

## TECHNICAL SPECIFICATION OF LED SCREEN SYTEM

1. Name of the Equipment : Customized control LED screen with accessories.
2. Purpose : To use indoor video/ graphic projection for various exercise.
3. Quantity : 01 (One) Complete Set LED Screen System.
4. Brand : To be mentioned.
5. Model : To be mentioned.
6. Country of Origin : As per individual item.
7. Manufacturing Country : As per individual item.
8. Year of Manufacturing : 2021 or later.
9. Supplier : Name and full address of supplier to be mentioned.
10. The ordered items shall be of brand new, reputed brand and in operational condition.
11. **Environmental Condition.**

- a. Ambient Operating Temperature : -5° C to +55° C.
- b. Storage Temperature : Minimum 55°C.
- c. Relative Humidity : Up to 98% non-condensing.

12. **General Features.** The system will have the following features:

- a. Fully scalable system with network server, video record, re-play facilities and other control devices to monitor and control from different station.
- b. It will allow you multiple applications.
- c. You will be able to display external wireless material to this LED display panel.
- d. As a result the installation will remain neat.

13. **Classification Standard.** The offered items under the scope of supply are to be designed, constructed/manufactured and tested up to the requirement of BN, appropriate standard and it shall comply other relevant international standards. The applicable classification standard(s) of offered item are to be mentioned and should be well supported by the certificates/ OEM brochures.

14. **System Configuration.** The system will be a fully scalable system with network server and video record and replay facilities, cameras and other control devices to monitor and control from different stations. The system shall have video recording facilities to record, store and replay for at least 01 month activities. It will consist of the following hardware and software but not limited to:

**a. Main equipment**

Ser	Name of Items	Quantity
a.	Waterproof LED Screen with receiving card and power supply unit.Cabinet Size 500mmX500mm	216 in no
b.	Video Processor	02 Set
c.	Sending Card	02 Set
d.	Laptop with control software ( Pendrive, CD Backup)	01 in no
e.	UPS 2 KVA	01 in no
f.	Copmplete Sound System for LED screen	01Set

**b. Accessories and Installation Marterials**

Ser	Name of Items	Quantity
a.	Voltage Stabilizer 2 KVA	01in no
b.	HDMI Splitter	02 in no
c.	HDMI Cable (03 Mtrs)	06 in no
d.	HDMI Cable (30 Mtrs)	04 in no
e.	HDMI Cable (20 Mtrs)	06 in no
f.	Data Cable between Control Box to LED Screen(50 Mtr)	06 in no
g.	Data Cable between LED Panels(01 Mtr)	250 in no
h.	Power Cable with connector between LED panels (01 mtrs)	230 in no
h.	Power Cable from Power Distribution Box to LED Screen (15 mtrs)	36 in no
j.	Main Power Cable with Industrial Plug (10 rm 5 cores) 50 Mtrs	03 in no
k.	Portable Main Power Distribution Box for Multiple Installation (01 Input & 12 Output)	03 in no
l.	Big Aluminium Ladder (15 Ft)	01 in no
m.	Small Aluminium Ladder (10 Ft)	01 in no
n.	Receiving card	30 in no
p.	General Tool box for installation support.	01 Set
q.	Electric Accessories, Data Plug, Power Plug, Power Shocked, PVC Pipe, FlexiblePipe, MK Box, Electric Channel, GI Wire etc.	As required





a. **Specification of LED Screen**

Brand	To be mentioned.
Model	To be mentioned.
Country Of Origin	Malaysia, Taiwan, Korea
Country Of Manufacturer	Malaysia, Taiwan, Korea
Panel Quantity	216 Pieces
Panel Dimensions (mm)	(W)500 X(H)500 X (D) 85
Module Quantity	8
Module dimension	(W) 250mm X (H) 250mm
Pixel Pitch (mm)	2.5-3.0
Display Size	H- 6 Mtr x W- 9 Mtr
Panel Physical Resolution	(W)128x(H)128 (minimum)
Panel Physical Pixels (Total)	16384 or above
Viewing angle	160/140 degree (Horizontal/Vertical)
Module Resolution	(W) 64 X (H) 64
Pixel Configuration	SMD(3in1)
Operating temp	20~+50C
Operating humidity	10%~90%
Viewing Angle	Horizontal 140(+70/-70) deg. Vertical 130(+65/- 65) deg or better
Input voltage	200~ 240 Volt
Signal input format	AV, S-Video, VGA, DVI, DP, HDMI, SDI
Operating system	Windows 10 (2000/XP/Vista)
Screen area dimension (m)	(W)9.0 X (H)6.0= 54.00
Screen area dimension (Foot)	(W)29.5 X (H)19.7= 5480.95
Panel dimension (mm)	(W) 500 X (H) 500 X (T) 80
Pixel density (dots/m <sup>2</sup> )	65536 pixel/m <sup>2</sup> or higher
Brightness	700-1000 cd/ m <sup>2</sup>
Repetition frequency	50/60Hz
Total Average Power	13230 watts
Total Maximum Power (W/m <sup>2</sup> )	38880 watts
Minimum viewing Distance	4.8 meters
Brightness Control	256 level

b. **Video Processor**

Brand	To be mentioned.
Model	To be mentioned.
Country Of Origin	Malaysia, Taiwan, Korea
Country Of Manufacture	Malaysia, Taiwan, Korea
Input Indicators	DVI 2 port, DP 1port, HDMI 2port.
Output Indication	DVI 2port.
Power Supply	100~240VAC, 50/60Hz
Consumption	55W
Operating Temperature	0 ~ 45°C
Product Dimension	482.6×452×66.75mm
Operating System	To be mentioned.
Processor	To be mentioned.

c. **Sending Card**

Brand	To be mentioned.
Model	To be mentioned.
Manufacturing Country	To be mentioned.
Country of Origin	To be mentioned.
Input Indicators	Audio, DVI, HDMI
Output Indication	4 LED output
Control	Connected to PC, USB Control interface
Power	AC-100-240V-50/60HZ
Temp of working environment	20°C ~ 60°C
Humidity of working env	0%~95%





d. **Laptop**

Brand	To be mentioned.
Model	To be Mentioned
Country	USA/ UK/ Korea/ Japan/ EU Countries
Generation	10 <sup>th</sup> Generatrion & later
Warranty	2-3 Year
RAM	16/ 32 GB
Processor	Core i7
Hard Disk	1 TB
Graphics Card	4 GB
Memory	To be mentioned.

e. **UPS 2 KVA**

Brand	To be mentioned.
Model	To be Mentioned
Country	USA/JAPAN
Warranty	5 (Five) Year

f. **Accessories and Installation Material.** The brand, model, standard, manufacturer, source of supply and other relevant information of the accessories and installation materials (Para 15b) are to be mentioned in detail.

16. **Standard Accessories.** Standard Accessories must include every item and accessories, which are essential to make the LED Screen system completely operational, whether those are mentioned in the specification or not. A list of such items/ accessories is to be provided with the quotation showing item wise price.

17. **Maintenance and Repair.** The supplier will give assurance for maintenance service for the next 3 years after 2 year warranty period.

18. **Acceptance/ Rejection of Bid.** BN reserves the right to accept or reject any offer or to annul the tender and reject all bids at any time prior signing of the contract.

19. **Supporting Documents.** Brochure/ catalogue and other supporting documents having details in English for the offered set shall be provided with the tender for evaluation/ assessment.

20. **Spare parts.** Original Equipment Manufacturer (OEM) recommended spares for 2 (Two) years trouble free operations are to be provided by the supplier. The spare parts should be available up to 10 (Ten) years to the market.

21. **Installation and Installation Material.**

a. The supplier will install the system as per the following:

- (1) Physical installation.
- (2) Wiring/ cabling.
- (3) Setting to work.
- (4) Test-trial.
- (5) Commissioning.

b. The accessories and Installation material mentioned at para (15b) shall be used for installation work if any other items like wire, nut, bolts, fixtures, screw, plug, power cable, network cable, network switch, multi splitter, clip, tape, etc. are additionally required for installation, the supplier shall provide those items without additional cost.

22. **Site Visit.** Participant bidders must visit BN site for assessing the requirement.

23. **Warranty.** Following warranty shall be provided by the supplier:

2 (Two) Year	a. LED Panel (B -6.70m X L -14.02m). b. HD Video Processor. c. Sending box/ Controller. d. Laptop, Windows 10, Core i7 with 16/32GB RAM. e. Complete Sound system for LED Screen. f. IPS for backup whole System.
1 (One) Year or higher	Rest of the items.





During warranty period any item becomes defective or non-operational, the supplier shall repair and rectify the problem immediately for smooth operation. If any item remains non-operational or defective during warranty after repair, the warranty will extend for that item for the same duration. In case the defects cannot be solved, the defective items will be replaced by the supplier without any additional cost.

24. **Support Service.** Minimum 24 (twenty four) months support service shall be provided by the supplier from the date of acceptance by the buyer. The service includes the following
- Ensure LED Screen is free from bugs and errors and remains fully functional.
  - Ensure necessary trouble shooting.
  - Quarterly performance monitoring.
  - Technical support assistance (on call/ online/ on site) as required.
  - Ensure security of the system.
  - The supplier will be responsible for keeping the items subscription up and running in the system during the support period.
25. **Price Quotation.** In case of imported items price is to be quoted without import duties
26. **Terms of Payment.** Payment will be made in local currency as per the following:
- 90% of the cost will be made after acceptance by BN.
  - 10% of the cost will be made on completion of support service period.
27. **Certificate and Reports.** Following certificate and reports are to be provided in English during offer as well delivery:
- Authorization Certificates.
  - Type approval certificates of classification society.
  - Quality assurance certificates.
  - Test Certificates (only during delivery).
  - Certificate of genuine product and new item.
  - warranty certificates.
  - Guarantee certificates.
28. **Quality Assurance Certificate.** Quality Assurance Certificate in respect of the associated equipment in regards to its manufacturing and performance is to be provided at the time of delivery of the items.
29. **Guarantee.** The bidder is to give guarantee of continued supply of spares for least 5 years parts/ services at a reasonable price. Certificate is to be submitted with the offer.
30. **Necessary Manual and Catalog.** Following necessary manual and catalog shall be provided by the bidder with supplied item:
- Operation Manual.
  - Technical Manual.
  - Installation and repair manual.
  - Layout Diagram.
31. **Training.** The supplier competent technical expert shall provide necessary training on operation and maintain of the system for a period of 5 working days for 5-6 BN personnel.
32. **Training Contents.** The objective of the training should include the following but not limited to:
- BN personnel will have comprehensive knowledge on system overview and its features and limitations.
  - BN personnel will be oriented and skilled for the operation of the system including various software functions and applications.
  - BN personnel will know which level of maintenance they can do, what kind of tools and skill needs to be used to carry out maintenance works as per OEM recommended maintenance system/ schedule.
  - BN personnel will be aware of all hardware/ software including all kinds of manuals/ documentations related to the system.
  - One standard operating procedure will be provided for a small ready response team to address problems.





f. BN personnel will be shown how to install, set to work, configure and interface the system and software.

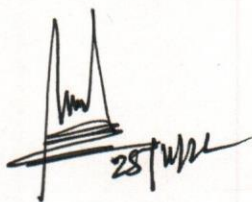
g. Lectures and training should focus on the following:

- (1) System Overview and configuration.
- (2) System operation covering all functions.
- (3) Network configuration and troubleshooting.
- (4) Hardware and software and their function, troubleshooting, backup software, system restoration, etc.
- (5) Familiarization of manuals, publications and document which are to be provided.

33. **Optional items.** Bidder may offer additional Hardware, Software and any other item (if deemed necessary) as optional items including their cost.

34. **Source of Supply.** Source of supply of LED Screen including port of shipment (if applicable) is to be mentioned for each item of the offers. Documentary evidences shall be submitted with the offer. If any item is locally manufactured, it is to be mentioned including its source of supply.

35. **Compliance Statement.** A clear and complete compliance statement of the tender specification supported by original proofs, certificates, documentary evidence and catalogue are to be submitted with the offer. Any deviation from this specification is also to be clearly mentioned in the offer. Mentioning of yes/no/comply will not be enough and detailed technical data/ information are to be provided.



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SHAREN KOTHA GOMES  
Lt BN  
Electrical Officer  
BNS TITUMIR

1. The first part of the report is devoted to a general survey of the situation in the country.

2. The second part of the report is devoted to a detailed analysis of the economic situation.

3. The third part of the report is devoted to a detailed analysis of the social situation.

4. The fourth part of the report is devoted to a detailed analysis of the political situation.

5. The fifth part of the report is devoted to a detailed analysis of the cultural situation.

6. The sixth part of the report is devoted to a detailed analysis of the educational situation.

7. The seventh part of the report is devoted to a detailed analysis of the health situation.

8. The eighth part of the report is devoted to a detailed analysis of the housing situation.

9. The ninth part of the report is devoted to a detailed analysis of the transportation situation.

10. The tenth part of the report is devoted to a detailed analysis of the communication situation.

11. The eleventh part of the report is devoted to a detailed analysis of the environment situation.

12. The twelfth part of the report is devoted to a detailed analysis of the energy situation.

13. The thirteenth part of the report is devoted to a detailed analysis of the science and technology situation.

14. The fourteenth part of the report is devoted to a detailed analysis of the sports and recreation situation.

15. The fifteenth part of the report is devoted to a detailed analysis of the tourism situation.

16. The sixteenth part of the report is devoted to a detailed analysis of the international relations situation.

17. The seventeenth part of the report is devoted to a detailed analysis of the foreign trade situation.

18. The eighteenth part of the report is devoted to a detailed analysis of the investment situation.

19. The nineteenth part of the report is devoted to a detailed analysis of the labor market situation.

20. The twentieth part of the report is devoted to a detailed analysis of the social security situation.

21. The twenty-first part of the report is devoted to a detailed analysis of the pension system situation.

22. The twenty-second part of the report is devoted to a detailed analysis of the health insurance situation.

23. The twenty-third part of the report is devoted to a detailed analysis of the housing insurance situation.

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26. The twenty-sixth part of the report is devoted to a detailed analysis of the environment insurance situation.

27. The twenty-seventh part of the report is devoted to a detailed analysis of the energy insurance situation.

28. The twenty-eighth part of the report is devoted to a detailed analysis of the science and technology insurance situation.

29. The twenty-ninth part of the report is devoted to a detailed analysis of the sports and recreation insurance situation.

30. The thirtieth part of the report is devoted to a detailed analysis of the tourism insurance situation.

31. The thirty-first part of the report is devoted to a detailed analysis of the international relations insurance situation.

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