



उत्तराखण्ड शासन

संस्कृति विभाग, उत्तराखण्ड

ई-निविदा सूचना

संस्कृति विभाग उत्तराखण्ड द्वारा यमुनोत्री में ऑडियो सिस्टम स्थापित किये जाने हेतु पंजीकृत इच्छुक निविदादाताओं से ऑनलाईन निविदाएं आमंत्रित की जाती है। सम्बन्धित निविदादाताओं के पास डिजिटल हस्ताक्षर सर्टिफिकेट तथा ई-प्रोक्वोरमेन्ट पोर्टल <https://uktenders.gov.in> में पंजीकृत होना अनिवार्य है।

निविदा संख्या- 2923 सं0नि0उ0/दो-3(A.c.acti)/2019-20, दिनांक 26 दिसम्बर 2019

प्रोजेक्ट की अनुमानित लागत:- Rs. 1,60,00,000/- (रु० एक करोड़ साठ लाख)

सामग्री का विवरण -

1 Complete Audio PA System with Installation

क्र.सं.	विवरण	निर्धारित तिथि
01	वेबसाइट www.uktender.gov.in पर निविदा प्रकाशित होने की तिथि	27 दिसम्बर 2019
02	निविदा प्रपत्र डाउनलोड/उपलब्ध होने की प्रारंभिक तिथि	27 दिसम्बर 2019 प्रातः 09.00 बजे
03	प्री-बिड कार्यशाला का स्थान, तिथि व समय	संस्कृति निदेशालय, उत्तराखण्ड एम0डी0डी0ए0 कालोनी, चन्दर रोड़, डालनवाला, देहरादून। 03 जनवरी 2020 प्रातः 11.00 बजे
04	निविदा ऑनलाईन जमा करने की प्रारंभिक तिथि एवं समय	04 जनवरी 2020 सांय 04.00 बजे
05	निविदा ऑनलाईन जमा करने की अंतिम तिथि एवं समय	09 जनवरी 2020 सांय 05.00 बजे
06	निम्न दस्तावेज कार्यालय में उपलब्ध करवाने की अंतिम तिथि- 1-निविदा प्रपत्र शुल्क जी0एस0टी0 सहित - रु० 2,596=00 (निदेशक, संस्कृति निदेशालय उत्तराखण्ड, देहरादून के नाम पर देय होगी) 2-अर्नेस्ट मनी (ई0एम0डी0)- रु० 3,20,000=00 (निदेशक, संस्कृति निदेशालय उत्तराखण्ड, देहरादून के नाम पर देय होगी)	09 जनवरी 2020 सांय 05.00 बजे
07	तकनीकी बिड खोले जाने की तिथि व समय	10 जनवरी 2020 सांय 03.00 बजे
08	वित्तीय बिड खोले जाने की तिथि व समय	निविदा समिति के निर्णयानुसार

निविदा प्रपत्र के डाउनलोड एवं अन्य जानकारी हेतु कृपया ई-प्रोक्वोरमेन्ट पोर्टल <https://uktenders.gov.in> व विभागीय वेबसाइट www.uttarakhandculture.in देखें तथा अन्य जानकारी हेतु दूरभाष न० 0135-2712595 पर सम्पर्क करें।

निदेशक, संस्कृति निदेशालय उत्तराखण्ड

PROJECT CONCEPT

Religious and cultural activities in Yamunotri- Sound Show Systems at Yamunotri

YAMUNOTRI

Yamunotri, the source of Yamuna river is one of the four sites in India's Chhota Char Dham pilgrimage. The sacred shrine of Yamunotri in Uttarkashi is the westernmost shrine in the Garhwal Himalayas. The Yamuna, like the Ganges, has been elevated to the status of a divine mother for the Hindus and has been held responsible for nurturing and developing the Indian civilization bringing thousands of devotees every year to Yamunotri to pay their tribute and conduct different religious ceremonies at the temple.

➤ **Prominent attraction points in and around Yamunotri**

- Janki Chatti
- Yamunotri Temple
- Hanuman Chatti
- Surya Kund
- Saptarishi Kund
- Divya Shila
- Trekking
- Kharsali

YAMUNOTRI TEMPLE-

The Yamunotri temple, on the left bank of the Yamuna, was built by Maharani Guleria of Jaipur in the 19th century. The current temple is of recent origin as earlier constructions have been destroyed by weather and the elements. It is also believed by some that the temple was originally constructed by Maharaja Pratap Shah of Tehri Garhwal. The temple conducts a lot of people in the premise who come there for religious and spiritual enlightenment. The temple which opens every year on the auspicious day of the Akshaya Tritiya, which generally falls during the last week of April, or the first week of May sees a lot of devotees come for the opening and closing ceremonies conducted at the shrine.

NEED OF SOUND SYSTEM IN YAMUNOTRI

One of the most popular sites amongst the four sites in India's Chhota Char Dham pilgrimage, Yamunotri is thronged by thousands of tourists each year from the month of April to October when the Yamunotri temple is opened for the Darshan of the deity. On a daily basis a large number of people become the part of different religious ceremonies performed in the temple at this time of the year. Other than this, throughout the year a lot of trekkers visit Yamunotri and nearby areas making it a popular place of visit for people from across the globe.

YAMUNOTRI- IT INTERVENTIONS

Yamunotri sees a footfall of more than a Lakh people in a year at the time when the Yamunotri temple is opened every year for the devotees. Most of the footfall, prefer to visit the prominent places in the city like Yamunotri temple and Surya Kund. Aarti at Yamunotri temple in itself sees a large number of people attending it.

On days with a heavy footfall, it gets difficult and unfulfilled sometimes for a lot of devotees to visit and be a part of different religious and spiritual activities at the temple.

Considering the challenges faced by the visitors and local masses in Yamunotri to view and participate in the ritual proceedings regularly conducted in the auspicious sacred banks of river Yamuna, there is a need to introduce a few IT interventions that can ease the process of being a part of the ritual for a devotee and also help attract more people to the land.

As a value addition for the people of Yamunotri and the city and to enhance the participation in the rituals for the Yamunotri temple, Puja ceremonies can be broadcasted on real time basis at different parts of the city to sensitize the local residents and visitors outside the temples premises about the Puja and ceremonies along with the highlight and focus being on the live broadcast of Aarti from the Yamunotri temple.

OBJECTIVE

During the months when Yamunotri Temple is open, every day thousands of devotees visit Yamunotri for the darshan of the magnificent deity at the temple along with visiting Surya Kund. At times it becomes a major problem for devotees to witness the aarti due to harsh climatic conditions or huge number of footfall on some day .

The idea of having sound systems at different places in and around Yamunotri temple is to provide a convenient and wonderful experience of the live Puja and Aarti rituals happening at the temple with extended proximity of participation. This will also help in crowd management at the place in peak hours.

The audio system will also help communicate public messages in the interest of publicity of a few Govt. schemes such as Swatchahta Abhiyan, traffic mass education, road safety, women safety, various citizen helplines for Govt. services. The system will also be used to communicate information & guidance about traffic based on real time factors, traffic movement intensity and related regulations, diversions etc. to the citizens/ public on the road. They shall also be used for showing emergency/disaster related messages as and when required.

The system shall be used at identified key intersections, public places, market places or those critical locations as identified Competent Authority to make important announcements for the citizens/public. The system shall also deliver pre- recorded messages to the loud speakers attached to them from CD/DVD Players & Pen drives for public announcements.

PROPOSED PLACES FOR SOUND SYSTEM

- Near And Around Yamunotri Temple & Yamunotri Trek (About 07 Kms)

नियम एवं शर्तें संलग्न करने हेतु अनिवार्य दस्तावेज

- 1- निविदादाता फर्म की पिछले 3 वित्तीय वर्षों की सी0ए0 द्वारा प्रमाणित बैलेंस शीट।
- 2- निविदादाता फर्म का पिछले 3 वित्तीय वर्षों का सी0ए0 द्वारा सत्यापित वांछित कारोबार का प्रमाण पत्र।
- 3- निविदादाता फर्म की पिछले 3 वित्तीय वर्षों की आई0टी0आर0।
- 4- निविदादाता फर्म का पैन कार्ड की छायाप्रति।
- 5- निविदादाता फर्म का जी0एस0टी0 पंजीकरण प्रमाण-पत्र।
- 6- नीचे दिये गये फॉर्मेट में सभी मांगे गये items के मेक एवं मॉडल प्रदर्शित करना अनिवार्य है, items की datasheet/ catalogue/ brochure संलग्न करना भी अनिवार्य है, अन्यथा निविदा निरस्त कर दी जायेगी।
- 7- निविदादाता फर्म/OEM द्वारा पूर्व में (वर्ष 2017-18 तथा 2018-19) क्रियान्वित किये गये प्रोजेक्टों पर सम्बन्धित विभाग/संस्था/ कार्यालय द्वारा प्रदत्त संतोषजनक प्रमाण-पत्र की प्रति।
- 8- OEM tender specific authorization letter (MAF)
- 9- निविदा के साथ ₹3,20,000.00 (₹तीन लाख बीस हजार) मात्र की एफ0डी0आर/ एन0एस0सी0/सी0डी0आर0 धरोहर धनराशि (Earnest Money) जो कि निदेशक, संस्कृति निदेशालय, उत्तराखण्ड, देहरादून के नाम बन्धक हो, संलग्न करना अनिवार्य है।
- 10- निविदा प्रपत्र का मूल्य जी0एस0टी0 सहित ₹2,596/- बैंक ड्राफ्ट के माध्यम से जो देहरादून में देय होगा संलग्न करना अनिवार्य है।
- 11- Earnest Money तथा निविदा शुल्क पृथक-पृथक सील बंद लिफाफों में निर्धारित तिथि तक पंजीकृत डाक/स्पीड पोस्ट/सीधे जमा करना अनिवार्य है। निर्धारित तिथि के पश्चात् प्राप्ति स्वीकार नहीं की जायेगी।
- 12- निविदा स्वीकृति के उपरान्त फर्म को जमानत राशि (Security Money) के रूप में ₹8,00,000/- (₹आठ लाख) मात्र की एफ0डी0आर/एन0एस0सी0/सी0डी0आर0 धरोहर धनराशि के रूप में निदेशक, संस्कृति निदेशालय, उत्तराखण्ड, देहरादून के नाम बन्धक हो, जमा करना होगा जिसकी वैधता 05 वर्ष होनी चाहिए।
- 13- निविदा स्वीकृति प्रपत्र हस्ताक्षर मोहर के साथ जमा करना अनिवार्य है, अन्यथा निविदा निरस्त कर दी जायेगी।
- 14- फर्म का उत्तराखण्ड में पंजीकरण प्रमाण-पत्र।
- 15- सामग्री को स्थल तक ले जाने तथा निर्दिष्ट स्थान पर स्थापित करने तथा 05 वर्ष के O&M सहित दरें प्रदान की जायेंगी, नियमानुसार GST की दरें पृथक रूप से अंकित करें।
- 16- Quoted products निर्दिष्ट स्थल पर इंस्टॉलेशन उच्च गुणवत्ता के साथ किया जायेगा।
- 17- सामग्री का निर्दिष्ट स्थल पर इंस्टॉलेशन उच्च गुणवत्ता के साथ किया जायेगा। साउण्ड सिस्टम हेतु स्पीकर ऑल वेदर उच्च तकनीकी के स्थापित किये जायेंगे।
- 18- सशर्त निविदाएं मान्य नहीं होंगी।
- 19- निविदा में अंकित सामग्री आपूर्ति आदेशों के अनुसार निर्धारित समय में आपूर्ति न करने की दशा में बन्धक धनराशि जब्त करने का अधिकार विभाग को होगा। द्वि-निविदा (तकनीकी तथा वित्तीय) आमंत्रित है। (फर्म की तकनीकी निविदा/शर्तें पूर्ण होने पर ही वित्तीय निविदा खोली जायेगी)

- 20- निविदादाता द्वारा तकनीकी बिड निर्धारित प्रपत्र में तथा वित्तीय बिड(Bill of Quantity)में प्रस्तुत करनी होगी। तकनीकी बिड के प्रत्येक पृष्ठ पर निविदादाता द्वारा हस्ताक्षर करना अनिवार्य होगा।
- 21- फर्म का सम्बन्धित कार्य का Black Listed ना होने का नोटरी द्वारा प्रमाणित शपथ पत्र 100/- रु0 के स्टाम्प पेपर पर प्रस्तुत करना अनिवार्य है।
- 22- निदेशक, संस्कृति निदेशालय उत्तराखण्ड को समस्त निविदाएं बिना कारण बताए निरस्त करने का पूर्ण अधिकार होगा।
- 23- फाईनेंशियल बिड बी0ओ0क्यू0 में निविदादाता द्वारा ऑन लाईन दी जायेगी।
- 24- निविदादाता करने वाली फर्म का पिछले 3 वित्तीय वर्षों का सालाना टर्न ओवर कम से 2 करोड़ रुपये होना आवश्यक है।
- 25- OEMs/निविदादाता फर्म को कम से कम 3 समान प्रकार के प्रोजेक्ट को सफलतापूर्वक क्रियान्वित करने का अनुभव हो, जिसमें से कम से कम एक प्रोजेक्ट एक वर्ष पुराना हो।
- 26- बिडर का ESIC में पंजीकरण अनिवार्य है, एवं इसका रजिस्ट्रेशन सर्टिफिकेट लगाना अनिवार्य है।
- 27- OEMs का सालाना टर्न ओवर कम से कम 100 करोड़ रुपये होना आवश्यक है।
- 28- पिछले 03 वर्षों से OEMs का भारत में सर्विस सेंटर होना अनिवार्य है, सर्विस सेन्टर्स की डिटेल्स संलग्न की जाय।
- 29- EMD exemption MSME में रजिस्टर्ड फर्म के लिये ही मान्य होगा।
- 30- उत्तराखण्ड के एक राजपत्रित अधिकारी द्वारा प्रदत्त नवीनतम चरित्र प्रमाण-पत्र।

नोट— हमने विभाग द्वारा निर्धारित शर्तों का पूर्ण अध्ययन कर लिया है। विभाग द्वारा मांगी गई सूचनायें हमारी फर्म द्वारा सही-सही दी गई हैं। यदि कोई जानकारी असत्य पायी गई तो फर्म इसके लिये स्वयः उत्तरदायी रहेगी।

(बीना भट्ट)

निदेशक

निविदादाता के हस्ताक्षर.....

नाम.....

Other Conditions

1. Purchaser means Directorate of Culture, Uttarakhand
2. The Bidder shall supply equipment/components including associated accessories and software as under this contract and install, commission, integrate, manage and maintain those components during the entire period of contract.
3. The bidder should provide a letter of assurance from his OEM that irrespective of who the bidder is the OEM shall ensure that the equipment/components being supplied by him for the purchaser will not be declared "End Of Sale" or "End of Support" for a minimum of 7 Years, from the date of launch, If the same is de-supported by the OEM for any reason whatsoever, the OEM shall replace it with an equivalent or better substitute that is acceptable to Purchaser without any additional cost to the Purchaser and without impacting the performance of the solution in any manner whatsoever.
4. The Bidder shall employ appropriate advanced technology and engineering practices and safe and effective equipment, machinery, material and methods. The Bidder shall always act, in respect of any matter relating to this Contract, as faithful advisors to the Purchaser and shall, at all times, support and safeguard the Purchaser's legitimate interests in any dealings with Third Parties.
5. That the Bidder shall procure all the necessary permissions and adequate approvals and licenses for use of various software and any copyrighted process/product free from all claims, titles, interests and liens thereon and shall keep the Purchaser indemnified in relation thereto.
6. All Systems Deployed/Installed by the bidder must be capable of GUI/Software based Control/Management and signalling.
7. The Bidder shall Provide all Connectivity/Networking Diagrams between End Devices and would make all necessary arrangements (Fiber Termination in LIU) at the proposed Site so that existing network can be connected to State Network.

8. Bidders should ensure that Advanced/Latest Cabling standards (Fiber/Cat-6A or better) should be used between end devices in a safe manner in order to minimize Damage to cabling and reduce Interference/Noise/Crosstalks/Latency in the System.

Warranty

1. A comprehensive on-site warranty and Annual Maintenance support on all goods supplied under this Contract shall be provided by the respective Original Equipment Manufacturer (OEM) through Bidder's engineers till the end of the Contract. It include support for all hardware equipments and all updates and patches to the respective Software and for the above stated period.
2. In case of issues with provided equipments, the Bidder shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, without prejudice to any other rights which the Purchaser may have against the Bidder under the Contract

Scope of Contract

1. Purchaser has engaged the Bidder for Supply, Installation and Maintenance of Audio Equipments for Govt. of Uttarakhand
2. If any services, functions or responsibilities not specifically described in this Contract are an inherent, necessary or customary part of the Services or are required for proper performance or provision of the Services in accordance with this Contract, they shall be deemed to be included within the scope of the work to be delivered for the Charges, as if such services, functions or responsibilities were specifically described in this Contract.
3. The Purchaser or Purchaser's Technical Representative reserves the right to amend any of the terms and conditions with mutual agreement in relation to the Scope of Work and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfilment of the Scope of Work.

Transit Risks

Any damage during transit due to whatsoever reason, cost shall be borne by the successful bidder.

Evaluation of Bids

1. The Bidder should not be involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this contract. If at any stage of Tendering process or during the currency of the Contract, any suppression / falsification of such information is brought to the knowledge of the Purchaser, the Purchaser shall have the right to reject the bid or terminate the contract, as the case may be, without any compensation to the Bidder.
2. The Purchaser will examine the bids to determine whether they are complete, whether the bid format confirms to the Tender requirements, whether any computational errors have been made, whether required EMD have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
3. A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
4. When deemed necessary, during the tendering process, the Purchaser may seek clarifications or ask the Bidders to make Technical presentations on any aspect from any or all the Bidders. However, that would not entitle the Bidder to change or cause any change in the substance of the tender submitted or price quoted.

Local Conditions

1. It will be incumbent upon each Bidder to fully acquaint oneself with the local conditions and other relevant factors at the proposed Setup site/s which would have any effect on the performance of the contract and / or the cost.
2. The Bidder is expected to make a site visit to the proposed sites to obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into contract. Obtaining such information shall be at Bidder's own cost.
 1. Failure to obtain the information necessary for preparing the bid and/or failure to perform activities that may be necessary for the providing services before entering into contract will in no way relieve the successful Bidder from performing any work in accordance with the Tender documents.
 2. The bidder and any of its personnel or agents will be granted permission by Govt of Uttarakhand to enter its facilities at various locations in the state for the implementation of project. The Bidder shall at its own risk, peril, cost and liability undertake site visits to designated facilities in the state.

Reporting Progress

1. During & Post implementation, the Bidder shall submit to the Purchaser, MIS reports as an ongoing basis. Extracts of the progress report to be termed, as “Executive Summary” shall be submitted. Periodic meetings shall be held between the representatives of the Purchaser and the Bidder once in every 15 days during the implementation phase to discuss the progress of implementation.
2. The Bidder shall ensure that the respective solution teams involved in the execution of work are part of such meetings.
3. In case during execution of works, the progress falls behind schedule or does not meet the Tender requirements, Bidder shall deploy extra manpower/resources to make up the progress or to meet the Tender requirements. All time and cost effect in this respect shall be borne, by the Bidder within the contract value.

Onsite Maintenance and Support Services

The scope of work for this activity includes providing comprehensive maintenance with spare parts for all Infrastructure supplied for this project for a period of five years from go-live. This includes:

- a. Repairing of defective parts/components,
- b. Replacement of parts/components beyond repair with parts/components of same or better Specifications ensuring compatibility,
- c. Providing suitable standby for parts/components with same or better specifications till the time the Original part/component is repaired or replaced so that daily business is not affected,

संस्कृति विभाग, उत्तराखण्ड

संस्कृति निदेशालय, एम0डी0डी0ए0 कालोनी, चन्दर रोड़, डालनवाला, देहरादून।

ई-मेल: directorculture@gmail.com, dir-culture@uk.gov.in दूरभाष नं0-0135-2712595

तकनीकी बिड

- 1- फर्म का नाम—
- 2- पता—
- 3- दूरभाष—
- 4- फर्म के मालिक/साझेदारों का नाम—
- 5- व्यापार कर/सेवाकर/जी0एस0टी0 के अन्तर्गत पंजीकरण का प्रमाण-पत्र (पंजीकरण प्रमाण-पत्र की प्रति संलग्न करें)
- 6- फर्म के आयकर की प्रति (पैन नं0)—
- 7- विगत तीन वर्ष (2016-17, 2017-18 एवं 2018-19) के आयकर रिटर्न की प्रति—
- 8- विगत तीन वर्ष (2016-17, 2017-18 एवं 2018-19) का क्रियान्वित किये गये प्रोजेक्टों पर सम्बन्धित विभाग/संस्था/कार्यालय द्वारा प्रदत्त संतोषजनक प्रमाण-पत्र की प्रति।
- 9- धरोहर राशि का विवरण—
एफ0डी0आर0/डी0डी0नं0 दिनांक—
- बैंक का नाम—
- 10- विगत 03 वर्ष (2016-17 एवं 2017-18 तथा 2018-19) का आय-व्यय विवरण (सी0ए0 द्वारा प्रमाणित अंकक्षित लेखों की प्रति संलग्न करें)।
- 11- फर्म का विगत 03 वर्षों (2016-17 एवं 2017-18 तथा 2018-19) का वार्षिक टर्नओवर न्यूनतम रू0 2.00 करोड़ प्रति वर्ष।
- 12- राजकीय विभाग/संस्थान से विधिक विवाद न होने/किसी सरकारी/अर्द्धसरकारी संस्थान द्वारा काली सूची में न डाले जाने का नोटरी द्वारा प्रमाणित शपथ पत्र।
- 13- उत्तराखण्ड के 01 राजपत्रित अधिकारी द्वारा प्रदत्त नवीनतम चरित्र प्रमाण-पत्र।
- 14- अन्य विवरण (यदि कोई हो)।
- 15- संलग्नों का विवरण।
मैं/हम लिखित रूप से अपनी सहमति देता/देते/हूँ/हैं कि निविदा प्रपत्र में उल्लिखित सभी नियम शर्तें मुझे/हमें मान्य हैं तथा वित्तीय निविदा (बी0ओ0क्यू) में अंकित की गई दरों पर सामग्री आपूर्ति के लिये मैं/हम तैयार हूँ/हैं यदि मुझे आपूर्ति आदेश निर्गत किया जाता है तो मैं/हम रुपये 100.00 के गैर अदालती स्टाम्प पेपर पर औपचारिक अनुबन्ध के लिये तैयार हूँ/हैं।

निविदाता के हस्ताक्षर व मुहर

निविदादाता का नाम व पूरा पता

दूरभाष नं0—

स्थान:

दिनांक:

Documents to be enclosed
(To be indexed by the bidder as per following order).

Sl. No.	Documents	Yes / No
1.	Proof of GST Registration	
2.	Proof/certificate of CA Certified turnover of Rs. 02 crores	
3.	Balancesheet of last three financial years of the firm	
4.	ITR of last three financial years of the firm	
5.	Proof of office registration in Uttarakhand of the firm	
6.	EMD & Tender fees	
7.	Signed & Stamped copy of tender document	
8.	Tender acceptance letter in prescribed format with signature & stamp	
9.	Make & Model(Quoted Products)item-wise accompanied with Datasheets/Catalogue/ Brochure	
10.	Required MAF Certificates	
11.	Certificates copy like BIS, UL, FCC etc wherever is required	
12.	Compliance sheet	
13.	Proof of non-blacklist on stamp paper	
14.	Copy of PAN Card	
15.	Copy of GST Registration	
16.	Work orders of similar projects	
17.	Satisfactory completion certificates obtained from the Department/ Office	
18.	ESIC Registration Proof	
19.	OEMs turnover certificate	
20.	Details of service centers	
21.	MSME Certificate (if any)	

Technical Specifications

Item 1: All Weather Surface/ Pole Mounted Loudspeakers

Sl.No.	Parameter / Specifications	Cross-Reference to Product Catalogue	Compliance
	Make/Model (For Quoted Product)		
1	Supply, installation, testing and commissioning of 4.5" IP55 rated or better Indoor/Outdoor Surface mount Music Loudspeaker: Free field Frequency range (-10dB) of 70Hz to 18kHz; Power handling of 160 Watt peak; Nominal dispersion of 125 Conical; Free field Sensitivity of 87dB SPL and Max SPL of 109 dB SPL (peak); Nominal Impedance 8 Ohms; Integral multi-tap Transformer with tap settings of 5/10/20/40 W @ 100V. with Powder-coated steel grille; Shall include necessary standard hardware for Surface install		

Item 2: Analog Paging Microphone

Sl. no.	Parameter/ Specifications	Cross-Reference to Product Catalogue	Compliance
	Make/Model (For Quoted Product)		
1	SITC of dynamic base-station microphone for radio communications, paging, and dispatching systems. Its cardioid (unidirectional) pickup pattern suppresses unwanted background noise from nearby dispatchers, ventilating equipment, or office machines. It also can reduce feedback in public address paging applications.		

Item 3: Digital Networked Amplifier

S#	Parameter / Specifications	Cross-Reference to Product Catalogue	Compliance
	Make/Model (For Quoted Product)		
1	SITC of 4 channel class D Networkable Power amplifier with a Max Output Power of 4x500W@8 ohms, or bridged mode output power of 2x 1000W @ 8/4 ohms. 20Hz - 20 KHz, SNR of 102dB and THD + N of <0.4% with built in protection such as Limiters, Temperature, DC, Short Circuit, Peak Current Limiters, Turn on delay etc. Built in DSP for Matrix routing, Speaker equalization, Delays, Array EQs etc. complete with Ethernet Port for Network Control, programming and monitoring. Shall offer optional Network audio connectivity (Dante or CobraNet) through expansion slot.		

Item 4: Digital Dante Network Card

Sl. No.	Parameter	Cross-Reference to Product Catalogue	Compliance
1	Make / Model (For Quoted Product)		
	Channels In : 8 Channels Out 8 : post-processing Flows : Up to 16 simultaneous Connectors : Two 1 Gb (Gigabit) Ethernet RJ-45 Secondary Port Modes : Switched (default) / Redundant / Legacy Hardware (multicast		

	filtered) Format : 48 kHz / 24 bit PCM Interface : Data Dante network audio Rear Panel : Network speed indicator: yellow (1 Gb), green (100 Mb), Link/Act indicator: solid green (link established), flashing green (data activity)		
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Item 5: Digital Signal processor

Sl. No	Parameter/ Specifications	Cross-Reference to Product Catalogue	Compliance
	Make/Model (For Quoted Product)		
1	Supply , installation , testing and commissioning of Digital Sound Processor with 8 Mic/Line inputs & 8 analog outputs, 8 Additonal digital Outputs; 24 Bit A-D and D-A Convertors; Sampling Rate : 48 kHz; THD : < 0.002 % ; Channel Separation (Crosstalk) : < 105 dB ; Frequency Response 20 Hz - 20 kHz ; Signal-to-Noise Ratio 80 dB ;Dynamic Range : > 115 dB; 5 Control Inputs and Outputs; RS-232 and Ethernet Port for third party Control and Monitoring; Expansion slots for optional Network Audio formats like Dante/Cobranet; inbuilt DSP features like Input Equalizers, Router, Band Pass filter, Output Equalizer, Delay, Limiters, gates , Source selectors etc. Shall Support at least 15 remote Zone controllers		

Item 6: Master Control Center

Sl. No.	Parameter	Cross-Reference to Product Catalogue	Compliance
1	Make/Model (For Quoted Product)		
	Supply, installation, testing & Commissioning of Sound Reinforcement System - Networked and programmable controller; Power supply requirement of 15-24 VDC, 300mA; Four rotatory encoders with circular LED rings for managing gain setting or scene selection; Fifth encoder provides control over programmed scenes or presets; Two line by 40 character backlit LCD provides names of the system elements they are controlling.		

Item 7: Customized Console- Weatherized Temperature Controlled Rack**Item 8: UPS 5 KVA With Minimum 2 hrs backup Rack Mount**

Sl. No.	Specifications	Cross-Reference to Product Catalogue	Compliance
1	Make/Model (For Quoted Product)		
	<p>Single phase, IGBT based, Online UPS</p> <p>Input: 240V±10% V AC, 50±5% Hz, Single phase-three wire(Phase+Neutral+Ground)</p> <p>Output : 5.0KVA, 230V±10% V AC, 50±5% Hz, Single phase-three wire(Phase+Neutral+Ground)</p> <p>Voltage Regulation : $\leq \pm 2\%$</p> <p>Inverter Efficiency : $\geq 80\%$</p> <p>verload Capability : 110% for ≥ 10 Minutes</p> <p>Transient response : Less than $\pm 10\%$ voltage variation</p>		

	<p>at sudden application/removal offull load and it shall recover within 500msec.</p> <p>Environment: Approx.:0-50°C & 95% RH</p> <p>Charger: Charging mode shall be provided, Battery Charging Voltage & Current shall be adjustable, Line & load Regulation: $\leq \pm 2\%$, Output Ripple : $\leq 3\%$</p> <p>Battery: Battery shall be of Sealed Maintenance (SMF) or VRLA type, Battery Backup shall not be less than 4Hrs.at full load</p> <p>Functional Testcertificates:</p> <p>Insulation Resistance & HV test, Load Regulation & Transient response test, Efficiency, Ripples, Battery capacity test, UPS Functional Test, Spare PCBs/Cards Test Reports</p>		
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Item 9 : L3 Switch

Sl. No.	Specifications	Cross-Reference to Product Catalogue	Compliance
1	Make/Model (For Quoted Product)		
	8 x 10/100/1000T ports (POE) 4 x 100/1000x SFP Industrial L3 Switch, Layer 3 Gigabit Modular Switch with 4 1G SFP Ports & 3 open slots for 8 Gigabit Port Interface Modules. Single 110~220 VAC Power supply. -40° C to 75° C operating temperature.		

Item 10: Switch

Sl. No.	Specifications	Cross-Reference to Product Catalogue	Compliance
1	Make/ model (For Quoted Product)		
	8 x 10/100/1000T ports (POE) 2 x 100/1000x SFP Combo Industrial Managed Switch "12 Port		

	Full Gigabit Managed Ethernet Switch, 8 x 10/100/1000 Base-T PoE / PoE+ Ports & 4 x 100/1000 Base-X SFP ports. -20° to 70° C operating Temperature."		
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Item 11: Other Accessories

Item	Specification	Cross-Reference to Product Catalogue	Compliance	Make /Model
1000BaseLX SFP (10km)	1000Base-LX Single Mode SFP transceiver. 10 Km. -40° to 85° C operating temperature.			
LIU Single Mode with Pigtail and Adapter (Patch Panel for 12 core with inbuilt pigtails)	LIU 12 PORT Rack Mount - Loaded (SC) SM			
OFC Patchcord	PATCH CORD LC-SC SM DUPLEX LENGTH-1m			
Fiber Optic Single Mode 12 core outdoor	Optical Fiber Cable 12F Outdoor - Armoured Unitube SM - HDPE Sheath			
HDPE Duct 27/32	HDPE Duct 27/32			
Speaker Cable 4sqmm armoured 2 core	SITC of 2 core X 4.0 Sq. mm (128/.20mm) ATC Copper conductor PVC compound Insulated, G I Wire (0.90 mm) Armoring , Over all Sheathed Low Voltage ARMD Speakers Cable.			
Weather Proof Junction Boxes	Weather Proof Junction Boxes			
Poles 12ft	Poles 12ft, 165 mm outer uniform diameter anticorrosive, Hot deep GI Street light pole with medium class GI pole with zinc coating complete with base plate with all necessary and functional temperature upto 30 Degree			

Speaker Brackets with monkey protection unit	Speaker Brackets with monkey protection unit			
T-Junction Coupler	T-Junction Coupler			
Joint Closures 12F	Joint Closures 12F			
SS Hose Clamps	SS Hose Clamps			
Cat 6A (Moulded) Patch Cords 1mt	Cat 6A (Moulded) Patch Cords 1mt			

Item 12: Scope for installation

1. Complete System must be RoHS certified.
2. All connectivity between devices must be low latency and better performance.
3. All products should be confirming with latest ISO standards.
4. System should be user friendly & should be Interoperable with each other.
5. Complete Supply, Installation, Configuration, Testing and Commissioning of all the delivered equipment with necessary cables and accessories.