**GOVERNMENT OF CHHATTISGARH**
**OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT RAIPUR CIRCLE NO.-1RAIPUR (C.G.)**

# NOTICE INVITING BID ON TURN KEY

**NIT NO. 62/RAIPUR/B&R/2014-15** **DATE: 12.02.2015**

SEALED TENDERS IN FORM "G" TURN KEY CONTRACT ARE INVITED IN 3-ENVELOPE SYSTEM FOR WORK MENTIONED BELOW ON TURN KEY BASIS AT NEW GOVT. ENNGINEERING COLLEGE, SEJBAHR RAIPUR CHHATTISGARH. FROM FIRMS OF REPUTE/LIMITED COMPANY /GLOBAL FIRMS WHO HAVE SUCCESSFULLY EXECUTED SIMILAR ONE WORK LAST 3 YEARS AND/OR CURRENT YEAR.

| SI. No. | Description of work | Estimated Cost ( In Lacs) | Earnest Money to be deposited in Shape of Bank FDR | Last date & time of submission of Bid documents | Time & date of opening of EMD & Technical Bid | Time allowed for completion ( Including First Rainy season) | Tender Document Fees (Non Refundable) |
|---|---|---|---|---|---|---|---|
| 1. | Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh. | Rs.226.88 Lacs | Rs. 227000.00 Pledged in favour of Executive Engineer PWD Raipur Dn No-2 Raipur | 13.02.2015 To 19.02.2015 Up to 17.30 Hours | 24.02.2015 up to 17:30 Hours | 15 days from date of issue of work order | Rs. 3000.00 Shape of Bank Draft issued by schedule Bank in favour of Executive Engineer PWD Raipur Dn. No.-2 Raipur |

The blank tender documents and other details can be Purchesed from the office of the Superintending Engineer, P.W.D.Raipur Circle No.-1, Raipur (C.G.) Pin:- 492001 **(Tel. No.:- 0771-2331431, 4062118 and Fax No.-0771-4055885** on any working day up to **13.02.2015 to 19.02.2015** during office hour.

The "tender documents" along with details of "Earnest Money" etc. shall be received in the office of the Superintending Engineer, P.W.D. Raipur Circle No.-1, Raipur (C.G.) up to 17:30 Hours On/Or before **23.02.2015** by Registerd A/D or Speed Post. The documents received if late. due to any reason, whatsoever, shall not be entertained.

The "EMD/Technical Bid" will be opened on **24.02.2015** in the office of the Superintending Engineer, P.W.D. Raipur Circle No.-1, Raipur (C.G.) in the presence of tenderers or their authorized representative who choose to remain present.

The date of opening of the Financial Bids of those tenders fulfilling the requirements will be announced on a separate date after evaluation by the committee.

For any other information's and relevant details or for visiting site of works, interested parties may contact Superintending Engineer, P.W.D. Raipur Circle No.-1, Raipur (C.G.) & Executive Engineer, P.W.D. Raipur Division No.-2, Raipur (C.G.) During Office hours.

**NOTE :- THE TENDER DOCUMENTS MAY BE SEEN ON CHHATTISGARH GOVT. WEBSITE www.cgstate.gov.in & DEPARTMENT WEBSITE http://cg.nic.in/pwdraipur**

Superintending Engineer
Public Work Department, Raipur
Circle No. 1, Raipur (C.G.)

# GOVERNMENT OF CHHATTISGARH
# PUBLIC WORKS DEPARTMENT

**Bid Document for Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh.**

**GOVERNMENT OF CHHATTIGARH**
**PUBLIC WORKS DEPARTMENT**
## Office of The Superintending Engineer, RAIPUR
## Circle No-1 RAIPUR (C.G.)

# INDEX FOR BID DOCUMENT

**Name of work**: Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh.

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Certified that this Bid Form contains Pages 01 to 85

**Issued by : _____**
**(Signature)**

**Superintending Engineer,**
**P.W.D RAIPUR Circle No.-1**
**RAIPUR**

GOVERNMENT OF CHHATTIGARH
PUBLIC WORKS DEPARTMENT
OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT RAIPUR CIRCLE NO.-1RAIPUR (C.G.)

# TECHNICAL BID DOCUMENT

Name of work : Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh.

Sold to Sri/Smt/M/s _____

On payment of Rs. 3000/-..... (Rs. Three thousand only )

Vide Money Receipt No ……Dated……..

**Superintending Engineer,**
**P.W.D. RAIPUR Circle No.-1**
**RAIPUR**

I undertake to abide by the terms and conditions as stipulated in the bid notice and conditions of contract.

Signature of the contractor

For Office Use only

| | | | |
|---|---|---|---|
| 1. | Total No. of Corrections | : | |
| 2. | Total No. of Overwriting | : | |
| 3. | Total No. of Pages | : | |
| 4. | Earnest Money Deposit in shape of | : | |
| 5. | Copy of S.T.C.C. | : | Furnished/Not Furnished |
| 6. | Copy of I.T.C.C./PAN | : | Furnished/Not Furnished |
| 7. | Copy of EPF Regn. Certificate | : | Furnished/Not Furnished |
| 8. | Any other enclosure | : | |

**Superintending Engineer,**
**P.W.D. RAIPUR Circle No.-1**
**RAIPUR**

**GOVERNMENT OF CHHATTIGARH**
**PUBLIC WORKS DEPARTMENT**
**OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT RAIPUR CIRCLE NO.-1RAIPUR (C.G.)**

## BROAD INFORMATION OF BID

| | | |
|---|---|---|
| Name of work | : | Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh. |
| Earnest Money Deposit | : | Rs. 227000.00 in shape of F.D.R. / TDR in favour of Executive Engineer, Public works Department , Raipur, Division No.-2 Raipur (C.G.) |
| Period of sale of Bid document | : | From **13.02.2015** up to **19.02.2015**/5:30pm Hours |
| Last date and time for receipt of Bids | : | Date : **23.02.2015** up to 5:30pm Hours by Registered Post/Speed Post |
| Date of Opening of Bids | : | Technical bid Date **24.02.2015** |
| Place of opening of Bids | : | Office of the Superintending Engineer, Public works Department, RAIPUR Circle No.-1 RAIPUR (C.G.) |
| Officer Inviting Bid | : | Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.) |

# BROAD SCOPE OF WORK

Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh.

The Broad scope of work shall include following but not limited to the operations enumerated below:-

| | |
|---|---|
| 1 | Dismantaling of old ceiling area 542.48 sqm. |
| 2 | Providing and fixing of acoustical grid false ceiling of size 600 mmX600mm with frame of GE/ alluminium “T” complete as per item on area 634.68 sqm. |
| 3 | Accoustical wall paneling - with mineral/rock wool up to full 7.00 mtr hight wall as sub base and fabric or wood wool as final finish. |
| 4 | Providing and fixing 14mm thick engineered wooden floor with underlay of PERCO, EGO, or equivalent company for stage(Area 168.00 sqm). |
| 5 | Providing and fixing loop pile carpet , with underlay protection of 12mm specification attached (Area 511.68 sqm) . |
| 6 | Providing and fixing accoustical doors of 2.0mX2.1m with door frame(8 Nos.). |
| 7 | Provinding and fixing fins on the stage(6 Nos.). |
| 8 | Providing and fixing two motorised curtain on stage, motors of vista levolar or SOMFY, sliding side ways cloth complete. |
| 9 | Providing and fixing glazed wooden partition 65mm thick made out of aluminium of cross section complete as per item ( area 14.10 sqm) . |
| 10 | Providing and fixing of MS tubular pipe truss for provision of stage light hanging(approx 750.00 kg). |
| 11 | Providing and fixing Tip-Up chair of M/s KUNDAN CHAIRS Company as per attached specification. |
| 12 | Electrical Work. |
| A | Ductable package type Air conditioning system Air Conditioning work for Hall size 16.4 mtr X 31.7 MtrX6.40Mtr (H), Balkani size 10 mtr X 16.4 mtrX 3.20 mtr (H) For capasity of 500 person . for cooling capacity 75 tr. by air cooled package type. |
| B | Internal electrifiaction work including swich socket and stage light . |
| C | Sound System |
| D | Fire Alarm System. |

NOTE:- The BOQ provided is only for guideline of quantity, No Claim shall be entertained for addition executed quantity or any other item required to full fill the project as per norms and sytisfaction of comitee.

# GOVERNMENT OF CHHATTISGARH
# OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT RAIPUR CIRCLE NO.-1RAIPUR (C.G.)

# NOTICE INVITING BID ON TURN KEY

**NIT NO. 62 /RAIPUR/B&R/2014-15** **DATE: 12.02.2015**

SEALED TENDERS IN FORM "G" TURN KEY CONTRACT ARE INVITED IN 3-ENVELOPE SYSTEM FOR WORK MENTIONED BELOW ON TURN KEY BASIS AT NEW GOVT. ENNGINEERING COLLEGE, SEJBAHR RAIPUR CHHATTISGARH. FROM FIRMS OF REPUTE/LIMITED COMPANY /GLOBAL FIRMS WHO HAVE SUCCESSFULLY EXECUTED SIMILAR ONE WORK LAST 3 YEARS AND/OR CURRENT YEAR.

| SI. No. | Description of work | Estimated Cost ( In Lacs) | Earnest Money to be deposited in Shape of Bank FDR | Last date & time of submission of Bid documents | Date of opening of EMD & Technical Bid | Time allowed for completion ( Including First Rainy season) | Tender Document Fees (Non Refundable) |
|---|---|---|---|---|---|---|---|
| 1. | Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh. | Rs.226.88 Lacs | Rs. 227000.00 Pledged in favour of Executive Engineer PWD Raipur Dn No-2 Raipur | 13.02.2015 To 19.02.2015 Up to 17.30 Hours | 24.02.2015 up to 17:30 Hours | 15 days from date of issue of work order | Rs. 3000.00 Shape of Bank Draft issued by schedule Bank in favour of Executive Engineer PWD Raipur Dn. No.-2 Raipur |

2.1 The bid must be accompanied by a FDR/TDR for the amount of Rs. 227000.00/- (Two lacs Twenty Seven Thousand only Indian Rupees ) , of a schedule bank in favour of Executive Engineer, Public works Department, Raipur Division No-2 Raipur (C.G.), India as Earnest Money for the above tender.

2.2 The bid documents (Non-Transferable) can be obtained from the Office of the Superintending Engineer, Public works Department, RAIPUR Circle No.-1 RAIPUR (C.G.), India on any working day from 13.02.2015 to 19.02.2015.up to 5:30 pm on payment of Rs.-3000.00 (Three Thousand Only Indian Rupees ) (Non-Refundable) in the shape of Bank Draft/Pay order drawn in favour of Executive Engineer, Public works Department Raipur Division No-2 Raipur (C.G.), India of any schedule bank payable at Raipur. The bid document can also be downloaded from **http://cgstate.gov.in** & **http://cg.nic.in/pwdraipur** but the cost of Rs. 3000/- (Three thousand Indian Rupees ) shape of Bank Draft issued by Schedule Bank in favour of Executive Engineer, Public works Department, Raipur Division No-2,Raipur (C.G.) shall be submitted with E.M.D. Envelope.

3. Sealed Bid Documents duly signed on all pages shall be delivered to the Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.), India by Registered Post/Speed Post so as to reach 23.02.2015 on or before 17:30 hours of The EMD &Technical Bids shall be opened by Superintending Engineer, Public works Department, RAIPUR Circle No.-1 RAIPUR on 24.02.2015 in presence of the bidders or their authorized representatives who wish to attend. The date of opening of the Financial Bids of those bidders fulfilling the requirement will be announced on a separate date after evaluation of the technical bid by committee. If the office happens to be closed on the date of receipt of the bids or opening of bids as specified, the bids will be received and opened on the next day of opening of the office at the same time and venue.

4. The undersigned will not be responsible for the postal delay if any, in the delivery of the documents or non-receipt of the same.

5. The Competent Authority/committee does not binds himself to accept the lowest rate and reserves the right to accept or reject all or any bid without assigning reasons, thereof.

6. **The bidder should have successfully executed at least one similar project in the last 3 years and/or current year.**

7. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, and, in general, shall themselves obtain all necessary information as to risks, contingencies and other circumstances which influence or affect their bid. A bidder shall be deemed to have full knowledge of the site, whether he inspects it or not, and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at its own cost all materials, tools and plants, equipment etc. and all other services required for execution of the work unless otherwise specifically provided for in the contract documents. Submission of a bid by the bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work. Any damages done to the **Property of the Department of Technical Education, Raipur Chhattisgarh** or other persons shall be made good by the bidder at his own cost.

8. The bid shall be submitted in three separately sealed envelopes as mentioned below. The language used shall be English. In case any information is given in foreign language, then translated (in English) copies of those pages must be enclosed, failing which the bid shall be disqualified.

9. **ENVELOPE 'A'**

This shall contain the cost of bid document ( Rs. 3000/-) in shape of Bank draft/ pay order as per clause 3.2, if the document is downloaded from website. And earnest money of Rs. 227000/- (Rupees Two Lac Twenty Seven Thousand only) in shape of **FDR/TDR** as per clause 3.1, failing which the bid will not be accepted.

10. **ENVELOPE 'B' ( TECHNICAL BID DOCUMENT )**

(i) This Envelope shall contain except form 'G' & 'BOQ' the document, information pertaining to the technical bid, the product & its ingredients, test, reports, installation & maintenance manual and prescribed technical specification/documents and guarantee on product for pre-qualification given hereinafter along with the Technical bid document duly signed on each page.

(ii) Four sealed samples of each product offered, of size not less than 300 mm x 300 mm duly labeled and signed at the back with the company's seal and date, specifying the brand name of the product, code & literature relating the materials if any together with sample for the under layer.

(iii) The credential of firm to be included for those. who authorized by the manufacturers/suppliers of the material for execution of this work including the list of similar work executed in India or abroad with location, cost of work and period during which those works are executed duly Signed by the Competent Authority.

10.1 Must conduct the test on the identical sample intended to be offered.

10.2 The bidder shall indicate the technical parameters, norms along with referred codes, standards and practices for the surfaces and its ingredients to be utilized for the surfaces.

11. **ENVELOPE 'C' (FINANCIAL BID)**

This envelope shall contain the price for complete execution of various items of work as described in scope of work including all material, labour T&P, Taxes etc.

12. Envelope-'A' (Earnest Money & cost of bid document), Envelope-'B'(Technical Bid Document), and Envelope-'C" (Financial Bid Document), shall be in separate sealed envelopes, each marked as "Envelope-'A', 'Envelope-B' and 'Envelope-C'. All the three envelopes shall be submitted in another sealed envelope. Super scribing there on **"bid for construction of Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur ,"** The envelope shall be addressed to Superintending Engineer, Public works Department, RAIPUR Circle No.-1, RAIPUR (C.G.) India. 492001 The envelope marked 'Envelop-'B' of only those bidders shall be opened, whose

earnest money & cost of bid documents are placed in the 'Envelop 'A' and found to be in order.

14. Refund of earnest money: - The amount of earnest money, in the case of successful bidder, shall be refunded on completion of work and receipt of satisfactory test reports of samples. However E.M.D. of unsuccessful bidders will be refunded after the award of the contract to the successful bidder.

15. The committee does not bind himself to accept the lowest or any other bid, and reserves the right to reject any or all of bids received without assigning any reason. Any bid in which any of, the prescribed conditions are not fulfilled or incomplete in any respect or there is any correction not duly, initialed by the bidder is liable to be rejected. However, the final decision for accepting / rejecting bids, will be in the sole discretion of The committee.

16. Bid shall remain open for acceptance for a period of 120 days from the date of opening of the financial bid. If any bidder withdraws his bid before the said period, Earnest money deposited shall be forfeited by the committee.

17. The Notice Inviting bid shall form part of the contract document. The successful bidder shall sign the necessary contract documents consisting of the notice-inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance there of together with any correspondence leading thereto, within the time specified in the letter communicating the acceptance of the bid. In case of delay in signing the agreement the earnest money shall be forfeited and the bid cancelled.

18. If the Head Quarter of the successful bidder is at a place other than Raipur (C.G.) he shall appoint a duly Authorized Representative in Raipur from the date of Commencement of the work until the work is physically completed. Such Representative shall be authorized to act on behalf of the successful bidder. Any notice under the contract shall be deemed to have been served on the successful bidder, if served upon such Representative or sent by registered letter at his address in **Raipur** Such Representative shall not be changed and shall not leave **Raipur** during the period of the contract without the prior approval of the Executive Engineer, Public works Department, Raipur, Division No.-2 Raipur (C.G.). If Executive Engineer, Raipur, Division No.-2 Raipur, shall require the successful bidder to carry out rectification of the defects under the terms of the contract after the work has been

completed, the successful bidder shall appoint the same or another duly Authorized Representative in Raipur (C.G.) while such rectifications are being carried out.

19. The bidder shall employ a qualified Graduate Engineer at the place of the site from the date of commencement of the work till the work is completed and handed over to **Principal, Govt. Engineering College Sejbahar, Raipur Chhattisgarh.** In the event of non-employment of the said Engineer, a recovery of Rs. 20,000/- per month will be recovered from the running payment.
20. The bidder shall submit a detailed work program on the basis of the various items of work to be completed for execution of the work as per **Annexure-I** of the contract documents.
21. No additional conditions from the bidder shall be acceptable. The bids having any additional conditions will be summarily rejected without assigning any reason.

For and on behalf of Governor of Chhattisgarh

Signature of the Bidder

**Superintending Engineer,**
**P.W.D. RAIPUR Circle No.-1**
**RAIPUR (C.G.)**

**Date :**

**GOVERNEMNT OF CHHATTISGARH**
**PUBLIC WORKS DEPARTMENT**
**RAIPUR, (C.G.)**
**BID ON TURN KEY BASIS AND CONTRACT FOR WORKS**

## GENERAL RULES AND CONDITIONS:

1. All works proposed for execution by contract will be notified in a form of invitation of bid by Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.) This form will state the works to be carried out, as well as the date for submitting and opening bids and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the bid. Copies of the specifications, designs and drawings and a schedule of quantities and any other documents required in connection with the work shall also be open for inspection by the bidder at office of the Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.) during office hours.

2. The bid submitted by the bidder must be signed by the bidder or on his behalf by Authorised Signatory being a person holding the Power of Attorney authorizing him to do so. Such Power of Attorney shall be submitted with the bid.

3. Any bidder who submits a bid shall fill up the schedule of Quantities (Annexure II) stating the rate of each item of the work. Bidder, which propose any alteration in the work specified in the said form of invitation to bid, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, will be liable to rejection.

4. The bidder is bound to arrange the power point presentation regarding his experience of previous and this work as work as desired by the committee. Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.) will open the bids in the presence of any intending bidders who may be present at the time, technical bid document shall be scrutinized and evaluated by the committee. Financial offer of technically approved bidders shall be opened by Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.). Evaluation of financial offer shall be done by the committee, who's decision shall be final and

binding. In the event of a bid being accepted, the bidder shall for the purpose of identification sign copies of the specifications and other documents. In the event of a bid being rejected, the earnest money forwarded with such unaccepted bid shall thereupon be returned to the bidder remitting the same, without any interest.

5. Price quoted by the bidder in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, rates in words shall be taken as correct and amount corrected accordingly.

6. All rates shall be quoted in the schedule of quantities. The amount of each item should be worked out and requisite totals given. Special care should be taken to write the price in figure as well as in words in such a way that interpolation is not possible. The total amount should be written both in figure and words. The total amount of the bid given by the bidder shall be checked arithmetically and shall be corrected if required while evaluating the bid.

7. On acceptance of the bid, the name with address and telephone numbers of the accredited representative(s) of the bidder who would be responsible for taking instructions, shall be communicated in writing to Executive Engineer, Public works Department, Raipur, Division No-2 Raipur (C.G.)

8. The quoted price shall be inclusive of the all taxes payable on materials as applicable under State Sales Tax or any other tax, in respect of this contract and shall be payable by the bidder only and the Executive Engineer, shall not entertain any claim whatsoever in respect of the same. Any new tax levied by the government after drawl of the agreement shall be reimbursed by the department on production of such payment documents.

9. The bidder is required to submit the following information with documentary proof and failure to submit any of the documentary proof will render the bid document invalid.

List of Documents :-

| | | |
|---|---|---|
| | Name(s) and Full Address of the Firms | |
| | Telephone No. | |
| | Telex: | |
| | Fax: | |
| 1(a) | Balance Sheet and profit & Loss Account for the last three years duly audited by a registered Chartered Accountant. | |
| (b) | Annual Administrative Report for the last three years. | |
| (c) | Income Tax Returns filed for the last three years. | |
| 2. (a) | Brand Name of the Product being offered | |
| (b) | Detailed technical specifications of each sample offered separately conforming to IAAF Handbook: | |
| (c) | The firm will submit the Time Schedule for execution of the work as provided in **Annexure** -I | |
| 3. | Test Reports of the product quoted containing value of Technical Parameters. Copy of approval and validity period to be clearly indicated. | |
| 4. | Legal status; Whether a proprietary or a partnership firm of incorporated body etc. With proof of registration/certificate by Government of parent country. | |
| 5. | Authenticated copy of the following documents, translated in English language. | |
| (a) | Certificate of Incorporation (in case of an incorporated body). | |
| (b) | Memorandum of Association | |
| (c) | Certificate by Auditor confirming existence of assets (unencumbered) of the value of 30% of the bided amount. | |
| 6. (a) | Name (a) and address (es) with Fax number of customers along with the place and year where the surfaces have been installed including in India be furnished. | |

| | | |
|---|---|---|
| 7. | Any other documents / information, which bidder, may consider appropriate to the activity of bid. | |
| 8. | Details of disputes/claims, if any, between the bidder and any Sports Authority/Body and its present status. | |

**Note :-**

1. Separate information sheet may be provided for item (s) in case space provided is not adequate .
2. Affidavit in the enclosed format on Non Judicial stamp paper of Rs. 50 ( Rupees Fifty only) duly attested by Magistrate/Notary shall also be furnished by the bidder.

# Technical Specification

1 Dismantaling of old ceiling area 542.48 sqm.

2 Providing and fixing of acoustical grid false ceiling of size 600 mmX600mm with frame of GE/ alluminium “T” complete as per item on area 634.68 sqm.

3 Accoustical wall paneling - with mineral/rock wool up to full 7.00 mtr hight wall as sub base and fabric or wood wool as final finish.

4 Providing and fixing 14mm thick engineered wooden floor with underlay of PERCO, EGO, or equivalent company for stage Specification attached annexure I and II (Area 168.00 sqm).

5 Providing and fixing loop pile carpet , with underlay protection of 12mm specification attached annexure III (Area 511.68 sqm) .

6 Providing and fixing accoustical doors of 2.0mX2.1m with door frame(8 Nos.).

7 Provinding and fixing fins on the stage(6 Nos.).

8 Providing and fixing two motorised curtain on stage, motors of vista levolar or SOMFY, sliding side ways cloth complete.

9 Providing and fixing glazed wooden partition 65mm thick made out of aluminium of cross section complete as per item ( area 14.10 sqm) .

10 Providing and fixing of MS tubular pipe truss for provision of stage light hanging(approx 750.00 kg).

11 Providing and fixing Tip-Up chair of M/s KUNDAN CHAIRS Company as per attached specification annexure IV (500 Nos).

12 Electrical Work. (attached specification annexure xii)

A Ductable package type Air conditioning system Air Conditioning work for Hall size 16.4 mtr X 31.7 MtrX6.40Mtr (H), Balkani size 10 mtr X 16.4 mtrX 3.20 mtr (H) For capasity of 500 person . for cooling capacity 75 tr. by air cooled package type.

B Internal electrifiaction work including swich socket and stage light .

C Sound System

D Fire Alarm System.

***Technical specification of Wooden Work***

**General data**

| | |
|---|---|
| Panel | 2200 x 190 mm |
| Total thickness | 14 mm |
| Number of panels per pack | 6 |
| m² per pack | 2,508 m² |

**Panel build up**

| | | |
|---|---|---|
| Toplayer | Oak, Merbau, Walnut | 3 mm |
| Core board | Hevea | 9 mm |
| Backing layer | Spruce | |
| Tongue and groove | Length | Uniclic connection |
| | Width | Perfect Fold 3.0 |
| connection | | |

**Surface layer**

| | | |
|---|---|---|
| Wood species | Oak, Merbau, Walnut | Conform EUTR |
| Origin | Europe | Conform |
| EUTR | | |
| Finishing | Matt lacquer / Satin lacquer | |

**Installation**

| | |
|---|---|
| Floating | See special instructions |

**Warranty**

| | |
|---|---|
| Residential use | Life time Cfr. Installation instructions |
| Commercial use | On request |

ANNEXURE-4( II)

***Technical specification of Wooden Work***

**Finishing**

| | | | |
|---|---|---|---|
| Varnish | 7 layers | | |
| Wear resistance | SIS 923509 | Falling sand | 500-1700 |
| | DIN 68861 | S33 | 550-1200 |
| Scratch resistance | Anti-scratch top coat with nano technology | | |
| Resistance against staining | EN 13442 | Except blue ink | Class 5 |
| | EN 13329 Annex D | Blue ink | Class 3 |

| | | |
|---|---|---|
| CE | EN 14342:2008 | DOP:PWA 0501 |
| Castor chairs | Use soft wheels Type W (EN12529) and/or an appropriate office mat | |
| Slip resistance | CEN/TS 15676 | USRV 50-52 |
| Emission formaldehyde | EN 717-1 | E1 |
| PCP | Below detection limit | |
| Heat resistance | EN 12664 0,127 m² K/W | |
| Floorheating | Suitable | See special instructions |
| Fire classification | EN1350111 | Cfl-S1 |

**Ecological certificates**

| | |
|---|---|
| U-zeigen | Z.156.606-996 |
| AFFSET | A+ |
| Nordic ecolabel | Request pending |
| PEFC | PEFC/07-32-37 |
| M1 Request pending | |
| EPD | Request pending |

## ANNEXURE-5( III)

***Technical specification of Carpet***

### Woven Axminster - Ax 818A

| | |
|---|---|
| Pile Yarn | 80% Wool 20% Nylon |
| Backing Materials | Polyester, Polypropylene, Latex |

| Construction Details | | Metric | Imperial | Tolerance |
|---|---|---|---|---|
| Yarn Count | ISO 2060 | R674/2 | 2/46's | |
| Pitch | ISO 1763 | 27.6 per dm | 7.0 per inch | ± 1.25% |
| Rows | ISO 1763 | 31.5 per dm | 8.0 per inch | ± 3% |
| Tuft Density | ISO 1763 | 869 per $dm^2$ | 56 per sq inch | |
| Pile Height Above Back | ISO 1766 | 6.5 mm | 0.26 inches | ± 10% |
| Total Carpet Thickness | ISO 1765 | 9.2 mm | 0.36 inches | ± 10% |
| Pile Weight Above Back | ISO 8543 | 820 $g/m^2$ | 24.18 $oz/yd^2$ | ± 5% |
| Total Pile Weight | ISO 8543 | 1111 $g/m^2$ | 32.77 $oz/yd^2$ | ± 5% |
| Total Carpet Weight | ISO 8543 | 1871 $g/m^2$ | 55.18 $oz/yd^2$ | ± 10% |

| Performance Details | | | | |
|---|---|---|---|---|
| Colour Fastness | ISO 105-B02 | Light | 5 | Minimum |
| | BS1006 | Shampoo | 4 | Minimum |
| | BS EN ISO 105-E01 | Water | 4 | Minimum |
| | BS EN ISO 105-X12 | Rubbing | 4 | Minimum |
| Tuft Anchorage | ISO 4919 | Newtons | 9.5 | - 20% |
| Static Electricity | ISO 6356 | Stroll Test | 2.5kV at 30%rh | Maximum |
| Appearance Retention | BS 6659 | Hexapod Grade | 3.0 | ± 0.5 |
| Use Classification | EN 1307 | Class | 23/33 | |
| | Brintons Commercial | Class | Heavy | |

| Flammability Classification | | | | | |
|---|---|---|---|---|---|
| Europe CE Mark | EN 13501-1 | Class | Bfl S1 | ISO 9239 | >8.0 crf $kW/m^2$ |
| USA | ASTM E648 | Class | 1 | | |
| Shipping | IMO Wheelmark | Approved | MED-B-7410 | | |

## ANNEXURE- 11(IV)

***Technical specification of Chair***

| Particulars | | Specification/ Sescription |
|---|---|---|
| Seal | i | Self Tip- Up Chairs |
| | ii | Centre Distance (Arm_rest to Arm rest ) 21''<br>Width of the seat : 18''<br>Depth of the seat : 18.5''<br>Height from floor to tip of the back : 37.5'' |
| Sheet Metal Components | | Sid Stand<br>70mm X30mm heavy gage pipe.<br>7mm HR Plate iron Sheet deep drown footrest.<br>Tip-up System:<br>Back Clamps: 16G HR Sheet X 2 Nos.<br>Seat supporting tray:40X3 mm<br>Seat & Back Frame<br>Seat frame: Ply wood 15mm<br>Back frame: Ply wood 15mm /side Panel |
| Polyurethane Foams | I | Seat & Back cushioned with molded non-sagging polyurethane molded foam of 50 density. |
| | Ii | Density : 50 +/- 5 kg /M3 as per JIS K 6401 |
| | Iii | Hardness:<br>a) Cushion : 120 (+30 / -20) Newton<br>b) Back rest : 80 (+30 / -10) Newton |
| | Iv | Constant Compression Set : ( Max – 13 % ) JIS K 6401 |
| Fabric | | Fabric shall exactly be as per the sample approved by youd and the color / Shade. |
| Spring | | For Auto _ Tip Torsion ( 14 Gage pipe slong with spring |
| Arm Rest | | PU Arm rest of as per requirement . |

- **Certifications**

- Company is an ISO - 9001/14001/18001 Certified.
- In-house Capabilities -

Vendor to have PU Injection / CNC cutting / Laser Cutting / Vacuum forming of plastic/ 7 Tank powder coating/Conveyor assembly / Robotic welding / Circular grinding saw with wide belt grinding / Sanding / Polishing.

- Testing – Having equipment for measuring thickness / Densities.
- Fabric – All Fabric to be fused with 7.5mm foam, wherever quilting is required.
- Powder coating: to be by hoist and crane system followed by degreasing / de-rusting / Activation followed by 7 Tank powder coating process.
- 
- 

ANNEXURE- 12

***Technical specification of Electrical Work***

➢

| | | |
|---|---|---|
| 1 | | **STAGE LIGHT** |
| A | | PAR CAN - 64 house light narrow |
| B | | Multi Tan - 1000 Watts |
| C | | Raytech - 24 KW 6 Channel DMX operated |
| D | | LED PAR 36 X 3 (R-5 , L-5 Back- 8 ) |
| E | | LED PAR 36 X 3 front |
| F | | Pilot - 2000 |
| G | | Smoke - 1500 W |
| H | | 12 Core 1.5mm Cable |
| I | | Signal Cable 2 Mtr M/F |
| J | | Signal Cable 10 Mtr M/F |
| K | | 4 Sqmm2 core cable |
| L | | splitter LBT or A -Pro |
| M | | Gate Way Paper |
| N | | Flicker |
| O | | Clamp for light Hanging |
| | | |
| 2 | | DUCTABLE TYPE PACKAGE AIRCONDITIONING |
| | | Supplying, installation, testing and commissioning of 25.5 **TR, programmable microprocessor based, Air-cooled Package Type DX units** complete with condensing unit, scroll compressor, air- cooled condenser with fan and evaporator,interconnecting refrigerant piping with indoor and outdoor units,pre charge refrigerant necessary insulation. Microprocessor Based Control Panel should be capable for , Cooling controls and interlocking with control wiring etc. complete with following and as per specifications and requirement. **(Make:- Bluestar, Daikin, Carrier)** |
| | | **Indoor Unit** |
| | | a) Fan Section and canvass connection (Double Skin Type) with mixing box and thermal break profile. |
| | | b) Backward curved Centrifugal Blower with Capacity of 10000 CFM and 70mm Static Pressure. |
| | | c) Cooling Coil Section/ s with 25.5 TR cooling coil/ s as per specifications.(8.5 TR. X 3 Nos.) |
| | | d) Pre Filter with filter section as required. |
| | | e) Drain Pan and Drain Connection. |
| | | f) Drive motor, Drive arangement guard etc. |
| | | g) Necessary vibration isolator and supporting arrangements. |
| | | h) Fresh air intake arrangement, necessary water drain and air purge valve wherever required etc. |
| | | i) Canvass connection ,necessary foundations, |
| | | |
| | | **Outdoor Unit for above** |
| | | Suitable Air Cooled Type Condenser with Aluminium Fins & Copper Tube Coils for above indoor unit. |

| | | |
|---|---|---|
| | | b) Scroll Type Hermetically sealed Comperssors. |
| | | c) Suitable condenser fans for the condensing unit. |
| | | d) necessary hard drawn copper refrigerant piping ,control cabling from indoor unit to outdoor unit and drain piping 12Mtr per circuit with kinnifoam insulation along with clamps,supports,fittings such as valves,y-strainer, bends,tees,reducers ,expansion valves , Drier Filters etc complete as per specfications and requirement |
| | | |
| | | |
| 3 | | **DUCTABLE SPLIT TYPE A/C** |
| | | Supply, installation, testing and commissioning of ceiling mounted ductable split type air conditioners of following capacity complete with hermetically sealed compressor, fan section with fan & motor, air cooled condenser, filter section with filters,required no. of strip heaters with fixing arrangement in the plenum, interconnecting refrigerant piping with refrigerant & necessary electrical power cabling,control cabling, earthing, supports, controls,necessary safety measures and voltage stablizer & electrical panel,necessary fresh air intake arrangement,necessary GI drain piping of required size & required length from indoor unit to suitable drain location, complete in all respect as per specifications, drawing & technical schedule. |
| a | | 11.0 TR capacity. ( 5.5 TR. X 2Nos.) |
| b | | 5.5 TR capacity. |
| c | | Extra Refrigerant Piping for 11 TR |
| d | | Extra drain piping |
| | | |
| 4 | | **GSS DUCTING** |
| | | Supply, installation, testing and balancing of G.S.S ducting of following thickness including necessary supports, hangers, nut bolts, gaskets, splitter dampers, vanes canvass connections etc. complete as per specifications : (Rectangular , Round or Oval) **(Make:- Jindal, sail)** |
| a | | 24 gauge |
| b | | 22 gauge |
| c | | 20 gauge |
| | | |
| 5 | | **FIRE DAMPERS** |
| | | Supply, installation, testing and commissioning of motorized combined smoke & fire dampers made out of GI sheet of at least 120 minutes fire rating complete with GI damper of required size, smoke sensor,. |
| a | | Actuator & Control panels |
| | | |
| 6 | | **JET NOZZLE DIFFUSER** |
| | | Supply, Installation, testing and balancing of Eye Ball Diffusers with double skin supply air diffusers of powder coated extruded aluminium construction with attached Butterfly volume control dampers |
| | | |

| | | |
|---|---|---|
| 7 | | **Flexible Duct** |
| | | Sypplying installing, testing and commissioning of testing insulated GI flexible duct of 300mm dia |
| 8 | | **VOLUME CONTROL DAMPERS** |
| | | Supply, installation and testing of volume control dampers of GI sheet, box type to be provided in ducts complete with suitable links, levers and quadrants for manual control of air volume and air balancing |
| 9 | | **GRILLES** |
| | | Supply, installation, testing and balancing of supply/ return air grilles with/ without volume control dampers of powder coated extruded aluminium construction suitable for installation in walls, false ceiling boxing etc |
| 10 | | Supply air grilles in single louvers with volume control dampers. |
| 11 | | Return air grilles in single louvers without volume control dampers. |
| 12 | | **DUCTING INSULATION** |
| | | Supply and fixing of 13 mm thick foil faced FR Closed Cell Chemically Crossed Linked Poly Ethylene Foam insulation (fire retardant type) density not less than 33 Kg/ CuM, 'K' value not more than 0.028 Kcal/ degC with adhesive tape etc. on ducts complete for supply air ducting |
| | | |
| 13 | | **DUCT ACOUSTIC LINING** |
| | | Supply,application and fixing of resin bonded fibre glass hard board acoustic insulation in supply air ducting/ plenum covered with tissue paper and perforated aluminium sheet as specified. |
| | | |
| 14 | | **UNDER DECK INSULATION** |
| | | Supplying installing, testing and commissioning of under deck insulation with 50mm thick TF quality EPS insulating mererial |
| | | |
| 15 | | Supply, installation, testing, commissioning and balancing of fresh air opening comprising of powder coated extruded aluminium louvers with bird screen, projection with frame and volume control damper with lever mounting arrangement etc. as per specifications and drawings. |
| | | |
| 16 | | **AHU PANEL** |
| | | Supply, installation, testing and commissioning of cubicle type totally enclosed wall/ floor mounted free standing type, dust, damp and vermin proof for AHU made of 2mm thick CRCA sheet steel in compartmentalized design as per specification and drawings. These distribution boards shall be mounted on 50x50x6 MS angle frame work grouted to floor/ walls of recessed. The rate includes the angle iron frame, support, painting, numbering, earthing etc. as required |
| | | |
| | | **AHU STARTER PANEL** |
| | | **INCOMER :** |

| | | |
|---|---|---|
| | | 2 No. 100 Amps 25 KA FP MCCB, 2 no of 0-125 amp ammeter with selector switch & CT's , 1 no. 0-500 volt voltmeter with selector switch & fuses , 1set of indicating lights (RYB). |
| | | **Bus Bar** |
| | | 100 A TPN Aluminium bus bar 415V , 50 Hz. |
| | | |
| | | **OUTGOINGS :** |
| | | 2 set - 63 A, 415 V 15 KA FP MCCB, single phase preventor, suitable starter for 7.5/ 10 HP motor with thermal overload protection and spare NO-NC contacts for interlocking, ON-OFF indication lamps with push button for AHU motor as required. |
| | | 2 set - 32 A, 415 V 15 KA FP MCCB , as spares. |
| | | 2 set - 16 A, 415 V 10 KA FP MCCB . |
| | | **Complete panel as above** |
| | | |
| 17 | **SOUND SYSTEM (Make:- Studiomaster, Yamaha, Shure)** | |
| | **PROGRAM SOURCES** | |
| | **Features** | |
| | • Cardioid pickup pattern ensure excellent on-axis pickup | |
| | • Designed for higher gain & less feedback | |
| | • Natural & fuller tone | |
| | • Suspended cartridge shock-mount system minimizes handling noise | |
| | • Low-failure magnetic On-Off switch | |
| | • Rugged body & dent-proof steel grill that withstands physical shocks | |
| | • Ideal microphone for vocals, choirs, instruments, speech programs & various PA applications | |
| | **Specifications** | |
| | **Transducer type** | Dynamic |
| | **Operating principle** | Dynamic mic style |
| | **Frequency response** | 30Hz-17KHz |
| | **Sensitivity** | -49dB ±3dB (at 1KHz) |
| | **Polar pattern** | Cardiod |
| | **Rear attenuation at 1KHz** | 20dB |
| | **Nominal impedance** | 300 Ohms ±30% |
| | **Connection** | 3-pin XLR male |
| | **Accessories included** | 6.5M XLR-F to XLR-M Mic Cable, |
| | | Leatherette Bag, Mic Holder, Plastic Case. |

| | | |
|---|---|---|
| | **Features** | |
| | • Tailored frequency response designed for a variety of Indian & western Instruments | |
| | and rich vocal application | |
| | • Dynamic cardioid pickup pattern minimizes off-axis pick-up, reduced feedback | |
| | and higher system gain | |
| | • Suspended cartridge shock-mount system, to minimize handling noise | |
| | • Low-failure magnetic on-off switch | |
| | • Rugged body that withstands, physical shocks | |
| | • 6.5M flexible XLR-Jack cable | |
| | • Supplied with a 180 degree swivel break-resistant clamp-type stand adapter | |
| | • Supplied in a rugged plastic storage case | |
| | **Specifications** | |
| | | |
| | Transducer type | Dynamic |
| | Frequency Response | 100Hz-15KHz |
| | Close miking | 100Hz |
| | Distant miking | 15KHz |
| | Polar pattern | Hyper Cardioid |
| | Rear attenuation at 1 kHz | -72±3dB |
| | Nominal impedance | 600 Ohm |
| | Load impedance | 600 Ohm ± 30% at 1KHz |
| | Connection | 3-pin XLR male |
| | Accessories included | Mic clip, Cable, plastic case |
| | | |
| | Hand-held Wireless Microphone System – UHF | |
| | Collar (with headband) Wireless Microphone System - UHF | |
| | **Features** | |
| | • Professional high quality 21” gooseneck microphone | |
| | • Sleek and unobtrusive design | |
| | • High sensitivity allows superior vocal reproduction | |
| | • High gain before feedback | |
| | • Built-in XLR socket | |
| | • Supplied with Microphone Base with On/Off Switch & LED | |

| | | |
|---|---|---|
| | • Works on external +48V phantom supply | |
| | • Anti Mobile & RF Interference Technology | |
| | **Specifications** | |
| | **Models** | |
| | Capsule Type | Electrode Condenser |
| | Polar Pattern | Cardiod |
| | Senditivity | -40dBV / Pa |
| | Frequency Response | 20Hz-20KHz |
| | Output Impedance | 280 Ohms |
| | Low Cut | 80Hz - 18dB/ Max |
| | SPL | 140DB, T.H.D<1% |
| | S/N | >92dB |
| | Power | 11V-52V DC Phantom Power, 2mA |
| | Connector | XLR |
| | CD/DVD/USB/Blueray Player | |
| | | |
| | **MIXING CONSOLE** | |
| | | |
| | **Input** | |
| | Mic / Line Input Level | +11dBu/+31dBu |
| | Stereo Line Input Level | +33dBu |
| | **Output** | |
| | L/R Line Outputs | +22dBu |
| | Aux Output | +22dBu |
| | **Equalizer** | |
| | For Stereo Input | High :+/-15dB at 12KHz, Mid : +/-15dB @ 1.6KHz, Low : +/-15dB at 45Hz |
| | For Mono Input | High :+/-15dB @ 12KHz, Mid : +/-15dB @ 350 - 6KHz, Low : +/-15dB @ 60Hz |
| | Frequency Response | Mic to L-R output : 20Hz to 20KHz |
| | FX ( EFFECTS )Only Platinum MKIII | 16 bit ( 32 bit internal ) Digital Stereo effects |

| | | |
|---|---|---|
| | Ac Power Requirements | 220-240 Volts 50Hz |
| | **Features** | |
| | | • Gain control, 3 band EQ with mid –sweep on mono channel |
| | | • 2 aux sends/ 1 stereo aux returns |
| | | • 12 segments L/R LED meter for Master, PFL and Monitor level |
| | | • L/R pan pot, listen and group/ Master routable switch |
| | | • Stereo 7 band graphic EQ switchable to Master/Monitor |
| | | • Stereo tape in/tape out, Headphone out with rotary volume control |
| | | • 48 V phantom power switch |
| | | • ¼ TRS Balanced and XLR Main out, line out, monitor out |
| | | • 147 preset effects with 4-memory switch and on board help. |
| | | • Separate master fader controls for group, monitor and |
| | | |
| | | |
| | **SIGNAL PROCESSORS** | |
| | | |
| | 2 in 6 out Digital Sound Management System | |
| | | |
| | **AMPLIFIERS** | |
| | | |
| | **Features** | |
| | • Rugged & Reliable Stereo Power Amplifier. | |
| | • EQ Processing, Low Cut, Subwoofer selection options on rear panel. | |
| | • Stereo, Bridge & Parallel mode selection switch. | |
| | • Protection: Temperature DC Short Circuit. | |
| | • Input: Balanced XLR & 1/4” Jack. | |
| | • Output: Speakon & Binding Post Connectors. | |
| | • Mains voltage operation 220VAC-240VAC as well as low voltage operation (150VAC). | |
| | • Large cooling Fan. | |
| | • 19” rack mountable. | |
| | | |
| | **Specifications** | |
| | **Model** | |
| | **Power Output** | |
| | 4 ohms (True RMS), 20Hz-20kHz, 1% THD | 2 x 900 W |
| | 4 ohms (EIA), 1kHz , 1%THD | 2 x 1500 W |

| | | |
|---|---|---|
| | 8 ohms (True RMS), 20Hz-20kHz, 1% THD | 2 x 600 W |
| | 8 ohms (EIA), 1kHz , 1%THD | 2 x 825 W |
| | **Bridged Mode** | |
| | 8 ohms (True RMS), 20Hz-20kHz, 1% THD | 1800 W |
| | 8 ohms (EIA), 1kHz , 1%THD | 3000 W |
| | Damping factor | |
| | Frequency Response | |
| | Protection Devices | |
| | Input Connector (Per CH.) | |
| | Output Connector (Per CH.) | |
| | **Features** | |
| | • Balanced / unbalanced inputs signal through parallel XLR connector in both channels | |
| | • Output termination on 4 way speakon connectors and binding posts for each channel | |
| | • Selectable slide switch for stereo, parallel & bridge mono amp modes | |
| | • Selectable sensitivity slide switch for ( 0.775V , 1V or 1.4V) | |
| | • Selectable slide switch for low-cut (30Hz) on/off | |
| | • Selectable slide switch for ground lift in case of ground loops | |
| | • Selectable Slide Switch for HF Limiter | |
| | • Signal and Clip LED indicators to monitor performance | |
| | • Front mounted detent gain controls for easy access | |
| | • Fast recovery design for lower distortion if clipping occurs | |
| | • Low THD and high damping factor for excellent sound quality | |
| | • Advanced protection circuitry guards against: short circuit, open circuit, thermal, and DC | |
| | • Two variable speed fans | |
| | • 19” rack mountable Rugged housing | |
| | | |

| | |
|---|---|
| | |
| **Specifications** | |
| | |
| 2 ohms(True RMS), 20Hz-20kHz, 1% THD | 2 x 2600 W |
| 2 ohms(EIA), 1kHz , 1%THD | 2 x 4900 W |
| 4 ohms(True RMS), 20Hz-20kHz, 1% THD | 2 x 1950 W |
| 4 ohms (EIA), 1kHz , 1%THD | 2 x 3200 W |
| 8 ohms(True RMS), 20Hz-20kHz, 1% THD | 2 x 1300 W |
| 8 ohms(EIA), 1kHz , 1%THD | 2 x 1800 W |
| **Bridged Mode** | |
| 4 ohms(True RMS), 20Hz-20kHz, 1% THD | 5000 W |
| 4 ohms (EIA), 1kHz , 1%THD | 9800 W |
| 8 ohms(True RMS), 20Hz-20kHz, 1% THD | 3900 W |

| | | |
|---|---|---|
| | 8 ohms(EIA), 1kHz , 1%THD | 6400 W |
| | Damping Factor | >300 : 1 (8 Ω) |
| | Frequency Response | |
| | Protection Device | |
| | | |
| | **MAIN HOUSE LOUDSPEAKER LINE ARRAY** | |
| | | |
| | **Features** | |
| | • 12 Channel Mixer (12 Balanced Mic-Line Inputs) | |
| | • Gain control with 3 Band EQ per channel | |
| | • 2 Aux Sends/ Returns | |
| | • 1 Pre and 1 Post Aux Sends Rotary Control per Channel | |
| | • L/R Pan Pot, Mute Switch and Clip LED per Channel | |
| | • Stereo Tape in/tape out, Headphone out | |
| | • 12 segments L/R LED meter for Master Level | |
| | • ¼ TRS Balanced L/R Main Output | |
| | **Specifications** | |
| | **Input** | |
| | Freq. Response | 50Hz - 50KHz |
| | **Output** | |
| | Mic /Line To L/R Output | 76dB / 55dB |
| | L/ R Output | Nominal: 0dBm / Maximum ( 1KHz/600 Ohms ) : +17dBm |
| | Equalizer | High :+/-16dB@10KHz,Mid : +/-16dB@2.5KHz, Low : +/-16dB@100Hz |
| | Frequency Response | 25Hz to 19KHz ( +0/-1dB ) |
| | AC Power Requirement | 220/240V 50Hz 25VA Max |
| | | |
| | **Features** | |
| | | |
| | • Fast, integral rigging system with variable splay angles. | |
| | • HF frequency attenuation by selection of throw (long, medium, short) | |
| | • High acoustic output. | |

| | |
|---|---|
| • Coverage Pattern: 100 degree x 15 degree nominal (horizontal x vertical), single unit | |
| • Extra textured anti-scratch paint finish | |
| • High-quality passive crossover network for maximum reliability. | |
| • Flexible ground stack capability. | |
| | |
| **Specification** | |
| | |
| System Type | 2-Way |
| Frequency Range (-10 dB) | 75-20 KHz |
| Frequency Response (±3 dB) | 85-19 KHz |
| Horizontal Coverage Angle | 100° |
| Vertical Coverage Angle | 10° |
| Crossover Frequency | 1700 Hz |
| **POWER RATING** | |
| Continuous | 400 W |
| Program | 800 W |
| Peak | 1600 W |
| System Maximum SPL | 132 dB |
| System Sensitivity (1w @ 1m) dB | 100 |
| Inside LF Driver | 2x8" Woofer |
| Inside HF Driver | 2x1.5" Driver |
| Nominal Impedance | 8 Ohm |
| Enclosure | 15 mm |
| | |
| **Features** | |
| • Excellent quality RCF components used | |
| • State of the art crossover design to enhance the frequency response | |
| • Suitable for installations & touring | |
| • Easy carry handles & Heavy Duty protective steel grille | |

| | |
|---|---|
| • Exceptional sound quality, powerful response & broad dynamic range | |
| • High power & High Efficiency | |
| • High grade & durable cabinet design | |
| | |
| | |
| Type | Sub-Woofer |
| **System** | |
| Frequency Range | 40 Hz - 200 Hz |
| System Sensitivity | 98dB, 1W@1m |
| Maximum SPL | 134dB @1m |
| Impedance | 8 ohms |
| Power Output ( RMS) | 1000W / 2000W |
| Continous / Peak | |
| Crossover | - |
| **Transducers (Powered by RCF)** | |
| Low Frequency | 18” Woofer with |
| | 4” Voice Coil |
| High Frequency | - |

| | |
|---|---|
| **Features** | |
| • Excellent Sound Clarity & Punch | |
| • Ultra-compact and light weight design | |
| • Bi-Amplified design for maximum efficiency | |
| • Balanced Combo XLR & Jack Input | |
| • Convenient Line output to link with additional speakers | |
| • Built-in soft clip limiter to avoid distortion | |
| • Integrated Stand mounting socket | |
| • Ergonomically shaped handle for easy carrying and setup | |
| | |
| **Specifications** | |
| | |
| Type | Active Speaker |
| Power (RMS) | 275 W |
| Power Peak | 550 W |
| Frequency Response | 50-20000 Hz |
| SPL Peak | 127 dB |

| | | |
|---|---|---|
| | Crossover Frequency | 2000Hz |
| | Speaker / Driver | 15” 225W Woofer, |
| | | 1” 50W HF Driver |
| | Input Connector | XLR/Jack |
| | Output Connector | XLR Parallel |
| | | |
| | **Features** | |
| | • 12 Channel Mixer (12 Balanced Mic-Line Inputs) | |
| | • Gain control with 3 Band EQ per channel | |
| | • 2 Aux Sends/ Returns | |
| | • 1 Pre and 1 Post Aux Sends Rotary Control per Channel | |
| | • L/R Pan Pot, Mute Switch and Clip LED per Channel | |
| | • Stereo Tape in/tape out, Headphone out | |
| | • 12 segments L/R LED meter for Master Level | |
| | • ¼ TRS Balanced L/R Main Output | |
| | Specifications | |
| | **Input** | |
| | Freq. Response | 50Hz - 50KHz |
| | **Output** | |
| | Mic /Line To L/R Output | 76dB / 55dB |
| | L/ R Output | Nominal: 0dBm / Maximum ( 1KHz/600 Ohms ) : +17dBm |
| | Equalizer | High :+/-16dB@10KHz,Mid : +/-16dB@2.5KHz, Low : +/-16dB@100Hz |
| | Frequency Response | 25Hz to 19KHz ( +0/-1dB ) |
| | AC Power Requirement | 220/240V 50Hz 25VA Max |
| | | |
| | | |
| | **ACCESSORIES** | |
| | Microphone Connector Boxes for Stage ( 4 x FXLR panel type) | |
| | Monitor Speaker Connector Boxes for Stage (2 x XLR panel type) | |
| | Equipment Rack 32U | |
| | Loudspeaker cable 48/0.2mm (meters) | |
| | 2-core ABC 19/0.122mm shielded microphone cable (meters) | |
| | SL40 Kit including fly-bar and locking pins | |
| | Microphone Stand model BMS-101 | |

| | | |
|---|---|---|
| | Microphone Stand - Big | |
| | Microphone Stand - Small | |
| | Set of miscellaneous connectors including Neutrik Powercon | |
| | Set of cables and patch cords | |
| | Servo Stablizer 10KVA | |
| | Rigging set for flying arrey (Chain Pulley Arrangement) | |
| | Wall Stands for Active Speakers | |
| | Flight Case for Microphones | |
| | Flight Case for Mixer | |
| | | |
| | **Installation, Testing & Commissioning** | |
| | Drawing and laying of speaker and microphone cables | |
| | Installation charges for equipment and accessories | |
| | Equalization of sound system for increasing acoustic gain | |
| | before onset of feedback and enhancing naturalness of | |
| | reinforced sound | |
| | Measurement of Speech Transmission Index | |
| | Measurement of Sound Pressure levels by pink noise | |
| | excitation of sound system | |
| | | |
| 18 | | **Supply,Installtion, Testing & commissioning of following as per fire Detection system specifications :**<br>**Make:- Edwards, Notifire,GST,SIMPLEX** |
| **18.1** | | **INTELLIGENT ADDRESSABLE FIRE DETECTION CONTROL PANEL** |
| a | | Microprocessor based intelligent and electronically addressable and having networking capablity each loop consist of minimum 125 detector & 125 devices ) fire alarm control panel with minimum 960 character LCD display, multiple access levels, event history file in non-volatile memory (EEPROM). The panel shall have capability to be connected to Graphic Monitoring System or BMS system.The panel shall support programmable relay for controlling lifts, staircase pressurizations fans, lift shaft & lift lobby pressurization fans, toilets exhaust fans, ventilation fans at fire pump room, monitoring of fire sprinkler and fire hydrant pump controlled by powerful Boolean logic equation. The panel shall have 240 volts AC power supply, automatic battery charger, 24 volts, sealed lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 30minutes during emergency condition. The panel shall be UL listed. |
| | | |
| | | |
| 18.2 | | UL/EN / VDF LISTED Fault isolator BASE module for isolating shorted, dewired and loose circuits between two successive fault with automatic resetting arrangement. |
| | | |
| | | |
| 18.3 | | UL/EN / VDF LISTED Intelligent and electronically addressable , optical multi criteria detector (smoke + Heat) with microprocessor in head, and including the base with LED etc as per specification. |
| | | |
| 18.4 | | UL/EN / VDF Addressable manual pull station as per specification |

| | | |
|---|---|---|
| | | |
| 18.5 | | UL/EN / VDF LISTED wall mounted Hooter / Stobe/ Stobe cum Hooter as per sepcifications |
| 18.6 | | UL/EN / VDF listed control module |
| | | |
| 18.7 | | Response Indication |
| 18.8 | | UL/EN / VDF LISTED Addressable monitoring module to connect NO/NC contacts such flow switches (provided by Fire fighting contractor). However testing and commissioning shall be included in the fire detection and alarm system contractor scope. |
| | | |
| 18.9 | | Supplying, installing, testing & commissioning of cabling for fire detection and alarm system with 2 core annealed tinned copper conductor PVC sheathed, flexible, unarmoured cables as per specifications in existing conduits complete as required. |
| a | | 2C X 1.5 SQ mm for loop ,power cable |

**APPROVED MAKE LIST:-**

**Name of work:-** PROVIDING ELECTRIFICATION, ductable package type airconditioning system , fire alarm system and sound system for auditorium , Govt. engineering college , sezbahar , Raipur (C.G.)

1. ***Switch and other accessories with plate and Board***

**Modular**

1. ANCHOR (Roma)
2. Havell's – ISI Mark
3. M.K. India crabtree
4. HPL
5. ABB

2. ***PVC Pipe***
   1. Saraswati – Size 2 MM thick for concealed as well as for surface wiring – ISI Mark /20mm/25mm size Heavy Duty
   2. Plaza :- ----------**do**----------
   3. Dauphin

3. ***PVC Accessories***
   1. Saraswati
   2. Dauphin
   3.

4. ***Saddle 0.9 MM thick***

5. ***PVC Copper Wire Stranded with FRLS WIRE***

   1. ANCHOR
   2. Havell's – ISI Mark
   3. Poly cab
   4. C & S
   5. Finolex
   6. R R Wires

6 ***FRESH AIR FAN***

1 BAJAJ

2 CROMPTON

7. ***BOX TYPE TUBE LIGHT FITTING 1X40 WATT***

1 BAJAJ Grace
2. CROMPTON
3. HAVELL'S
4. HALONIX
5. HPL

**8 . Package type Airconditioning system:-**

BLUESTAR , DAIKIN, CARRIER.

**9. Sound System:-**

STUDIOMASTER , YAMAHA, SHURE

**10. Fire alarm System:-**

EDWARDS, NOTIFIRE, GST, SIMPLEX.

**11. LED FIXTURES:-**

OSRAM, PHILIPS,BAJAJ.

# FORM G - BID FOR A TURN KEY CONTRACT

I / We do hereby bid to execute the whole of the work described in the bid document according to the specification mentioned there in for the sum of Indian Rs.:_____

(In words Indian Rupees :
_____)

and should this bid be accepted . I/We do hereby agree and bind myself/ourselves to abide by and fulfill all the terms, conditions, specifications mentioned in bid document or in default thereof to forfeit and pay to the Executive Engineer, Public works Department, Raipur Division No-2 Raipur an behalf of Governor of Chhattisgarh the penalties of sums of money mentioned in the said document.

Dated:

Bidder's Signature
Address ……
…….

Witness:
1. _____
Address:

2. _____
Address:

The above bid for Rs. …….. is hereby accepted by me on behalf of the Governor of Chhattisgarh.

Date

(Designation)
SIGNATURE OF AUTHORITY BY WHOM
THE BID IS ACCEPTED

## BID ON TURN KEY BASIS

I/We have read and examined the notice inviting bid, schedule of quantities, specification applicable, drawings and designs, general rules and directions, conditions of contract, clauses of contract, special conditions and other documents, and Rules referred to in the conditions of contract and all other contents in the bid documents for the work.

I/We hereby bid for the execution, for the work specified in the underwritten memorandum within the time specified in such memorandum at the price quoted in form-G in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause of the conditions of contract and in all respects in accordance with such conditions.

Name of work: - Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh.

Time allowed for completion of work:- **15 (Fifteen)** Days
from the date of issue of work order.

I/We agree to keep the bid open for ….. days from the date of opening thereof and not to make any modification in its terms and conditions.

A sum of Rs. 227000.00 (Rupees- Two Lac Twenty Seven Thousand only ) is hereby forwarded in the form of FDR/TDR in favour of Executive Engineer, Public works Department, Raipur Division No-2 Raipur (C.G.) as earnest money .

Should this bid be accepted, I/We hereby agree (i) to abide by and fulfill all the terms & conditions of the said conditions annexed hereto and all the terms and provisions contained in notice inviting bid, and/or in

default thereof to forfeit and pay to Executive Engineer, the sum of money mentioned in the said conditions.

If I/We fail to commence the. Work specified in the above memorandum I/We agree that Executive Engineer, Public works Department, Raipur Division No-2 Raipur (C.G.) shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely and to execute all the works referred to in the bid documents upon the terms & conditions contained or referred to therein.

Dated :
Address : ……

Signature of the Bidder

Witness :
Address :
Occupation :

INTERPRETATIONS & DEFINITIONS

| | | |
|---|---|---|
| 1. | The **"Contract"** means the documents forming the bid and acceptance thereof and the formal agreement executed between the competent authority on behalf of Govt. of C.G.P.W.D. Raipur and the bidder (hereinafter call the contractor), together with the documents referred to therein including those conditions, the specifications, designs, drawings and instructions issued from time to time by Superintending Engineer, Public works Department, RAIPUR Circle No.-1RAIPUR (C.G.)and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another. | |
| 2. | In the contract, the following expression shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them. | |
| | **i.** | The expression **"Works", or "Work"** shall, unless there be something either in the subject or context repugnant to such construction, be constructed and taken -to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional. |
| | ii. | The **"Site"** shall mean the land/or other place on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allowed to use for the purpose of carrying out the contract. |
| | iii. | The **"Contractor"** shall mean the successful bidder undertaking the works and shall include the legally authorized representatives or such individual or the persons comprising the agency, or the successors of the agency having possession of the property or holding in the event of the firm is liquidated before completion of work. |

| | | |
|---|---|---|
| | iv. | Committee means the group of following officers formed for evaluation & recommendation of bid, acceptance of execution of work and its evaluation & approval on completion of work.<br>1. Principal, Govt Engineering College Sejbahar, Raipur Chhattisgarh .<br>2. Joint Derector (Finance) o/o Engineer-in-Chief PWD Raipur.<br>3. Superintending Engineering PWD (B&R) Circle No. 1 Raipur Chhattisgarh .<br>4. Superintending Engineering PWD (E&M) Circle Raipur Chhattisgarh .<br>5. Executive Engineer , Public Works Department(B&R), Raipur Division No-2Raipur (C.G.)<br>6. Executive Engineer , Public Works Department(E&M), Division Raipur (C.G.)<br>7. Divisional Accounts officer C/O Executive Engineer Public works department , Raipur Division No-2Raipur (C.G.)<br>8. Sub Divisional officer public work department , Engineering College sub division Raipur (C.G.)<br>9. Sub Divisional officer public work department (E&M) sub division Raipur (C.G.) |
| | v. | " Executive Engineer " means Executive Engineer, Public works Department, Raipur Division No-2Raipur (C.G.) / E & M Division Raipur (For Electrical Work) |
| | vi. | The **"O.I.C"** means Officer-in-charge who shall supervise and be in charge of the work. |
| | vii. | '**Bid Value**" means the value of the entire work as stipulated in the letter of award. |
| | viii | "**Equipment**" means all machinery, apparatus and articles to be provided under the contract by the Bidder. |
| | ix | **"Parties to contract "** means the bidder whose bid is accepted by the Executive Engineer with the consent of committee on one part ( here is after called as contractor ) and Govt. of C.G.P.W.D. acting through the Executive Engineer , Raipur Division No-2 P.W.D. Raipur on other part. |
| 3. | Where the context so requires, words imparting the singular only also include the plural and vice versa. Any masculine gender shall whenever required include feminine gender and vice versa. | |
| | | |

| | |
|---|---|
| 4. | Headings and marginal notes to the conditions of the contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract. |
| 5. | The Bidder shall be furnished, free of cost one certified copy of the contract documents (except standard specifications, schedule of rates and such other printed and published documents), together with all drawings as may be forming part of the bid papers. None of these documents shall be used for any purpose other than that of this contract. |

# CLAUSES OF CONTRACT

**Clause : 1 Works to be carried out**:

The work to be carried out under the contract shall, except as other wise provided in these conditions, include all labour, materials, tools, plants, equipment, royalty & taxes etc. and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the scope of work shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

**Clause : 2 Sufficiency of Bid:**

The Bidder shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of this bid for the works and prices shall except as otherwise provided/cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

**Clause : 3 Time Allowed :**

3.1 The Work should be completed to the satisfaction of committee within **15 days** from date of work order in all respects.

3.2 Notwithstanding anything herein contained, the parties hereto acknowledge and agree that the time is the essence of the contract in all respects for their respective performance and discharge of obligations under this contract and the parties shall adhere to the time/delivery schedule as provided in **Annexure** - I of the contract unless otherwise mutually agreed to by the committee and contractor.

**Clause : 4 Executive Engineer :**

4.1 Being a party of this Contract shall sign the agreement with the contractor within fifteen days of issue of acceptance Letter issued by the him. This period can be extended maximum up to 7 days on written consent of committee.

4.2 Hand-over the site to the contractor within seven days of signing of the agreement.

4.3 Allow the work to be commenced by the contractor within seven days after signing of the agreement.

4.4 Provide necessary assistance if required for obtaining import license and custom duty exemption certificate for the synthetic athletic surface and for the equipment to be temporarily imported and to be re-exported after completion.

**Clause: 5 <u>Performance Guarantee</u>:**

5.1 The contractor shall submit an irrevocable PERFORMANCE GUARANTEE of 5% (Five percent) of the contract amount in term of Indian Rs., in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provision in the contract) within 15 days of issue of letter of intent. This period can be further extended by the Executive Engineer up to a maximum period of 7 days on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the committee. This guarantee shall be in the form of Government Security or fixed deposit receipts/Guarantee Bonds issued by State Bank of India/other scheduled bank approved by RBI, in accordance with and as per prescribed format.

5.2 A letter of intent shall be issued in the first instance informing the successful bidder of the decision of the competent authority to accept his bid and the award letter shall be issued only after the Performance Guarantee in the prescribed form is received. In case of failure by the contractor to furnish the performance guarantee within the specified period, the Executive Engineer, shall without prejudice to any right or remedy available in law, be at liberty to forfeit the earnest money absolutely.

5.3 The Performance Guarantee shall be initially valid for 36 months. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. The available performance guarantee shall be returned after expiry of warranty period of the project.

5.4 The Executive Engineer shall not make a claim under the Performance Guarantee except for amounts to which the Executive Engineer is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of :-

(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Executive Engineer may claim the full amount of the Performance Guarantee.

(b) Failure by the contractor to pay the Executive Engineer any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by the Executive Engineer.

5.5 In the event of the contract being determined or rescinded under provision of any of the clause/condition of the agreement, the Performance Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Executive Engineer.

**Clause : 6 <u>Works to be executed in accordance with specifications, drawings, orders etc.:</u>**

6.1.1 The contractor shall submit the work program and methodology of the work to be executed within 2 days of signing of the agreement. All program and methodology shall be got approved by the committee.

6.1.2 The contractor shall execute the whole and every part of the work in the most substantial and workman like manner both as regards materials and otherwise in every respect including all necessary laboratory/site tests, quality workmanship at his own cost.

6.2 **All works shall be executed under the directions of the Committee. Any report in this regard has to be forwarded to committee.**

6.3 The contractor shall employ his technical experts including a Graduate Engineer for technical supervision during execution of work and as long thereafter as may be necessary for proper fulfilling all the obligations under the contract.

**Clause : 7 <u>Discrepancies and Adjustment of Errors</u>** :

7.1 The several documents forming the contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small-scale drawings and figured dimensions in preference to general conditions.

7.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the committee shall be the deciding authority with regard to the intention of the document and committee's decision shall be final and binding on the contractor.

7.3 Any error in description, any omission of items in the schedule shall not vitiate the contract or release contractor from the execution of the whole or any part of the works compromised therein according to drawings and specifications or from any of his obligations under contract.

**Clause : 8 Materials, Equipment, Tools & Plant**:

8.1 The contractor shall arrange all materials, labour, machinery, equipment, tools and plant, mixers, protective clothing, fork lift, truck, dumper, office equipment (hereinafter collectively referred to as 'materials & equipment') and such other materials and equipment as is necessary for efficient and timely execution of the work. The Executive Engineer, shall in no way be responsible to any accidents or injury caused during the execution of the work.

8.2 The entire work as provided in the contract shall have to be got done from the specialized and experienced agencies having necessary expertise, equipment, plant and machinery and necessary test etc.

8.3 All materials and equipment related to this contract shall be properly packed by the contractor to avoid any loss, damage or deterioration in transit and during storage or laying/fixing in India. Notwithstanding the said transit insurance, the responsibility of safe transportation of materials & equipment shall be with the contractor. Should any loss or damage occur, the contractor shall initiate and pursue claims till settlement and promptly make arrangement for repairs and/or replacement of any damaged items irrespective or settlement of claims by the under writers. Delay arising out of damage to materials and equipment in transit shall not be considered for extension of the schedule date of completion**.**

**Clause : 9 Price :**

9.1 The price bided by the contractor shall be for completed items of work covering all materials, labour, carriage, royalties, fees, rents, sales tax and any other taxes, octroi, levies, insurance charges and demurrage, wastage, tools, plant, equipment, transport, temporary construction, overhead charges and profits as well as general liabilities, obligations and risks, etc. and security up to handing over of ground arising out of the conditions of the contract etc complete.

The prices will also include cost of testing of samples, collected during execution tests and repair/replacement of defective of worn out portions of surface during the warranty period. No extra charges, whatsoever, consequent on any misunderstanding or otherwise shall be allowed.

9.2 The price will remain firm during the entire period of contract till the completion of the work in all respects and there will not be any escalation in the bided value due to any reason whatsoever.

**Clause : 10 <u>Quality Control</u>:**

10.1.1 Samples shall be taken as per the discretion of the committee in presence of the authorized representative of the contractor. Samples shall be sealed and signed by both the parties/indicating the location from where the same were taken. The samples shall be sent to any of the laboratories specified by the committee for testing at the cost of the contractor.

10.1.2 The Test Reports of the samples in original must be sent by the accredited laboratory directly to the committee at the address of Executive Engineer / concerned with in a period of 20 days from the date of physical completion of work.

10.1.3 The samples will be tested for the same parameters as indicated in the Test Reports submitted at the time submitting the bid.

10.2 The contract value shall be inclusive of all costs in taking and preparation of samples, their sealing, carriage and testing etc. to ensure that the work has been done in accordance with specifications in all respects.

10.3 All the materials used except as provided in 10.1.1 to 10.2 will be got tested as per directions of the committee also for the purpose of ensuring the quality of materials being used during the construction, such tests will be arranged by committee at regional laboratory/Field it self but cost will be borne by the contractor.

**Clause** : **11 Payment**:-

**Schedule of running payment** :- Schedule of running payment may be based on the following break up of the cost quoted in form-G subject to the stipulations of conditions of contract.

| S. No | Activity Details | Percentage of Total cost for payment | Remarks |
|---|---|---|---|
| 1 | Providing and fixing of acoustical grid false ceiling of size 600 mmX600mm with frame of GE/ alluminium "T" complete as per item on area 634.68 sqm. | 8% | Payment will be done only after completion of activity and written approval of committee in all respect. |
| 2 | Accoustical wall paneling - with mineral/rock wool up to full 7.00 mtr hight wall as sub base and fabric or wood wool as final finish. | 12% | |
| 3 | Providing and fixing 14mm thick engineered wooden floor with underlay of PERCO, EGO, or equivalent company for stage Specification attached annexure I and II (Area 168.00 sqm). and Providing and fixing loop pile carpet , with underlay protection of 12mm specification attached annexure III (Area 511.68 sqm) | 7% | |
| 4 | Providing and fixing loop pile carpet , with underlay protection of 12mm specification attached annexure III (Area 511.68 sqm) | 3% | |
| 5 | Providing and fixing two motorised curtain on stage, motors of vista levolar or SOMFY, sliding side ways cloth complete. | 2% | |
| 6 | Providing and fixing glazed wooden partition 65mm thick made out of aluminium of cross section complete as per item ( area 14.10 sqm) .and Providing and fixing of MS tubular pipe truss for provision of stage light hanging(approx 750.00 kg). | 1% | |
| 7 | Providing and fixing Tip-Up chair of M/s KUNDAN CHAIRS Company as per attached specification annexure IV (500 Nos). | 19% | |
| 8 | Electrical Work. | | |
| A | Ductable package type Air conditioning system Air Conditioning work for Hall size 16.4 mtr X 31.7 MtrX6.40Mtr (H), Balkani size 10 mtr X 16.4 mtrX 3.20 mtr (H) For capasity of 500 person . for cooling capacity 75 tr. by air cooled package type. | 19% | |
| B | Internal electrifiaction work including swich socket and stage light . | 3% | |
| C | Sound System | 8% | |
| D | Fire Alarm System | 3% | |
| 9 | On Compeletion of work and hand over to Govt Engg coll Sejbahar Raipur | 15% | |

**Note :-**

**(1) Payment is done only after completion of activity.**

**11.1 Recovery at source:-** As per rules the Income Tax, Commercial Tax , Labour welfare cess, form each running bill/final bill will be deducted at source as per rules.

**11.2 Security Deposit @ 5% will be deducted from each running bill & it will be refunded after satisfactory completion of work and taken over by Principal Govt Engineering College Sejbahar, Raipur Chattisgarh.**

**11.3** The price quoted by the Contractor shall be deemed to be inclusive of all taxes i.e. sales/VAT tax and other levies, duties, royalties, cess, toll, taxes of central and State Governments. Local bodies and authorities that the contractor will have to pay for the performance of this contract. The Govt. will perform such duties in regard to the deduction of such taxes at source as per applicable law. However if "Service Tax" and cess on service tax or any other "new Tax " ( not increase or decrease in existing tax, duties, surcharge,) is levies on the contractor either by central govt. or state govt. then the Executive Engineer shall reimburse the " Service Tax " and cess on service tax and or " New Tax " amount ; on submission of proof of such payments by the contractor .

**Clause 12 : <u>Warranty of the work</u>**

12.1 The contractor shall certify that no sub-standard materials have been used in the work.

12.2 The contractor undertakes that all remedial work or repairs or replacement necessary under the terms of warranty will be carried out promptly on notification in writing by the Executive Engineer / competent authority. in this regard and repairs or replacements will be carried out with materials identical to the original surface and at set times as may be agreed with the committee. so that the programme of activities is not affected. In case the contractor fails to carry out the said repairs/replacements/ removal of the defects within the stipulated time, the Executive Engineer with the consent of committee shall get the Bank Guarantee encashed and forfeit the amount of Bank Guarantee.

12.3 The contractor shall depute one qualified Engineer at site for day to day supervision of the Work and to ensure that work is being carried out as per the specification and prescribed time schedule.

12.4 The contractor shall discharge the obligations at his cost under the warranty clause.

**Clause - 13 <u>Breach of Contract</u>**

13.1 The Executive Engineer while executing a contract with the contractor shall have the full right to see that the terms & conditions, specifications, quality,

workmanship of the works assigned to the contractor is fully complied and are satisfactory/ acceptable before payments are released.

13.2 If at any stage it is seen that the quality of material being used is below the standard accepted/ specified in the agreement or any deviation from the approved specification of the product or the laid down norms are not being followed/ there is contravention to the terms and conditions of agreement, the same will be considered as breach of contract and in such case, the Executive Engineer with consent of committee will have full right to stop further payment even if due, until and unless the discrepancies/ objections are set right or replaced/ clarified by the contractor to the entire satisfaction of the committee. Failing to comply with the above, the Executive Engineer with consent of committee would initiate legal action as deemed fit within the jurisdiction of Chhattisgarh Courts.

**Clause 14 : <u>Force Majeure</u> –**

14.1 The term "Force Majeure" shall mean acts of God or any act not within the control of parties, such as lightening and unprecedented floods, earthquake, hurricane and wars, revolts, riots, fire, sabotage. Upon the occurrence of such cause and upon its termination, the party, alleging that it has been rendered unable, as aforesaid, shall notify the other party in writing immediately but not later than seven days of the alleged beginning as well as ending thereof, giving full particulars and satisfactory evidence in support of its claim.

14.2 In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.

14.3 The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts.

14.4 Should the delay caused by force majeure exceed two months, the parties to the contract shall hold discussions with the committee to resolve the situation.

**Clause 15** : **<u>Liquidated Damages</u>**

15.1 The Executive Engineer and the contractor recognize that "time is the essence of contract" and the Executive Engineer will suffer financial loss and other damages

including loss of face and reputation of the country, if the work is not completed within the stipulated date of completion. They also recognize the delay, expense and difficulties involved in proving in legal or arbitration proceedings the actual loss suffered by the Executive Engineer if the work is not completed within the stipulated time; accordingly, instead of requiring any such proof the Executive Engineer and the contractor agree that as liquidated damages for delay (but not as a penalty) the contractor shall pay the Executive Engineer Rupees 10,000/- per day, that expires after the stipulated date of completion until the work is completed, unless such delay is due to Force Majeure as defined in the contract or due to the Executive Engineer's default. The total incidence of liquidated damages for the entire work covered under the Contract shall, however, not exceed a sum of 10% (Ten Percent) of the contract value.

15.2 The parties agree that the figures of liquidated damages indicated here above are genuine pre-estimates of the loss/damage which the Executive Engineer would have suffered on account of delay/breach on the part of the contractor and the said amount will be payable on demand without there being any proof of the actual loss or damages caused by such delay/breach. All sums payable by way of liquidated damages shall be considered as reasonable compensation without reference to the actual loss or damage which shall have been sustained.

15.3 The decision of the Executive Engineer, in the matter of applicability of the clause of liquidated damages shall be final and binding on the contractor.

15.4 The Executive Engineer may without prejudice to any other method of recovery of such liquidated damages, deduct the amount so payable by the contractor, from any amount due or falling due to the contractor. The payment of deduction of such amounts shall not relieve the contractor from his obligations to complete the work or from any other obligations and liabilities of the contractor under the contract.

15.5 If the contractor fails to execute the work with due diligence and within the prescribed time scheduled for different items of work or refuses or neglects to comply with reasonable orders given to him, in writing by the Executive Engineer in connection with the works, or contravenes the provision of the contract, the Executive Engineer may give notice in writing to the contractor to make good such failure, neglect or contravention. Should the contractor fail to comply with the notice within three days from the date of service thereof, the Executive Engineer shall be at liberty to employ other workmen and forthwith execute such part (s) of work as the contractor may have neglected to or if the Executive Engineer shall think fit, it shall be lawful for him, without prejudice to any other right, it may have under the contract, to take the work, wholly or in part out of

contractor's hands and re-contract and complete the same or any part thereof to the contractor's account and in that event the Executive Engineer shall have free use of contractor's equipment that may have been at the time on site in connection with the work without being responsible to the contractor for reasonable wear & tear thereof and to the exclusion of any right of the contractor over the same, and the Executive Engineer, shall be entitled to retain and apply any amount due to the contractor or such part thereof as may be necessary, to the payment of the cost of executing the said part of the work or of completing the work or executing a part thereof as aforesaid exceeds the balance amount (s) due to the contractor, the contractor shall pay such excess. Such payment of excess amount shall be independent of the liquidated damages for delay, which the contractor shall have to pay if the completion of work is delayed.

15.6 In addition, such action by the Executive Engineer as aforesaid shall not relieve the contractor of his liability to pay liquidated damages for the delays in completion of work.

## Clause 16 : Arbitration

16.1 Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever. In any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or conditions of the contract or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be settled amicably between the parties. If amicable settlement cannot be reached, disputes or differences shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Government of Chhattisgarh, P.W.D. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

16.2 It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such dispute along with the notice for appointment of arbitrator.

16.3 It is also a term of this contract that no person other than a person appointed by the Government of Chhattisgarh, P.W.D. as aforesaid, should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.

16.4 It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claim in writing as aforesaid within 120 days of receiving the intimation from the committee, that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Executive Engineer shall be discharged and released of all liabilities under the contract in respect of these claims.

16.5 The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. It is also a term of this contract that the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases, the arbitrator shall give reasons for the award.

16.6 It is also a term of the contract that if any fees are payable to the arbitrator and any other expenses incurred for arbitration proceedings, these shall be paid equally by both the parties.

16.7 It is also a term of the contract that arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration proceedings shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, to the arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

16.8 Notwithstanding anything contained in this contract, the parties shall not be entitled to invoke reference of dispute to the arbitration after acceptance of the final payment until it is so recorded on the bill that the same was being received under protest.

16.9 The award shall be final and binding on both parties. Arbitration proceedings shall be conducted in English language and in India only.

**Clause 17 : <u>Jurisdiction and applicable law</u>**

Indian Laws will govern this contract and any application in respect of any proceedings under this contract will be to the jurisdiction of the courts of Raipur (India) only and also for any application to entertain any suit in connection with this contract. Provided that nothing herein contained shall operate to the prejudice of any rights/recourses of the Executive Engineer/committee regarding blacklisting or any other matter for which there exists any condition in writing.

**Clause 18** : **<u>Cancellations of contract</u>**

Notwithstanding anything herein contained :

18.1 The Executive Engineer with consent of committee shall have the right to cancel the contract and be entitled to the restitution of all moneys paid by the Executive Engineer to the contractor under this contract alongwith interest at 12% per annum and the damages as assessed by the Executive Engineer with consent of committee in his sole discretion in case the contractor fails to perform the obligations strictly within the time stipulated herein or otherwise fails to discharge the duties and obligations undertaken by the contractor. The work can be got completed at the risk and cost of the contractor and the delivered materials or part thereof may be utilized subject to cost adjustment for the same as determined by the Executive Engineer.

18.2 Provided that in case of any failure or delay on the part of the parties as aforesaid arising out of the force majeure such other party shall not be entitled to rescind or revoke this contract.

18.3 The Executive Engineer with consent of committee reserves the right to cancel the contract in the event of omission/misrepresentation of any material fact.

**Clause 19 : Contractor to indemnify the Executive Engineer against Patent Rights**

The contractor shall fully indemnify and keep indemnified the Executive Engineer / committee against any action, claim or proceedings relating to infringement or use of any patent design or any alleged patent or design rights and shall pay any royalties, which may be payable in respect of any article or part thereof included in the contract. In event of any claims made under or action brought against the Executive Engineer / committee in respect of any such matters as aforesaid, the contractor shall be notified thereof and the contractor shall be at liberty, at his own expenses, to settle any dispute or to conduct any litigation that may arise there from; provided that the contractor shall not be liable to indemnify the Executive Engineer / committee if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Executive Engineer / committee in this behalf.

**Clause 20:**

The contractor shall be sole and Principal Employer of all labour employed on the work and shall comply with all the Indian Labour Laws as well as other laws, bylaws, orders and instructions issued by any competent authority in this behalf. The contractor shall be liable for all payments under any law including labour laws as also any compensation required to be paid on account of any injury, accident or mishap.

**Clause 21 :**

The contract comes into force on the date of signing by the authorized representatives of both parties.

**Clause 22 :**

The bidder must submit an Affidavit that there is no criminal case regarding construction/s of Athletic track is pending against him and there is no enquiry against him conducted by C.B.I. or any other Such agency failing in Submission of above affidavit the bidder will be disqualified if after submission of such an

affidavit it is found that bidder has given false information his tender will be resigned at that stage itself, all deposit shall be forfeited and legal action will be taken against him.

**Clause 23 :**

Government may appoint Project Management Consultant for the work, if required. If PMC is appointed, it will become a part of committee.

# AGREEMENT

This agreement made on this …… between the ..... (Here and after referred to as contractor) and the Governor of Chhattisgarh, acting through the Executive Engineer, Raipur Division No-3Raipur (here in after referred to as the Executive Engineer, which expression shall unless otherwise excluded by or repugnant to the context be deemed to include its successors, representatives and permitted assignees) of the one part and the contractor (which expression shall unless otherwise excluded by or repugnant to the context be deemed to include its successors, representative and permitted assignees) of the other part.

Where as, pursuant to the offer of the contractor, the contractor has agreed to undertake the following works:

**" Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable packege type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh."**

on Turn Key Basis for a bided value of Rs……..as per the terms and conditions of the work award vide Letter No …….…….. dated……and terms & conditions annexed here to.

In witness where of, the parties have hereunto set and subscribed their handed seals on the day and the year first above written .

For and on behalf of contractor. For and on behalf of Governor of Chhattisgarh

**Executive Engineer**
**Division No-2,P.W.D.**
**Raipur (C.G.)**

Witness:

1. _____

Address

2. _____

Address

## PERFORMANCE GUARANTEE BOND

1. In consideration of the Governor of Chhattisgarh (here in after called the government having agreed to exempt ..... (Herein after called the contractor (s) from the demand under the terms and conditions of an agreement dated ..... made between …….. for the work (Name of work) ..... (here in after called the said Agreement) of security deposit for the due fulfillment by the said contractor (s) of the terms and conditions contained in the said agreements on production of a bank Guarantee for Rs. ..... Rupees..... Only we. (.) ..... (hereinafter referred to as " the bank (at the request of the said contractor (s) do here by undertake to pay the Govt., an amount not exceeding Rs. ..... against any loss or damage caused to or would be caused to or suffered by the Government, by reasons of any breach by the said contractor (s) of the terms or conditions contained in the said agreement.

2.We (.) ..... do here by undertake to pay the amount due and payable under this guarantee without any demur merely on demand from the Government stating the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor (s) of any of the terms or conditions contained in the said agreements or by reasons of the contractor (s) failure to perform the said agreement, Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee, However our liability under this Guarantee. shall be restricted to an amount not exceeding .....

3. We undertake to pay to the Government any money so demanded not with standing any dispute or disputes raised by the contractor (s) in any suit or proceedings pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor (s) shall have no claim against us for making such payments.

4. We (.) ..... further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of said agreement and that it shall continue to be enforce able till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till the Executive Engineer P.W.D. certified that the terms and conditions of the said agreement have been fully and property carried out by the said contractor (s) and terms and conditions of the said agreement have been fully and property carried out by the said contractor (s) and accordingly discharged this guarantee, unless a demand to claim under this Guarantee is made on us in writing on or before the (here indicate a date which falls 36 months beyond the due date of completion of the work) ..... we shall be discharged from all liability under the guarantee.

5. We (.) ..... further agree with the government that the Govt. shall have the fullest liberty without our consent and with out affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor (s) from time to time or to postpone for any time or for time to time

any of the powers exercisable by the Gove. against the said contractor (s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reasons of any such variations. or extension being granted to the said contractor (s) or for barnacle, act or commission on the part of the Gove. or any indulgence by the Govt. to the said contractor (s) or by any such matter or thing what so ever which under the lay relating to sureties would but for this provision have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s).

7. We (.) ..... lastly under take not to revoke this guarantee during its currency except with the previous consent of the Government in writing :-

Dated the ..... day of .....

.....for( ).....( )

indicate the Name of the Bank .....

**Annexure -I**

## TIME SCHEDULE OF WORKS

**Time Schedule:** Work to be completed within 15 Days in all respect from date of work order.

**Name of work:** Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable packege type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh.

| Sl. No. | Items of work | Period of Completion from date of work order. |
|---|---|---|
| 1 | Dismantaling of old ceiling area 542.48 sqm. | |
| 2 | Providing and fixing of acoustical grid false ceiling of size 600 mmX600mm with frame of GE/ alluminium "T" complete as per item on area 634.68 sqm. | |
| 3 | Accoustical wall paneling - with mineral/rock wool up to full 7.00 mtr hight wall as sub base and fabric or wood wool as final finish. | |
| 4 | Providing and fixing 14mm thick engineered wooden floor with underlay of PERCO, EGO, or equivalent company for stage Specification attached annexure I and II (Area 168.00 sqm). | |
| 5 | Providing and fixing loop pile carpet , with underlay protection of 12mm specification attached annexure III (Area 511.68 sqm) . | |
| 6 | Providing and fixing accoustical doors of 2.0mX2.1m with door frame(8 Nos.). | |
| 7 | Provinding and fixing fins on the stage(6 Nos.). | |
| 8 | Providing and fixing two motorised curtain on stage, motors of vista levolar or SOMFY, sliding side ways cloth complete. | |
| 9 | Providing and fixing glazed wooden partition 65mm thick made out of aluminium of cross section complete as per item ( area 14.10 sqm) . | |
| 10 | Providing and fixing of MS tubular pipe truss for provision of stage light hanging(approx 750.00 kg). | |
| 11 | Providing and fixing Tip-Up chair of M/s KUNDAN CHAIRS Company as per attached specification annexure IV (500 Nos). | |
| 12 | Electrical Work. | |

| | | |
|---|---|---|
| A | Ductable package type Air conditioning system Air Conditioning work for Hall size 16.4 mtr X 31.7 MtrX6.40Mtr (H), Balcony size 10 mtr X 16.4 mtrX 3.20 mtr (H) For capasity of 500 person . for cooling capacity 75 tr. by air cooled package type. | |
| B | Internal electrifiaction work including swich socket and stage light . | |
| C | Sound System | |
| D | Fire Alarm System | |

**For** and **on behalf of Governor of Chhattisgarh** **Signature of Bidder**

**Executive Engineer**
**Division No-2,P.W.D.**
**Raipur (C.G.)**

**Annexure -II**

**Construction of Perforated type ceiling, Acoustical wall paneling, Providing and fixing ductable package type air conditioning system 83 TR. capacity, Internal Electrification work , Sound system , Fire Alarm system, Auditorium chairs and floor carpet etc as per standard norms on turn key basis at Auditorium hall of New Govt. Engineering College , Sejbahar, Raipur , Chhattisgarh**.

**BILL OF QUANTITIES**

| S.NO. | S.O.R. | DESCRIPTION | QTY | UNIT | RATE | RATE IN WORDS | AMOUNT |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | 16.10 | Dismantling cement asbestos or other hard board ceiling or partition wall including stacking of serviceable material and disposal of unserviceable material within 50m lead. | 542.48 | sqm | | | |
| 2 | | Accoustical False ceiling - Providing and fixing accoustical grid false ceiling of size 600mm x 600mm with frame of GI/aluminium "T" grid of main runner, cross tee and perimeter channel to be hung with GI wire and butterfly clip. The tile shall be PVC laminated, prefinished, with 400 square perforation of 12mm x 12mm with accoustical fleece back and tapered edge. Glass wool of 50mm thickness and 16kg/cumt density made up of thermally and accoustically efficient fiberized glass bonded with thermosetting resin (SIPLA/TWIGA or equivalent make) shall be laid over the grid ceiling for better accoustic solution. The overall design shall be combination of grid ceiling and plain gypsum board ceiling with level difference at an height of 6.0 meters. | 634.68 | sqm | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **3** | | Accoustical wall paneling - Providing and fixing accoustical wall paneling by frame of GI/aluminium or first quality plwood and then filling the frame with 50mm thickness and 16 kg/cumt rock/mineral wool, made up of thermally and accoustically efficient fiberized glass bonded with thermosetting resin (SIPLA/TWIGA or equivalent make) as sub base, then wire chicken mesh and gypsum board to be screw fixed to the frame and finally finished with fabric fixed with special PVC clips (without stiching or nails) | **755.30** | sqm | | | |
| **4** | | Providing and fixing 14mm thick engineered wooden floor with underlay of PERGO, EGO or equivalent company for stage. | 168.00 | sqm | | | |
| **5** | | Providing and fixing loop pile carpet with underlay protection of 12mm. Specification attached. | 511.68 | sqm | | | |
| **6** | | Providing and fixing accoustical doors of 2.0m x 2.1m with door frame. | 8.00 | Each | | | |
| **7** | | Providing and fixing fins on the stage - Fins made up of 65mm thick partition of aluminium frame of cross section 38mm x 38mm and 12mm termite, borer proof board on both side, finished with 1.0mm thick laminate on both sides. The height of fins shall be 2100mm and width 1200mm and it shall be tied at top for stability. | 6.00 | Each | | | |
| **8** | | Providing and fixing motorised curtain on stage , motors of vista levolar or SOMFY, sliding sideways with cloth complete, provision of aluminium tracks of vista levolar with rubber belts (thread belts are not acceptable) overhead, remote operated, inclusive of 18mm thick board frame work/box required to hide the aluminium tracks and motor. | 2.00 | Each | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **9** | | Providing and fixing glazed wooden partition 65mm thick made out of aluminium of cross section 38mm x38mm framework, verticals and horizontals shall be spaced at 600mm center to center maximium, and then 12 mm thick termite and borer proof board to be screw fixed to framework, finally finished with 1.0mm thick decorative laminate of approved shade. The frame work above the ceiling shall not be measured. One way glass shall be fixed in the partition with help of teakwood bead as per instructions of PWD engineer. | 14.10 | sqm | | | |
| **10** | | Providing and fixing of MS tubular pipe truss for provision of stage light hanging, with complete surface treatment. | 750.00 | kg | | | |
| **11** | | Providing and fixing Tip-up chair of M/s KUNDAN CHAIRS company as per attached specification | 500.00 | each | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 3.7 | Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required. | | | | | |
| a | 3.7.1 | Short Point | 10 | Point | | | |
| b | 3.7.2 | Medium Point | 20 | Point | | | |
| c | 3.7.3 | Long Point | 25 | Point | | | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13 | 3.9 | Extra for providing and fixing light plug point on board in concealed PVC conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required. | 20 | Point | | | |
| | | | | | | | |
| 14 | 3.1 | Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required. | | | | | |
| a | 3.10.4 | Extra Long Point I | 5 | Point | | | |
| b | 3.10.5 | Extra Long Point II | 5 | Point | | | |
| c | 3.10.6 | Extra Long Point III | 5 | Point | | | |
| | | | | | | | |
| 15 | 3.11 | Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required. | | | | | |
| a | 3.11.1 | Short Point | 2 | Point | | | |
| b | 3.11.2 | Medium Point | 2 | Point | | | |
| c | 3.11.3 | Long Point | 2 | Point | | | |
| d | 3.11.4 | Extra Long Point I | 2 | Point | | | |
| e. | 3.11.5 | Extra Long Point II | 5 | Point | | | |
| f | 3.11.6 | Extra Long Point III | 5 | Point | | | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 16 | 3.12 | Wiring for power plug point with 2x6 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 32 Amp SPMCB "C" series and 6 pin 20 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required. | | | | | |
| a | 3.12.4 | Extra Long Point I | 5 | Point | | | |
| b | 3.12.5 | Extra Long Point II | 8 | Point | | | |
| c | 3.12.6 | Extra Long Point III | 8 | Point | | | |
| | | | | | | | |
| 17 | 3.13 | Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed PVC conduit as required. | | | | | |
| a | 3.13.1 | 3 X 1.5 sq. mm in 20mm conduit | 150 | Meter | | | |
| b | 3.13.2 | 3 X 2.5 sq. mm in 20mm conduit | 200 | Meter | | | |
| c | 3.13.3 | 6 X 2.5 sq. mm in 25mm conduit | 100 | Meter | | | |
| d | 3.13.4 | 9 X 2.5 sq. mm in 32mm conduit | 85 | Meter | | | |
| | | | | | | | |
| 18 | 3.15 | Supplying and fixing of following sizes PVC conduit along with accessories in concealed complete as required. | | | | | |
| a | 3.15.1 | 20 mm | 200 | Meter | | | |
| b | 3.15.2 | 25 mm | 200 | Meter | | | |
| | | | | | | | |
| 19 | 3.16 | Extra for providing modular starter in power point wiring instead of modular 32 amp SPMCB and 16 amps socket outlet as required. | 20 | Point | | | |
| | | | | | | | |
| 20 | 7.4 | Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as required. | | | | | |
| a | 7.4.1 | 5/6 amps one way switch | 30 | Each | | | |
| b | 7.4.4 | 15/16 amp switch | 15 | Each | | | |
| c | 7.4.5 | 3 pin 5/6 amp socket outlet | 15 | Each | | | |
| d | 7.4.6 | 6 pin 15/16 amp socket outlet | 15 | Each | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| e | 7.4.7 | 6 pin 20 amp socket outlet | 15 | Each | | | |
| | | | | | | | |
| 21 | 8.7 | Supplying, installation, testing and commissioning of following sizes fancy exhaust fan having built in lovers in existing opening in wall including earthing etc. complete as required. | | | | | |
| a | 8.7.2 | 300 mm sweep | 6 | Each | | | |
| | | | | | | | |
| 22 | 8.8 | Supplying, installation, testing and commissioning of following surface/ concealed type fluorescent fitting (luminaries) complete with copper ballast, glow type starter but without fluorescent lamp, on ceiling/ wall surface, earthing the fitting etc. as required. | | | | | |
| a | 8.8.2 | 4' x 40 W single box type | 15 | Each | | | |
| | | | | | | | |
| 23 | 8.19 | Supplying, fixing, testing and commissioning of following 230/250 volts fluorescent lamp (tube) in existing lighting luminaries as required. | | | | | |
| a | 8.19.1 | 4' x 36/40 watt | 15 | Each | | | |
| | | | | | | | |
| 24 | NON-SOR | COB Based LED Down lighter, adjustable type with white powder coated aluminium housing, Die cast Aluminum Housing. Heat sink - Die cast Aluminum. Reflector - 40 Deg anodised aluminum CRI Rating – 80. CCT - 3000 K / 5700 K. Wattage -45W,**(Make:- OSRAM, BAJAJ,PHILIPS)** | 50 | Each | | | |
| | | | | | | | |
| 25 | | **STAGE LIGHT** | | | | | |
| a | Non-sor | PAR CAN - 64 house light narrow | 8 | Each | | | |
| b | Non-sor | Multi Tan - 1000 Watts | 4 | Each | | | |
| c | Non-sor | Raytech - 24 KW 6 Channel DMX operated | 1 | Each | | | |
| d | Non-sor | LED PAR 36 X 3 (R-5 , L-5 Back- 8 ) | 18 | Each | | | |
| e | Non-sor | LED PAR 36 X 3 front | 6 | Each | | | |
| f | Non-sor | Pilot - 2000 | 1 | Each | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| g | Non-sor | Smoke - 1500 W | 2 | Each | | | |
| h | Non-sor | 12 Core 1.5mm Cable | 90 | Each | | | |
| i | Non-sor | Signal Cable 2 Mtr M/F | 40 | P.Mtr | | | |
| j | Non-sor | Signal Cable 10 Mtr M/F | 15 | P.Mtr | | | |
| k | Non-sor | 4 Sqmm2 core cable | 65 | P.Mtr | | | |
| l | Non-sor | splitter LBT or A -Pro | 1 | Each | | | |
| m | Non-sor | Gate Way Paper | 10 | Each | | | |
| n | Non-sor | Flicker | 1 | Each | | | |
| o | Non-sor | Clamp for light Hanging | 40 | Each | | | |
| | | | | | | | |
| | | **Ductable type package Airconditioning system (Make:- Bluestar, Daikin, Carrier)** | | | | | |
| 26 | Non-Sor | Supplying, installation, testing and commissioning of 25.5 **TR, programmable microprocessor based, Air-cooled Package Type DX units** complete with condensing unit, scroll compressor, air- cooled condenser with fan and evaporator,interconnecting refrigerant piping with indoor and outdoor units,pre charge refrigerant necessary insulation. Microprocessor Based Control Panel should be capable for , Cooling controls and interlocking with control wiring etc. complete with following and as per specifications and requirement. | 2 | Nos. | | | |
| | | **Indoor Unit** | | | | | |
| | | a) Fan Section and canvass connection (Double Skin Type) with mixing box and thermal break profile. | | | | | |
| | | b) Backward curved Centrifugal Blower with Capacity of 10000 CFM and 70mm Static Pressure. | | | | | |
| | | c) Cooling Coil Section/ s with 25.5 TR cooling coil/ s as per specifications.(8.5 TR. X 3 Nos.) | | | | | |
| | | d) Pre Filter with filter section as required. | | | | | |
| | | e) Drain Pan and Drain Connection. | | | | | |
| | | f) Drive motor, Drive arangement guard etc. | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | g) Necessary vibration isolator and supporting arrangements. | | | | | |
| | | h) Fresh air intake arrangement, necessary water drain and air purge valve wherever required etc. | | | | | |
| | | i) Canvass connection ,necessary foundations, | | | | | |
| | | | | | | | |
| | | **Outdoor Unit for above** | | | | | |
| | | Suitable Air Cooled Type Condenser with Aluminium Fins & Copper Tube Coils for above indoor unit. | | | | | |
| | | b) Scroll Type Hermetically sealed Comperssors. | | | | | |
| | | c) Suitable condenser fans for the condensing unit. | | | | | |
| | | d) necessary hard drawn copper refrigerant piping ,control cabling from indoor unit to outdoor unit and drain piping 12Mtr per circuit with kinnifoam insulation along with clamps,supports,fittings such as valves,y-strainer, bends,tees,reducers ,expansion valves , Drier Filters etc complete as per specfications and requirement | | | | | |
| | | **DUCTABLE SPLIT TYPE A/C** | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 27 | Non-Sor | Supply, installation, testing and commissioning of ceiling mounted ductable split type air conditioners of following capacity complete with hermetically sealed compressor, fan section with fan & motor, air cooled condenser, filter section with filters,required no. of strip heaters with fixing arrangement in the plenum, interconnecting refrigerant piping with refrigerant & necessary electrical power cabling,control cabling, earthing, supports, controls,necessary safety measures and voltage stablizer & electrical panel,necessary fresh air intake arrangement,necessary GI drain piping of required size & required length from indoor unit to suitable drain location, complete in all respect as per specifications, drawing & technical schedule. | | | | | |
| a | Non-Sor | 11.0 TR capacity. ( 5.5 TR. X 2Nos.) | 2 | Nos. | | | |
| b | Non-Sor | 5.5 TR capacity. | 2 | Nos. | | | |
| c | Non-Sor | Extra Refrigerant Piping for 11 TR | 20 | Rmt. | | | |
| d | Non-Sor | Extra drain piping | 16 | Rmt. | | | |
| | | | | | | | |
| | | **GSS DUCTING**<br>**(Make:- Jindal , Sail)** | | | | | |
| 28 | | Supply, installation, testing and balancing of G.S.S ducting of following thickness including necessary supports, hangers, nut bolts, gaskets, splitter dampers, vanes canvass connections etc. complete as per specifications : (Rectangular , Round or Oval) | | | | | |
| a | Non-Sor | 24 gauge | 365 | Sqm. | | | |
| b | Non-Sor | 22 gauge | 361 | Sqm. | | | |
| c | Non-Sor | 20 gauge | 229 | Sqm. | | | |
| | | | | | | | |
| | | **FIRE DAMPERS** | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 29 | Non-Sor | Supply, installation, testing and commissioning of motorized combined smoke & fire dampers made out of GI sheet of at least 120 minutes fire rating complete with GI damper of required size, smoke sensor,. | 1 | Sqm | | | |
| 30 | Non-Sor | Actuator & Control panels | 1 | Nos. | | | |
| | | | | | | | |
| | | **JET NOZZLE DIFFUSER** | | | | | |
| 31 | Non-Sor | Supply, Installation, testing and balancing of Eye Ball Diffusers with double skin supply air diffusers of powder coated extruded aluminium construction with attached Butterfly volume control dampers | 30 | Nos. | | | |
| | | | | | | | |
| | | **Flexible Duct** | | | | | |
| 32 | Non-sor | Sypplying installing, testing and commissioning of testing insulated GI flexible duct of 300mm dia | 50 | RMT | | | |
| | | | | | | | |
| | | **VOLUME CONTROL DAMPERS** | | | | | |
| 33 | Non-Sor | Supply, installation and testing of volume control dampers of GI sheet, box type to be provided in ducts complete with suitable links, levers and quadrants for manual control of air volume and air balancing | 2 | Sqm | | | |
| | | **GRILLES** | | | | | |
| 34 | | Supply, installation, testing and balancing of supply/ return air grilles with/ without volume control dampers of powder coated extruded aluminium construction suitable for installation in walls, false ceiling boxing etc | | | | | |
| a | Non-Sor | Supply air grilles in single louvers with volume control dampers. | 3 | Sqm | | | |
| b | Non-Sor | Return air grilles in single louvers without volume control dampers. | 2 | Sqm | | | |
| | | | | | | | |
| | | **DUCTING INSULATION** | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 35 | Non-Sor | Supply and fixing of 13 mm thick foil faced FR Closed Cell Chemically Crossed Linked Poly Ethylene Foam insulation (fire retardant type) density not less than 33 Kg/ CuM, 'K' value not more than 0.028 Kcal/ degC with adhesive tape etc. on ducts complete for supply air ducting | 855 | Sqm | | | |
| | | | | | | | |
| | | **DUCT ACOUSTIC LINING** | | | | | |
| 36 | Non-Sor | Supply,application and fixing of resin bonded fibre glass hard board acoustic insulation in supply air ducting/ plenum covered with tissue paper and perforated aluminium sheet as specified. | 100 | Sqm | | | |
| | | | | | | | |
| | | **UNDER DECK INSULATION** | | | | | |
| 37 | Non-Sor | Supplying installing, testing and commissioning of under deck insulation with 50mm thick TF quality EPS insulating material. | 602 | Sqm | | | |
| | | | | | | | |
| 38 | Non-Sor | Supply, installation, testing, commissioning and balancing of fresh air opening comprising of powder coated extruded aluminium louvers with bird screen, projection with frame and volume control damper with lever mounting arrangement etc. as per specifications and drawings. | 1 | Sqm | | | |
| | | | | | | | |
| | | **AHU PANEL** | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Non-Sor | Supply, installation, testing and commissioning of cubicle type totally enclosed wall/ floor mounted free standing type, dust, damp and vermin proof for AHU made of 2mm thick CRCA sheet steel in compartmentalized design as per specification and drawings. These distribution boards shall be mounted on 50x50x6 MS angle frame work grouted to floor/ walls of recessed. The rate includes the angle iron frame, support, painting, numbering, earthing etc. as required | | | | | |
| | | | | | | | |
| | | **AHU STARTER PANEL** | | | | | |
| | | **INCOMER :** | | | | | |
| A | Non-Sor | 2 No. 100 Amps 25 KA FP MCCB, 2 no of 0-125 amp ammeter with selector switch & CT's , 1 no. 0-500 volt voltmeter with selector switch & fuses , 1set of indicating lights (RYB). | 1 | SET | | | |
| | | **Bus Bar** | | | | | |
| | | 100 A TPN Aluminium bus bar 415V , 50 Hz. | | | | | |
| | | | | | | | |
| | | **OUTGOINGS :** | | | | | |
| B | Non-Sor | 2 set - 63 A, 415 V 15 KA FP MCCB, single phase preventor, suitable starter for 7.5/ 10 HP motor with thermal overload protection and spare NO-NC contacts for interlocking, ON-OFF indication lamps with push button for AHU motor as required. | 1 | SET | | | |
| | | 2 set - 32 A, 415 V 15 KA FP MCCB , as spares. | | | | | |
| | | 2 set - 16 A, 415 V 10 KA FP MCCB . | | | | | |
| | | **Complete panel as above** | | | | | |
| | | | | | | | |
| | | **SOUND SYSTEM (Make:- Studiomaster, Yamaha, Shure.)** | | | | | |
| 40 | | **PROGRAM SOURCES** | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 40.1 | Non-sor | FEATURES<br>• Cardioid pickup pattern ensure excellent on-axis pickup<br>• Designed for higher gain & less feedback<br>• Natural & fuller tone<br>• Suspended cartridge shock-mount system minimizes handling noise<br>• Low-failure magnetic On-Off switch<br>• Rugged body & dent-proof steel grill that withstands physical shocks<br>• Ideal microphone for vocals, choirs, instruments, speech programs & various PA applications | 2 | set | | | |
| | | | | | | | |
| 40.2 | Non-Sor | FEATURES<br>• Tailored frequency response designed for a variety of Indian & western Instruments and rich vocal application<br>• Dynamic cardioid pickup pattern minimizes off-axis pick-up, reduced feedback and higher system gain<br>• Suspended cartridge shock-mount system, to minimize handling noise<br>• Low-failure magnetic on-off switch<br>• Rugged body that withstands, physical shocks<br>• 6.5M flexible XLR-Jack cable<br>• Supplied with a 180 degree swivel break-resistant clamp-type stand adapter<br>• Supplied in a rugged plastic storage case | 2 | set | | | |
| | | | | | | | |
| 40.3 | Non-Sor | Hand-held wireless Microphone system - UHF | 2 | Each | | | |
| 40.4 | Non-Sor | Collar (with head band ) wireless microphone system - UHF | 1 | Each | | | |
| | | | | | | | |
| 40.5 | Non-Sor | Features<br>• Professional high quality 21" gooseneck microphone<br>• Sleek and unobtrusive design<br>• High sensitivity allows superior vocal reproduction<br>• High gain before feedback<br>• Built-in XLR socket<br>• Supplied with Microphone Base with On/Off Switch & LED<br>• Works on external +48V phantom supply | 2 | Set | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | • Anti Mobile & RF Interference Technology | | | | | |
| | | | | | | | |
| 40.6 | Non-Sor | CD/DVD/USB/Blueray Player | 1 | Each | | | |
| | | | | | | | |
| 41 | | **MIXING CONSOLE** | | | | | |
| 41.1 | Non-Sor | Input<br>Mic / Line Input Level + 11dBu/+31dBu<br>stereo Line input level +33Bu | 1 | Set | | | |
| | | output<br>L/R Line Outputs + 22dBu<br>Aux Output +22dBu | | | | | |
| | | | | | | | |
| | | **Equalizer** | | | | | |
| | | **For Stereo Input** | | | | | |
| | | High :+/-15dB at 12KHz, Mid : +/-15dB @ 1.6KHz, Low : +/-15dB at 45Hz | | | | | |
| | | **For Mono Input** | | | | | |
| | | High :+/-15dB @ 12KHz, Mid : +/-15dB @ 350 - 6KHz, Low : +/-15dB @ 60Hz | | | | | |
| | | **Frequency Response** | | | | | |
| | | Mic to L-R output : 20Hz to 20KHz | | | | | |
| | | **FX ( EFFECTS )Only Platinum MKIII** | | | | | |
| | | 16 bit ( 32 bit internal ) Digital Stereo effects | | | | | |
| | | **Ac Power Requirements** | | | | | |
| | | 220-240 Volts 50Hz | | | | | |
| | | **features** | | | | | |
| | | • Gain control, 3 band EQ with mid – sweep on mono channel | | | | | |
| | | • 2 aux sends/ 1 stereo aux returns | | | | | |
| | | • 12 segments L/R LED meter for Master, PFL and Monitor level | | | | | |
| | | • L/R pan pot, listen and group/ Master routable switch | | | | | |
| | | • Stereo 7 band graphic EQ switchable to Master/Monitor | | | | | |
| | | • Stereo tape in/tape out, Headphone out with rotary volume control | | | | | |
| | | • 48 V phantom power switch | | | | | |
| | | • ¼ TRS Balanced and XLR Main out, line out, monitor out | | | | | |
| | | • 147 preset effects with 4-memory switch and on board help. | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | • Separate master fader controls for group, monitor and | | | | | |
| | | | | | | | |
| 42 | | **SIGNAL PROCESSORS** | | | | | |
| 42.1 | Non-Sor | 2 in 6 out Digital sound management System | 1 | Each | | | |
| | | | | | | | |
| 43 | | **AMPLIFIERS** | | | | | |
| 43.1 | Non-Sor | **Features** | **2** | Set | | | |
| | | • Rugged & Reliable Stereo Power Amplifier. | | | | | |
| | | • EQ Processing, Low Cut, Subwoofer selection options on rear panel. | | | | | |
| | | • Stereo, Bridge & Parallel mode selection switch. | | | | | |
| | | • Protection: Temperature DC Short Circuit. | | | | | |
| | | • Input: Balanced XLR & 1/4" Jack. | | | | | |
| | | • Output: Speakon & Binding Post Connectors. | | | | | |
| | | • Mains voltage operation 220VAC-240VAC as well as low voltage operation (150VAC). | | | | | |
| | | • Large cooling Fan. | | | | | |
| | | • 19" rack mountable. | | | | | |
| | | | | | | | |
| 43.2 | Non-Sor | **Features** | **1** | Set | | | |
| | | • Balanced / unbalanced inputs signal through parallel XLR connector in both channels | | | | | |
| | | • Output termination on 4 way speakon connectors and binding posts for each channel | | | | | |
| | | • Selectable slide switch for stereo, parallel & bridge mono amp modes | | | | | |
| | | • Selectable sensitivity slide switch for ( 0.775V , 1V or 1.4V) | | | | | |
| | | • Selectable slide switch for low-cut (30Hz) on/off | | | | | |
| | | • Selectable slide switch for ground lift in case of ground loops | | | | | |
| | | • Selectable Slide Switch for HF Limiter | | | | | |
| | | • Signal and Clip LED indicators to monitor performance | | | | | |
| | | • Front mounted detent gain controls for easy access | | | | | |
| | | • Fast recovery design for lower distortion if clipping occurs | | | | | |
| | | • Low THD and high damping factor for excellent sound quality | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | • Advanced protection circuitry guards against: short circuit, open circuit, thermal, and DC<br>• Two variable speed fans<br>• 19” rack mountable Rugged housing | | | | | |
| | | | | | | | |
| 44 | Non-Sor | **MAIN HOUSE LOUDSPEAKER LINE ARRAY**<br>**Features**<br>• 12 Channel Mixer (12 Balanced Mic-Line Inputs)<br>• Gain control with 3 Band EQ per channel<br>• 2 Aux Sends/ Returns<br>• 1 Pre and 1 Post Aux Sends Rotary Control per Channel<br>• L/R Pan Pot, Mute Switch and Clip LED per Channel<br>• Stereo Tape in/tape out, Headphone out<br>• 12 segments L/R LED meter for Master Level<br>• ¼ TRS Balanced L/R Main Output | **2** | Set | | | |
| | | | | | | | |
| 45 | Non-Sor | **Features**<br>• Fast, integral rigging system with variable splay angles.<br>• HF frequency attenuation by selection of throw (long, medium, short)<br>• High acoustic output.<br>• Coverage Pattern: 100 degree x 15 degree nominal (horizontal x vertical), single unit<br>• Extra textured anti-scratch paint finish<br>• High-quality passive crossover network for maximum reliability.<br>• Flexible ground stack capability. | **8** | set | | | |
| | | | | | | | |
| 46 | Non-Sor | **Features**<br>• Excellent quality RCF components used<br>• State of the art crossover design to enhance the frequency response<br>• Suitable for installations & touring<br>• Easy carry handles & Heavy Duty protective steel grille<br>• Exceptional sound quality, powerful response & broad dynamic range | **2** | Set | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | • High power & High Efficiency<br>• High grade & durable cabinet design<br>Type<br>Sub-Woofer<br>**System**<br>**Frequency Range**<br>40 Hz - 200 Hz<br>**System Sensitivity**<br>98dB, 1W@1m<br>**Maximum SPL**<br>134dB @1m<br>**Impedance**<br>8 ohms<br>**Power Output ( RMS)**<br>1000W / 2000W<br>**Continous / Peak**<br>**Crossover**<br>**Transducers (Powered by RCF)**<br>**Low Frequency**<br>18" Woofer with<br>**High Frequency**<br>4" Voice Coil | | | | | |
| | | | | | | | |
| 47 | Non-Sor | **Features**<br>• Excellent Sound Clarity & Punch<br>• Ultra-compact and light weight design<br>• Bi-Amplified design for maximum efficiency<br>• Balanced Combo XLR & Jack Input<br>• Convenient Line output to link with additional speakers<br>• Built-in soft clip limiter to avoid distortion<br>• Integrated Stand mounting socket<br>• Ergonomically shaped handle for easy carrying and setup | **4** | Set | | | |
| | | | | | | | |
| **48** | | **ACCESSORIES** | - | | | | |
| 48.1 | Non-sor | Microphone Connector Boxes for Stage ( 4 x FXLR panel type) | 2 | Each | | | |
| 48.2 | Non-sor | Monitor Speaker Connector Boxes for Stage (2 x XLR panel type) | 2 | Each | | | |
| 48.3 | Non-sor | Equipment Rack 32U | 1 | Each | | | |
| 48.4 | Non-sor | Loudspeaker cable 48/0.2mm | 500 | P.MTR | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | (meters) | | | | | |
| 48.5 | Non-sor | 2-core ABC 19/0.122mm shielded microphone cable (meters) | 500 | P.MTR | | | |
| 48.6 | Non-sor | SL40 Kit including fly-bar and locking pins | 2 | Each | | | |
| 48.7 | Non-sor | Microphone Stand model BMS-101 | 2 | Each | | | |
| 48.8 | Non-sor | Microphone Stand - Big | 2 | Each | | | |
| 48.9 | Non-sor | Microphone Stand - Small | 4 | Each | | | |
| 48.10 | Non-sor | Set of miscellaneous connectors including Neutrik Powercon | 30 | set | | | |
| 48.11 | Non-sor | Set of cables and patch cords | 30 | set | | | |
| 48.12 | Non-sor | Servo Stablizer 10KVA | 1 | Each | | | |
| 48.13 | Non-sor | Rigging set for flying arrey (Chain Pulley Arrangement) | 2 | set | | | |
| 48.14 | Non-sor | Wall Stands for Active Speakers | 4 | Each | | | |
| 48.15 | Non-sor | Flight Case for Microphones | 1 | Each | | | |
| 48.16 | Non-sor | Flight Case for Mixer | 1 | Each | | | |
| | | | | | | | |
| **49** | Non-Sor | **Installation, Testing & Commissioning** | **1** | set | | | |
| | | Drawing and laying of speaker and microphone cables | | | | | |
| | | Installation charges for equipment and accessories | | | | | |
| | | Equalization of sound system for increasing acoustic gain | | | | | |
| | | before onset of feedback and enhancing naturalness of | | | | | |
| | | reinforced sound | | | | | |
| | | Measurement of Speech Transmission Index | | | | | |
| | | Measurement of Sound Pressure levels by pink noise | | | | | |
| | | excitation of sound system | | | | | |
| | | | | | | | |
| 50 | | **FIRE ALARM SYSTEM (Make:- Edward, Notifire,GST,Simplex)** | | | | | |
| | | - | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | Non-sor | **INTELLIGENT ADDRESSABLE FIRE DETECTION CONTROL** PANELMicroprocessor based intelligent and electronically addressable and having networking capablity each loop consist of minimum 125 detector & 125 devices ) fire alarm control panel with minimum 960 character LCD display, multiple access levels, event history file in non-volatile memory (EEPROM). The panel shall have capability to be connected to Graphic Monitoring System or BMS system.The panel shall support programmable relay for controlling lifts, staircase pressurizations fans, lift shaft & lift lobby pressurization fans, toilets exhaust fans, ventilation fans at fire pump room, monitoring of fire sprinkler and fire hydrant pump controlled by powerful Boolean logic equation. The panel shall have 240 volts AC power supply, automatic battery charger, 24 volts, sealed lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 30minutes during emergency condition. The panel shall be UL listed. | **1** | Each | | | |
| | | | | | | | |
| **B** | | **MODULES, ALARM INITIATING DEVICES,HOOTER,ETC** | | | | | |
| i | Non-sor | UL/EN / VDF LISTED Fault isolator BASE module for isolating shorted, dewired and loose circuits between two successive fault with automatic resetting arrangement. | **10** | Each | | | |
| | | | | | | | |
| ii | Non-sor | UL/EN / VDF LISTED Intelligent and electronically addressable , optical multi criteria detector (smoke + Heat) with microprocessor in head, and including the base with LED etc as per specification. | **180** | Each | | | |
| | | | | | | | |
| iii | Non-sor | UL/EN / VDF Addressable manual pull station as per specification | **2** | Each | | | |
| | | | | | | | |
| iv | Non-sor | UL/EN / VDF LISTED wall mounted Hooter / Stobe/ Stobe cum Hooter as per sepcifications | **2** | Each | | | |
| | | | | | | | |
| v | Non-sor | UL/EN / VDF listed control module | **5** | Each | | | |
| | | | | | | | |
| vi | Non-sor | Response Indication | **50** | Each | | | |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| vii | Non-sor | UL/EN / VDF LISTED Addressable monitoring module to connect NO/NC contacts such flow switches (provided by Fire fighting contractor). However testing and commissioning shall be included in the fire detection and alarm system contractor scope. | **5** | Each | | | |
| | | | | | | | |
| viii | | Supplying, installing, testing & commissioning of cabling for fire detection and alarm system with 2 core annealed tinned copper conductor PVC sheathed, flexible, unarmoured cables as per specifications in existing conduits complete as required. | | | | | |
| a | Non-Sor | 2C X 1.5 SQ mm for loop ,power cable | **3000** | P.Mtr. | | | |
| | **TOTAL** | | | | | | |

**NOTE:-** The BOQ provided is only for guideline of quantity, No Claim shall be entertained for addition executed quantity or any other item required to full fill the project as per norms and satisfaction of committee.

**Annexure – IV**

# AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statement made in the required attachment are true and correct.

2. The undersigned also hereby certifies that neither our firm M/S ---------- ---------- have abandoned any work nor any contract awarded to us for such works have been rescinded, during last three years prior to the date of this bid.

3. The undersigned hereby authorize (s) and request (s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Superintending Engineer, Public works Department, Raipur, Circle No. - 1, Raipur, Sirpur Bhawan, Civil Lines, Raipur (C.G.) to verify this statement or regarding my (our) competence and general reputation.

4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Superintending Engineer, Public works Department, Raipur , Circle No. - 1, Raipur, Sirpur Bhawan, Civil Lines, Raipur (C.G.)

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(Signed by an Authorised Officer of the Firm)

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Title of Officer

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Name of Firm

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DATE

**Annexure – V**

# AFFIDAVIT (Clause 22)