

# WEBEL TECHNOLOGY LIMITED

## NOTICE INVITING e-TENDER

Online Tender documents are invited for setting up of Emergency Operating Centre at Disaster Management Department, GoWB H.Q.at "Nabanna". Bids are invited from reputed System Integrators having sufficient experience and credentials for successful completion of "Similar Nature" of work in State / Central Government Department/Organizations.WTL has been chosen as the execution authority for the same.

1.	Tender No. & Date	WTL/DM/EOC/16-17/001 dated 21.06.2016.
2.	Tender Version	1.0
3.	Brief description of material	Setting up of Emergency Operating Centre for Disaster Management Department, GoWB
4.	Tender Fee	Rs.6000.00 (Rupees Six thousand only) in the form of Demand Draft from any Scheduled bank in favour of Webel Technology Limited payable at Kolkata.
5.	Earnest Money Deposit	Rs.1000000.00 (Rupees ten lakhs only) in the form of Demand Draft from any Scheduled bank in favour of Webel Technology Limited payable at Kolkata.
6.	Date of Downloading / Sale of the Tender Document	21.06.2016. Websites - <a href="http://www.webeltechnology.com">www.webeltechnology.com</a> , & <a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a>
7.	Date and Time for submission of Pre-Bid Queries	27.06.2016 at 16.00 hrs The queries shall be submitted in the format as provided in off line (Section – O). Queries will be sent to Mr. Arunava Saha, Manager (Purchase) ( <a href="mailto:wtpurchase@gmail.com">wtpurchase@gmail.com</a> )/Ms. Anita Dey ( <a href="mailto:wtladet@gmail.com">wtladet@gmail.com</a> ) & copy to Mr. S. Das Sarma, Project Head ( <a href="mailto:sanjoy@webeltechnology.com">sanjoy@webeltechnology.com</a> ) / Mr. S. Pal, Project Engineer ( <a href="mailto:suvhankarpal@gmail.com">suvhankarpal@gmail.com</a> ) Each Bidder shall send only one e-mail containing the Pre-Bid Queries, as per format. In case of more than one e-mail, only the queries provided in the first e- mail shall be considered.
8.	Date & time of Pre-Bid Meeting	29.06.2016 at 15.00 hrs <ul style="list-style-type: none"><li>• Only two persons for each intending bidder's organization will be allowed to attend the Pre Bid Meeting.</li><li>• The person should have proper authorization in respective company Letter Head.</li><li>• Bidders who will submit the Tender Fee before the Pre Bid Meeting will be allowed to attend the meeting.</li></ul>
9.	Bid Submission Start date & time	05.07.2016 at 10.00.hrs.
10.	Last date & time of EMD & Tender Fee submission	13.07.2016 at 11.00.hrs.
11.	Last date & time of Bid Submission	11. 07.2016 at 17.00 hrs.
12.	Date & time of Technical Bid opening	13. 07.2016 at 11.30 hrs.
13.	Venue of Pre-Bid Meeting	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot – 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
14.	Contact Persons	Mr. Arunava Saha – 23673403-06 (Extn – 212) Ms. Anita Dey – 23673403-06 (Extn – 231) Mr. S. Das Sarma – 23673403-06 (Extn – 209) Mr. S Pal – 23673403-06 (Extn – 225)

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1. This is an e-Tender. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Necessary cost of tender fees) may be remitted through Demand Draft issued from any Scheduled Bank in favour of “Webel Technology Limited”, payable at Kolkata and also to be documented through e-filing. Cost of Earnest Money Deposit (EMD) may be remitted through Demand Draft issued from any Scheduled Bank in favour of “Webel Technology Limited”, payable at Kolkata and also to be documented through e-filing. The original Demand Draft against Tender Fees & Earnest Money Deposit (EMD) should be submitted physically to the Manager (Purchase)/Manager (Finance), Webel Technology Limited, Plot – 5, Block – BP, Sector-V, Salt Lake City, Kolkata-700 091 under sealed cover on or before 11:00 Hrs of 13.07.2016.
2. Both Techno Commercial Bid and Financial Bid are to be submitted concurrently duly digitally signed in the website <https://wbtenders.gov.in>
3. Tender documents may be downloaded from website and submission of Techno Commercial Bid and Financial Bid will be done as per Time Schedule stated in Section – D of this Tender Document.
4. The Financial Bid of the prospective Bidder will be considered only if the Techno Commercial Bid of the bidder is found qualified by the Tender Committee. The decision of the ‘Tender Committee’ will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.

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## SECTION – A

### INTRODUCTION&OBJECTIVEOFTHEPROJECT

#### INTRODUCTION

With growing need for preparedness for disaster as well as mitigation, disaster management agencies and administrative teams need to be on the vigil all the time. 24x7 monitoring, evacuation planning and optimal deployment of resources and units, using all possible information available about major areas, is important for the success of smooth operation of a city. Due to the size, diversity and unorganized nature of Indian urban areas, as well as other socio-economic factors, traditional tools are not sufficient for effective operation and management.

It has been proven that continuous surveillance pre as well as post disaster can help drastically reduce the casualties, financial as well as of life, both by taking preventive measures as well as by providing support at the site of incident as fast as possible. Besides providing just surveillance current systems have features that provide control of the surveillance equipment as well as allow for intelligent decision aids, by giving automatic detection of unwanted items, intrusion detection etc.

The number of surveillance devices required for the complete state is quite huge, and to assimilate this data a central station is required. This station acts as a command station where decision makers are able to comprehend all the multiple data modalities.

Modern control rooms provide an important infrastructural component for real-time monitoring and operations planning for security forces. The complexity of modern control rooms requires:

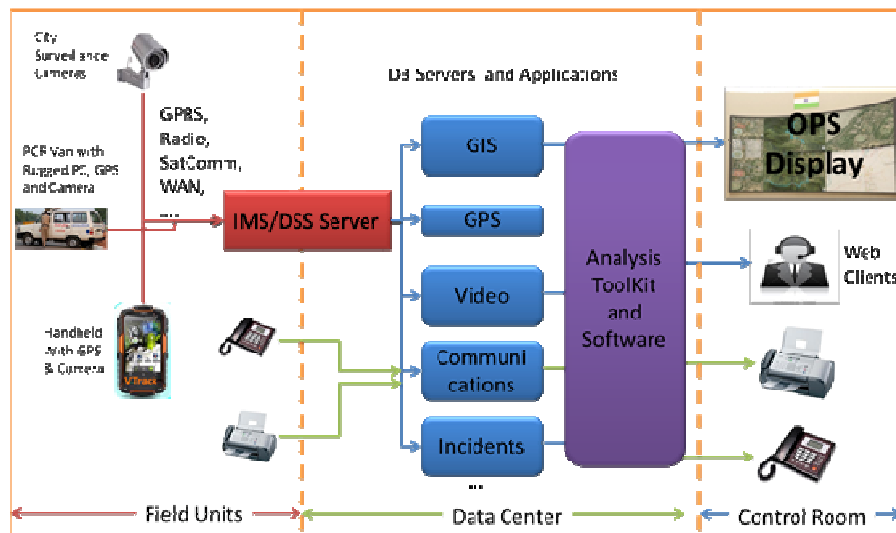
- Decision makers to take advantage of massive amounts of data made available by modern innovations in information technology
- Access to tools that can combine various data modalities in a coherent framework
- Correlate between available data from multiple sources to enable identifying specific features of special interest.
- Integration with data modalities, multi-tilt display configurations and suitable image generators.

Therefore visualization of multiple data modalities simultaneously becomes very critical to take a decision in case of safety breach. An emergency control room solution is required to provide rapid response for disasters.

#### OBJECTIVE OF THE PROJECT INTEGRATED EOC

Fully integrated EOC solutions which combine a variety of visualization tools, special devices and large display environment to enable users to view and analyse a wide range of inputs, ranging from data available from different type of sensors, video, computer visualizations & simulation, geospatial data are required. Latest display environment solution can help operators and decision makers to view all the available data in a single large display screen in a truly collaborative environment to take accurate and timely decision.

This solution should be envisaged keeping in mind the ever-changing technology and the requirements. The system should therefore be modular, upgradable and future proof in many regards.



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The key components of the required integrated Emergency Operations Centre should include the following:

Command and Control Room infrastructure including

Main Control Room display(OPS Display) wall with curved High-resolution seamless display technology with 24x7 reliability and configuration flexibility

Display Management System for Incident Management/Decision Support System, surveillance cameras GPS routes, news videos and other data display control and recording

Workstation, Servers and Networking Equipment (already existing)

Control Equipment

Audio system with microphones at operator consoles and main speaker system

Integration of feeds generated by Incident Response/Decision Support System (Existing)

Standardization of Command Structure

Proactive Planning

Strategic and Tactical Response

Comprehensive Resource Management Cycle

GIS, Situational Awareness and Decision Support

Exercise and Simulation for Mock Drills

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## SECTION – B

### BILL OF MATERIAL

The Bidder has to setup the EOC for DMD, GoWB, 2nd Floor, 325 Sarat Chatterjee Road, Howrah -711102

**Scope includes Supply, Installation, Commissioning and support services post commissioning of the following items:**

**Location – Disaster Management Department, GoWB at “Nabanna”**

<b>EOC Equipments for DMD, GoWB</b>		
1	<b>High Resolution Display Cubes</b>	6 Nos.
2	<b>High Definition Monitors</b>	2 Nos.
3	<b>Display Manager Hardware</b>	1 No.
4	<b>Display Manager Software</b>	1 No.
5	<b>Display Manager Console</b>	1 No.
6	<b>Cabling and Networking</b>	1 Kit
7	<b>Audio System</b>	1 Kit
8	<b>Control System</b>	1 Kit
9	<b>Equipment Rack</b>	1 No.
10	<b>Installation &amp; Commissioning</b>	1 Job

**Note: The Kit breakups will be given in the detail specification segment**

Quantity mentioned are indications only, may go in for 10% upward or downward fluctuation.

Installation Completion Time: within 24 weeks of issuance of order by WTL.

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## SECTION – C

### DETAILED TECHNICAL SPECIFICATION

#### Display Environment

The display environment should come with a seamless high resolution display screen. This should be created using multiple cubes. An integrated display management system (DMS) to control the content being displayed on the main display wall should also be provided. The combined system should allow ingesting external video sources with different formats and protocols and directing them to the main display wall. The picture below shows one of the potential results during operation.



The complete display should be create by the latest DLP based projectors. The projectors should be lit using redundant LED array. The projectors should be arranged in a grid of 3x3, to create a display wall of 14'x6', with a combined resolution of 5760x3240 pixels.

The following sections detail the key technical specifications of components for such an environment.

#### High Resolution Display Cubes, Qty - 06 Nos.

S.N.	Feature	Specifications
1	Display Technology	LED-lit liquid cooled Rear Projection DLP with active stereoscopic 3D
2	Display configuration	3x3 tiled matrix of 70" diagonal projection modules with Full HD - 1920 x 1080 native resolution per module
3	Screen Area/Active area per module	~ 70" diagonal
4	Native resolution per module	1920 x 1080 – In 2D as well as active stereo 3D
5	Aspect ratio per module	16:9
6	Image Size per module	1.55m x 0.872m
7	Total Image Size	- Greater than 15' wide - Greater than 8'6" High
8	On-screen brightness	220/175 Cd/m <sup>2</sup> in 2D/3D mode
9	On-screen contrast	500000:1
10	Modular Technology	The solution should be modular in nature to allow future expansion by adding new modules to the existing modules in either horizontal or vertical directions without discarding any component from the current system
11	Light Source	LED illumination with 6 times redundancy for each of 3 LED's
12	Light source lifetime	> 50,000h (normal mode) Should be higher in economy mode
13	Screen Technology & half-gain angle	a) FXS, with half-gain angle of minimum 33° (for both Horizontal & Vertical direction)

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		<ul style="list-style-type: none"> <li>b) Rigid screen technology (Glass) to prevent bulging &amp; bowing of the screen</li> <li>c) Screen surface should be water resistant &amp; should be easy to clean &amp; maintain</li> <li>d) The screens should have good ambient light resistance with low reflectivity to allow for more ambient light in the audience area</li> </ul>
14	Screen border/seam/gap	Less than 0.15mm (for both Horizontal & Vertical) at 25°C. There should not be any change in the mechanical gap at different temperatures (between 20°C to 40°C)
15	Color& Brightness Matching	The display wall should have an inbuilt spectrometer /chroma-meter based feedback & loop auto-calibration system to keep all the modules aligned to same brightness & color levels
16	Inputs & Outputs	<ul style="list-style-type: none"> <li>a) 2x Dual-link DVI-in / 2x Dual-link DVI-out per module with a pixel clock of 330MHz to support high resolution 3D content. Capable of supporting input resolutions of upto 3840(H) x 2160 (V)</li> <li>b) Stereo sync-In/Stereo sync-out per module to synchronize all projection modules as well as drive the IR emitters</li> </ul>
17	Heat dissipation	Max 1200 BTU/hr per module
18	Stereo Technology	Active 3D Stereo Stereo technology based on polarization or color separation or interlaced stereo is not acceptable
19	Stereo Peripherals	<ul style="list-style-type: none"> <li>a. Appropriate nos. IR/RF emitters to cover the room</li> <li>b. 12 nos. of compatible Active Stereo glasses</li> </ul>
20	Mandatory Certification	The LED display should have a valid BIS registration number. This is a mandatory requirement. Bidder shall provide the valid BIS registration number of the product in the technical bid
21	System Diagnostic Software/Hardware	<p>The Diagnostic solution shall perform health monitoring that allows detection of:</p> <ul style="list-style-type: none"> <li>a. Display health</li> <li>b. Display IP-address</li> <li>c. Native Brightness, target &amp; actual brightness</li> <li>d. Native Color (white, red, green, blue) &amp; actual color</li> <li>e. Selected inputs and presence of sources on either input</li> </ul> <p>Diagnostic Software shall allow commands on entire display device level or cube level or a selection of cubes:</p> <ul style="list-style-type: none"> <li>a. Switching the entire display device on or off.</li> <li>b. Setting all projection modules to a common brightness target, which can be either static (fixed) or dynamic to always achieve maximum (or minimum) common brightness between projection modules.</li> <li>c. Changing the active input (of the two present DVI inputs)</li> <li>d. Fine tune color of each cube</li> <li>e. Switching the display between 2D &amp; 3D</li> <li>f. Defining the master/slave for each module for 3D mode</li> <li>g. Adjusting the 3D stereo parameters like <ul style="list-style-type: none"> <li>i. Normal/Swap</li> <li>ii. Shutter Time</li> </ul> </li> </ul>



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		iii. Polarity iv. Phase
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Note: Quoted cube should have a valid BIS registration. Bidders should quote the BIS registration number in the bid  
 The quoted 3D rear projection DLP cubes should be a standard COTS product

### High Definition Monitors, Qty. 2 Nos.

In the proposed facility, high definition (1080p) TV units need to be installed adjacent to the main display wall. These HDTV units will be used to display any external video sources, for example, television news feeds. The HDTV units should use an LED backlit display with 40" (or more) diagonal size. The HDTV units should be controllable from the touch panel control system.

S. No.	Specifications
1.	Screen Type: LED/LCD
2.	Native resolution: True HD 1080p
3.	Dynamic Contrast ratio: > 1,000,000:1
4.	Viewing angle: 178 deg (horizontal – vertical) & 178 deg (left – right)
5.	Inputs: <ul style="list-style-type: none"> <li>• 02 (or more) Nos. 19 pin HDMI (HDMI 1.4)</li> <li>• 1-VGA, 1- Component, 2-Composite</li> <li>• 2-channel audio input (analog)</li> <li>• RJ-45 Ethernet port (TCP/IP)</li> <li>• Minimum 02 USB 2.0 with HD Video playback, audio playback (mp3, aac, wma, ogg), image (jpeg, png, bmp)</li> </ul>
6.	Other Features: PIP Support
7.	Wall mounting capability with two-axis swivel mounts

### Display Manager Hardware, Qty - 01 No.

The DMS hardware should be based on a COTS platform and provide the capability to create one large single seamless display on various operating systems like Windows, Windows 7 and Linux. It should allow the user to treat the multi-projector display environment as a single large screen workplace, allowing easier and better interpretation of data on a variety of applications, transparently. This should also allow directly running a selected visualization application natively in full resolution of the display. The hardware should be modular and should allow scaling of inputs as required in future by adding expansion chassis.

S. No.	Specification
1.	1 TB Storage Space, 16 GB RAM
2.	Intel 8 Core Xeon 3.0 GHz or Better
3.	08 Dual DVI/Display Port Outputs (Each supporting resolution up to 2560x1600 @60 Hz), with support for active stereo 3D on each output at 1920x1080.
4.	12 HDMI Inputs (Each support resolution up to 1920x1080 @ 60 Hz)
5.	1 VGA, 4 Composite Video/VGA Inputs
6.	Unlimited number of IP camera through surveillance server
7.	2 More or Gigabit LAN Ports
8.	1 Wireless Keyboard, 1 Wireless Optical Mouse
9.	Option to have Windows 7 64 bit Operating System
10.	Rack Mount Kit
11.	Conversion Cables for Workstation Inputs

### Display Manager Software, Qty – 01 No.

Control software is required to achieve comprehensive and efficient use of all the hardware functionality. The controller software should be robust and allow controlling the content being displayed by the display wall. Any change to the layout made via the controller software should reflect in the output of the display wall in real-time.

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S. No.	Specification
1.	Auto-detection of various external input video sources connected to the DMS
2.	Drag-and-drop user-interface to move active input video sources to the main display wall.
3.	Naming and specifying position/size of various sources on the main display wall
4.	Support for controlling all DMS parameters using a simple GUI interface. The GUI interface should be hardware accelerated and provide a device-like look-and-feel.
5.	Networking capability to allow support for real-time control for positioning and size adjustment of input sources from an external workstation/multi-touch screen
6.	Support for well documented APIs to get access and control over input video sources from OpenGL based applications. The API should allow users to develop applications that leverage the DMS hardware's input, output and processing capabilities to implement and use sophisticated post-processing algorithms on the video sources.
7.	Support for connecting to any computer system over the local TCP/IP network running VNC servers and treating them as input video sources to the DMS. It should be possible to control the remote applications by executing local mouse/keyboard events on the DMS hardware on the remote systems.
8.	For external video sources that are PC outputs, software should have support to allow control of these sources from external PC/Display Wall/Touch Screen through mouse/gesture controls to the external video sources.
9.	For external video sources that are video players with software access to play/pause video streams, the controller software should provide APIs to play/pause the video sources from external PC/Display Wall/ Touch Table.
10.	Support for defining layout presets for the entire display wall. Each preset should allow controlling the number of input sources along with the size and location of the sources on the output wall.
11.	Support for time-based switching of presets allowing different presets to become active during a user defined time interval. .
12.	Support for storing any or all of the input video/audio sources on the hard drive as a movie file for subsequent playback. The start, stop and pause operations should be controllable using an easy-to-use graphical interface.
13.	Support for storing the output of the complete display wall on the hard drive as a movie file or subsequent playback..
14.	Support for adding the current system time as a timestamp on the stored video. This time stamp should be displayed during subsequent playback on each frame.
15.	Support for cloning of video sources on the display wall
16.	Support for specifying a border width and color for video sources displayed on the wall
17.	Support for color correction and applying various image filters on the video sources
18.	Support for hardware accelerated higher-order interpolation of the video sources when scaled on the display wall.
19.	Support for Contrast and Brightness Enhancement on input video sources
20.	Support for overlaying one video source over another and doing masking operation
21.	Support for locking aspect ratio on scaled video sources

### Display Manager Console, Qty – 01 No.

A touch based management console is also required along with the DMS. This console should serve multiple functionality including lay outing video sources on the display wall or to control the visualization software running on the main display wall. The touch console should have a dedicated workstation connected.

S. No.	Specification
1.	500 GB Storage Space

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2.	Quad Core Intel Xeon 2.4 GHz processor or better
3.	8 GB DDR3 RAM or better
4.	2 GB NVidia Quadro or better
5.	27" 1920x1080 LED display panel or better
6.	6 Simultaneous Touch detection
7.	Minimum 120 hz Sampling frequency for touch
8.	Built in Calibration feature for minimum 4 points
9.	The touch screen controller should be installed along with a table top screen and configured to run the entire display wall through the DMS controller software.
10.	The Multi-touch screen's user interface should allow multiple touch interfaces concurrently. This should include support for multiple fingers, both hands. Multiple user interaction should also be possible.
11.	The touch screen should come with a gesture library including a set of intuitive inbuilt gestures for the DMS controller software. This is similar to the user interface provided on Apple's iPhone and iPad products that allow ease-of-use during user interaction.
12.	For external PC video sources, it shall be possible to control the PC applications from the touch table using the DMS controller software features mentioned in previous section.
13.	The touch screen controller should be based on Windows 7 or later Operating System
14.	The touch screen controller should be configured to control the mission briefing software using touch gestures

### **Control System, Audio and Accessories**

#### **Cabling and Networking, Qty – 01 Kit**

The complete control from the user consoles should be available using a multiple devices which allow video as well as USB connectivity to the workstations.

S. No.	Specification
1.	Sufficient No. of Video over Dual Cat 6 for connecting 12 Display Devices each capable of transmitting 1920x1080 @ 60 hz
2.	Sufficient No. of USB over cat6 as per requirement
3.	2 No. of Pop-out cable cubbies, each with HDMI port for connecting external laptops to DMS, Audio Inputs to Audio System, and Power
4.	2 No. of 24 Port 1 GB Network Switch
5.	2 No. of 8 Port Network Switch for control accessories
6.	16 No. of Rj45 Sockets on the User Consoles

#### **Audio System, Qty – 01 Kit**

S. No.	Feature	Specification
<b>Digital Signal Processor – 01</b>		
1.	Analog Inputs	12 electronically balanced on Phoenix Combicon removable screw connectors
2.	Input Impedance	3.0kΩ
3.	Phantom Power	48V nominal, selectable per input
4.	Analog Outputs	8 electronically balanced on Phoenix/Comb icon removable screw connectors
5.	Frequency Response	20Hz-20KHz (+0.5dB/-1dB)
6.	AEC Processing	12 independent algorithms

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7.	Control Network Connectors	RJ45 Ethernet connector
8.	Configuration and control	Configuration, Control and Monitoring Through Control Software
<b>Speakers – 08</b>		
1.	Frequency Range (-10 dB)	70 Hz - 23 kHz
2.	100 Hr Power Capacity	200 Watts Continuous Program Power 100 Watts Continuous Pink Noise
3.	Nominal Impedance	8 ohms
<b>Amplifier - 02</b>		
1.	Rated Output Power	2Ω Dual (per channel) 1050W, 4Ω Dual (per channel) 650W, 8Ω Dual (per channel) 375W, 8Ω Bridge 1300W, 4Ω Bridge 2100W.
2.	Crossover Frequency Range	50 Hz - 3 kHz
3.	Amplifier Class	Class D Amplifier
4.	Load Impedance	2 to 8 ohms per channel in Stereo, 4 to 8 ohms in Bridge Mono.
5.	Signal-to-Noise Ratio	>103 dB
6.	Total Harmonic Distortion (THD)	< 0.5%
7.	Input Impedance (nominal)	20 kilohms balanced, 10 kilohms unbalanced.
<b>Microphones – 06</b>		
<b>Handheld/Lapel Microphones compatible with the above system</b>		Qty. 02
2.	Frequency bands: A:	A: 530,025 – 559,000 MHz; U1: 606,100 – 613,900 MHz; U2: 614,100 – 629,900MHz; B1: 748,100 – 751,900 MHz; B2: 774,100 – 777,900 MHz; M: 826,300 – 831,000 MHz; D: 863,100 – 864,900 MHz; K: 925,100 – 931,850 MHz
3.	RF output	10, 20 or 50 mW (depending on frequency band)
4.	Audio bandwidth	40 – 20 000 Hz (+/- 3dB)
5.	Tuning range	Up to 30 MHz (depending on frequency band)
6.	Max. channels	Up to eight compatible channels within one frequency band
7.	Maximum audio level	12dB
8.	Rated Impedance	1 Ohms
9.	Signal to noise	105 dB-A
10.	THD at 1kHz	0.8%
11.	Audio bandwidth	40 – 20 000 Hz (+/- 3dB)
12.	Transmitter synchronization	Manual
<b>Table Top/Gooseneck Microphones compatible with the above system</b>		Qty. 04

### Control System, Qty – 01 Kit

The display environment should come with an integrated control system, capable of controlling the proposed control room equipment, including the display system, audio, media & lighting systems. The control system user interface should provide following functionality at the minimum:

- Projector Control
  - On/Off
- Lighting Control

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- On/Off
- Dimming
- Audio Control
  - On/Off
  - Volume Control
- HDTV Control
  - On/Off
- Control of Console equipment
  - On/Off

S. No.	Requirements
1.	1 Equipment Controller: <ul style="list-style-type: none"> <li>➤ 3 Configurable RS232 ports</li> <li>➤ 4 IR/Serial Ports</li> <li>➤ 1 RJ45 Port</li> </ul>
2.	1 Control Panel: <ul style="list-style-type: none"> <li>➤ 9.7" or more Multitouch Wireless Controller</li> <li>➤ 1280x720 or more resolution</li> <li>➤ USB charging</li> <li>➤ Android/IOS/Windows OS</li> </ul>
3.	1 Control Software with: <ul style="list-style-type: none"> <li>➤ Projectors Turn on/off</li> <li>➤ Workstation Turn on/off</li> <li>➤ Light Presets – Immersion, All On, All Off, Presentation Mode</li> <li>➤ Audio Controls – Mute/Unmute, Volume Control of individual sources</li> <li>➤ Projectors Menu Control</li> <li>➤ Projectors Status View (Lamp Life)</li> </ul>
4.	1 Light Controller: <ul style="list-style-type: none"> <li>➤ 4 Switch Module to control 4 Zones of lighting including turn on/off</li> <li>➤ 4 Dimmer Module to dim 4 zones of LED spotlights</li> <li>➤ Interface with Equipment controller over RJ45 or RS232 etc.</li> <li>➤ 1 x Programmable Physical Button Panel</li> </ul>

### Equipment Rack, Qty – 01 No.

S. No.	Specification
1.	36 U Equipment Rack
2.	Cooling Fans as well as sufficient wire managers to house the above
3.	Front Glass Door and Perforated Rear Door

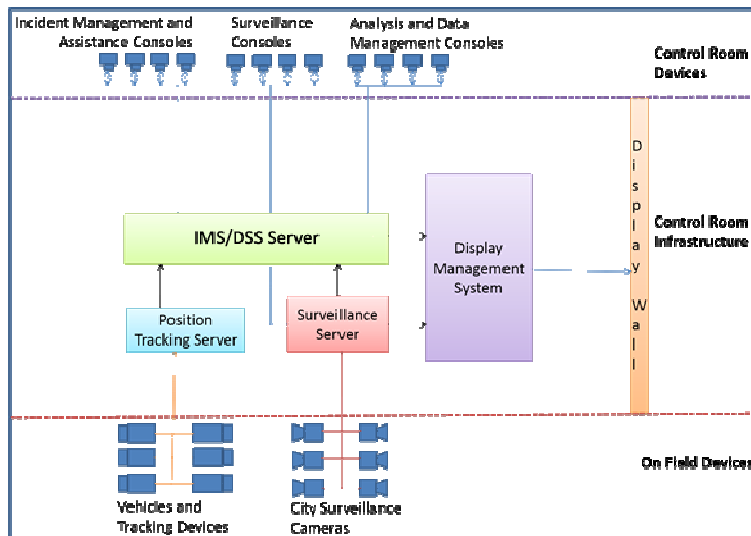
### Accessories

S. No.	Specification
1	The numbers of equipment rack, networking and cabling requirements are tentative. Vendor should include appropriate equipment racks, rack mount kits, power distribution kits and cooling equipment required to house all the server equipment in the control room.
2	Vendor should include appropriate number of Gigabit Ethernet switches and high-quality network cabling to connect various servers and application workstations offered with the solution.

### Functional Requirements with scalability factors

The following section details the high level components and functionality required by the EOC.

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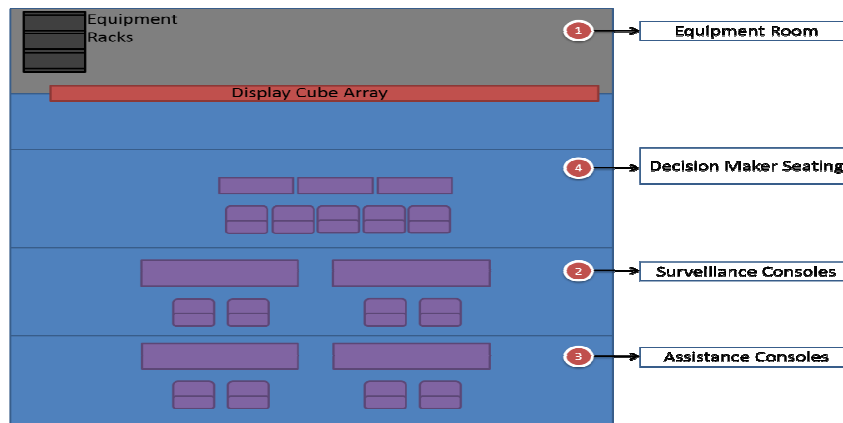


Control Room Architecture

The control room required multiple subsystems to allow for efficient usage of the on-field devices, and provide proper control and interfaces to view, manage, track, update the data and provide assistance to on-field units. Some of the major component and their functionality include:

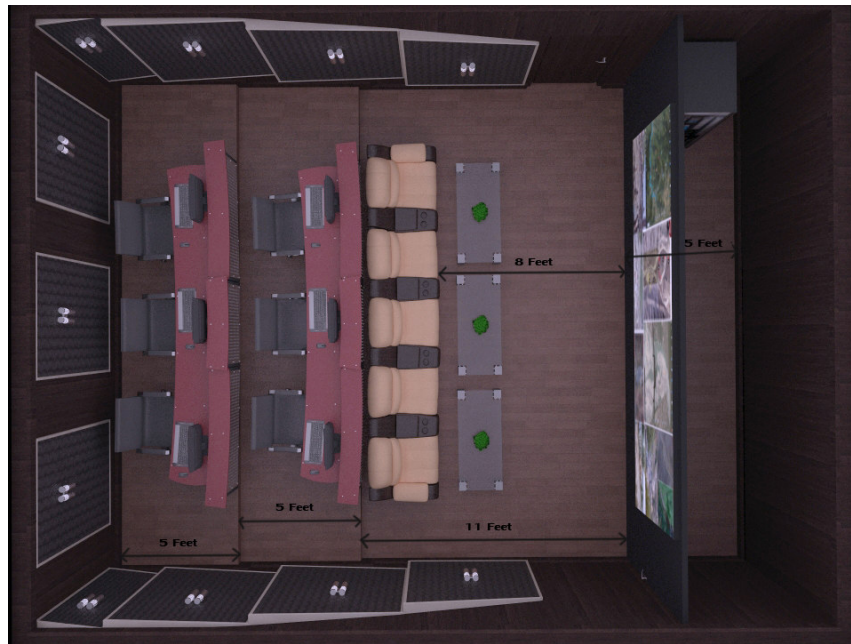
- IMS/DSS Server (Already Existing):** This server will host the Incident Management/ Decision Support System for the EOC. IMS allows stakeholders to share of visual and textual information on various aspects of a disaster to decision makers working at State, District and disaster sites. This information can be images, screenshots and video. Objectives of Incident Management System are:
  - To provide a consistent state-wide approach for State, and local governments to work effectively and efficiently together to prepare for, respond to, and recover from domestic incidents, regardless of cause, size, or complexity.
  - To provide for interoperability and compatibility among State, and local agencies
- Display Management System (DMS):** There is a multitude of data available at decision maker's disposal. The DMS allows taking multiple video input sources including cctv video footage, GIS applications, users console displays, video conferencing system. The DMS system allows display of all the video input feeds and views them on a single large display screen. The PIP sources can be arranged/sized based on the requirement at hand.
- High Resolution Display Wall:** This is a High Resolution Video Wall that allows seeing multiple video inputs, without losing details.
- Consoles (Existing):** Besides this multiple computer nodes are required that allow varied functionality, the key being utilized for surveillance, data management, analysis and GIS mapping, incident management and assistance.
- Surveillance Server (not required currently):** This is the server which connects to the on-field cctv camera servers and allow control and display of feed for any of the camera on the field.
- Position Tracking Server (not required currently):** This server continuously gets data from the gps tracked vehicles/units and stores provide assistance to the ground units as required

## Physical Layout

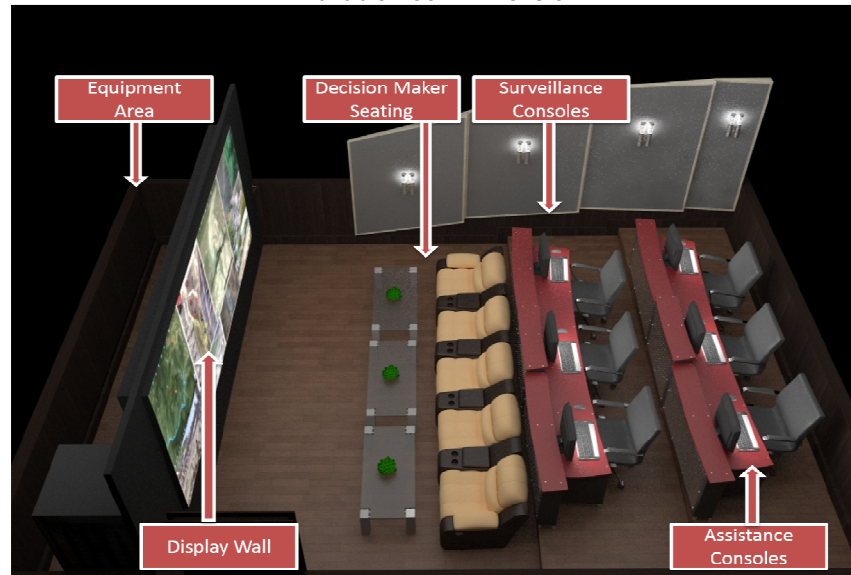


The above figure shows the envisaged layout including the locations of the key components to be installed and commissioned in the EOC. The following picture is artistic rendition of the envisaged layout of the room.

# WEBEL TECHNOLOGY LIMITED



Available Room Dimension



Room Layout

The room is to be divided into two sections, the Machine/Equipment Area and the operational Area. These two areas should be divided by the display screen. This design should offer ensure the following:

- The equipment room is separate and shields the users from unnecessary heat and noise.
- It allows maintenance and update operations even while the control room is operational
- It keeps all the data secure as unauthorized entry can be restricted
- The seating for the operational area is on a stair structure to allow proper visibility of the console as well the main display without any hindrance.

**Surveillance Consoles:** These are two consoles dedicated for surveillance related activities, the seating capacity should be based on the overall requirement. The main activity persons utilizing these consoles would be to keep an overall watch on the entire happening of the city. They can utilize the OPS software to input data or query required information from the database.

**Assistance Consoles:** These consoles would seat dedicated officers giving advice and assistance to unit on field based on the information available in the control room. They would have access to GPS tracked units data, and would be able to query or connect to them directly. They would be able to send them assistance based on the feedback from other units or from the surveillance data.

**Decision Maker Consoles:** These consoles would be used to seat the Control Room Incharge or the key decision makers include Police Commissioner or other important decision makers. These would act crucial in case of important events or VIP movements where critical decisions as well as review of specific operations taking place.

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The key components included as part of the required solution includes:

- Ultra thin bezel display environment based on 9-channel high resolution DLP cubes
- Display Management System to manage the multiple video sources and their position on the display wall
- Interactive Multi-touch table to allow easy interaction and briefing

## Key Features

The key features of Command and Control technical solution include:

- High Resolution 3D Display (~18 Megapixel) with 9 Channels using 9 cubes with size of approximately 15 feet x 8.5 feet
  - Each Cube with a 3D resolution of 1920x1080
  - 24x7 with redundant LED make it perfect for round the clock control room operation.
  - Uniformity in color& brightness by inbuilt spectrometer based self-calibration
- User Friendly Software Interface for Display Management
  - Multiple simultaneous input
  - Multiple image sources can be arranged in any size & at any position on the screen
- Control of the entire environment can be done with just touch of a finger which includes
  - Display system on/off switching
  - Audio control
  - Input source selection
  - Resizing & Repositioning of any window



# WEBEL TECHNOLOGY LIMITED

## SECTION – D

### DATE AND TIME SCHEDULE

<b>Sl. No.</b>	<b>Particulars</b>	<b>Date &amp; Time</b>
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	21.06.2016
2	Documents download/sale start date (Online)	21.06.2016
3	Last Date and time of sending the queries (Offline)	27.06.2016 at 16.00 hrs
4	Pre Bid Meeting at WTL Office (Off Line)	29.06.2016 at 15.00 hrs
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	05.07.2016 at 10.00 hrs
7	Last Date & time of submission of original Demand Draft/Pay Order for cost of Earnest Money Deposit (Off line)	13.07.2016 at 11.00 hrs
8	Last Date & time of submission of original Demand Draft/Pay Order for cost of Tender Documents, in case the bidder did not attend the Pre Bid Meeting (Off	13.07.2016 at 11.00 hrs
9	Bid Submission closing date & time (On line)	11.07.2016 at 17.00 hrs
10	Bid opening date & time for Technical Proposals (Online)	13.07.2016 at 11.30 hrs
11	Date of uploading the final list of Technically Qualified Bidder (online) after disposal of appeals, if any	-
12	Date for opening of Financial Bid (Online)	-

# WEBEL TECHNOLOGY LIMITED

## SECTION - E

### ELIGIBILITY CRITERIA

#### **Part A: EXISTENCE OF THE BIDDER**

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder must have an own office in India with valid statutory registration. Valid statutory registration document to be submitted.
3. The bidder should have valid VAT /CST Certificate, Service Tax Registration Certificate & Trade License. Copy of the documents to be submitted.

#### **Part B: TECHNICAL QUALIFICATION CRITERIA**

1. The bidder shall have independently executed four orders of similar projects covering installation of similar high resolution display with similar technology of at least Rs. 100 lakhs in total preferably in a Government Department/PSU/Autonomous Body/ Any reputed organisation in India during last three financial years (2013-14, 2014-15 & 2015-16). Self Attested photocopy of order and completion report of all the four Projects to be submitted.
2. The bidder shall have to submit Tender specific Manufacturer's Authorizations for all the products strictly as per format (Section - P), without which the offer will be treated as non-responsive and summarily rejected.
3. Bidder or the OEM of the 3D rear projection DLP cubes whose product is quoted should have atleast three (03 nos.) of installations in India based on 3D rear projection DLP cubes, with each installation providing atleast 8 million pixels of resolution in 3D. Self Attested photocopy of installation to be submitted.
4. The bidder should have an aggregate annual turnover of not less than Rs 30.00 Crores covering the last three financial years (FY- 2013-14, 2014-15 & 2015-16). Bidder shall have to submit Audited Accounts / Auditor Certificate in support of their claim. Provisional Certificate of 2015-16 is acceptable.
5. Bidder should submit Earnest Money Deposit (EMD) of Rs.1000000.00 (Rupees Ten Lakh only) in the form of Demand Draft from any Scheduled Bank in favour of Webel Technology Limited payable at Kolkata.
6. Bidder should submit Tender Fee of Rs.6000.00 (Rupees Six Thousand only) to Webel Technology Limited in the form of Demand Draft from any Scheduled Bank in favour of Webel Technology Limited payable at Kolkata.
7. The bidder shall have Quality Certificate (ISO 9001:2008). Copy of valid Certificate to be submitted.
8. The bidder should have an Own Call Centre (number to be specified) operational on all days of the year except Sundays & National holidays. OEM Call Centre number will not be treated as bidder's call centre number. Call Center details with number & details to be submitted duly stamped & signed.
9. Technical Compliance Sheet has to be complied in all respect. Brochures with the page number against each compliances to be submitted as per format (Section - K).
10. The details of Make & Model (Section - J) to be submitted as per format.
11. The bidder shall submit a certificate from any of the authorized signatory of the company authorizing a person to sign all relevant papers related to this bid on behalf of the company.
12. The bidder shall submit Bid Form (Section - H) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
13. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral / multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.
14. No consortium will be allowed in this bid. Bid shall be submitted by the bidder only. Declaration on bidder's letter head in this regard shall be submitted with the bid.

## **WEBEL TECHNOLOGY LIMITED**

15. The main components of the system including Display Panels and Display Management System should have manufacturing/country of origin in India. The service center of the same should also be in India. Appropriate documentation from OEM regarding the same should be submitted.
16. The Quoted 3D rear projection DLP cubes should be a standard COTS & Catalogued product of the OEM. Appropriate documentation from OEM regarding the same should be submitted.

# WEBEL TECHNOLOGY LIMITED

## SECTION – F

### INSTRUCTIONSTOBIDDER

#### 1. DEFINITIONS

In this document, the following terms shall have following respective meanings:

“**Acceptance Test Document**” means a document, which defines procedures for testing the functioning of installed system. The document will be finalized with the contractor within 7 days of issuance of the Letter of Award.

“**Bidder**” means any firm offering the solution(s), service(s) and /or materials required in the RFP. The word Bidder when used in the pre award period shall be synonymous with Bidder, and when used after award of the Contract shall mean the successful Bidder to whom WTL will place the PO/WO

“**Contract**” is used synonymously with Agreement.

“**Contract Price**” means the price to be paid to the Contractor for providing the Solution, in accordance with the payment terms.

“**Contractor**” means the Bidder whose bid to perform the Contract has been accepted by Tender Committee and is named as such in the Letter of Award.

“**Default Notice**” shall mean the written notice of Default of the Agreement issued by one Party to the other.

“**Fraudulent Practice**” means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive Disaster Management Department, GOWB of and eventually Gov. of W. Bengal of the benefits of free and open competition.

“**Good Industry Practice**” shall mean the exercise of that degree of skill, diligence and prudence which would reasonably and ordinarily be expected from a reasonably skilled and experienced Operator engaged in the same type of undertaking under the same or similar circumstances.

“**Government**” / “**Gov. of W. Bengal**” means the Government of West Bengal. “**GoI**” shall stand for the Government of India.

“**GoWB**” means Government of West Bengal

“**Personnel**” means persons hired by the Bidder as employees and assigned to the performance of the Infrastructure Solution or any part thereof.

“**Project**” Setting up of EOC for Disaster Management Department, GoWB

“**Implementation Period**” shall mean the period from the date of signing of the Agreement and up to the issuance of Final Acceptance Certificate for the project.

“**Services**” means the work to be performed by the Bidder pursuant to this Contract, as described in the detailed Scope of Work.

“**Similar Nature**” includes Projects covering Installations of similar high resolution display with similar technology

“**Law**” shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Central Government and/or the Government of West Bengal or any other Government or regulatory authority or political subdivision of government agency.

“**LOI**” means issuing of Letter of Intent shall constitute the intention of the WTL to place the Order with the successful bidder.

“**Operator**” means the company providing the services under Agreement.

“**Requirements**” shall mean and include schedules, details, description, statement of technical data, performance

# WEBEL TECHNOLOGY LIMITED

characteristics, standards (Indian as well as International) as applicable and specified in the Contract.

“**Service**” means provision of Contracted service viz., operation, maintenance and associated services for DEPLOYED SYSTEMS as per Section titled “Scope of Work”

“**Termination Notice**” means the written notice of termination of the Agreement issued by WTL.

“**DMD, GOWB**” means Disaster Management Department, GoWB

“**EOC**” means Emergency Operating Centre.

“**WTL**” means Webel Technology Limited a Gov. of W. Bengal undertaking.

## 2. **PRE BID MEETING**

Pre Bid Meeting will be held on 29.06.2016 at 15.00 hrs at premises of WTL. Bidder can send their queries as per format (Section - O) to Mr. Arunava Saha, Manager (Purchase)/Ms. Anita Dey & copy to Mr. S. Das Sarma, Project Head & Mr. S. Pal, Project Engineer. Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. The entrance to the Pre Bid Meeting will be limited to two persons per bidder who will submit Tender Fee before the Pre Bid Meeting and carrying valid authorization letter on official letter head bearing company seal.

## 3. **COST OF BIDDING**

The bidder shall bear all costs associated with the preparation and submission of the bid and WTL will no case be responsible for those costs regardless of the conduct or outcome of the bidding process.

## 4. **BID DOCUMENT**

Bidder is expected to examine all instructions, forms, terms and requirement in the bid document. The invitation to bid together with all its attachment thereto shall be considered to be read, understood and accepted by the bidder unless deviations are specifically stated in the seriatim by the bidder. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result of the bid being summarily rejected.

## 5. **AMENDMENT OF BID DOCUMENT**

At any time prior to the deadline for submission of proposals, WTL reserves the right to add/modify/delete any portion of this document by issuance of an Corrigendum, which would be published on the website and will also be made available to the all the Bidder who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

## 6. **MODIFICATION AND WITHDRAWAL OF BIDS**

As per the bidding process available in the tender.

## 7. **LANGUAGE OF BID & CORRESPONDENCE**

The proposal will be prepared by the Bidder in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & WTL will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

## 8. **BIDDER'S SOLUTION**

The bidders are requested to study the Bill of Material supplied with this document carefully. While working out the solution the bidder has to work with the broad minimum specification provided in the tender documents, conforming to the model, make and Part number (wherever provided). While submitting the bid the bidder has to detail out all components needed to complete the system BOM. The bidder is required quote for each item retaining all major components/sub system detailed and specified. As the contractor will be responsible fro smooth functioning of the system, availability of spares during the tenure of the warranty period has to be take care by the contractor to maintain the guaranteed uptime.

## 9. **EARNEST MONEY DEPOSIT (EMD)**

The bidder shall transfer the EMD amount of Rs.1000000/- (Rupees Ten lakh only) to Webel Technology Limited account as detailed in tender. Any bid not accompanied with the EMD shall be rejected.

## 10. **FORFEITURE OF EMD**

EMD made by Bidder may be forfeited under the following conditions: If

Bidder withdraws the proposal before the expiry of validity period.

# WEBEL TECHNOLOGY LIMITED

During the evaluation process, if a Bidder indulges in any such activity as would jeopardize the process, the decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.

If Bidder violates any of the provisions of the terms and conditions of the proposal. In

the case of a successful Bidder, if Bidder fails to:

- a) Accept the work order along with the terms and conditions.
- b) Furnish performance security.
- c) Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
- d) Submitting false/misleading information/declaration/documents/proof/etc.

The decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances, besides, forfeiture of EMD even the Bidder will be deferred from participating in any job for a period of one year.

## 11. FORMS AND FORMATS

The various inputs for the Techno Commercial and Financial Bids are to be submitted in the format specified. The bidder shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

## 12. LACK OF INFORMATION TO BIDDER

The bidder shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the bidder of his responsibility to fulfill his obligation under the bid. If bidder has any queries relating to bid document then he can send the queries before the Pre Bid Meeting.

## 13. CONTRACT EXECUTION

On receipt of the Letter of Award/Order the contractor should submit a Performance Bank Guarantee (PBG) equivalent to 10% of the total contract value within two weeks from the date of receipt of Letter of Award/Order. The PBG should be valid for six month more than the service period. All delivery will have to be completed as per the time schedule from the date of acceptance of contract and the contractor has to ensure all activities leading to the work of the contract to be completed as stipulated from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite work as per scope.

## 14. TIME SCHEDULE FOR SCOPE OF WORK & RESPONSIBILITY

Scope of Work defined in Section – B. Installation Completion Time: Within 24 weeks from the date of issuance of LOI / order from WTL.

## 15. LIQUIDATED DAMAGE / PENALTY

The job includes the deliverables mentioned in the tender document. In the event of failure to meet the job completion in stipulated date/time liquidated damage may be imposed on the contractor for sum not less than 0.5% of the contract value for that Stage, for each week or part thereof, subject to a ceiling of 10% of the total contract value (including all taxes & duties and other charges). In the event of LD exceeds 10% of the order value, WTL reserves the right to terminate the contract and WTL will get the job completed by any other competent party. The difference of cost incurred by WTL will be recovered from the contractor and PBG will be invoked.

## 16. SUSPENSION OF WORK

WTL shall have the power at any time and from time to time by notice to the Contractor to delay or suspend the progress of the work or any part of the work due to any other adequate reasons and on receipt of such notice the contractor shall forthwith suspend further progress of the work until further notice from WTL. The Contractor shall recommence work immediately after receiving a notice to do so from WTL. The whole or any part of the time lost for such delay or suspension shall, if WTL in its absolute discretion thinks fit, but not otherwise, be added to the time allowed for completion.

## 17. LIABILITY

In case of a default on bidder's part or other liability, WTL shall be entitled to recover damages from the Contractor. In each such instance, regardless of the basis on which WTL is entitled to claim damages from the Contractor (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), Contractor shall be liable for no more than:

- Payment referred to in the Patents and Copyrights clause.
- Liability for bodily injury (including death) or damage to real property and tangible personal property limited to that cause by the Contractor's negligence.

# WEBEL TECHNOLOGY LIMITED

- As to any other actual damage arising in any situation involving non-performance by Contractor pursuant to or in any way related to the subject of this Agreement, the charge paid by WTL for the individual product or Service that is the subject of the Claim. However, the contractor shall not be liable for
- For any indirect, consequential loss or damage, lost profits, third party loss or damage to property or loss of or damage to data.
- For any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contractor hereunder.

## 18. PATENTS & COPYRIGHT

If a third party claims that a product delivered by the Contractor to WTL infringes that party's patent or copyright, the Contractor shall defend WTL against that claim at Contractor's expense and pay all costs, damages, and attorney's fees that a court finally awards or that are included in a settlement approved by the Contractor, provided that WTL.

- Promptly notifies Contractor in writing of the claim
- Allows Contractor to control and co-operate with Contractor in the defense and any related settlement negotiations.

Remedies: If such a claim is made or appears likely to be made, WTL would permit Contractor to enable WTL to continue to use the product, or to modify it, or replace it with one that is at least functionally equivalent. If Contractor determines that none of these alternatives is reasonably available, WTL agrees to return the product to Contractor on Contractor's written request. Contractor will then give WTL a credit equal to for a machine. WTL's net book value (provided WTL has followed generally accepted accounting principles for a generally available software product produced by Contractor (Program) the amount paid by WTL or 12 months charges (whichever is lesser) and for materials the amount paid by WTL for the materials. These will be Contractor's entire obligation regarding any claim of infringement.

## 19. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from relevant customer, i.e., Department of Disaster Management, Government of West Bengal. The mode of payments to be made in consideration of the work to be performed by the bidder shall be as follows:

- 60% against delivery for all IT Hardware and Software products
- 40% after successful installation and commissioning.

After completion of job, pre-receipted bills in triplicate along with necessary delivery challans and related documents should be submitted to the authority placing the order for arranging the payment. All payments will be made through A/C payee cheque only.

## 20. GOVERNING LAWS

This contract should be governed by and interpreted by Arbitration clause in accordance with Laws in force in India. The courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract. The selected vendor shall keep himself fully informed of all current national, state and municipal law and ordinances. The selected vendor shall at their own expense, obtain all necessary permits and license and pay all fees and taxes required by law. These will be selected vendor's entire obligation regarding any claim of infringement. The selected vendor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The selected vendor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

## 21. CORRUPT OR FRAUDULENT PRACTICES

The Tender Committee requires that the bidders under this Tender observe the highest standards of ethics during the procurement and execution of such contracts. For this purpose the definition of corrupt and fraudulent practices will follow the provisions of the relevant laws in force. The Tender Committee will reject a proposal for award if it detects that the bidder has engaged in corrupt or fraudulent practices in competing for the contract in question. The Tender Committee will declare a firm ineligible, either indefinitely or for a stated period of time, if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

## 22. BINDING CLAUSE

All decisions taken by the Tender Committee regarding the processing of this tender and award of contract shall be final and binding on all parties concerned. The Tender Committee reserves the right:

- To vary, modify, revise, amend or change any of the terms and conditions mentioned above and,
- To reject any or all the Tender/s without assigning any reason whatsoever thereof or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

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## 23. WORKMEN'S COMPENSATION

In every case in which by virtue of the provision of the workmen's compensation Act 1923 or any other relevant acts and rules, compensation to a workmen employed by the contractor, is payable, then this should be done by the Contractor. If WTL is obliged to make any compensation under the said rules and acts, then the amount shall be recovered without prejudice, from the bills and due of the Contractor. WTL shall not be bound to contest any claim made against the Contractor in respect of workmen's compensation.

## 24. CONTRACTOR'S EMPLOYEES

The Contractor shall comply with the provision of all labour legislation including the requirement of the payment of Wage Act 1936 and the rules framed there under and modifications thereof in respect of men employed by him in carrying out the contract. The Contractor must ensure that he complies with PF, ESI regulation for all his deployed employees.

## 25. SAFETY MEASURES

The Contractor shall in the course of execution of the work take all necessary precaution for the protection of all persons and property. The Contractor shall take adequate measures to protect the work and prevent accident during the work. In the event of any accident to any person or persons or damage or injury of any description to any person or property due to failure on the part of the contractor in taking proper precautionary measures the contractor shall be responsible for and must make good the loss the damage at his own cost to the satisfaction of the department and employees of the department shall be indemnified from all claims or liabilities arising there from or any expenses incurred on account thereof.

## 26. EQUIPMENT

All tools & tackles necessary for the work shall have to be procured by the contractor unless other wise specified elsewhere in these tender documents. The equipment used by the contractor for a particular work must be appropriate for the type of work. The contractor shall maintain the equipment used on the work properly so that they are in good working condition. In no case shall the contractor use defective or imperfect equipment in the work. The contractor shall arrange to replace or repair all defective equipment so that the progress of the work is not hampered. No defective equipment should be left at the site of work and the department shall not be responsible for any loss or damage to any of these equipments during the course of the execution of the work.

## 27. SUB-CONTRACT

The purchaser (WTL) does not recognize the existence of Sub-Contractors. The Contractor's responsibility is not transferable.

## 28. TERMINATION FOR DEFAULT

WTL may without prejudice to any other remedy or right of claim for breach of contract by giving not less than 30 days written notice of default sent to the contractor, terminate the order in whole or in part. If the contractor materially fails to render any or all the services within the time period specified in the contract or any extension thereof granted by WTL in writing and fails to remedy its failure within a period of thirty days after receipt of default notice from WTL. If the project (delivery, commissioning as well as warranty maintenance support is not carried out according to specification due to deficiency in service as per terms of the contract. In such case WTL will invoke the amount held back from the contractor as PBG.

## 29. BANKRUPTCY

If the contractor becomes bankrupt or have a receiving order made against him or compound with his creditors or being a corporation commence to be wound up, not being a voluntary winding up for the purpose only or amalgamation or reconstruction, or carry on their business under a receiver for the benefit of their creditors or any of them, WTL shall be at liberty to terminate the engagement forthwith without any notice in writing to the contractor or to the liquidator or receiver or to any person in whom the contractor may become vested and without any compensation to give such liquidator or receiver or other person the option of carrying out the engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by WTL.

## 30. FORCE MAJEURE

It is hereby defined as any cause, which is beyond the control of the Contractor or WTL as the case may be, which such party could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as

- War, Hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war.
- Rebellion, revolution, insurrection, mutiny, usurpation of civil or military, government, conspiracy, riot, civil commotion and terrorist area.



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- Confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de facto authority or ruler, or any other act or failure to act of any local state or national government authority.
- Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage of power supply epidemics, quarantine and plague.
- Earthquake, landslide, volcanic activity, fire flood or inundation, tidal wave, typhoon or cyclone, hurricane, nuclear and pressure waves or other natural or physical disaster.

If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fourteen days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed.

The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upto its or their performance of the Contract and to fulfill its or their obligation under the Contract but without prejudice to either party's right to terminate the Contract.

No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall.

- Constitute a default or breach of the contract.
- Give rise to any claim for damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

### 31. INSURANCE COVERAGE

Appropriate insurance to cover all solution components for the transit period and until the time of its acceptance at the respective site is to be taken by the contractor. As the contractor will carry the risk for the material in his books during transit, the contractor should arrange insurance for the total system as period from the dispatch till Acceptance Test is successfully achieved. Further the contractor is to take all required insurance coverage in respect of all its personnel who shall be working on this engagement.

### 32. WARRANTY

The successful bidder will warranty that items (hardware & software) supplied under the contract are newly made and are free from defects in the design, engineering and workmanship. The successful bidder will be responsible for the up keep and maintenance of the infrastructure and necessary deliverables under the scope of work during the entire warranty period. The successful bidder must furnish warranty for all items (hardware & software) supplied for a period of 24 months (2 years) from the date of successful commissioning of overall configuration as certified by Disaster Management Department, GoWB (Completion Certificate). Service support for the entire warranty period will be on site and comprehensive (including spares) and free of cost for the entire warranty period.

### 33. WARRANTY SUPPORT

The total system will be warranted against bad workmanship and manufacturing defects from the date of acceptance of the system whole or part. Service support for the entire warranty period will be on site and comprehensive (including spares and all software support) and free of cost for the entire warranty period.

The bidder should have a call centre working from at least 10:00 hrs. to 17:30 hrs. in Kolkata. The contact details of the call centre must be furnished along with the bid. Any call logged with the service centre must be given a running docket number to the person reporting the call.

The average uptime averaged over each quarter should be as follows:

Category	Uptime Requirement	Response Time Requirement	Maximum Downtime permitted per instance
Equipment located in "Nabanna"	99.0%	48 Working Hours	24 Working Hours

If the uptime goes below the prescribed limit in any quarter, the same will be noted. At the scheduled end of the warranty period the total of such deviation will be done and the contractor will have to extend the warranty support by the default time. Penalty shall be deducted for deviation of warranty support.

### 34. PERFORMANCE BANK GUARANTEE (PBG)

As a guarantee for timely delivery, installation & commissioning of equipment / completion of job as per the scope as well as performance of on-site warranty support from the date of final acceptance of systems and pertaining to proper running of the systems, the bidder will have to submit 10% of the contract value as security in the form of Performance Bank

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Guarantee from any nationalized/scheduled bank valid for 90 days beyond the warranty period. P B G to be submitted within 15 days from the date of issuance of order as per format enclosed (Section – Q).

## 35. CONTRACTOR'S RESPONSIBILITIES

The contractor shall conduct all contracted activities with due care and diligence, in accordance with the contract and with the skill and care expected of a competent provider of Infrastructure Solution facility creator, subsystems and other related services or in accordance with best industry practices.

The contractor confirms that it has entered into this contract on the basis of a proper examination of the data relating to the facility provided by WTL and on the basis of information that the contractor could have obtained from a visual inspection of the site. The contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the contract.

The contractor shall be responsible for onsite delivery, timely provision of all resources, information and decision making under its control that are necessary to reach a mutually agreed and finalized project within the time schedule. The contractor shall acquire in its name all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings that are necessary for the performance of the contract.

The contractor shall comply with all relevant laws in force in India. In particular, the contractors shall provide and employ only such personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.

The contractor assumes primary responsibility for all the testing for the Infrastructure Solution, in accordance with relevant provision of this tender.

To achieve the above deliverables the contractor on receipt would:

- Designated a single point of contact within seven days from the award of contract
- Submit detailed Implementation Plan. This should also indicate expected dates of the events
- Submit a mutually approved Acceptance Test Procedure in consultation with WTL
- Offering of equipment for pre-delivery inspection
- Delivery of equipment
- Installation and commissioning
- Set up central monitoring facility
- Final Acceptance of deployed systems

## 36. PURCHASER'S RESPONSIBILITIES

WTL shall be responsible for provision of all resources, access and information under its control that are necessary during implementation of work relating to this job. The confidentiality of the data being shared shall be maintained.

The following facilities shall be provided for working on the assignment:

- WTL will work with the Department of Disaster Management to identify the site needed for installation of equipment.
- Once the vendor receives all the scheduled material at their Kolkata warehouse, the vendor should inform WTL its readiness to offer the material for conducting the pre-delivery inspection.
- WTL would depute its representative within seven days from the receipt of the intimation from the vendor, to conduct the pre-dispatch inspection.
- WTL or its representative will supervise the Installation and commissioning Test of equipment and services including Partial Acceptance/Final Acceptance Test as per laid down criteria. The contractor to conduct such test shall provide all assistance.

## 37. NO WAIVER OF RIGHTS

Neither the inspection by WTL or any of their agents nor any order by WTL for payment of money or any payment for or acceptance of the whole or any part of the works by WTL, nor any extension of time, nor any possession taken by WTL shall operate as a waiver of any provision of the contract or of any power reserved to WTL, or any right to damages here in provided, nor shall any waiver of any breach in the contract be held to be a waiver of any other subsequent breach.

## 38. GRAFTS, COMMISSIONS, GIFTS, ETC.

It is the Purchaser's policy to require that bidders, suppliers, contractors and consultants under contracts, observe the highest standard of ethics during the procurement and execution of such contracts. Any graft, commission, gift or advantage given, promised or offered by or on behalf of the contractor or his partner, agent, officers, director, employee or servant or any one on his or their behalf in relation to the obtaining or to the execution of this or any other contract with WTL shall in addition to any criminal liability which it may incur, subject the contractor to the cancellation of this and all other contracts and also to payment of any loss or damage to WTL resulting from any cancellation. WTL shall then be entitled to deduct the amount so payable from any monies otherwise due to the contractor under contract.

## 39. ENFORCEMENT OF TERMS

The failure of either party to enforce at any time any of the provision of this contract or any rights in respect thereto or to

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exercise any option here in provided shall in no way be construed to be a waiver to such provisions, rights or options or in any way to affect the validity of the contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have hereunder.

## 40. PERIOD OF VALIDITY OF OFFER

For the purpose of placing the order, the proposals shall remain valid till 180 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, WTL may ask for extension of the period of validity and such a request shall be binding on Bidders. WTL's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

## 41. TAXES & DUTIES

- The prices shall be inclusive of all taxes & levies including Service Tax. However the rate of taxes should be indicated separately in the Financial Bid/Bill. The Purchaser shall reimburse taxes and levies at actual as applicable at the time of delivery.
- The Purchaser shall be authorized to deduct any tax as applicable from the bidder from the bidder's payment.
- For the purpose of the Contract, it is agreed that Contract Price specified in Financial Bid, is based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission date. If any rate of tax changes and new tax rate is introduced then it will be accessed on the Bidder in connection with the performance of the Contract, an equitable adjustment of the Contract Price or deduction there from as the case may be.
- Deduction of all statutory and necessary Tax from each bill will be made as per Act/Government Order prevailing at the time of payment. Necessary tax deduction certificate will be issued on demand by the Company.
- In case of CST billing WTL will provide "Waybill" and "C Form". Entry Tax will be borne by the bidder.
- Bidder submitting a tender shall produce up to date VAT, Income Tax and Profession Taxes Certificate in the standard form from the Tax Authority or a Certificate that the assessment is under consideration. All such clearance certificates shall remain valid on the last date of permission.

## 42. DISCREPANCIES IN BID

- Discrepancy between description in words and figures, the rate which corresponds to the words quoted by the bidder shall be taken as correct.
- Discrepancy in the amount quoted by the bidder due to calculation mistake of the unit rate then the unit rate shall be regarded as firm.
- Discrepancy in totaling or carry forward in the amount quoted by the bidder shall be corrected.

## 43. BID DUE DATE

The tender shall be submitted not later than the due date and time specified in the Important Dates Sheet. WTL may as its discretion on giving reasonable notice by fax, or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the WTL and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

## 44. LATE BID

Any proposal received after the deadline for submission of proposals shall not be accepted.

## 45. OPENING OF BID BY WTL

Bids shall be opened and downloaded electronically through operation of the process in the e-Tender portal in presence of Tender Committee. Bidders interested to remain present during electronic bid opening may attend the bid opening session at WTL premises at scheduled date & time.

## 46. CONTACTING WTL

Bidder shall not approach WTL officers beyond office hours and/or outside WTL office premises from the time of the Bid opening to the time of finalization of successful bidder. Any effort by bidder to influence WTL office in the decision on Bid evaluation, Bid comparison or finalization may result in rejection of the Bidder's offer. If the bidder wishes to bring additional information to the notice of WTL, it should be in writing following the procedure mentioned hereinabove.

## 47. WTL'S RIGHT TO REJECT ANY OR ALL BIDS

WTL reserves the right to reject any bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

## 48. BID CURRENCIES

Prices shall be quoted in Indian Rupees, inclusive of all prevailing taxes, levies, duties, cess etc.

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## 49. PRICE

- Price should be quoted in the BOQ format only. No deviation is acceptable.
- Price quoted should be firm, inclusive of packing, forwarding, insurance and freight charges.
- Percentage/specified amount of taxes & duties should be clearly mentioned otherwise WTL reserves the right to reject such vague offer.
- Price to be quoted inclusive of all charges (Boarding, Lodging, Travelling, etc).

## 50. CANVASSING

Canvassing or support in any form for the acceptance of any tender is strictly prohibited. Any bidder doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.

## 51. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

## 52. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized signatory(ies) on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. All pages of the proposal, except for un-amended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Bidder, all corrections shall be done & initialed with date by the authorized signatory after striking out the original words/figures completely.

## 53. WITHDRAWAL OF BID

Bid cannot be withdrawn during the interval between their submission and expiry of Bid's validity period. Fresh Bid may be called from eligible bidders for any additional item(s) of work not mentioned herein, if so required.

## 54. INTERPRETATION OF DOCUMENTS

If any bidder should find discrepancies or omission in the specifications or other tender documents, or if he should be in doubt as to the true meaning of any part thereof, he shall make a written request to the tender inviting authority for correction/clarification or interpretation or can put in a separate sheet along with his technical bid document.

## 55. SPLITTING OF THE CONTRACT AND CURTAILMENT OF WORK

WTL reserve the right to split up and distribute the work among the successful bidders and to curtail any item of work in the schedule partly or fully.

## 56. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

- a) Tenders shall be submitted in the prescribed forms. Digital signatures shall be used. Where there is conflict between the words and the figures, the words shall govern.
- b) All notations must be in ink or type written. No erasing or overwriting will be permitted. Mistakes may be crossed out and corrections typed or written with ink adjacent thereto and must be initialed in ink by the person or persons signing the tender.
- c) Tenders shall not contain any recapitulation of the work to be done. Alternative proposals will not be considered unless called for. No written, oral, telegraphic or telephonic proposals for modifications will be acceptable.
- d) Tenders shall be uploaded as notified on or before the date and time set for the opening of tenders in the Notice Inviting Tenders.
- e) Tenders subject to any conditions or stipulations imposed by the bidder are liable to be rejected.
- f) Each and every page of the tender document must be signed with company seal by the bidder.
- g) Any bidder may withdraw his tender by written request at any time prior to the scheduled closing time for receipt of tenders and not thereafter.

## 57. CLARIFICATION OF BIDS

During evaluation of the bids, the Customer/Tender Committee, at its discretion may ask the bidder for clarification of its bid. The request for the clarification and the response shall be in writing (fax/email) and no change in the substance of the bid shall seek offered or permitted.

## 58. COMPLIANCE WITH LAW

The contractor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required.

The contractor shall establish and maintain all proper records (particularly, but without limitation, accounting records)

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required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

## 59. ERASURES OR ALTERNATIONS

The offers with overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript ions is not only signed by the authorized signatory of the bidder. There should be no hand-written material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. The Customer may treat offers not adhering to these guidelines as unacceptable. The Customer may, at its discretion, waive any minor non-conformity or any minor irregularity in the offer. This shall be binding on all bidders and the Tender Committee reserves the right for such waivers.

## 60. QUALITY CONTROL

- The contractor is obliged to work closely with WTL and/or Department, act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free WTL and Department from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL and department responsible.
- The contractor will treat as confidential all data and information about the system, obtained in the execution of its responsibilities in strict confidence and will not reveal such information to any party without the prior written approval of WTL/DMD,GOWB.
- WTL reserves the right to inspect all phases of contractor's operation to ensure conformity to the specifications. WTL shall have engineers, inspectors or other duly authorized representatives made known to the contractor, present during the progress of the work and such representatives shall have free access to the work at all times. The presence or absence of representatives of WTL does not relieve the contractor of the responsibility for quality control in all phases.
- The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

## 61. DEEMED ACCEPTANCE

Deliverables will be deemed to be fully and finally accepted by Department in the event Department has not submitted such Deliverable Review Statement to Bidder/Implementation Partner before the expiration of the 30-days review period, or when Department uses the deliverable in its business, whichever occurs earlier ("Deemed Acceptance").

## 62. TRAINING

- Installation & customization phase, experts from bidder will be provided first-hand technical and integration of components knowledge to group of personnel of DMD, GoWB.
- The training kit will include hard-copy hand-out, soft-copy audio-visuals aids and operational and maintenance manuals, and 2-way feed-back reports, i.e., trainer should conduct test on technical and hands-on test with evaluation recorded, and the trainees should fill-in format on quality of training both technical and hands-on. All formats, dates and durations, material coverage will be jointly decided by Disaster Management Department, GoWB ,WTL and the successful bidder.
- Minimum two experts should take-up the responsibility of the training. The number of personnel may be higher as deemed fit by the bidder.

## 63. BLACKLISTING OF BIDDER

At the stage of competitive bidding:

- a) Submitting false documents as far as the eligibility criteria are concerned.
- b) Submission of bid which involves concealment / suppression of facts in the bid in order to influence the outcome of eligibility screening or any other stage of open bidding.
- c) Unauthorized use of one's name or the name of any other firm for the purpose of bidding.
- d) Withdrawal of a bid or refusal to accept an award or enter the contract with the Govt. without justifiable cause after the bidder had been adjudged as having submitted the lowest responsive bid.
- e) Refusal or failure to post the required performance security within the prescribed time as indicated in the tender document.
- f) Any document unsolicited attempt t unduly influence the outcome of bidder in his favour.
- g) All other acts tend to defeat the purpose of competitive bidding which is contrary to financial rules of the Govt., e.g. habitual withdrawing from bidding except a valid reasons not complying with the requirements during bid evaluation.

At the stage of contract implementation:

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- a) Failure on the part of the firm to supply items as per Supply Order due solely to his fault or negligence within the prescribed period as mentioned in the detailed tender document.
- b) Failure on the part of the firm/company to fully and faithfully comply with the contractual obligations without valid cause or failure to comply with any written lawful instruction of the procuring entity or its representative(s) pursuant to the implementation of the contract.
- c) Assignment and sub-contracting of the contract or any part thereof.
- d) Unsatisfactory progress in the delivery of goods / items in case of procurement.
- e) Supply of inferior quality of goods, as may be provided in the contract or as per accepted sample / specimen of item(s).
- f) Any other reason which the procuring entity deems it logical to include in the contract, duly agreed by the selected bidder / firm.
- g) Failure of supply within the stipulated period of time to be mentioned in the supply order.

### 64. GENERAL TERMS

- a) All the pages of the bid document including documents submitted therein must be duly signed and stamped failing which the offer shall be liable to be rejected.
- b) All the documents to be submitted by the bidder along with their offer should be duly authenticated by the person signing the offer and if at any point of time during procurement process or subsequently it is detected that documents submitted are forged/tampered/manipulated in any way, the total responsibility lies with the bidder and DMD, GOWB & WTL reserves the full right to take action as may be deemed fit including rejection of the offer and such case is to be kept recorded for any future dealing with them.
- c) No Technical/Commercial clarification will be entertained after opening of the tender.
- d) Overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript is not only signed by the authorized signatory of the bidder. All overwriting should be separately written and signed by the authorized signatory of the bidder.
- e) Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. WTL reserve the right to increase or decrease the quantity specified in the tender.
- f) WTL reserve the right to reject or accept or withdraw the tender in full or part as the case may be without assigning the reasons thereof. No dispute of any kind can be raised the right of buyer in any court of law or elsewhere.
- g) WTL reserve the right to ask for clarification in the bid documents submitted by the bidder. Documents may be taken if decided by the committee.
- h) Supporting technical brochures/catalogues indicating each feature in respect of offered model and make must be submitted along with the offer, in absence of which the offer is liable to be ignored.
- i) No dispute by the bidders in regard to Technical/Commercial points will be entertained by WTL and decision taken by the Tender Committee will be final.
- j) Discrepancy in the amount quoted by the bidder due to calculation mistake, the unit rate shall be regarded as firm and the totaling or carry in the amount quoted by the bidder shall be corrected accordingly.
- k) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- l) The acceptance of the tender will rest with the accepting authority who is not bound to accept the lowest or any tender and reserves the right to reject in part or in full any or all tender(s) received and to split up the work among participants without assigning any reason thereof.
- m) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- n) The customer/WTL at its discretion may extend the deadline for the submission of Bids.
- o) The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.
- p) If at any point of time during the evaluation or even during execution (in case of L1 Vendor) it is found that false documentation has been provided for Section – K compliance, the bid will stand cancelled and the bidder will not proceed for financial evaluation. In case it is noticed during installation, the product has to be replaced and product matching exact requirement needs to be supplied at the risk and cost of the selected L1 bidder.

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## SECTION – G

### TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

#### **1. EVALUATION PROCEDURE**

- Bidders who have submitted the valid Bid security, i.e., EMD & Tender Fee as per requirement shall be considered for further evaluation. Absence of these documents may lead to summary rejection of the bid.
- The Eligibility Criteria (Section - E) will be evaluated by Tender Committee and those bidders who qualify will be considered for Financial Bid Evaluation.

#### **2. FINAL EVALUATION**

Financial Bid of the bidders qualify in the evaluation of Eligibility Criteria (Section – E) will be evaluated. The bidder who has qualified and returns with lowest quote (L1) in the Financial Bid would be awarded the contract subject to Post Qualification.

#### **3. AWARDING OF CONTRACT**

An affirmative Post Qualification determination will be prerequisite for award of the contract to the L1 bidder. A negative determination will result in rejection of bidder's bid, in which event the WTL will proceed to the next lowest evaluated bidder and so on for accepting the contract at L1 bid value. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee.

#### **4. POST QUALIFICATION**

The determination will evaluate the Bidder's financial, technical and support capabilities and will be based on an examination of the documentary evidence of the Bidder's qualification, as well as other information WTL deems necessary and appropriate. This determination may include visits or interviews with the Bidder's client's reference in its bid, site inspection, and any other measures.

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**SECTION – H**

**BID FORM**

(Bidders are requested to furnish the Bid Form in the Format given in this section, filling the entire Blank and to be submitted on Letter Head in original)

To  
**Webel Technology Limited**  
**Plot – 5, Block – BP, Sector - V,**  
**Salt Lake City,**  
**Kolkata – 700091.**

**Sub: Setting up of EOC for Disaster Management Department, GoWB at “Nabanna”**

Dear Sir,

1. We the undersigned bidder/(s), having read and examined in details the specifications and other documents of the subject tender no. WTL/DM/EOC/16-17/001 dated 21.06.2016 do hereby propose to execute the job as per specification as set forth in your Bid documents.
2. The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 180 (one hundred eighty) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipments and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit: We have enclosed EMD in the form of Demand draft for a sum of Rs.10,00,000/- (DD no. \_\_\_\_\_ dated \_\_\_\_\_ drawn on \_\_\_\_\_).
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to ten percent (10%) of the Order value as stipulated in Price Bid.
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Dated, this .....day of .....2016

.....  
Signature

.....  
Name in full

.....  
Designation

.....  
Signature & Authorized Verified by

.....  
Name & Designation

.....  
Full Signature & Stamp



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## SECTION – I

### GUIDANCE FOR E-TENDERING

Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the Bidders to participate in e-Tendering.

1. **Registration of Bidder:**

Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in>. The Bidder is to click on the link for e-Tendering site as given on the web portal.

2. **Digital Signature Certificate (DSC):**

Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated above. DSC is given as a USB e-Token.

3. The Bidder can search & download N.I.T. & BOQ electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

4. **Participation in more than one work:**

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If, found to be applied severally in a single job all the applications will be rejected.

5. **Submission of Tenders:**

Tenders are to be submitted through online to the website stated above in two folders at a time, one in Techno Commercial Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats)

The proposal should contain scanned copies of the following in two covers (folders).

**Techno Commercial Cover:**

**Technical Document1 (scanned & join in pdf format then upload)**

1. Copy of Demand Draft of Earnest Money Deposit (EMD)
2. Copy of Demand Draft of Tender Fee
3. Bid Form as per format (Section – H)

**Technical Document2 (scanned & join in pdf format then upload)**

1. Copy of N I T duly stamped & signed
2. Declaration of Eligibility Criteria, Section - R

**Technical Compliance (scanned & joins in pdf format then upload)**

1. Technical Compliance Sheet as per format (Section – K)
2. Make & Model as per format (Section – J)

**Financial Cover:**

BOQ (Bill of Quantity) will be downloaded and same will be uploaded with quoted rates. While uploading BOQ file name shall remain unchanged. Absence of this document shall lead to summary rejection of the bid.

**NON-STATUTARY COVER (MY SPACE) CONTAIN FOLLOWING DOCUMENT:**

**(In each folder, scanned coy will be uploaded with single file having multiple pages)**

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none"><li>• Service Tax Registration Certificate,</li><li>• Trade License</li><li>• VAT Certificate</li><li>• Document as per Clause -1 , Part – A of Section – E</li></ul>

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			<ul style="list-style-type: none"> <li>Document as per Clause -2 , Part – A of Section – E</li> </ul>
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> <li>Company Profile (Not more than 3 pages)</li> <li>Document as per Clause no. 7, Part – B of Section – E</li> </ul>
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> <li>Bidder’s details as per format (Section – N)</li> <li>Technical Capability as per format (Section – L)</li> </ul>
C	CREDENTIAL	CREDENTIAL 1	Document as per Clause no. 1 of ,Part – B of Section – E
		CREDENTIAL 2	<ul style="list-style-type: none"> <li>Document as per Clause no. 13, Part – B of Section – E</li> <li>Document as per Clause no. 14, Part – B of Section – E</li> </ul>
D	DECLARATION	DECLARATION FILE 1	Document as per Clause no. 2, Part – B of Section – E
		DECLARATION FILE 2	Document as per Clause no. 3, Part – B of Section – E
		DECLARATION FILE 3	Document as per Clause no. 11, Part – B of Section – E
		DECLARATION FILE 4	<ul style="list-style-type: none"> <li>Document as per Clause no. 15, Part – B of Section – E</li> <li>Document as per Clause no. 16, Part – B of Section – E</li> </ul>
		DECLARATION FILE 5	<ul style="list-style-type: none"> <li>Document as per Clause no. 8, Part – B of Section – E</li> <li>Financial Capability of Bidder as per format (Section – M)</li> </ul>
E	FINANCIAL INFO		
		P/L & BALANCE SHEET 2013-2014	P/L & BALANCE SHEET 2013-2014
		P/L & BALANCE SHEET 2014-2015	P/L & BALANCE SHEET 2014-2015
		P/L & BALANCE SHEET 2015-2016	P/L & BALANCE SHEET 2015-2016

**Note:**

**The hard copy of the total set of documents uploaded in e-Tender site except BOQ to be submitted in sealed envelope to Manager (Purchase), Webel Technology Ltd. before opening of Technical Bid. The envelope superscripted with words “Hard copy of document uploaded against Tender no. WTL/DM/EOC/16-17/001 except BOQ”.**

# WEBEL TECHNOLOGY LIMITED

## SECTION – J

### MAKE & MODEL

(Tender No. WTL/DM/EOC/16-17/001)

The Bidder has to setup a managed network for DMD, GoWB at “Nabanna”

**Scope includes Supply, Installation and support services post commissioning of the following items:**

**Location – DMD, GoWB, H.O.at “Nabanna”**

EOC Equipments for DMD, GoWB				
		Tentative Qty.	Make	Model
1	High Resolution Display Cubes	6 Nos.		
2	High Definition Monitors	2 Nos.		
3	Display Manager Hardware	1 No.		
4	Display Manager Software	1 No.		
5	Display Manager Console	1 No.		
6	Cabling and Networking	1 Kit		
7	Audio System	1 Kit		
8	Control System	1 Kit		
9	Equipment Rack	1 No.		
10	Installation & Commissioning	1 Job	Not Applicable in this section	

Heterogeneous mix of materials can be offered but seamless integration between the other devices will be in the responsibility part of the bidder.

Quantity mentioned are indications only, may go in for 10% upward or downward fluctuation.

Installation Completion Time: within 24 weeks of issuance of P.O/W.O

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Company Rubber Stamp: \_\_\_\_\_

# WEBEL TECHNOLOGY LIMITED

## SECTION – K

### TECHINICAL COMPLIANCE SHEET

(Tender No. WTL/DM/EOC/16-17/001)

#### High Resolution Display Cubes, Qty – 06 Nos.

S.N.	Feature	Specifications	Quoted Specifications	Compliant - Yes / No
1	Display Technology	LED-lit liquid cooled Rear Projection DLP with active stereoscopic 3D		
2	Display configuration	3x3 tiled matrix of 70" diagonal projection modules with Full HD - 1920 x 1080 native resolution per module		
3	Screen Area/Active area per module	~ 70" diagonal		
4	Native resolution per module	1920 x 1080 – In 2D as well as active stereo 3D		
5	Aspect ratio per module	16:9		
6	Image Size per module	1.55m x 0.872m		
7	Total Image Size	- Greater than 15' wide - Greater than 8'6" High	-	-
8	On-screen brightness	220/175 Cd/m <sup>2</sup> in 2D/3D mode		
9	On-screen contrast	500000:1		
10	Modular Technology	The solution should be modular in nature to allow future expansion by adding new modules to the existing modules in either horizontal or vertical directions without discarding any component from the current system		
11	Light Source	LED illumination with 6 times redundancy for each of 3 LED's		
12	Light source lifetime	> 50,000h (normal mode) Should be higher in economy mode		
13	Screen Technology & half-gain angle	e) FXS, with half-gain angle of minimum 33° (for both Horizontal & Vertical direction) f) Rigid screen technology (Glass) to prevent bulging & bowing of the screen g) Screen surface should be water resistant & should be easy to clean & maintain h) The screens should have good ambient light resistance with low reflectivity to allow for more ambient light in the audience area		
14	Screen border/seam/gap	Less than 0.15mm (for both Horizontal & Vertical) at 25°C. There should not be any change in the mechanical gap at different temperatures (between 20°C to 40°C)		
15	Color& Brightness Matching	The display wall should have an inbuilt spectrometer /chroma-meter based feedback & loop auto-calibration system to keep all the modules aligned to same brightness & color levels		
16	Inputs & Outputs	c) 2x Dual-link DVI-in / 2x Dual-link DVI-out per module with a pixel clock of 330MHz to support high resolution 3D content. Capable of supporting input resolutions of upto 3840(H) x 2160 (V) d) Stereo sync-In/Stereo sync-out per module to synchronize all projection modules as well as drive the IR emitters		

## WEBEL TECHNOLOGY LIMITED

17	Heat dissipation	Max 1200 BTU/hr per module		
18	Stereo Technology	Active 3D Stereo Stereo technology based on polarization or color separation or interlaced stereo is not acceptable		
19	Stereo Peripherals	c. Appropriate nos. IR/RF emitters to cover the room d. 12 nos. of compatible Active Stereo glasses		
20	Mandatory Certification	The LED display should have a valid BIS registration number. This is a mandatory requirement. Bidder shall provide the valid BIS registration number of the product in the technical bid		
21	System Diagnostic Software/Hardware	The Diagnostic solution shall perform health monitoring that allows detection of: f. Display health g. Display IP-address h. Native Brightness, target & actual brightness i. Native Color (white, red, green, blue) & actual color j. Selected inputs and presence of sources on either input Diagnostic Software shall allow commands on entire display device level or cube level or a selection of cubes: h. Switching the entire display device on or off. i. Setting all projection modules to a common brightness target, which can be either static (fixed) or dynamic to always achieve maximum (or minimum) common brightness between projection modules. j. Changing the active input (of the two present DVI inputs) k. Fine tune color of each cube l. Switching the display between 2D & 3D m. Defining the master/slave for each module for 3D mode n. Adjusting the 3D stereo parameters like i. Normal/Swap ii. Shutter Time iii. Polarity iv. Phase		

Note: Quoted cube should have a valid BIS registration. Bidders should quote the BIS registration number in the bid  
The quoted 3D rear projection DLP cubes should be a standard COTS product

### High Definition Monitors, Qty – 2 Nos.

In the proposed facility, high definition (1080p) TV units need to be installed adjacent to the main display wall. These HDTV units will be used to display any external video sources, for example, television news feeds. The HDTV units should use an LED backlit display with 40" (or more) diagonal size. The HDTV units should be controllable from the touch panel control system.

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	Screen Type: LED/LCD		
2.	Native resolution: True HD 1080p		
3.	Dynamic Contrast ratio: > 1,000,000:1		
4.	Viewing angle: 178 deg (horizontal – vertical) & 178 deg (left – right)		
5.	Inputs: <ul style="list-style-type: none"> <li>• 02 (or more) Nos. 19 pin HDMI (HDMI 1.4)</li> <li>• 1-VGA, 1- Component, 2-Composite</li> <li>• 2-channel audio input (analog)</li> <li>• RJ-45 Ethernet port (TCP/IP)</li> <li>• Minimum 02 USB 2.0 with HD Video playback, audio playback (mp3, aac, wma, ogg), image</li> </ul>		

## WEBEL TECHNOLOGY LIMITED

	(jpeg, png, bmp)		
6.	Other Features: PIP Support		
7.	Wall mounting capability with two-axis swivel mounts		

### Display Manager Hardware, Qty – 01 No.

The DMS hardware should be based on a COTS platform and provide the capability to create one large single seamless display on various operating systems like Windows, Windows 7 and Linux. It should allow the user to treat the multi-projector display environment as a single large screen workplace, allowing easier and better interpretation of data on a variety of applications, transparently. This should also allow directly running a selected visualization application natively in full resolution of the display. The hardware should be modular and should allow scaling of inputs as required in future by adding expansion chassis.

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	1 TB Storage Space, 16 GB RAM		
2.	Intel 8 Core Xeon 3.0 GHz or Better		
3.	08 Dual DVI/Display Port Outputs (Each supporting resolution up to 2560x1600 @60 Hz), with support for active stereo 3D on each output at 1920x1080.		
4.	12 HDMI Inputs (Each support resolution up to 1920x1080 @ 60 Hz)		
5.	1 VGA, 4 Composite Video/VGA Inputs		
6.	Unlimited number of IP camera through surveillance server		
7.	2 More or Gigabit LAN Ports		
8.	1 Wireless Keyboard, 1 Wireless Optical Mouse		
9.	Option to have Windows 7 64 bit Operating System		
10.	Rack Mount Kit		
11.	Conversion Cables for Workstation Inputs		

### Display Manager Software, Qty – 01 No.

Control software is required to achieve comprehensive and efficient use of all the hardware functionality. The controller software should be robust and allow controlling the content being displayed by the display wall. Any change to the layout made via the controller software should reflect in the output of the display wall in real-time.

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	Auto-detection of various external input video sources connected to the DMS		
2.	Drag-and-drop user-interface to move active input video sources to the main display wall.		
3.	Naming and specifying position/size of various sources on the main display wall		
4.	Support for controlling all DMS parameters using a simple GUI interface. The GUI interface should be hardware accelerated and provide a device-like look-and-feel.		
5.	Networking capability to allow support for real-time control for positioning and size adjustment of input sources from an external workstation/multi-touch screen		
6.	Support for well documented APIs to get access and control over input video sources from OpenGL based applications. The API should allow users to develop applications that leverage the DMS hardware's input, output and processing capabilities to implement and use sophisticated post-processing		

## WEBEL TECHNOLOGY LIMITED

	algorithms on the video sources.		
7.	Support for connecting to any computer system over the local TCP/IP network running VNC servers and treating them as input video sources to the DMS. It should be possible to control the remote applications by executing local mouse/keyboard events on the DMS hardware on the remote systems.		
8.	For external video sources that are PC outputs, software should have support to allow control of these sources from external PC/Display Wall/Touch Screen through mouse/gesture controls to the external video sources.		
9.	For external video sources that are video players with software access to play/pause video streams, the controller software should provide APIs to play/pause the video sources from external PC/Display Wall/ Touch Table.		
10.	Support for defining layout presets for the entire display wall. Each preset should allow controlling the number of input sources along with the size and location of the sources on the output wall.		
11.	Support for time-based switching of presets allowing different presets to become active during a user defined time interval. .		
12.	Support for storing any or all of the input video/audio sources on the hard drive as a movie file for subsequent playback. The start, stop and pause operations should be controllable using an easy-to-use graphical interface.		
13.	Support for storing the output of the complete display wall on the hard drive as a movie file or subsequent playback..		
14.	Support for adding the current system time as a timestamp on the stored video. This time stamp should be displayed during subsequent playback on each frame.		
15.	Support for cloning of video sources on the display wall		
16.	Support for specifying a border width and color for video sources displayed on the wall		
17.	Support for color correction and applying various image filters on the video sources		
18.	Support for hardware accelerated higher-order interpolation of the video sources when scaled on the display wall.		
19.	Support for Contrast and Brightness Enhancement on input video sources		
20.	Support for overlaying one video source over another and doing masking operation		
21.	Support for locking aspect ratio on scaled video sources		

### Display Manager Console, Qty – 01 No.

A touch based management console is also required along with the DMS. This console should serve multiple functionality including lay outing video sources on the display wall or to control the visualization software running on the main display wall. The touch console should have a dedicated workstation connected.

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	500 GB Storage Space		
2.	Quad Core Intel Xeon 2.4 GHz processor or better		
3.	8 GB DDR3 RAM or better		

## WEBEL TECHNOLOGY LIMITED

4.	2 GB NVidia Quadro or better		
5.	27" 1920x1080 LED display panel or better		
6.	6 Simultaneous Touch detection		
7.	Minimum 120 hz Sampling frequency for touch		
8.	Built in Calibration feature for minimum 4 points		
9.	The touch screen controller should be installed along with a table top screen and configured to run the entire display wall through the DMS controller software.		
10.	The Multi-touch screen's user interface should allow multiple touch interfaces concurrently. This should include support for multiple fingers, both hands. Multiple user interaction should also be possible.		
11.	The touch screen should come with a gesture library including a set of intuitive inbuilt gestures for the DMS controller software. This is similar to the user interface provided on Apple's iPhone and iPad products that allow ease-of-use during user interaction.		
12.	For external PC video sources, it shall be possible to control the PC applications from the touch table using the DMS controller software features mentioned in previous section.		
13.	The touch screen controller should be based on Windows 7 or later Operating System		
14.	The touch screen controller should be configured to control the mission briefing software using touch gestures		

### **Control System, Audio and Accessories**

#### **Cabling and Networking, Qty – 01 Kit**

The complete control from the user consoles should be available using a multiple devices which allow video as well as USB connectivity to the workstations.

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	Sufficient No. of Video over Dual Cat 6 for connecting 12 Display Devices each capable of transmitting 1920x1080 @ 60 hz		
2.	Sufficient No. of USB over cat6 as per requirement		
3.	2 No. of Pop-out cable cubbies, each with HDMI port for connecting external laptops to DMS, Audio Inputs to Audio System, and Power		
4.	2 No. of 24 Port 1 GB Network Switch		
5.	2 No. of 8 Port Network Switch for control accessories		
6.	16 No. of Rj45 Sockets on the User Consoles		

#### **Audio System, Qty – 01 Kit**

S.No.	Feature	Specification	Quoted Specifications	Compliant - Yes / No
<b>Digital Signal Processor – 01</b>				
1.	Analog Inputs	12 electronically balanced on Phoenix Combicon removable screw connectors		
2.	Input Impedance	3.0kΩ		
3.	Phantom Power	48V nominal, selectable per		



## WEBEL TECHNOLOGY LIMITED

		input		
4.	Analog Outputs	8 electronically balanced on Phoenix/Comb icon removable screw connectors		
5.	Frequency Response	20Hz-20KHz (+0.5dB/-1 dB)		
6.	AEC Processing	12 independent algorithms		
7.	Control Network Connectors	RJ45 Ethernet connector		
8.	Configuration and control	Configuration, Control and Monitoring Through Control Software		
<b>Speakers – 08</b>				
1.	Frequency Range (-10 dB)	70 Hz - 23 kHz		
2.	100 Hr Power Capacity	200 Watts Continuous Program Power 100 Watts Continuous Pink Noise		
3.	Nominal Impedance	8 ohms		
<b>Amplifier – 02</b>				
1.	Rated Output Power	2Ω Dual (per channel) 1050W, 4Ω Dual (per channel) 650W, 8Ω Dual (per channel) 375W, 8Ω Bridge 1300W, 4Ω Bridge 2100W.		
2.	Crossover Frequency Range	50 Hz - 3 kHz		
3.	Amplifier Class	Class D Amplifier		
4.	Load Impedance	2 to 8 ohms per channel in Stereo, 4 to 8 ohms in Bridge Mono.		
5.	Signal-to-Noise Ratio	>103 dB		
6.	Total Harmonic Distortion (THD)	< 0.5%		
7.	Input Impedance (nominal)	20 kilohms balanced, 10 kilohms unbalanced.		
<b>Microphones – 06</b>				
<b>Handheld/Lapel Microphones compatible with the above system</b>		Qty. 02		
<b>Receiver</b>				
2.	Frequency bands: A:	A: 530,025 – 559,000 MHz; U1: 606,100 – 613,900 MHz; U2: 614,100 – 629,900MHz; B1: 748,100 – 751,900 MHz; B2: 774,100 – 777,900 MHz; M: 826,300 –831,000 MHz; D: 863,100 – 864,900 MHz; K: 925,100 – 931,850 MHz		
3.	RF output	10, 20 or 50 mW (depending on frequency band)		
4.	Audio bandwidth	40 – 20 000 Hz (+/- 3dB)		
5.	Tuning range	Up to 30 MHz (depending on frequency band)		
6.	Max. channels	Up to eight compatible channels within one frequency band		
<b>Transmitter</b>				
7.	Maximum audio level	12dB		
8.	Rated Impedance	1 Ohms		

## WEBEL TECHNOLOGY LIMITED

9.	Signal to noise	105 dB-A		
10.	THD at 1kHz	0.8%		
11.	Audio bandwidth	40 – 20 000 Hz (+/- 3dB)		
12.	Transmitter synchronization	Manual		
<b>Table Top/Gooseneck Microphones compatible with the above system</b>		Qty. 04		

### Control System, Qty – 01 Kit

The display environment should come with an integrated control system, capable of controlling the proposed control room equipment, including the display system, audio, media & lighting systems. The control system user interface should provide following functionality at the minimum:

- Projector Control
  - On/Off
- Lighting Control
  - On/Off
  - Dimming
- Audio Control
  - On/Off
  - Volume Control
- HDTV Control
  - On/Off
- Control of Console equipment
  - On/Off

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	1 Equipment Controller: <ul style="list-style-type: none"> <li>➤ 3 Configurable RS232 ports</li> <li>➤ 4 IR/Serial Ports</li> <li>➤ 1 RJ45 Port</li> </ul>		
2.	1 Control Panel: <ul style="list-style-type: none"> <li>➤ 9.7" or more Multitouch Wireless Controller</li> <li>➤ 1280x720 or more resolution</li> <li>➤ USB charging</li> <li>➤ Android/IOS/Windows OS</li> </ul>		
3.	1 Control Software with: <ul style="list-style-type: none"> <li>➤ Projectors Turn on/off</li> <li>➤ Workstation Turn on/off</li> <li>➤ Light Presets – Immersion, All On, All Off, Presentation Mode</li> <li>➤ Audio Controls – Mute/Unmute, Volume Control of individual sources</li> <li>➤ Projectors Menu Control</li> <li>➤ Projectors Status View (Lamp Life)</li> </ul>		
4.	1 Light Controller: <ul style="list-style-type: none"> <li>➤ 4 Switch Module to control 4 Zones of lighting including turn on/off</li> <li>➤ 4 Dimmer Module to dim 4 zones of LED spotlights</li> <li>➤ Interface with Equipment controller over RJ45 or RS232 etc.</li> <li>➤ 1 x Programmable Physical Button Panel</li> </ul>		

### Equipment Rack, Qty – 01 No.

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1.	36 U Equipment Rack		
2.	Cooling Fans as well as sufficient wire managers to house the above		
3.	Front Glass Door and Perforated Rear Door		

# WEBEL TECHNOLOGY LIMITED

## Accessories

S. No.	Specifications	Quoted Specifications	Compliant - Yes / No
1	The numbers of equipment rack, networking and cabling requirements are tentative. Vendor should include appropriate equipment racks, rack mount kits, power distribution kits and cooling equipment required to house all the server equipment in the control room.		
2	Vendor should include appropriate number of Gigabit Ethernet switches and high-quality network cabling to connect various servers and application workstations offered with the solution.		

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of the Company: \_\_\_\_\_

# WEBEL TECHNOLOGY LIMITED

## SECTION - I

### FORMAT FOR TECHNICAL CAPABILITY OF BIDDER

(Tender No. WTL/DM/EOC/16-17/001)

Sl. No.	Project Name	Start Date	End Date / Status	Brief description of project & scope of work (implementation, operation & maintenance)	Type of project	Approx value of the project	Contact details of the Customer

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of the Company: \_\_\_\_\_

**Note:**

- A. Type of Project shall indicate the implementation of services (Installations of similar high resolution display with similar technology).
- B. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- C. Submit Customer Order Copy details of the order indicating the project value, customer contact details, project completion certificate / customer feedback etc.

**SECTION - M**

**FORMAT FOR FINANCIAL CAPABILITY OF BIDDER**

(Tender No. WTL/DM/EOC/16-17/001)

**FINANCIAL INFORMATION**

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2013-14	2014-15	2015-16
1				

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of the Company: \_\_\_\_\_

**Note:**

Submit the Audited Financial Statement / Audited Accounts of the last three financial years.

**SECTION - N**

**FORMAT FOR BIDDER'S DETAILS**

(Tender No. WTL/DM/EOC/16-17/001)

1	Name of the Firm	
2	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
4	Is the firm a registered company? If yes, submit documentary proof	
	Year and Place of the establishment of the company	
5	Former name of the company, if any	
6	<p>Is the firm</p> <ul style="list-style-type: none"> <li>▪ a Government/ Public Sector Undertaking</li> <li>▪ a propriety firm</li> <li>▪ a partnership firm (if yes, give partnership deed)</li> <li>▪ a limited company or limited corporation</li> <li>▪ a member of a group of companies, (if yes, give name and address and description of other companies)</li> <li>▪ a subsidiary of a large corporation (if yes give the name and address of the parent organization). If the company is subsidiary, state what involvement if any, will the parent company have in the project.</li> </ul>	
7	Is the firm registered with Sales Tax department? If yes, submit valid VAT Registration certificate.	
8	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
9	Total number of employees. Attach the organizational chart showing the structure of the organization.	
10	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
11	How many years has your organization been in business under your present name? What were your fields when you established your organization	
12	<p>What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary)</p> <ul style="list-style-type: none"> <li>▪ Manufacturer</li> <li>▪ Supplier</li> <li>▪ System Integrator</li> <li>▪ Consultant</li> <li>▪ Service Provider (Pl. specify details)</li> <li>▪ Software Development</li> <li>▪ Total Solution provider (Design, Supply , Integration, O&amp;M)</li> <li>▪ IT Company</li> </ul>	
13	Number of Offices in district head quarters in West Bengal	
14	Is your organization has ISO 9001:2008 certificates?	
15	List the major clients with whom your organization has been / is currently associated.	
16	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
17	Have you ever been denied tendering facilities by any Government / Department / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Company Rubber Stamp: \_\_\_\_\_

**SECTION – O**

**PROFORMA FOR PRE-BID MEETING QUERIES**

(Tender No. WTL/DM/EOC/16-17/001)

Name of the Bidder: \_\_\_\_\_

Queries

Sl. No.	Section No.	Clause No.	Page No.	Queries

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Company Rubber Stamp: \_\_\_\_\_

**Note:** The filled form to be submitted in XLS & PDF Format. There is a cutoff date for receiving of queries before Pre Bid Meeting. Queries received after the cutoff period will not be accepted. The Purchaser reserves the right to respond all queries over e-mail.

**SECTION - P**

**MANUFACTURER'S AUTHORIZATION FORM**

Date:

**To**  
**Webel Technology limited**  
**Plot-5, Block-BP, Sector-V**  
**Salt Lake**  
**Kolkata-700 091**

Ref: Tender No.: Tender No. WTL/DM/EOC/15-16/001 dated 21/06/2016

WHEREAS \_\_\_\_\_ who are official producers of  
\_\_\_\_\_ and having production facilities at  
\_\_\_\_\_ do hereby authorize  
\_\_\_\_\_ located at  
\_\_\_\_\_ (hereinafter, the "Bidder") to submit a bid of the following Products  
produced by us, for the Supply Requirements associated with the above Invitation for Bids.

1. \_\_\_\_\_
2. \_\_\_\_\_

When resold by \_\_\_\_\_, these products are subject to 24 months onsite comprehensive warranty from the date of final acceptance of the system by the customer.

We assure you that in the event of \_\_\_\_\_, not being able to fulfill its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements.

We also confirm that \_\_\_\_\_ is our authorized service provider/system integrator and can hence provide maintenance and upgrade support for our products.

We also confirm that the products quoted are on our current product list and are not likely to be discontinued within 5 years from the day of this letter. We assure availability of spares for the products for the next three years after two years warranty period.

We also confirm that the material will be delivered within six weeks from the date of placement of confirmed order.

Name \_\_\_\_\_ In the capacity of \_\_\_\_\_

Signed \_\_\_\_\_

Duly authorized to sign the authorization for and on behalf of \_\_\_\_\_

Dated on \_\_\_\_\_ day of \_\_\_\_\_ 2016

**Note:** This letter of authority must be on the letterhead of the Manufacturer and duly signed by an authorized signatory.



**SECTION – Q**

**PROFORMA FOR PERFORMANCE BANK GUARANTEE**

(On non-judicial stamp paper of appropriate value to be purchased in the name of executing Bank)

PROFORMA OF BANK GUARANTEE FOR SECURITY DEPOSIT –CUM-PRFORMANCE GUARANTEE

Ref .....

Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

KNOW ALL MEN BY THESE PRESENTS that in consideration of WEBEL TECHNOLOGY LIMITED, a Government of West Bengal Undertaking incorporated under the Companies Act, 1956 having its Registered office at Webel Bhavan, Block EP&GP, Sector V, Kolkata-700 091 (hereinafter called "The Purchaser") having agreed to accept from \_\_\_\_\_ (hereinafter called "The Contractor") Having its Head Office at \_\_\_\_\_, a Bank guarantee for Rs. \_\_\_\_\_ in lieu of Cash Security Deposit for the due fulfillment by the Contractor of the terms & conditions of the Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ issued by the Purchaser for \_\_\_\_\_ (hereinafter called "the said work order \_\_\_\_\_ dated \_\_\_\_\_"). We \_\_\_\_\_ (Name & detailed address of the branch) (hereinafter called "the Guarantor") do hereby undertake to indemnify and keep indemnified the Purchaser to the extent of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the terms and conditions contained in the said Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ of which breach the opinion of the Purchaser shall be final and conclusive.

(2) AND WE, \_\_\_\_\_ DO HEREBY Guarantee and undertake to pay forthwith on demand to the Purchaser such sum not exceeding the said sum of \_\_\_\_\_ Rupees \_\_\_\_\_) only as may be specified in such demand, in the event of the Contractor failing or neglecting to execute fully efficiently and satisfactorily the order for \_\_\_\_\_ Work Order no. , \_\_\_\_\_ dated \_\_\_\_\_

(3) WE \_\_\_\_\_ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order as laid down in the said Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ including the warranty obligations and that it shall continue to be enforceable till all the dues of the Purchaser under or by virtue of the said Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ have been fully paid and its claims satisfied or is charged or till the Purchaser or its authorized representative certified that the terms and conditions of the said Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ have been fully and properly carried out by the said contractor and accordingly discharged the guarantee.

(4) We \_\_\_\_\_ the Guarantor undertake to extend the validity of Bank Guarantee at the request of the contractor for further period of periods from time to time beyond its present validity period failing which we shall pay the Purchaser the amount of Guarantee.

(5) The liability under the Guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only and will expire on \_\_\_\_\_ and unless a claim in writing is presented to us or an action or suit to enforce the claim is filled against us within 3 months from \_\_\_\_\_ all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities (thereinafter)

(6) The Guarantee herein contained shall not be determined or effected by liquidation or winding up or insolvency or closer of the Contractor.

(7) The executants has the power to issue this guarantee on behalf of Guarantor and holds full and valid power of Attorney granted in his favour by the Guarantor authorizing him to execute the Guarantee.

(8) Notwithstanding anything contained herein above, our liability under this guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only and our guarantee shall remain in force up to \_\_\_\_\_ and unless a demand or claim under the guarantee is made on us in writing on or before \_\_\_\_\_ all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

WE, \_\_\_\_\_ lastly undertake not to revoke this guarantee during the currency except with the previous

consent of the Purchaser in writing. In witness whereof we \_\_\_\_\_ have set and subscribed our hand on  
this \_\_\_\_\_ day of \_\_\_\_\_.

WITNESS

1) \_\_\_\_\_

2) \_\_\_\_\_  
(Name & address in full with  
Rubber Stamp)

SIGNED, SEALED AND DELIVERED

\_\_\_\_\_

(Stamp of the executants)

### **INSTRUCTIONS FOR FURNISHING BANK GUARANTEE**

1. Bank Guarantee (B.G.) for Advance payment, Mobilization Advance, B.G. for security Deposit-cum-Performance Guarantee, Earnest Money should be executed on the Non-Judicial Stamp paper of the applicable value and to be purchased in the name of the Bank.
2. The Executor (Bank authorities) may mention the Power of Attorney No. and date of execution in his/her favour with authorization to sign the documents. The Power of Attorney is to be witnessed by two persons mentioning their full name and address.
3. The B.G. should be executed by a Nationalised Bank/ Scheduled Commercial Bank preferably on a branch located in Kolkata. B.G. from Co-operative Bank / Rural Banks is not acceptable.
4. A Confirmation Letter of the concerned Bank must be furnished as a proof of genuineness of the Guarantee issued by them.
5. Any B.G. if executed on Non-Judicial Stamp paper after 6 (six) months of the purchase of such stamp shall be treated as Non-valid.
6. Each page of the B.G. must bear signature and seal of the Bank and B.G. Number.
7. The content of the B.G. shall be strictly as Proforma prescribed by WTL in line with Purchase Order /LOI/ Work Order etc. and must contain all factual details.
8. Any correction, deletion etc. in the B.G. should be authenticated by the Bank Officials signing the B.G.
9. In case of extension of a Contract the validity of the B.G. must be extended accordingly.
10. B.G. must be furnished within the stipulated period as mentioned in Purchase Order / LOI / Work Order etc.
11. Issuing Bank / The Vendor are requested to mention the Purchase Order / Contract / Work Order reference along with the B. G. No. for making any future queries to WTL

**SECTION - R**

**DECLARATION OF Eligibility CRITERIA**

(Tender No. WTL/DM/EOC/16-17/001)

Sl. No.	Criteria	Document Submitted	Reference of Document Submitted
<b>Part A: EXISTENCE OF THE BIDDER</b>			
1	The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document)	Yes/No	
2	The bidder must have an own office in India with valid statutory registration. Valid statutory registration document to be submitted.	Yes/No	
3	The bidder should have valid VAT Certificate, Service Tax Registration Certificate & Trade License. Copy of the documents to be submitted.	Yes/No	
<b>Part B: TECHNICAL QUALIFICATION CRITERIA</b>			
1	The bidder shall have independently executed four orders of similar projects covering installation of similar high resolution display with similar technology of at least Rs. 100 lakhs in total preferably in a Government Department/PSU/Autonomous Body/ Any reputed organisation in India during last three financial years (2013-14, 2014-15 & 2015-16). Self Attested photocopy of order and completion report of all the four Projects to be submitted.	Yes/No	
2	The bidder shall have to submit Tender specific Manufacturer's Authorizations for all the products strictly as per format (Section - P), without which the offer will be treated as non-responsive and summarily rejected.	Yes/No	
3	Bidder or the OEM of the 3D rear projection DLP cubes whose product is quoted should have atleast three (03 nos.) of installations in India based on 3D rear projection DLP cubes, with each installation providing atleast 8 million pixels of resolution in 3D. Self Attested photocopy of installation to be submitted.	Yes/No	
4	The bidder should have an aggregate annual turnover of not less than Rs 30.00 Crores covering the last three financial years (FY- 2013-14, 2014-15 & 2015-16). Bidder shall have to submit Audited Accounts / Auditor Certificate in support of their claim. Provisional Certificate of 2015-16 is acceptable.	Yes/No	
5	Bidder should submit Earnest Money Deposit (EMD) of Rs.1000000.00 (Rupees Ten Lakh only) in the form of Demand Draft from any Scheduled Bank in favour of Webel Technology Limited payable at Kolkata.	Yes/No	
6	Bidder should submit Tender Fee of Rs.6000.00 (Rupees Six Thousand only) to Webel Technology Limited in the form of Demand Draft from any Scheduled Bank in favour of Webel Technology Limited payable at Kolkata.	Yes/No	
7	The bidder shall have Quality Certificate (ISO 9001:2008). Copy of valid Certificate to be submitted.	Yes/No	
8	The bidder should have an Own Call Centre (number to be specified) operational on all days of the year except Sundays & National holidays. OEM Call Centre number will not be treated as bidder's call centre	Yes/No	
9	Technical Compliance Sheet has to be complied in all respect. Brochures with the page number against each compliances to be submitted as per format (Section - K).	Yes/No	
10	The details of Make & Model (Section - J) to be submitted as per format.	Yes/No	
11	The bidder shall submit a certificate from any of the authorized signatory of the company authorizing a person to sign all relevant papers related to this bid on behalf of the company.	Yes/No	

12	The bidder shall submit Bid Form (Section - H) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.	Yes/No	
13	The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral / multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.	Yes/No	
14	No consortium will be allowed in this bid. Bid shall be submitted by the bidder only. Declaration on bidder's letter head in this regard shall be submitted with the bid.	Yes/No	
15	The main components of the system including Display Panels and Display Management System should have manufacturing/country of origin in India. The service center of the same should also be in India. Appropriate documentation from OEM regarding the same should be submitted.	Yes/No	
16	The Quoted 3D rear projection DLP cubes should be a standard COTS & Catalogued product of the OEM. Appropriate documentation from OEM regarding the same should be submitted.	Yes/No	

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of Company: \_\_\_\_\_