

## **MP State Tourism Development Corporation Ltd.,**



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Incredible India

### **Notice Inviting EOI For Sound & Light Show at Rajwada, Indore**

No - 7023 /mpstdc/mkg/2012

Bhopal dated 25 / 06 /2012

Madhya Pradesh Tourism invites Expressions of Interest (EOI) from eligible specialist organisations for mounting a Sound & light show on turnkey basis at Rajwada, Indore.

Intending bidders must have completed at least ONE PERMANENT Sound & Light Shows on turnkey basis including artistic direction & production, which must be currently running. EOI should be submitted by interested parties to the Managing Director, MP State Tourism Development Corporation Ltd., Paryatan Bhavan, Bhadbhada Road, Bhopal-462003. On or before 15/07/2012 up to 03:00 p.m. The details terms of EOI may be downloaded from [www.mpstdc.com](http://www.mpstdc.com)

Managing Director

## **SPECIFIC CONDITIONS FOR TENDERS BIDDING FOR SOUND & LIGHT SHOW AT Rajwada , Indore**

Notwithstanding the details and conditions indicated in the annexed tender document. The following conditions shall be applicable and binding all tenderes/bidders:

### **Minimum qualifying requirements for participation in the tender**

The intending tenderer / bidder would qualify for bidding or evaluation if he meets the following requirements:

- Intending bidder must have executed at least One Sound & light shows, of permanent type, at historical Tourist sites. with Concept Development Artistic Direction / production. System Integration, supply of equipment, show programming installation. Testing and commissioning. These reference projects should be presently running on commercial basis.
- Intending bidder must have in-house capabilities or tie-up with outside agency, on permanent basis, of designing and measurement of sound /audio and lighting for such and similar projects. In case of outside agency tie-up the total responsibility for project executing shall be on the intended bidder and he has to disclose his terms of arrangements with outside agency.
- Intending bidder must be capable of taking up the operation & Maintenance of the sound & light show, in case decided later and thus must have the experience of the same at least for one such Sound & Light shows installed by him.
- **The SEL show Should be a combination of conventional SEL show Technique ( As in Gwalior,Orchha,Khajuraho) and projection Technique**

A list of key persons in the end-customer's organization, along with their communication details and telephone/ fax numbers etc. shall be furnished along with tender (in envelope marked "Part2") for expeditious approval.

All the list of documents to establish the qualifying requirements shall essentially have the minimum details as under:

1. Name and address and other details of the awarding customer
2. Name and address and other details of end-customer/user
3. Contract reference number and date
4. Complete scope of work against the contact
5. Initial value of the contract
6. Initial completion period of the contract
7. Final value of the contract
8. Final date of completion of the contract
9. Completion certificate- if job has been executed fully

If would be reasonable to presume that the bidder shall tabulate the above information and submit along with the copies of original documents from their customers, to make expeditious selection.

### **Earnest money deposit**

Earnest money deposit (EMD) for this tender shall be Rs. 200,000/- in the form of a bank draft on any nationalized bank payable at Bhopal and shall be in favor of MP State Tourism Development Corporation Ltd.

This EMD shall be returned to the unsuccessful bid on the finalization of the tender. For the successful bidder, this EMD shall either be adjusted the Performance/ Security deposit to the deposited by him or shall be returned to him on his furnished a Performance Bank Guarantee issued by a nationalized bank, for the amount specified hereinafter.

### **Tender evaluation process**

The process of the evaluation would be as under:

- The EMD (Envelope market part 1) shall be checked for its correctness for the details. Any bid not accompanying the EMD shall not be considered thereafter.
- Qualifying requirement (Envelope market part 2) shall be scrutinized for the details. There would not be any time for the bidder to clarify then and therefore, it is expected that the tenderer reads the qualifying requirements very carefully and submit all the documents that are essential to establish his credentials as qualifying bidder. It is advised that originals of the certificates, reference Purchase orders and other original be carried by the bidder's representative for on the spot verification and attestation – irrespective of whether the same has been notarized or not. Ambiguous or derivative statements/ documents shall be considered while evaluating the qualification of the bidders. **During the opening process of envelop-2, bidders will be called to give presentation of their concept in front of the committee. there after the bidders recommended by the committee will be qualify for price bid opening process.**
- Envelope market part 3 would then be opened of those bidders who would be found fully qualified and would be reserved for scrutiny and evaluation.

On the initial scrutiny if any queries are found, they would be sent to the bidder and clarifications evaluated. Any incomplete or evasive replies would be considered as irresponsible correspondence liable for rejection of the bid / tender.

While the original price bid would remain intact and valid any supplementary prices, required to be furnished, on account of individual item price implication based on technical queries, will be submitted by the bidder as separately sealed and market “Supplementary price bid to be read in conjunction with the original price bid”

### **.Schedule of prices**

The prices to be quoted by the bidder shall strictly be the format annexed to the Technical Specification, with the quantity to be filled in by the bidder along with the unit / total rates, as applicable. The bidder shall enclose an un-price copy of the Schedule of price; in the Techno-

commercial bid (Envelope market “part 3”)- without which bid would be considered incomplete and unresponsive.

## **Specification for the work against Sound & Light Show at Rajwada Indore**

### **Intent of Specification & instructions for the bidders**

This specification is intended to bring forth the scope of work and other important matters, related with the proposed SEL at Rajwada Indore (MP').

It is not the intent to identify each and every requirement and this document shall deem to include all that is necessary to complete the work in all respects.

The tenders shall be submitted by qualified bidders, as per the qualifying requirements / conditions in the KIT and shall be submitted on due date and time, in FOUR parts:

Part 1 - Earnest Money Deposit, in the form and for the value indicated in the NIT.

Part 2 - Details related with compliance with the qualifying requirements, supported by copies of following relevant documents:

- Copy (ies) of the Purchase Orders, indicating therein the full value of the Contract, Scope of Work, Date of completion.
- Copy (ies) of the Completion certificate(s), indicating therein the final value of the contracts) as also the actual date(s) of completion.
- Organization profile with details on the experience of various members of the team in the execution of SEL projects
- An undertaking that should any of the information furnished for the qualifying requirement be found incorrect or misleading, the bid shall be rejected and the earnest money deposit forfeited

All the documents related with the qualifying requirements shall be duly attested by notary and the originals of these copies shall be made available for verification whenever called for by MPSTDC

Part3- Techno-commercial proposal, covering all technical details and also the commercial details related with the proposal. This part would also contain un-priced copy of the bid to understand what has been submitted by the bidder and evaluate the bid accordingly.

Part 4 - Priced Schedule

On the due date and time of the tender opening. Part I & Part 2 shall first be opened and only after their scrutiny on correctness and fulfillment of requirements, Part 3 would be opened. It would, therefore, be relevant to mention that all information related with the qualifying requirements needs to be complete;. authentic and accurate in terms of those specified in the NIT.

After detailed scrutiny of Part 3 of the acceptable bidders and after bringing all the qualified bidders at par. Part 4 shall be opened along with any additional prices may be called for submission - to be read in conjunction with the original price bid,

### **Scope of work**

**The scope** of work shall cover:

- Concept development, script writing, artistic direction and production for 30-35 minutes of two languages Sound & Light show at Rajwada Indore (MP).
- Design, engineering, manufacturing, installation, testing and commissioning of the hardware, system integration, programming for the show, as above.
- **Preparation of all** documentation related with the show - including operation and maintenance manual, **as-built drawings etc.**

- **Preparing** appealing design for the spectator's gallery and renovation plan for the control room as per **functional** and logistic requirements of the show.
- **Civil works / interior works** related with the control room and the spectator's gallery (OPTIONAL)
- **Imparting of** training to the operating staff of the end-customer.
- **Operation &** maintenance of the show for the first year and thereafter (optional).

### **Integrated Project Management**

The bidder/ Contractor would deploy professional tools and technique to provide ensure that the project is completed on a turnkey basis through single-window responsibility, with out time and cost over-run.

such tools and techniques would cover the following minimum requirements:

- 1- Deriving the activity bar chart and important milestones / timelines, to meet the desired completion period.
- 2- Monitoring the progress of die work, in line with the accepted activity bar chart - including review of toe progress with related agencies (both internal / external), during periodic structured meetings at least -at least twice in a month - although the frequency and venue of which would be worked out as per the project requirements.
- 3 Identifying the requirements of spares, for trouble free and uninterrupted operation of the show for specific period of time, such that the stock of the spares is optimised and there is no block of funds for aggressive planning on the same. .
4. Providing support to MPSTDC on all matters related with the infrastructure requirements, Electrical Distribution of power up to auxiliary sub-station for the show and similar such needs of the customer

### **Artistic Direction & Production**

**This would essentially cover the following:**

1. Visit to the site and understanding / making note of the finer details of the site - including location of the spectator's gallery and other physical constraints / considerations, that need to be kept in mind for inclusion / exclusion, as the case may be.
2. Conceptualization of the script background, in consultation with the local historians and by research through the books / narration written from time to time.
3. Processing of the script including editing, designing the music, sound effect and light effect requirements.
4. Interaction with local authorities on the 'contents of the processed script and editing of the interim script based on the same. This also includes all interactions with approving authority (if required) at local and HO levels and obtaining approval from them - against authorisation from MPSTDC.
5. Dramatizing of the script, with careful incorporation of accurate contemporary vocabulary and accent.
6. **On spot** discussions / deliberations and planning at site, between the following:
  - Customer's consultant / Manager - to be designated by customer's supervision and monitoring team
  - Local authorities, if available and as required.
7. Research by the Music Director on the basic background of the style of music that is contemporary to the show period, to be covered in the show.
8. Integration and preparation of final script with dialogues and music / songs / narration all combined -ready for live recording.
9. Composition of music, relevant to the show, by the Music Director.
- 10 Finalizing the voice for narration - subject to MPSTDC approval on a list of such possible celebrity narrators,
11. Rehearsing the sound / music with the musicians and singers
12. Live recording at A class sound studio.
13. On line edition, and re-take if required.
14. Panning the sound levels in line with the known site conditions, including the speaker locations, in mind.
15. Editing the recording and keeping the tracks - ready for digitization and transfer to the final storage media.
16. Tuning, finals tuning at site with all the Directors at site (usually 10-15days) and the purview for the competent authorities.

### **System Design Integration and Show programming**

This would essentially cover the following:

- 1- Visit to the site and understanding the condition of the site, from audio considerations - including location of the speakers with respect to the gallery and other physical parameters. This also includes understanding of the structures around that can dampen the sound or can create reverberations.
- 2- Preparing and designing of the requirements of entire system, keeping in mind the speaker specification, sound pressure imaging, interface equipment requirements, dimmer requirements etc., in line with the • latest technology available worldwide.
3. Transfer of the final edited recording on to multi-track of the final medium of the recorder, using digitization technique in a sound studio, after the track has been laid in line with the speaker allocation.
4. Programming for the lighting cues, under direction of the Lighting Designer and Art Director and testing it in the studio.
5. Installation, testing and commissioning of the sound and light control systems, as above, including the installation of the sound medium on the recorder and the lighting program on show controller computer at site, .<sup>s</sup>
6. Tuning and fine-tuning the synchronization of the light and sound circuits, fine tuning the sound pressure levels etc. at site, during final testing of the entire show.
7. Engineering to:
  - Finalize the location of luminaries / speakers.
  - Prepare complete Bill of material - based on the final requirement of the luminaries, cables and associated equipment / accessories.
8. Pre-installation checks on the equipment and post - installation testing of the sound parameters, light effects etc. - with interaction to set / reset / modify the equipment parameters to meet the show requirements.
9. Post installation and test commissioning to test the performance, as per the requirement of the show, as directed and adjudged jointly by the Creative and purview team.

### Equipment

The equipment shall be of the latest technology in the field of audio, lighting, sound effects, lighting effects, show control power distribution and automation and shall be such that the same can be upgraded, whenever such opportunity exists, to enhance the performance of the installation, without making the original equipment fully redundant.

While the choice of the type of equipment for the show is in the scope of the bidder, based on the show requirement, broad guideline shall be ease in availability, maintainability, sustainability, upgradecable and, above all, energy efficient.

### **Technical details of the equipment**

The equipment shall be state of the art equipment, with proven performance in international level of shows. The chosen equipment and the controls shall make the show virtually operators free.

The proposed sound reproduction unit shall be of robust design and shall have hot standby for the show content\*, readily available at site, such that the replacement of the standby is immediate.

The proposed amplifiers shall be of high quality performance and shall be designed to suit the wattage requirement, for the ensure frequency range covering speech and music alike, so as to produce adequate sound pressure level (96 dB) at the spectator's gallery.

The proposed Equipment Rack shall be of reputed make, aesthetically appealing, suitably sized to accommodate required equipment, as per the bill of material and as required in line with the design requirements. Adequate bays shall be provided as spare for any modification, that may be required - should upgrading is required at later stage. The racks shall be provided with rear door - with front one having transparent sheet / glass, should it also be provided.

Main Speakers shall be weatherproof for outdoor location and shall have the frequency spectrum, as required for the narration, music, and / or any special sound effects - suitably rated for the desired effect of sound at site. Additional indoor

speakers with volume control switch shall be provided for monitoring by the operator in the control room and to facilitate testing of the system.

The Dimmers shall be solid state, of rugged design, with provision for protection against overloading and shall be self-diagnostic for no load conditions. The Dimmers shall be multi-channel output types, each.

Channel of 1/2/4 kW rating as per the design requirements, and shall have universal protocol of controls. Provision shall be made for optically isolating the control electronics from the electrical supply.

While selecting the lighting projects/ luminaries, the choice shall be such that they are efficient and are easy in terms of maintenance or replacements. Where colour glasses are used, suitable provision / design shall be incorporated to ensure that the colour does not fade with the heat of the lamp.

Cables used for direct burial shall be PVC insulated. Armoured and copper conductor - of reputed make. Cable used for surface / column mounting shall be PVC insulated. Armoured / un-armoured , copper conductor – of reputed make Cable that have to be routed through pipes , conduits flexible piping shall be PVC insulated, un-armoured, copper conductor – of reputed make Cables passing through road surfaces or crossing through nullahs / drains shall be routes through GI / RCC Hume pipe.

All equipments shall be manufactured, installed, tested in advance with the relevant standards and code of practices of the BIS.

MPTDC shall provide one numbers 30/4-wire feeder for termination in the Main Distribution Board (MDB) to be supplied and installed by the contract. From this MDB, power shall be fed dimmers, in controlled manner for onward distribution to the luminaries in the field or electrical load in the control room.

## Specifications

### ***Power Amplifiers:***

The Power Amplifiers shall be for the range frequency response for narration and music. It shall be a professional sound Reinforcement amplifier with adequate protection features and shall be suitable for mounting in standard 19<sup>th</sup> audio rack. It shall have the following details Specifications:

Input Connectors	Balance Jack, Female XLR with input link switch.
Output Connectors	Neutrik Speakon
Input Impedance	40 Kohms Balanced
Input Sensitivity	0.775 Vrms (0 dB)
Input CMRR @ 1KHz	>70dB
Channel	-88dB

Separation: @ 1Khz	
Frequency response	: 20Hz-20KHz±0.4dB
@ rated output	:
Outputs	Fully isolated 70v or 100v transformer outputs
Outputs power (RMS) Per channel	Both channels driven: 200 watts RMS into 100v line, primary transformer winding 8 ohms
Metering:	LED status indicators for clip and protection shut down
Protection Features	Relay switched DC sensing Silent Start / Silent Stop 'Input / output muting at turn on/off
Cooling	Ultra fin heat sink and variable speed DC cooling fans-2nos, in front to back mode
AC Power	240V AC. Removable power lead
Slew Rate	35Vus
Damping Factor	200:1
Construction	19"rack mountable panel power switch and level controls.

***Multi-channel Digital Audio Signal processing equipments***

The signal processing equipment shall operate in Digital Audio Platform and shall have multi-channel configuration. Input and outputs shall be analog, with the internal 12-bit A/D and D/A converters at a sampling rate of 48 KHz. All internal signal processing shall be digital (DSP). Electronically balanced inputs and outputs shall be provided on plug-in barrier strip connectors. Inputs shall be individually programmable to accept line level Signals. outputs shall normally provide line level signals.

Each hardware configuration shall include six 60 MHz 32-bit floating point DSPs , an 80 MHz 32-bit power PC processor, 32 MB RAM and 8 MB flash ROM. Software shall be provided for creating /connecting DSP system components within each hardware unit. Available system components shall include ( but not limited to) various forms of mixers, equalizers, filters, crossovers dynamic / gain controls, routers, delays, level controls level meters and tone generators. Ethernet communications shall be utilized for software control configuration and DSP sharing after initial programming, systems may be controlled either using TCP/IP or RS 232 serial communications.

It shall conform to be the following detailed specifications:

Frequency Response	20 Hz to 20 KHz (+0/ -0.3 dB)
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THD (line level)	<0.007%
Equivalent input noise	-126 dBu
Output noise	<-85 dB
Maximum gain (input channel)	66dB
Cross talk (channel to channel)	<-90 dB
Output impedance	200Ohms
Input impedance	8 K Ohms
Maximum output	+24 dBu
Maximum input	+24 dBu
Sampling rate	48 KHz
A/D and D/A convertors	24 bit
Mounting	Rack mountable

### Digital Hard disk based multi-channel Sound reproduction unit

It shall be a 16 or 24 Track, Digital 24-bit hard disk recorder / player with internal 9 GB hard drive. It shall be possible to extend recording time with external hard drive. It shall have extensive non destructive audio editing functions that can be accessed from the front panel. It shall have a 16 channel programmable digital mixer, foreign file format capability required for recording and dubbing. It shall have SMPTE and MIDI synchronization facility to control external digital equipment such as lighting controller etc. it shall have high sampling rate for up to 96 KHz. It shall have the following detailed technical specifications.

Digital Audio Format	24 bit linear PCM
Sampling Frequencies	Up to 98 KHz
Recording media	Internal and external Hard disk
Internal Mixer	16 channel
OS memory	Flash ROM
Menu display	14 segment FLD
Time code display	7 segment FLD
Meters	16×20 segment FLD
Analogue audio inputs	8 balanced with gain select
Analogue audio outputs	16 balanced with gain select
Digital audio input	1×XLR
Digital audio output	1×XLR
Syne /clock input	1×BNC
SCSI connection	50 pin
Headphone output	Phone jack
Accessories	Spare hard disk, 9GB capacity barracuda

	SAMPTE Interface board
	Any other required for interface with PC/software for sound and light control and synchronization.

*On-line UPS*

The on-line UPS shall be capable of rack / separate mounting. It shall be of suitable capacity. to match the equipment load with true on line double conversion technology. It shall have in-built maintenance free sealed user replaceable batteries with a facility to mount external hot-swappable battery pack. It shall have protection from lightning, surge voltage sags, and harmonics and power outages. It shall have a fail safe by pass to critical load will be maintained even during UPS overload or fault condition. It shall have a communication interface to allow UPS monitoring and control using PC. It shall the following detailed specifications.

<b>POWER</b>	
Rating	W
Input Specifications	
Load (%)	0 to 30%
Input voltage range	120 to 276 V, single phase
Frequency	45 to 65 Hz
Output Specifications	
Voltage	220 / 230 / 240 V
Frequency	50 Hz
Safety	EN 50091-1
Shall be CE compliant	

**Main Loudspeaker**

The Weatherproof loudspeaker shall provide clear, natural sound from an easily manageable package with minimal visual intrusion on installation décor. It shall ideally suited to outdoor applications such as stadiums, Themed Entertainment Facilities, Zoos, Restaurants and other venues where high humidity or moisture may present problems for conventional loudspeakers.

To ensure long term performance in adverse environments. It shall conform to weather proof ness IEC 529 IP X5 standards. All metal fixtures shall be stainless steel, and the low frequency and back plates shall be sealed with rubber gasket. The cabinet shall be made from a durable, yet lightweight high impact resin , and designed with reinforcing ribs and smooth rounded edges to eliminate cabinet resonance and avoid early reflection smearing.

Low frequencies shall be handled by a foam rolled surround 6½’’ bass driver, and high frequencies by a soft dome 1’’ HF driver. Both driver shall be screwed and sealed for rigid mounting to the front baffle.

The front of the cabinet shall be protected with a sturdy steel mesh grille. The special matte finish of the cabinet means that its neutral dark color (or white) will blend neatly in with exiting décor, and can also be easily painted for applications that require complete colour coordination. each loudspeaker shall be complete

with swivel bracket / omni mount, allowing installation, either vertically from beams, walls, etc. horizontally from ceilings or trussing depending on the application.

Frequency Response	70 Hz-20KHz
Amplifier Power	As per continuous Program requirements
Sensititivity @ 1 Watt 1 Metre	90dB
Driver Type 1"/25mm	Low Frequency 6½" /165mm ; high Frequency
Input Connector	Neutrik Speakon wired 1+1-
Dispersion	120 degrees V and H,- 6db down
Maximum Dimensions	290mmH×195mmW×210mmD

Weatherproofing to IEC529 IP X5 standards

### *Monitor Loudspeaker*

The monitoring loudspeaker shall be of 10 W RMS capacity, wooden cabinet suitable for wall mounting. it shall be full range loudspeaker (powered or passive as per system design).

It shall provide clear, natural sound to the operator in the control room. It shall have an internal ON/OFF switch along with volume control facility. The details specifications shall be as follows:

Frequency Response	100 Hz to 15 Hz
Wattage	10 W RMS
Dispersion	120 degrees Vand H
Cabinet	Wooden with black front cloth
Mounting	Wall mountable
Controls	ON/OFF switch and volume control

### *Computer*

Pentium based personal Computer

Processor	Pentium 3,,600 MHz or higher
Memory	32 MB RAM or higher
Cache	512 kB or higher
Hard disk	10 GB or higher
Hard disk controller	IDE-ATE interface, SCSI for external hard disk
Bus	PCI / ISA
Ports	Serial, Parallel and USB
Floppy disk driver	1.44 MB FDD
CD ROM	24× or higher CD ROM
Audio	Sound card with MIDI control interface.

Video	SVGA or higher
Monitor	15" or higher
Mouse / Key board	PS/2 compatible mouse, key board
Operating System	MS windows 2000/Me
Ethernet card	10 Base T (Optional)

***Electronic dimmers***

No. of Channels	:	24 Channel Version
Rating per channel	:	10A per channel load capability
Type of Load	:	Fully inductive and/or resistive compatible at any load (Dimming or Switching of load)
Preheat facility	:	ON dimming versions
Input voltage	:	100-230V AC, 1,2 or 3 phase 48--62 Hz
Control facility	:	Analogue 0-10 V - PMX Digital (RS232)-DMX digital inputs
Diagnostic facilities	:	Internal channel override and test switches
Internal diagnostic	:	Indicators for analogue and digital input "Status" Indicator show output/fuse blown status for each channel.
Connectors	:	All connections accessible by removal of front cover.
Mounting	:	Wall or 19" rack mounting.

***Luminaries /Projectors /Special effect projectors***

Luminaries / projectors / special effects projectors shall be selected as per the design frozen for the show. along with lamps, colour glasses and any other protection / modification to render the luminaries useful for the show, without any discomfort to the audience during the night.

These shall be of the outdoor type or rendered weatherproof.

The accessories of the luminaries shall be of durable quality and shall be of standard available type such that

there are no problems of inter-changeability or availability of the same.

**Distribution equipment**

Distribution Equipment like Electrical Distribution board, field junction boxes and luminaries / speaker junction boxes etc. - shall be designed as per the final scheme adopted for the show - for the control as well as the distribution of power / controls to various equipments in the field / control room.

These shall be indoor / outdoor type, as applicable, and shall be painted in accordance with other equipment within the same area of mounting or painted to suit the ambience.

The components mounting inside these distribution equipments shall be of reputed make, and the quantities shall be such that there is at least 10% redundancy on the main equipment.

Outgoing terminals of the main distribution board shall be of heavy duty while the incoming / outgoing terminals of all other distribution equipments shall be screw less terminals of high standard.

### **Cables and cabling**

Cable for the show shall be PVC Insulated (1100V grade), multi-core, copper conductor, armoured un-armoured / flexible, as per the requirements, and each core shall be of multi-strand.

Cable for the audio distribution shall be suitable size to minimize the voltage drop and shall be suitable screened to eliminate noise.

Cables for the controls shall be of high standard and shall be designed for the use intended for.

Cabling shall be done in a neat manner and all armoured cable shall either be buried in ground or laid on structure / wall / column with suitable designed spacers / saddles / clamps, such that there is a total grip of the cable and the layout is visually appealing, The spacing of these spacers / saddles / clamps shall be at least 100 cm on horizontal run and 75 cm in the vertical run.

Flexible / un-armoured cable shall be laid through steel conduits / flexible lead coated conduits and all the accessories for such layout shall be of reputed / good quality. Use shall be made of 2/3/4 way junction boxes for cable distribution and use of JB with connectors shall be made wherever there is a requirement of distribution of main circuit to multiple sub-circuits.

All cable terminations shall be done using lugs or appropriate type and reputed make and all such terminations shall be ferruled as per acceptable scheme. The cables shall be terminated in various types of distribution equipment(s) using brass double compression glands or using glands suitable for lead coated flexible conduit - as the case may be.

Inside of the front panel of the distribution equipment shall have the FROM - TO - VIA information pasted permanently for easy identification and diagnosis.

- 2 MM. of Earth Pits near the control room
- Transfer of the mixed, balanced, cued sound track on to the medium of the sound reproduction unit, tuning / fine-tuning, sound imaging etc. of the show at site, for completely cued / coordinated show, in line with the Artistic requirements.

### **Supply Management, including logistics**

This shall essentially ensure that the supplies are made in line with the design / show requirements, meeting the quality standards and the requirements of the show.

This shall also ensure that the material is dispatched to the site with customer as the consignee, through a reliable transport agency / mode.

This would also ensure that the material is insured for transit and subsequent to your handing the same to us, on receipt of the material, also for the storage - till installed and handed over.

### **Site Management**

This shall ensure that the site is mobilized in time to receive the goods, to be stored on your behalf, and the work is executed in terms of the code of practices, as applicable for such works.

This would also ensure selection of a sound team of supervisors / electricians, through labour contractor(s) such that the workmanship is of the highest order.

### **Basis of tender**

The bidder shall propose the price structure based on firm price basis, whereby even if during the design /execution of the contract, the quantities of the constituent items may vary, till the project is completed the final payable lot price would still be limited by the firm consolidated amount.

### **Basis of the prices**

In the Schedule of Prices, prices shall be given separately for the material and the allied services, as required to complete the project on turnkey basis - although the work is deemed indivisible works contract. The prices shall be submitted in separately sealed cover, and shall be based on following considerations:

- Prices shall be on *composite works-contract* basis, subject to levy of works contract tax at applicable rates prevalent in the state of Madhya Pradesh - which shall be charged extra. The bidder shall, however, indicate at this stage the rate that he considers are prevalent at this stage of tender submission.
- The prices for supply shall be inclusive of excise duty and sales tax, as applicable between the bidder and his vendors / sub-vendors. - •
- The prices for supply shall be inclusive of custom duties at presently applicable rates.
- The prices for the Services shall be *exclusive* of the Service Tax, and shall be levied as per the applicable rates.
- All payments to the bidder-contractor shall be released subject to IT-TDS.

The prices shall include comprehensive insurance valid till the commissioning of the work and handing over to MPSTDC immediately thereafter, for the material, installation, third party compensation - from the warehouse of the bidder-contractor's supplier/ vendor till the completion and shall have MP State Tourism Development Corporation as the beneficiary.

### ***Validity of Prices***

The prices shall remain valid for our acceptance and placement of Letter of Award, along with the signing of associated agreement, for a period of 90 days from the date of opening of this tender.

### ***Completion period***

Time allotted for the completion of this work is 10 months from the date of issue of Letter / Tax of award

Should there be an in-stage delay in the completion of the project, for reasons attributable to the bidder-contractor. it is expected that the same would be made up in due course, within the overall completion period.

However, if the project is delayed beyond the agreed date of completion, the delay shall be subject to liquidate damages clause and such conditions would be discussed in details during the pre-award meeting and incorporated in the agreement, when due.

### ***Guarantee***

The equipments and workmanship shall guaranteed for a period of 18 months from the date supply or 12 months from the date of installation, whichever is earlier- with the proviso that if MPSTDC wishes to have any extended guarantee. The same shall be available to them, at suitable price (to be quoted now in the proposal).

### ***Post guarantee annual maintenance contract (AMC)***

The bidder shall be also submit proposal integrated within the main proposal, for post guarantee annual maintenance contract for the continuity and fullness of the show.

### ***Post guarantee warranty***

Should MPSTDC decides not to enter into any AMC contract with any other party- the bidder must submit undertaking offering continuing warranty against services against charges-as applicable on call-to-call basis. Such warranty shall be available up to seven years of operation.

**Terms of payment**

Bidder shall submit the proposed terms of payment, with a full understanding that all payments would be released on progressive payment basis and shall be treated as advance, against various milestones achieved.

SCHEDULE OF PRICES							
(Please furnish complete details, based on design estimation on fixed price, turnkey basis contract)							
Sr.no	Item	PLEASE SPECIFY		UNIT RATE			AMOUNT
		Make	Qty	Unit rates Basic	Taxes	Unit Rates (including tax)	Amount
	SUPPLY, INSTALLATION, TESTED AND COMMISSION						
<b>1</b>	<b>Central Audio and Control Equipment</b>						
A	Equipment Rack						
B	Digital Signal Processor unit / Equalizers						
C	Audio Power Amplifiers- for main speakers-ARX make ZR 550						
D	Audio Power Amplifiers- for subwoofer- ARX make ZR 850						
E	Sound Reproduction unit complete with remote control and back up media suitable for 2 languages of duration specific in the tender –and also all test signals and pre/post show music						
F	3kVA on-line UPS with sealed maintenance free batteries –LIABHERT make						
G	Others (please specify)						
<b>2</b>	<b>Loudspeakers</b>						
A	Monitor loudspeaker- indoor with volume control						
B	Main loudspeakers -- Outdoor type- ARX make PMX 12 CV 100 WR						
C	Special effects speaker-subwoofer pro sub CV 100V WR of ARX						
D	Poles – with concrete foundation						
E	Others (please specify)						
<b>3</b>	<b>Luminaries-with color glasses or equivalent LED pictures wherever required</b>						
A	150 Watts BC Miniature floodlight luminaries						

B	1000W Halogen-Philips / Bajaj						
C	500W Halogen-Philips / Bajaj						
D	Uplights/PIN SPOTS/PAR 30-IP55-SILVERLINE make						
E	PAR 64 lamp luminaries –IP64						
F	Water effect luminarie-1000 Watts halogen						
G	Fire effect luminarie-1000 Watts halogen						
H	CMY color changer-Outdoor uplighter IP 67 with DMX interface						
I	CMY color changer-outdoor flood						
J	Animation Effects-water / Air / Fire						
K	Strobes + PODS						
L	<b>Equipment required for Projection</b>						
1							
2							
3							

### SCHEDULE OF PRICES

(Please furnish complete details, based on design estimation on fixed price, turnkey basis contract)

sr.no	Item	PLEASE SPECIFY		UNIT RATE			AMOUNT
		Make	Qty	Unit rates Basic	Taxes	Unit Rates (including tax)	Amount
	<b>SUPPLY, INSTALLATION, TESTED AND COMMISSION</b>						
L	Gobo/ Profile projectors						
M	Special effect projects /luminaries						
N	Multi-gobo projectors						
O	Fog-machine-DMX controllable						
N	Others(please specify)						
<b>4</b>	<b>Show Control Equipments</b>						
A	Show control computer complete with associated software and interface						
B	Opto splitter						
C	Controller						
D	24×10A dimmer-with 3p Neutral 63A Switch MCB disconnecter						
D	Others(please specify)						
<b>5</b>	<b>Distribution Equipment</b>						
A	Field Junction / Distribution Boxes						
B	Luminaire / speaker Junction Boxes						
C	Main Distribution Boards						
D	Others(please specify)						
<b>6</b>	<b>Cables</b>						
A	Heavy duty Ar. Copper conductor speaker cable						
B	Power Cable (please indicate size wise / configuration wise breakup of quantities and unit rates)						



C	Control cables (please indicate size wise / configuration wise breakup of quantities and unit rates)						
D	Others(please specify)						
	<b>TOTAL-SITC</b>						
	<b>SERVICES</b>						
S-1	System integration / Programming / tuning / O&M Manual / Training and 7 days operation						
S-2	Artistic Direction-covering Script writing, Music / light Direction and overall co-ordination for the artistic contents.						
S-3	Artistic Production of the contents and tuning / fine						
S-4	Others(please specify)						

SCHEDULE OF PRICES							
(Please furnish complete details, based on design estimation on fixed price, turnkey basis contract)							
S.no	Item	PLEASE SPECIFY		UNIT RATE			AMOUNT
		Make	Qty	Unit rates Basic	Taxes	Unit Rates (including tax)	Amount
	<b>SUPPLY, INSTALLATION, TESTED AND COMMISSION</b>						
	<b>TOTAL-SERVICES</b>						
	<b>TOTAL-SITC+SERVICES</b>						
<b>CIVIL WORKS(OPTIONAL ON THE PART MPSTDC- BIDDER MUST HOWEVER QUOTE)</b>							
c-1	Civil / interior works related with the Control Room and spectator's gallery for the show						
	<b>TOTAL-CIVIL WORKS</b>						
	<b>TOTAL- SITC+SERVICES+CIVIL WORKS</b>						
	<b>Taxes ( if any)</b>						
	<b>Grand Total</b>						

**Note:** Application forms, complete in all respects, shall be submitted in a sealed envelope superscribed “Notice Inviting EOI For Sound & Light Show at Rajwada Indore” addressed to the Managing Director, MP State Tourism Development Corporation Ltd., Paryatan Bhavan, Bhadbhada Road, Bhopal-462003

**(TO BE SUBMITTED WITH ENVELOP A)**

1.	Name of the Organisation	
2.	Name of the authorized person	
3.	Address & contact Numbers	
4.	Year of establishment	
5.	Status of the firm ( whether Pvt Ltd company/ Public Ltd. Company/ partnership firm/Proprietary )	
6.	Names of Directors/ Partners/Proprietor	
7.	Whether registered with registrar of compnies/ firms – mention number and date with proof	
8.	Whether registered with sales tax – mention number and date. Also furnish copies of sales tax number allotted	
9.	Whether registered with service tax – mention number and date. Also furnish copies of service tax number allotted	
10.	Whether assessee of Income tax payee . Furnish copy of last income tax return and PAN.	
11.	Whether registered with Provident Fund authorities . Furnish PF registration copy	
12.	Whether registered with ESIC authorities . Furnish PF registration copy	
13.	Name and Address of Bankers	
14.	Whether empanelled with other Government organizations . If so give names of organizations with the details of supply.	
15	3 years average annual turnover	Year -1 Year-2 Year-3
16	<b>Any other information</b>	

Signature:  
Name:  
Designation:  
Affix Company seal

## **DECLARATION**

1. I / We have read the instructions appended to the Proforma and I/We understand that if any false information is detected at a later date, any contract made between ourselves and MPSTDC on the basis of the information given by me/us can be treated as invalid by the MPSTDC and I / We will be solely responsible for the consequences.
2. I/We agree that the decision of Union MPSTDC of India in selection of contractors will be final and binding to me/us.
3. All the information furnished by me/us above here is correct to the best of my/our knowledge and belief.
4. I / We agree that I / We have no objection if enquiries are made about the work listed by me / us here in above and/or in the accompanying sheets.

Place.

Date.

SIGNATURE:

Name & Designation & seal of the Company