 11 sqm area or higher connected in single network and content published from a central location in India for any PSU/ government in India. These displays should be working satisfactorily for at least 7 years before the date of RFP. Customer stratification letter to be submitted along with the bid.
- 6.7. The OEM should provide SLD diagram & structure to be attached with the bid.
- 6.8. Data sheet of all items to be attached with the bid & same should be available at OEM website.
- 6.9. Make in India.
- 6.10. All product should be a same OEM (i.e LED Cabinet, LED Controller (Should be PIP function) & Power Distribution Unit)
- 6.11. Structure drawing provide by OEM with details of used material and installation by OEM only.
- 6.12. Valid BIS certificate to be provided for the offered LED tiles/cabinets before the supply of goods. BIS certificate for module shall not be considered as valid BIS certificate for the product. The offered model should be clearly mentioned in the BIS certificate
- 6.13. BIS certificate showing manufacturer from China will not be acceptable.
- 6.14. Bidder should have positive net profit during the last three years.
- 6.15. OEM experience credentials needs to be furnished along with Bid submission as enclosure.

Annexure – A (BOQ)

Sl.No.	SUPPLY ITEMS	UOM	QTY
1	Indoor Fine Pitch LED Display		
2	18.89 feet x 6.29 Feet 2.5 mm Fine Pixel Pitch based LED Display	No.	1
3	LED Control System with video processor having PIP Facility	No.	1
4	Mechanical Structure	No.	1
5	Power Distribution Unit	No.	1
6	Installation, Testing & Commissioning	Lump sum	1

Annexure – B (Technical Specs)

Parameter	Specifications
Display Size	18.89 feet x 6.29 Feet
Pixel Pitch	2.5 mm or lower
Configuration	SMD 3-in-1 LED Type
Pixel Density	160,000 pixels/m ² or better
Brightness Calibrated	800 cd/m ² or better
Dimming Capability	0-255 Levels or higher
Contrast Ratio	5000:1 or better
Refresh Rate	1920 Hz or better
Color Processing	14-bit or better
Colors	4.4 Trillion or better
Half Gain Viewing Angle Horizontal	H: ± 80° or better, V: ± 80° or better
Lifetime	100,000 hrs or better
Power Input	AC 220V-240V
Max. Power Consumption	135 W/Sqm or lower
Temperature Range	-10° ~ + 45°C
Humidity	20%~60%RH
Service Access	Front
IP Grade	IP30/IP50 cabinet and module both
BIS	Valid BIS certificate to be provided for the offered LED tiles/cabinets before the supply of goods. BIS certificate for module shall not be considered as valid BIS certificate for the product. The offered model should be clearly mentioned in the BIS certificate.
LED Tile/ Cabinet Calibration	LED tiles/cabinets should be calibrated before being supplied. These screens should also be calibrated after the installation to ensure brightness uniformity. Calibration should also be performed as and when it is required during the warranty period. Offered product which does not support dot calibration shall be rejected

SCOPE OF WORK :

Brightness measurement tool	Emitted brightness measurement tool namely a luminance meter (which can provide direct brightness reading in cd/m ²) for brightness measurement of offered LED screen. OEM of LED Display should provide details (Model No. & Date of Purchase) of the luminance meter available with them in India along with its latest calibration certificate. The same instrument shall be used to check the minimum brightness levels as offered in the bid. Please note- Illuminance meters are not acceptable as they are not for measuring emitted light
Quality/Health & Safety/Environmental Certifications of OEM/OEM subsidiary in India (Copy to be submitted along with the bid	Quality Management System 9001:2015 ,
	Occupation health & Safety Management System - OHSAS 45001:2018
	Environmental Management System 14001: 2015

OEM Criteria	<p>1. OEM should have installed at least 50 LED display(Indoor/Outdoor) based on SMD Technology with at least 11 sqm area or higher connected in single network and content published from a central location in India for any PSU/ government in India. These displays should be working satisfactorily for at least 7 years before the date of RFP. Customer stratification letter to be submitted along with the bid</p> <p>2. OEM/OEM Subsidiary should be present in India for at least last 10 years with their own registered & service center managed by their own engineers. Details to be provided along with customer confirmation.</p>
LED Control System	
Signal Input	DVI/ HDMI
Signal Output	RJ45
Input Voltage	100~240 VAC
Video	At least should support MPEG-4,MOV
Image	JPEG, PNG,BMP
Text	Multiple fonts, Speeds, colors
Internet	HTML, RSS newsfeeds
Content Manager	To be able to create playlists and send them over the network to media players or more for playout based on schedule and sequencing.
Content Management	Design simplified user interfaces
Complete solution (Indoor LED display, LED control System, Power Distribution Unit should be from same OEM/Brand for smooth integration to avoid issues at implementation stage .)	
Power Distribution Unit	
Power Distribution Unit	A Power Distribution Unit to be provided to provide power to the LED walls.
Cable points	Cable entry and exit points should be provided
Mounting	Should be possible to mount the rack on a wall
AC input	100~ 230 Volt AC
AC out put	As per LED display requirement
AC Power Load Max	As per LED display requirements
AC power Load Max Each output	As per LED display requirement
Surge protection	Class C
Mechanical Structure For Mounting Of LED Walls	
Mechanical Structure For Mounting Of LED screen (OEM should have in house facility for structure design in India)	
Material	MS/Aluminum Extrusion should be used to for the structure to mount the LED walls to ensure precision installation.
Brackets	Brackets to fasten the MS/Aluminum extrusion to be made of MS with powder coating.

The Bid shall be reach to The Chairperson, Bhubaneswar Branch of EIRC of ICAI, ICAI Bhawan, Plot No- A/122/1, Nayapalli, Bhubaneswar-751012 latest by 5 pm of 19th November, 2024.