

REPORT ON PRE-BID MEETING QUERIES AND RESPONSE FOR TENDER NO.I-18012/7/20(234) – 3D PROJECTION MAPPING ETC. AT NGMA, NEW DELHI

Sl. No.	Pre-bid query	Response to Pre-Bid Queries and Modification in terms, wherever necessary
A	AGENCY 1	
	<p>1. Projectors, Lasers & Lights, S.no -1, Page No-27: The specifications favours to only one approved brand i.e. Christie. Amongst the three approved brands, NEC does not have a product in this category at all. The product from Barco that partially meets the specifications is their “flagship laser cinema projector” for movie hall applications and can be termed non-compliant easily later. In this situation only one model from Christie will quality the specifications. In the current form, since the specifications are favouring only one brand, this will lead to price control by them and your organization will be at loss in absence of fair specifications. We would request you to kindly modify the specifications so that the specifications are generic and encourage fair completion so that you get the best price for the project.</p>	<p>The specification has not been drawn to favour one party intentionally. The intention is to get the product that is giving us the latest technology which can last for at least another 5-6 years, if not more. Vendors can choose any projector with the given specification and need not restrict themselves to the four brands mentioned as long as the brand meets the technical specification. If the vendor intends to use any projector other than the brand mentioned in the RFP, they have to take specific approval from NCSM.</p>
	<p>2. “RGB Laser projection technology” for professional/ non-Cinema application is available only with Christie out of the three approved brands. Request you to kindly include “Laser Phosphor projection technology” also as approved technology so that the specifications are generic and all brands can compete. In the current format, the specifications are locked in favour of one brand only. Request you to amend the specification as “RGB Laser projection technology/ Laser Phosphor projection technology”.</p>	<p>RGB Laser is the latest technology, especially for higher brightness projectors. That is why RGB has been preferred for higher brightness projector. The theme of the show requires projection of some very rich colours with good brightness and high resolution. Considering the quality of projection required, best specifications have been chosen. Therefore, this can’t be changed</p>
	<p>3. The Lamp lifetimes are published in “various modes and special conditions” by different manufacturers, at times this is done to show misleading long life that is usually measured in “Special Conditions” thats not real. In the absence of “Mode/ Testing conditions” stated in the tender, there is no benchmark for equating various models. A brand that publishes a high-inflated value under “special conditions” gets away by calming high Lamp life. In the current tender specifications- Christie publishes the Lamp life as 25,000 hrs subject to “To 50% brightness (results may vary depending on environmental conditions i.e. dust, smog, other contaminants)”, Barco publishes 40,000 hrs 40,000 hrs @ average usage conditions. NEC Publishes 20,000 hrs. Request to revise the 25000 hours as asked in the tender specifications to 20,000 hours typical in normal mode.</p>	<p>May be revised to 20,000 hrs</p>
	<p>4. The Resolution asked in Tender specification is \geq 4K (4096X2160) native resolution or better; The improvement in performance that native 4K (4096 X 2160) resolution offers over 4k-UHD (3840 x 2160) in outdoor projection mapping applications is not even distinguishable to a naked eye where the price difference between the two is very high. From typical viewing distances as in Projection mapping projects, the variation in Pixel Size is so small that viewers with the sharpest of eyesight would not be able to distinguish.</p>	<p>After re-assessing the site conditions, it is felt that minimum requirement of the projector is native 4K-considering the quality of projection required. Therefore, this can’t be changed.</p>

	<p>To illustrate this, we compared the Pixel Size that we would get from a 4K (4096 X 2160) projector Vs the pixel size we would get from a 4k-UHD (3840 x 2160) Projector if the screen size is 15m X 8m and both projectors are positioned 20 m away. In both the cases the Pixel Size we get is 3.90 mm. Attached are the Projector calculator reports for your perusal.</p> <p>We would request you to consider Resolution as \geq 4k-UHD (3840 x 2160) as this will give the same viewing experience but at a lower price.</p>	
	5. Since "Digital projection" is in approved makes in the 13000 lumens category (S.no-2), Request to add "Digital projection" in the 25000 ANSI lumens category ALSO (S.no-1).	Any brand which satisfies the technical specification, including Digital Projection, can be selected by the vendor
	6. Projectors, Lasers & Lights, S.no -2, Page NO-27: The value of contrast ratio 2,000,000:1 as asked in the tender specifications is specific Christie as they have published their Contrast ratio Value in term " Full On/Off (Christie Real Black enabled): 2,000,000:1 " that's specific only too them so only Christie qualifies among the five brands in the list of approved brands. Every reputed projector manufacturer publishes " Dynamic contrast ratio value " in their data sheet. "Dynamic Contrast Ratio is a universal standard across all Projector brands to measure and state their Contrast Ratios and a benchmark standard at which all brands can be equated without bias. Request to specify the Contrast Ratio value as "Dynamic Contrast Value".	Agreed. Instead of contrast ratio of 2,000,000:1, the specification should be read as " Dynamic Contrast Ratio of 5500 and above "
B	AGENCY 2	
	1. The Jaipur House being a Grade II Heritage Structure, which authority will approve the plans related to the technical scheme and if NGMA will procure the approvals on behalf of the bidder.	NGMA, through its consultant under the guidance of NCSM will give clearance approvals. However, the successful bidder will have to take all necessary clearances from local authorities. NGMA will facilitate the statutory clearances that are required to be taken by the agency.
	2. Is there any possibility of extension of the timeline proposed for execution of the project?	NO. The project has to be executed under a strict time target.
C	AGENCY 3	
	1. As you have asked in the tender under General Eligibility that Valid electrical License of the /firm/lead firm – We feel that once the tender is awarded then the company can engage in the electrical licence.	This is an eligibility criteria so valid licence is required for the submission of the bid.
	2. Similar works shall mean concept, design, supply, installation, testing & commissioning of Permanent sound & light / Multimedia projection mapping show (3D projection mapping based sound & light show /Live Action & 2D-3D content based permanent Multimedia projection mapping shows) – Will the permanent work for private entity be considered? Also, define the definition of permanent work. (In one of the Govt. events of Goa Govt. they defined the definition of permanent work; the copy of the same is enclosed for your reference).	Yes, the show developed for private agencies will also be considered. Permanent means the show is not installed temporarily for a day, week or a month on rental basis for any event but is installed permanently by procuring and installing all the hardware and designing and developing a dedicated show with proper storyline, effects, dubbed voice over and specially designed audio track and the show is running regularly continuously.
	3. In the scoring section at point no 4 mentioned maximum marks 15 but in the detailed part of this scoring there is mentioned that "For one similar completed works having	In order to score maximum marks the agencies need to have at least 2/3 works of different values as indicated in the marking scheme.

	value ≥ Rs. 3.80 Crore – 10 marks.” – Kindly look into it and advice.	
D	AGENCY 4	
	1. Kindly review/correct the duration of the script viz. mentioned as 90 minutes in the content details, as the show duration is only 25-30 minutes .	In Annexure – A, Serial 12, Indicative BoQ A (1) 90 minutes should be read as 25-30 minutes . Also, the show duration for secondary Show (Laser Show) shall be of 8-10 minutes .
	2. Can you also give some clarification on if the demo video (animated capsule) has to be submitted during technical submission OR could be directly presented to the committee during the technical presentation?	Demo video will be required at the time of Technical Presentation
	3. What is the project cost including Operation, Maintenance and Management (O&M)	In the Work Experience eligibility it is mentioned that the bidder should have done One similar work of value not less than Rs. 3.80 Crore of the estimated cost of work Or Two similar works each of value not less than Rs. 2.40 Crore of the estimated cost of work Or Three similar works each of value not less than Rs. 1.90 Crore of the estimated cost of work. This is as per the standard government norms, which is 80%, 50% and 40% of the estimated value of the tender
	4. We request you to remove the following clause: " If any bidder has executed the similar work as a part of a consortium/JV in the past then the work experience of the bidder shall be considered as valid only if all the consortium/JV partners are participating together in the present RFP also. "	This clause can't be removed as the credit of the tender is shared jointly by the JV partners. Therefore, if the partnership continues for the next project then only the credit can be shared.
	5. Kindly clarify if the "technical team" could be from either of the partners aiming to work in JV.	The technical team can be from either of the JV partners, ie, some of the team members can be from one partner and the other can be from the other partner.
E	AGENCY 5	
	1. No Budget is mentioned for the Project. Please suggest a Budget earmarked for the project.	Please see the clarification in D (3)
	2. Clause 2.III General Eligibility Valid electrical License of the /firm/lead firm Query: Having an electrical license does not ensure the Creative capability of a company in any manner. Most of the agencies with experience in the Sound and Light shows will not have this registration. Such shows demand a higher level of understanding of Creative Concepts, Projection Mapping technology and hardware, Audience engagement psychology and knowhow of Latest Technologies? This condition will only limit the participation to maybe electrical hardware companies and these companies do not have experience or knowledge of creating such high-end creative shows. You may not get the right partner to create an international standard tourism worthy creative and engaging show. Infact 4 out of 5 of the pre-qualifying agencies in a similar Jodhpur Development Agency tender recently did not fulfil this condition and the tender had to be retendered with this condition removed. Suggestion: This clause may be removed.	Please see the clarification in C (1)

<p>And if required, alignment with an Electrical Licensed company/ person may be made mandatory for the winning agency.</p> <p>3. General Eligibility. Notes, Pg 13-14: Here the similar works shall mean concept, design, supply, installation, testing & commissioning of Permanent sound & light / Multimedia projection mapping show (3D projection mapping based sound & light show /Live Action & 2D-3D content based permanent Multimedia projection mapping shows) We request you to kindly widen the definition of Similar Works in order to ensure sufficient participation of capable entities in the bidding process to ensure successful closure of the bidding process. Highly restrictive qualification criteria only works against the benefit of the project. Many times last year itself due to fewer participation of entities in the bidding process the entire bidding processes have been scrapped with no outcome. And, The provisional Light and Sound shows are much more challenging due to their short term implementation timelines, lesser time available to curate and deliver, dynamic nature of structure and usage / demand of latest tech equipment, enriches the Agency's team and experience multi-fold and makes us far more adapt & exposed to the challenges of a Sound and Light Show Solutions and makes us capable of delivering much more successful and extravagant Light and Sound Show Solutions. In view the above, kindly amend the definition of Similar Works: “SIMILAR WORKS shall mean concept, design, supply, installation, testing and commissioning of classic sound & light show/ projection mapping-based sound & light show/ laser show.</p>	<p>Since the project is of special nature, all those works that are similar to the project in question have been already added. Since Light and Sound show doesn't require any 3D graphic generation and mapping on the façade, considering only Light and Sound shows is difficult. However, if the light and sound show is developed in combination with the projection mapping show then that will be considered as eligible.</p>
<p>4. General Eligibility. Notes, Pg 13-14: If any bidder has executed the similar work as a part of a consortium/JV in the past then the work experience of the bidder shall be considered as valid only if all the consortium/JV partners are participating together in the present RFP also. This is an extremely restrictive condition. JV are specific project, specific time bound associations formed between companies to improve their capability and capacities. A lot keeps changing in the business dynamics between two companies and with growth comes self-sufficiency or alignment with a better partner. How is this condition helpful in finding the right agency for executing this project? There may be cases where past JVs did not work well for the project and this condition forces past JVs only to participate as JVs Why are companies being forced to enter into JV with the same company that they may have done a JV years back and may / may not have a favourable business association anymore Suggestion: This condition should be removed</p>	<p>Please see the clarification in D (4)</p>

<p>5. Clause No. 8: Completion Time: The project/work is to be completed within 2 Months from the date of issuance of the work order/LOI. Basis of our experience of curating more than 8 shows as of now, we can submit that complete curation of project of such nature takes atleast 3 months from start date (this time is primarily required for Research, Script creation, approval, iterations, changes, music and VO creation, changes and approvals). Suggestion: Completion time may be increased to 3 to 4 months</p>	<p>The project is strictly time targeted. No extension of time is possible.</p>
<p>6. Clause 10: terms of Payment Yet again, the terms stated here have been defined as basic supply and installation of hardware, while in such a project considerable time, money and efforts are invested in Show content planning and curation. Therefore we request that Payment terms may be amended as: Suggestion:</p> <ol style="list-style-type: none"> i. Approval of Project Implementation Plan including project layout plan, simulated video, 3D rendering, technical details of the components such as capacity, make, quantity etc. which shall be used for project – 5% ii. Approval of content, narrative description, script and voice-over and other creative audio visual components – 15% iii. Physical Installation of equipment, hardware, machinery and other required fixtures at the Project Site – 25% iv. Successful Trial Run of the Project and approved by the Authority – 25% v. Successful running of the Project for a continuous period of 30 days after issuance of Project Commissioning Certificate meeting all project requirements as stated in the Contract Agreement – 20% <p>On Successful running of the Project/ Show during O&M Period (amount be paid at the end of each quarter of O&M Period beginning from the date of issuance of Project Commissioning Certificate by the Authority) – Remaining 10% of Bid Price shall be divided equally in quarterly payments during O&M Period</p>	<p>Since the duration of the project is very small, splitting the payment terms as proposed is not possible. It is seen from the past experience that many of the agencies purchase the high value equipment of loan and they are in a hurry to clear their dues. Considering this the payment terms have been devised. However, there is a small clarification regarding payment during O&M which is clarified in Point J (9).</p>
<p>7. Clause 5 of Technical cum Creative Evaluation Marking Scheme: Operation and Maintenance experience for 3D projection show, sound & Light Shows.(Total Max.Marks-05) Minimum 2 projects - 3 Marks 1 mark for each additional project We at CS Direkt, have executed more than 40 sound & light show projects using the latest technology of 3D projection mapping on land and water combined including UNESCO and ASI managed sites. These projects include permanent as well short-duration projects. You will appreciate the fact that short-duration installation of sound & light show on multiples times requires more technical knowhow, precision and strong O&M capabilities than a project of permanent nature where operator is</p>	<p>O&M also requires maintenance of many high value equipment for which special technical expertise is required in the agency. Past experience in this regard will help in assessing the technical capabilities of the agency and hence finds its place here.</p>

	<p>required to switch on and off the project on daily-basis and few O&M works on regular intervals.</p> <p>Also, There have been a lot of technological advancements in the field in the last 2-3 years, wherein the technology now available globally is more:</p> <ul style="list-style-type: none"> - ECO friendly - Reduced Power consumption - Is not harmful to the monument structural and surface integrity and not many projects have been executed using such hardware and software. <p>With such marking criteria, none of the capable agencies (having better understanding of latest modern technologies of sound & light show i.e. 3D video projection mapping, water screen projection, laser water show, etc.) will be able to score even minimum marks in this category, hence no competition between capable agencies.</p> <p>Suggestion:</p> <p>In view of the above, we request you to kindly remove the marks assigned for O&M criteria and allocate 5 marks of O&M criteria to Technical Presentation to ensure fair and healthy competition between capable agencies</p>	
	<p>8. The BOQ and Show brief have been quite extensively detailed and stated in the tender document</p> <p>Request:</p> <p>We request if the authorities may share the Planned layouts for the project basis which the BOQ and brief have been drafted. This will help a lot in understanding the requirements further and will allow capable agencies to concentrate time and energies on creating a worthy, befitting proposal</p>	<p>Few photographs of the facade have been attached in the tender. Full Autocad drawing is not available. Whatever is available is being uploaded at CPP. Vendors are requested to visit NGMA to collect detailed dimensions.</p>
	<p>9. Content Duration: In the Scope of work it states 25-30 mins of show in each language. While in BOQ it states 90 mins of content</p> <p>Query: Please advise the final duration of content desired in each language?</p>	<p>Please refer to clarification D(1)</p>
F	AGENCY 6	
	<p>1. Annexure A, Page 18, Point 5(ii): RETENTION MONEY / SECURITY DEPOSIT</p> <p>Under this point, it is mentioned that the Retention Money or Security Deposit will be deducted & retained @3% of the value of the work done & paid through every interim bill. The value of work has not been disclosed in the tender document. We request you to please share the tender value.</p>	<p>Value of work done will be decided only when the work is actually done. However for tender value please see the clarification in D (3)</p>
	<p>2. Annexure A, Page 23, Point Number 5: Operation and Maintenance experience for 3D projection show, sound & Light Shows.</p> <ul style="list-style-type: none"> i. Will Operation and Maintenance experience from an ongoing project be considered? ii. With reference to Annexure A, Page 14, Point 2: If any bidder has executed the similar work as a part of a consortium/JV in the past then the work experience of the bidder shall be considered as valid only if all the consortium/JV partners are participating together in the present RFP also. 	<p>i. Yes, provided at least one year of O&M is complete and sufficient proof is submitted giving the value and the duration of O&M already done and till how long the O&M is going to continue.</p> <p>ii. Yes</p>

	Is this point also applicable for Operation and Maintenance Experience?	
G	AGENCY 7	
	1. We would like to know if there is any EMD to submit/ MSME Exemption for the bid submission as it is not mentioned in the document.	As per recent government directive, the EMD has been waived off for all bidders including MSME. However, all bidders are supposed to sign "Bid Security Declaration" as per Annexure- M
	2. In the RFP, page no. 12 under Guideline for Storyline, Concept and Theme, it is mentioned in ECR Narratives. Request you to kindly clarify on the ECR narratives please	It may be read as FCR, meaning "Fictional Character Rendition"
	3. In the RFP, page no. 13 under Eligibility Criteria: Company / Firm / Agency/Consortium shall have the experience of implementing outdoor 3D projection mapping Multimedia show projects OR Company/Firm/Agency/Consortium having experience in the installation of hardware equipment in the 3D Projection Mapping Multimedia Show on Monument or Notified Buildings / Museums etc. We believe that Turnkey Execution company should be only eligible for the RFP scope as it is not only hardware installations. There are so many creative aspects in addition to hardware installation like Themed Design, creative Storyboard, Script writing, Voice over recordings and Final production.	That will be too restrictive and very narrow criteria which will be against the CVC guidelines.
	4. Layout drawing plans with dimensions for the facades to be used for projection mapping	Please refer to clarification C(8)
	5. In the RFP, page no. 16 under scope of work a. Primary show : EDC: Kindly share the dynamic façade lightings design/technologies used.	This is being executed by M/S Bajaj Electricals. Their engineers are available at site. Details can be obtained from them. The phone number of Site engineer of M/S Bajaj Electrical, Mr Pukhraj Gaur is +91 9711387440
	6. Request you kindly provide us 7 days to 10 days extension on the due date of bid submission for necessary bid preparation.	Considering the strict timeline for the project, it may not be possible at this stage.
H	AGENCY 8	
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I	AGENCY 9	
	I am Akash Sharda from Dot Mavericks India LLP. I want to Know where is pre bid meeting of) Conceptualisation, Design, Supply, Installation, Testing and Commissioning of 3D Projection MappingMultimedia Show including related Civil, Mechanical, Structural, Electrical work and integration with existing Façade Lighting and 3 years of comprehensive maintenance and operation of equipment and show atNational Gallery of Modern Art (NGMA)	It is online through Video conferencing.
J	AGENCY 10	
	1. Kindly share the budget allocated for the said project.	Please see the clarification in D (3)
	2. We request you to re-look the payment terms and make a provision of 25 % payment for content and installation of Equipment before the 'completion of total work as per BOQ' payment stage.	Please refer to the Clarification in E(6)

<p>3. Refer to the Annexure A point 2 (ii) under eligibility criteria: Company/Firm/Agency/Consortium shall have the experience of implementing outdoor 3D projection mapping Multimedia show projects OR Company/Firm/Agency/Consortium having experience in the installation of hardware equipment in the 3D Projection Mapping Multimedia Show on Monument or Notified Buildings / Museums etc. And Point (vi) under Note Here the similar works shall mean concept, design, supply, installation, testing & commissioning of Permanent sound & light Multimedia projection mapping show (3D projection mapping based sound & light show / Live Action & 2D-3D content based permanent Multimedia projection mapping shows). They are contradictory. It should be as indicated in Point (vi) under Note i.e. Concept, design, supply, installation, testing & commissioning of outdoor Permanent sound & light /Multimedia projection mapping show (3D projection mapping based sound & light show / Live Action & 2D-3D content based permanent Multimedia projection mapping shows). Instead of making an Agency in Hardware installation alone eligible it'll be more appropriate to allow wider participation by companies experts in conceptualising as well as SITC of similar works of an outdoor, permanent Son et lumiere.</p>	<p>Please refer to Clarification in point G(3)</p>
<p>4. Marking for experience with more projects in the same amount category needs clarification as total marks are 15 under heading 4 i.e. similar work experience. If the agency has two works completed of equal or more than Rs. 3.80 Crore then what would be the marks credited. Similarly kindly clarify for the other values.</p>	<p>Please refer to Clarification in point C(3)</p>
<p>5. Marking for average turnover for above 5 crores shall be reduced to 3 Crore as one single work experience is considered as 3.80 Crore.</p>	<p>Turnover is to judge the financial strength of the company which is usually decided based on the overall budget of the project to be executed in a year. Work experience is, however, to judge the technical strength which is decided as per CPWD guidelines.</p>
<p>6. Duration of both the shows may please be clearly indicated.</p>	<p>Please refer to Clarification in point D(1)</p>
<p>7. Refer Page 14 under "Quantities where it is indicated "The e-tenderers shall be deemed to have given Balanced Rates and quantities for each item with make model and specification. Also irrespective of variation in quantities to any extent the e-tenderer shall be paid at accepted contract rates only". Variation / deviation in quantities shall be dealt with as per actual against the rate quoted for the item either side i.e. +Ve side or – ve side.</p>	<p>Yes. Deviation shall be dealt with as per actuals wherever rate is available. Wherever lump sum rate is quoted, the payment will be made as per the tender after the quality is approved and accepted.</p>
<p>8. Details of existing lights may please be given which are required to be integrated with Show.</p>	<p>Please refer to Clarification in point G(5)</p>
<p>9. Kindly specify the payment terms for O & M.</p>	<p>Payment for the Operation and Maintenance shall be made as per the quoted rate in the cost breakup (Annexure-A, Item 12 C). The</p>

		payment shall be released after each quarter upon successful completion of O&M.
	10. Details of Drawing may please be uploaded.	May be obtained from NGMA on special request
	11. Projectors of 25 k lumens and 3 nos. of 13 k lumens for the same facade will not be appropriate as there will be a marked difference in luminosity, until it has been strategically and purposefully deployed by design. Kindly share the installation plan to clarify this doubt. We would further like to bring to your notice that there is a marked difference in the resolution of the chosen projectors. One is WUXGA and the other is 4 K. This again can be better understood by seeing its deployment in the design only.	The luminosity of the projectors have been decided based on the site conditions. However, the payment shall be made based on the actual usage of the number of projectors.
K	AGENCY 11	
	1. Request you to consider Commercial films certified by Central Board of Film Certification, TV Serials based on storyline, Documentary Films/ Short Films / Advertisement Films as similar in nature of work.	Request cannot be considered as the scope of work in these two is very different.
	2. Considering the amount of work involved in preparation of the bid, kindly extend the due date for tender submission till 13th March 2021.	Please refer to Clarification in point G(6)
L	AGENCY 12	
	Following changes are requested in the tender: 1. Supply, Installation, testing and commissioning of Three way full range loudspeaker system (indoor / outdoor). Speaker with 15" woofer, a 8 to 10" midrange with 4" voice coil and a 1.4" exit titanium compression driver. The system to be driven in bi-amped mode, Max SPL ≥ 136 130 dB , 900 Watts AES (LF) + 400 Watt AES (MF/HF) or better ; Frequency Response (-10dB) : 50 Hz to 20kHz ;Frequency Response (- 3dB) : 65 Hz to 16kHz 20kHz; MF/HF Sensitivity (DB, 1W @ 1M) : 109 dB 105 dB, 1W @ 1m; Nominal Impedance (OHM): 8 ohm; Horizontal coverage angle: 60° , Vertical coverage angle: 40° . Protection Grade : IP-67 Make : Bose/Tannoy/QSC/TW Audio / JBL/ RCF/ Bosch (Electro-Voice/ Dynacord) or equivalent approved by NCSM	Rest is acceptable but the minimum protection grade is required for the outdoor speaker (IP65 instead of IP 67.
	2. Supply, Installation, testing and commissioning of a subwoofer with 18" woofer, 4.0" voice coil, and the system should be compact and provide high output. 136 dB Max SPL; System Power rating 900 Watt RMS; Frequency Response (-10DB): 30 Hz ÷ 200 Hz, Frequency Response (- 3dB): 35-Hz 45 Hz ÷ 200-Hz 150 Hz, Nominal Impedance (OHM): 8 ohm; Sensitivity (DB, 1W @ 1M): 100 98 dB, 1W @ 1m. Protection Grade: IP 55 Make: Bose/Harman/Tannoy/QSC/TW Audio/RCF/ Bosch (Electro-Voice/ Dynacord) or equivalent approved by NCSM	Rest is acceptable but the minimum protection grade is required for the outdoor equipment..
	3. Supply, Installation, testing and commissioning of Studio Monitor speakers with high power and low distortion 75 W + 25W Two Class-D True Active low distortion amplifiers, Frequency Response : 50 Hz to 20 kHz; Input sensitivity : -2 dBu; Max SPL @ 1M : 107dB ; Coverage angle 70 degree vertical, 110 degree horizontal ; Total Power : 200W Peak, 100W RMS. Make : Bose/Tannoy/QSC/TW Audio/Harman / RCF Ayra Pro 5/ Bosch (Electro-Voice/ Dynacord) or equivalent approved by NCSM	Acceptable

	4. Supply, Installation, testing and commissioning of 4 channel power amplifier. Lightweight 2 rack units space of Frequency Response (-3DB): 20 Hz ÷ 25 20 kHz; Power Output Per Channel (@ 2 OHM): 2400W RMS; Power Output Per Channel (@ 8 OHM): 1300 W RMS Power Output (Bridged @ 8 OHM): 4400 W RMS ; Signal to noise ratio 110 dB; Front panel signal / clippings / protection/ temperature LEDs indicators for each channel. Make: Crown / Lab Gruppen /Bose/TW Audio / RCF/ Bosch (Electro-Voice/ Dynacord) or equivalent approved by NCSM	Acceptable
	5. Supply, Installation, testing and commissioning of 12 inputs and 8 outputs, configurable signal processing and a high bandwidth, fault tolerant digital audio bus Processor with BLU Link, Signal Processing (MHz) : 400; This processor features a low latency, fault tolerant digital audio bus of 48 channels . Analog Inputs provide software configurable gain in 6dB steps up to +48dB per channel and software selectable Phantom Power per channel. Make: BIAMP/ KlarkTeknik /Bose/TW Audio/ BSS BLU 100/ Bosch (Electro-Voice/ Dynacord) or equivalent approved by NCSM	Acceptable
M	AGENCY 13	
	1. We wish to know what is the sanctioned / estimated project cost (EPC).	Please see the clarification in D (3)
	2. Page 17, Clause b: what is the duration of the secondary show.	Please refer to Clarification in point D(1)
	3. Page 27, B-i-1: For uniformity of projection for all facades, we believe the projector spec of Laser Phosphoros projector of 1920X1200 resolution should be considered instead of 3-chip DLP, RGB Laser projector, 4K (4096X2160) solution as specified in the RFP. RGB projectors are very bulky and mostly suitable only for indoor controlled cinema applications.	Please refer to Clarification in point A(2). In addition the Lumen and the type of projectors have been chosen considering the importance and location of the projector.
	4. Page 28, Clause 7 and 8: Given that the ruggedness of the show is one of the principal requirements, only IP65 outdoor moving head lights should be considered instead of IP20 as specified in the RFP. The solution of placing these IP20 lights installed in glass domes is not a feasible long term proposition as the failure rate with this setup is quite high.	Glass dome with IP 20 moving head lights almost serve the purpose of IP65 moving head lights and are around 30-35% cost effective. The digital display panel gives the information on temperature, lamp life etc and the glass dome also physically protects the equipment from stray animals in the outdoors and even from hailstorms.
N	AGENCY 14	
	1. It is requested to kindly keep the applicants company's establishment to a maximum of 7 years as it will allow the aspiring bidders to participate in this prestigious project of sound and light show. Henceforth the criteria can be mentioned as follows : Credentials of the applicant/agency (Total Max. Marks -10) (a). 3 years - 7 marks (b). More than 3 years and upto 5 years - 2 marks (c). More than 7 years - Bonus 3 Marks	Cannot be changed at this stage. It is kept at 5 years keeping in mind the fast changing technology in these fields.
	2. It is requested to kindly keep the Minimum Qualifying Marks to 60 instead of 70 Marks	Cannot be changed at this stage
	3. It is requested to kindly allow to club the credentials of both the partners in case of Joint Venture, as similar works of only the lead partner has been entertained in the tender in case of	For financial strength only lead partner has been considered whereas for other eligibility all partners can be considered subject to the condition as explained in D(4)

	JV(Refer to page no:13) . Joint Venture should allow the bidders (technically & financially) to meet the technical criteria collectively.	
	4. RFP page no. 27 to 29 (Hardware Details, Projectors, Lasers & Lights) ==> With respect to intelligent Lighting our name, MODERN STAGE SERVICE (PROJECTS)'s Make is not mentioned in the recommended makes even though we have all India presence and we have carried out Light and Sound Shows projects in the previous years, our product is 100% indigenous and have proved its worth in last so many years. We are sure that under the call of our Hon'ble Prime Minister to use the Make in India program, our above said request will be considered which will encourage self-reliant Indian made products.	Please submit the technical catalogue of the products for which you want the make of Modern Stage Service (Project) to be considered.
O	Additional Points to be read with RFP	
	<ol style="list-style-type: none"> 1. Please read ISO and NOT ANSI where Lumen is mentioned for 13000 Lumen projectors 2. Penalty Clause for Failure in case of O&M <ol style="list-style-type: none"> i. If the bidder fails to take up the O&M after completion of the project, the security deposit will be forfeited and no payment shall be made for O&M ii. If the down time is more than 24 hrs, 1% of the O&M charge will be deducted from the O&M charges in each occasion. In case, the failure is not attributed to the successful bidder, this penalty can be waived off on specific recommendation of NGMA authorities. iii. If the bidder stops the O&M anytime during the agreed period, the security deposit will be forfeited and no further payment shall be made for O&M. 	