



# वर्धमान महावीर खुला विश्वविद्यालय, कोटा

## रावतभाटा रोड कोटा (राज0)– 324021

web:<http://www.vmou.ac.in>, e-mail:[estate@vmou.ac.in](mailto:estate@vmou.ac.in) Tel 0744-2797297

### ऑन लाइन बोली सूचना संख्या 27 / 2024–25 (E-Tender)

वर्धमान महावीर खुला विश्वविद्यालय, कोटा द्वारा विश्वविद्यालय परिसर स्थित संत सुधसागर सभागार भवन को Turn Key Basis पर सुसज्जित (सिविल कार्य, इलैक्ट्रिक कार्य, एयर कंडीशनिंग एवं साउण्ड संबंधी कार्य) करने हेतु ई-निविदाएँ आमंत्रित की जाती है। इच्छुक अनुभवी निविदादाताओं से ई-उपापन प्रक्रिया के माध्यम से दिनांक 17.10.2024 प्रातः 10.00 बजे से दिनांक 06.11.2024 सांय 05.00 बजे तक ऑनलाईन बोली आमंत्रित की जाती है। बोली से सम्बन्धित समस्त विवरण वेबसाइट [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in) कार्यालय वेबसाइट <https://vmou.ac.in> एवं [www.sppp.rajasthan.gov.in](http://www.sppp.rajasthan.gov.in) पोर्टल पर देखा जा सकता है। बोलियों का विवरण निम्नानुसार है:-

Name of work	Estimated Cost	Bid Security Rs.	Bid fees Rs.	Processing fees Rs.	Date of Availability of tender	Last Date of receiving of Demand Drafts	Eligibility bid Opening Date	Completion Period
Sant Sudhasagar Sabhagar Bhawan is to be equipped (civil, electric, air conditioning work and sound system related work) on Turn Key Basis	150.00 Lacs	300000/-	3000/-	2000/-	17/10/2024 10.00 am to 06/11/2024 up to 5 pm	07/11/2024 up to 12.30 PM	07/11/2024 at 2:00 pm	06 Months

The detailed information about above mentioned work has been given in the tender document which may either be downloaded from <http://www.eproc.rajasthan.gov.in>, [www.sppp.rajasthan.gov.in](http://www.sppp.rajasthan.gov.in) or University website [www.vmou.ac.in](http://www.vmou.ac.in). Bidder can participate in the tendering process only Online using <http://www.eproc.rajasthan.gov.in> website. Bidders should have a valid DSC before bidding. Demand Draft for Bid Security & Bid fee will be in favour of “VardhmanMahaveer Open University” Payable at Kota.

Demand Draft for Processing Fee will be in favour of “MD, RISL” Payable at Jaipur.

Pre-bid meeting will be held on 22.10.2024 at 11:30 AM in committee room of VC Sectt.

All Demand Draft should Reach to O.I.C. (Estate), VardhmanMahaveer Open University, Administrative Building, Room No. 3, Rawatbhata Road, Kota-324021 sealed in an envelope titled “संत सुधसागर सभागार भवन को Turn Key Basis पर सुसज्जित करने बाबत निविदा” by 07/11/2024 up to 12:30 PM. failing which bid shall not be considered. Corrigendum if any, will be published on these websites only.

**Comptroller, Finance**

प्रतिलिपी: सूचनार्थ एवं आवश्यक कार्यवाही हेतु :-

1. सचिव कुलपति, वर्धमान महावीर खुला विश्वविद्यालय, कोटा।
2. संयुक्त शासन सचिव, उच्च शिक्षा(ग्रुप-4) विभाग, राजस्थान सरकार।
3. कुलसचिव, वर्धमान महावीर खुला विश्वविद्यालय, कोटा।
4. रक्षित पत्रावली

**Comptroller, Finance**



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वर्धमान महावीर खुला विश्वविद्यालय, कोटा

–: निविदा प्रपत्र :-

**NIB No. 27/2024-25**

- कार्य का नाम :- संत सुधसागर सभागार भवन को Turn Key Basis पर सुसज्जित करना
- निविदा प्रस्तुत करने वाली फर्म का नाम एवं पता.....  
.....दूरभाष नम्बर.....
- प्रोपराइटर का नाम एवं मोबाइल नम्बर .....
- निविदा पर हस्ताक्षर करने हेतु प्राधिकृत व्यक्ति का नाम .....
- ( अधिकृति पत्र ( authorization letter ) पत्र संलग्न किया जावे ) मोबाइल नं. ....
- जी.एस.टी. रजिस्ट्रेशन क्रमांक.....
- पैन नम्बर .....
- हस्ताक्षरित निविदा शर्त अनेक्सर–A to D सहित
- PWF&AR के नियमानुसार वांछित श्रेणी में पंजीकृत फर्मों (फर्मों के पंजीयन प्रमाण पत्र भी निविदा के साथ संलग्न करने होंगे ) के निविदादाता के पक्ष में सहमति पत्र/अधिकृति पत्र .....
- विगत तीन वर्षों ( 2023–24 / 2022–23, 2021–22, 2020–21 ) में प्रतिवर्ष 125.00 लाख रुपये टर्नओवर सर्टिफिकेट (सी.ए. का सर्टिफिकेटमय UDIN व ऑडिट रिपोर्ट संलग्न करनी होगी).....
- निविदा प्रपत्र शुल्क राशि रुपये 3000 /– का डी0डी नं0 .....दिनांक .....
- बोली प्रतिभूति (धरोहर)राशि रुपये 300000 /– का डी0डी न. ....दिनांक .....
- निविदाप्रक्रिया शुल्क राशि रुपये 2000 /– का डी0डी न. ....दिनांक .....
- हम नियंत्रक (वित्त), वर्धमान महावीर खुला विश्वविद्यालय, कोटा द्वारा जारी की गयी निविदा सूचना संख्या 27 / 2024–25 दिनांक 15.10.2024 में वर्णित समस्त शर्तों से बाध्य होना स्वीकार करते हैं। इनके समस्त पृष्ठों पर उल्लेखित शर्तों को हमारे द्वारा स्वीकार किये जाने के प्रमाण में हस्ताक्षर कर दिये हैं।

हस्ताक्षर निविदादाता मय मोहर

–:निविदा की सामान्य शर्तें:–

- 1 बोली प्रपत्रों को वेबसाइट [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in), [www.vmou.ac.in](http://www.vmou.ac.in) एवं [sppp.rajasthan.gov.in](http://sppp.rajasthan.gov.in) से डाउनलोड किया जा सकता है। इस बोली में भाग लेने वाले बोलीदाताओं को बोलियों को इलेक्ट्रॉनिक फोरमेट में वेबसाइट [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in) पर अपलोड कराना होगा।
- 2 बोली की समस्त प्रक्रिया ऑनलाइन होगी।
- 3 बोलियाँ खोलने की तिथि को किसी कारणवश यदि बोलियाँ नहीं खोली जा सकती हैं तो उसके अगले कार्य दिवस को खोली जावेगी।
- 4 डिमाण्ड ड्राफ्ट–निविदा प्रपत्र राशि रूपये 3000/–(NON-REFUNDABLE) एवं बोली प्रतिभूति (Bid Security) राशि रूपये 3,00,000/– जो VARDHMAN MAHAVEER OPEN UNIVERSITY, KOTA के नाम देय हो और निविदा प्रक्रिया शुल्क राशि रूपये 2000/– जो कि MD RISL, JAIPUR के नाम देय होगा (NON-REFUNDABLE)। समस्त डिमाण्ड ड्राफ्ट एक बन्द लिफाफे में दि० 07/11/2024 को दोपहर 12.30 बजे तक अधोहस्ताक्षरकर्ता के कार्यालय में जमा कराना अनिवार्य है, अन्यथा संबंधित फर्म की निविदा नहीं खोली जावेगी।
- 5 डिमाण्ड ड्राफ्ट की प्रति पात्रता बिड में अपलोड किया जाना सुनिश्चित करें।
- 6 पात्रता निविदा में निम्न दस्तावेजों को अपलोड किया जाना सुनिश्चित करें –
  - (a) जी.एस.टी. पंजीयन की प्रति (जीएसटी पंजीयन न्यूनतम 3 वर्ष पुराना होना चाहिए)
  - (b) अनेक्सर-02 में सहमति पत्र/अॅथोराईजन पत्र
  - (c) पेन कार्ड की प्रति।
  - (d) समस्त डिमाण्ड ड्राफ्ट की प्रति।
  - (e) कार्यानुभव– निविदा की विशेष शर्त संख्या 03 के अनुसार किसी राजकीय विभाग अथवा राजकीय उपक्रम द्वारा जारी कार्यपूर्णता प्रमाण पत्र की प्रति
  - (f) विगत तीन वर्षों ( 2023–24 / 2022–23, 2021–22, 2020–21) में प्रतिवर्ष 125.00 लाख रूपये टर्नओवर सर्टिफिकेट (सी.ए. का सर्टिफिकेट मय UDIN व ऑडिट रिपोर्ट संलग्न करनी होगी)
  - (g) हस्ताक्षरित निविदा दस्तावेज (मय अनेक्सर A, B, C, D)
  - (h) संवेदक को किसी राजकीय विभाग अथवा राजकीय उपक्रम द्वारा ब्लेक लिस्टेड घोषित नहीं किये जाने का घोषणा पत्र। (फर्म के लेटरहेड पर)
7. पात्रता निविदा में योग्य पाये जाने पर ही संबंधित फर्मों की ही वित्तीय निविदा खोली जावेगी। वित्तीय निविदा खोलने की तिथि पृथक से E-Proc पोर्टल पर सूचित की जावेगी।
8. किसी भी बोली को स्वीकार करने एवं बिना कारण बताए निरस्त करने का समस्त अधिकार उपापन संस्था (वर्धमान महावीर खुला विश्वविद्यालय, कोटा) को होगा।
9. सम्पूर्ण बोली प्रक्रिया या बोली प्रक्रिया के किसी भाग को निरस्त करने का पूर्ण अधिकार उपापन संस्था (वर्धमान महावीर खुला विश्वविद्यालय, कोटा) के पास सुरक्षित रहेगा।

10. प्रस्तुत निविदा पात्रता बिड खोलने की दिनांक से अधिकतम 90 दिवस बोली स्वीकृति हेतु मान्य (Valid) रहेगी। यदि बोलीदाता उस अवधि में अपनी बोली अथवा शर्तों में किसी प्रकार का संशोधन करता है अथवा अपनी बोली वापस ले लेता है तो उसकी बोली प्रतिभूति राशि जब्त कर ली जाएगी। निविदा की विधिमान्यता अवधि को आपसी सहमति से बढ़ाया जा सकेगा।
11. राज्य सरकार के किसी विभाग द्वारा किसी फर्म/कम्पनी के व्यवसायिक संव्यवहार पर रोक लगाई गई हो या ब्लेक लिस्टेड किया गया हो तो वह बोली प्रक्रिया में भाग नहीं लेवें अन्यथा सम्बन्धित फर्म/कम्पनी द्वारा कार्यालय में जमा की गई बोली प्रतिभूति राशि कार्यालय द्वारा जब्त की जा सकेगी।
12. निविदा प्रपत्रों में संलग्न Annexure-B निविदादाताओं की अर्हतायें Qualification of bidder की शर्तों का पालन करते हुए हस्ताक्षर किये जाये अन्यथा बाद में ज्ञात होने पर नियमानुसार कार्यवाही अमल में लाई जायेगी।
13. निविदादाता को निविदा में अपना/अपनी और से निविदा पर हस्ताक्षर हेतु अधिकृत व्यक्ति (जहाँ लागू हो) का नाम व पूर्ण पता, टेलिफोन/मोबाईल नम्बर अंकित करना होगा। साथ ही हस्ताक्षर हेतु अधिकृति पत्र संलग्न करना होगा।
14. Pre Bid Meeting के पश्चात् प्राप्त अभ्यावेदनो पर कोई विचार नहीं किया जावेगा। Pre Bid Meetingमें इच्छुक निविदादाता लिखित अभ्यावेदनों सहित उपस्थित हों। अभ्यावेदन (यदि कोई हो) Pre Bid Meetingसे आगामी कार्य दिवस को सॉय 5.00 बजे तक व्यक्तिशः अथवा ई-मेल estate@vmou.ac.inपर भिजवाये जा सकते है।
15. ई-टेण्डरिंग के लिए बोलीदाता हेतु निर्देशः-
  - अ. उक्त बोली-प्रक्रिया में भाग लेने वाले बोलीदाता को इन्टरनेट साइट [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in)पर रजिस्टर करवाना होगा। ऑनलाइन बोली-प्रक्रिया में भाग लेने के लिए डिजिटल सर्टिफिकेट इन्फोरमेशन टेक्नोलॉजी एक्ट, 2000 के अधीन प्राप्त करना होगा जो इलेक्ट्रॉनिक बिडिंग में हस्ताक्षर करने हेतु काम आएगा।
  - ब. इलेक्ट्रॉनिक बोली प्रपत्रों को अपलोड कराने से पूर्व बोलीदाता यह सुनिश्चित कर ले कि बोली प्रपत्रों से सम्बन्धित सभी आवश्यक दस्तावेजों की स्केन कॉपी बोली प्रपत्रों के साथ संलग्न कर दी गई है।
  - स. कोई भी बोलीदाता बोलियों को ऑनलाइन submit करने में किसी कारण से विलम्बित हो जाता है तो उसकी जिम्मेदारी विभाग की नहीं होगी। यहाँ यह भी स्पष्ट किया जाता है कि किसी भी परिस्थिति में ऑफलाइन बोली या अन्य दस्तावेज स्वीकार नहीं किए जाएंगे।
  - द. ऑनलाइन बोली भरते समय सम्बन्धित निर्देशों का पालन नहीं करने के परिणामस्वरूप बोली प्रक्रिया में उत्पन्न किसी प्रकार की बाधा के लिए विभाग जिम्मेदार नहीं होगा।

16. इस निविदा से संबंधित संशोधन (corrigendum) आदि [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in), [www.vmou.ac.in](http://www.vmou.ac.in) एवं [sppp.rajasthan.gov.in](http://sppp.rajasthan.gov.in) पर ही upload किये जावेंगे।
17. साझेदारी फर्म की स्थिति में साझेदारी संलेख (Partnership Deed/ Power of Attorney)की प्रति संलग्न करनी होगी। साझेदारी संलेख (Partnership Deed/ Power of Attorney) में अधिकृत व्यक्ति द्वारा हस्ताक्षरित बिड ही मान्य होगी। कम्पनी अथवा निजी कम्पनी की स्थिति में अधिकृत व्यक्ति द्वारा हस्ताक्षरित बिड स्वीकार की जा सकेगी। निविदा पर हस्ताक्षर हेतु Authorization / Board Resolutionकी प्रति ( जहां आवश्यक हो ) संलग्न करनी होगी।
18. निविदा की समस्त शर्तें तथा पत्र व्यवहार अनुमोदित निविदादाताओं से किये जाने वाले अनुबंध का भाग होती हैं जिससे निविदादाता तथा उपापन संस्था दोनों बंधित रहते हैं। अतः समस्त शर्तों को ध्यानपूर्वक पढकर निविदा भरी जाये। अनुबंधित शर्तों हेतु पृथक से पत्र व्यवहार नहीं किया जायेगा।
19. यदि फर्म द्वारा कार्य में देरी की जाती है तो समयावधि बढ़ाने, अपूर्ण कार्य की शास्ति इत्यादि के संबंध में आवश्यक कार्यवाही उपापन संस्था/अधिकृत प्राधिकारी द्वारा निविदा में वर्णित शर्तों, GF&AR एवं RTPP Rule 2013 के तहत की जावेगी।
20. किसी बिन्दु पर आपसी असहमति होने पर कुलपति, वर्धमान महावीर खुला विश्वविद्यालय, कोटा का निर्णय सर्वमान्य होगा।
21. आवश्यक होने पर तकनीकी समिति/क्रय समिति द्वारा चाहे गये स्पष्टीकरण निविदादाताओं द्वारा तीन दिवस अथवा पत्र में अंकित अवधि में प्रस्तुत किया जाना सुनिश्चित किया जावे अन्यथा इसके अभाव में निविदा निरस्त की जा सकेगी जिसके लिए Bidder स्वयं उत्तरदायी होगा।
22. निविदादाताओं को बिड भरने से पूर्व कार्य हेतु चयनित स्थान का अवलोकन कर लेना चाहिए तथा निविदा के संबंध में कोई जानकारी चाहिये तो किसी भी कार्य दिवस में कार्यालय समय के दौरान ली जा सकती है।
23. **Forfeiture of Bid Security**: The Bid Security will be forfeited in the following cases:-
- When tenderer withdraws or modifies the offer after opening of tender but before acceptance of tender.
  - When tenderer does not execute the agreement if any, prescribed within the specified time.
  - When tenderer does not deposit the Performance Security Money after the supply order is given.
  - When he fails to commence the supply of the items as per supply order within the time prescribed.
  - When tenderer/ bidder breaches any provision of code of integrity prescribed for bidders specified in the chapter VI of Rajasthan Transparency in Public Procurements Rules 2013 or RTPP Act, 2012.

**24. Agreement and Performance Security (Security Deposit) & Additional Performance Security :-**

- i) Successful tenderer will have to execute an agreement in Form SR-17 within a period maximum of 15 days from the date of declaration of successful tenderer or prescribed in work order and deposit security equal to 5 % or as per applicable rate as per Rules of the value of the stores or service contract which ever is applicable for which tenders are accepted.
- ii) The Bid Security deposited at the time of tender can be adjusted towards performance security amount.
- iii) No interest will be paid by the department on the Bid Security & performance security money.
- iv) The forms of performance security money shall be as below:-
  - a. Bank Draft/Bank Guarantee.
    - v) The Performance Security (Security Money) shall be refunded within one month of the final supply of the items as per purchase order in case of the one time purchase and two months in case delivery is staggered, after the expiry of the contract on satisfactory completion of the same or after the expiry of the period of guarantee/warranty clause is applicable if any (provided the firm will deposit a separate Performance Security @ 5% of total CAMC amount of 5 years otherwise security money will be refunded after completion of CAMC period) and after satisfied there are no dues outstanding against the tenderer.

2) (i) Firms registered with the Director of Industries, Rajasthan in respect of stores for which they are registered subject to their furnishing the registration and prescribed competency certificate in original from the Director of Industries or a Photostat copy or a copy thereof duly attested by any Gazetted officer will be expected from furnishing security money and shall pay security Deposit at the rate of 1% of the estimate value of Tender.

(ii) Central Government and Government of Rajasthan's Undertakings will be exempted from furnishing security amount.

3) **Forfeiture of performance security deposit:** performance security amount in full or part may be forfeited in the following cases :-

- (a) When any terms and conditions of the contract is breached.
- (b) When the tenderer fails to make complete supply satisfactorily.
- (c) Notice of reasonable time will be given in case of forfeiture of performance security (S.D.).

The decision of the Vice Chancellor, Vardhman Mahaveer Open University, Kota in this regard shall be final.

4) The expenses of completing and stamping the agreement shall be paid by the tenderer and the department shall be furnished free of charge with one executed stamped counter part of the agreement.

5) **Additional Performance Security** – In addition to Performance Security as specified in rule 75A, an Additional Performance Security shall also be taken from the successful bidder in case of unbalanced bid. The Additional Performance Security shall be equal to fifty percent of Unbalanced Bid Amount. The Additional Performance Security shall be deposit in lump sum by the successful bidder before execution of Agreement.

25. निविदा/संविदा के संबंध में किसी भी विवाद की स्थिति में किसी पक्ष द्वारा यदि कोई न्यायिक कार्यवाही संस्थित की जानी हो तो उसके लिये न्याय क्षेत्र केवल कोटा ही मान्य होगा।
26. बोली की अन्य सभी शर्तें राजस्थान लोक उपापन में पारदर्शिता अधिनियम 2012, एवं नियम 2013 (RTPP Act 2012 and Rule-2013), सा0वि0ले0नि0 एवं राज्य सरकार द्वारा समय-समय पर जारी दिशा निर्देशोंके अधधीन होगी जिन्हें वित्त विभाग की वेबसाईट [www.finance.rajasthan.gov.in](http://www.finance.rajasthan.gov.in) पर देखा जा सकता है।
27. निविदा के लिये प्रथम अपील अधिकारी कुलपति, वर्धमान महावीर खुला विश्वविद्यालय, कोटा तथा द्वितीय अपील अधिकारी शासन सचिव, उच्च एवं तकनीकी शिक्षा विभाग, राजस्थान सरकार होंगे ।

नियंत्रक (वित्त)

—:निविदा की विशेष शर्तें:—

कार्य का विवरण:— विश्वविद्यालय परिसर में स्थित संत सुधासागर सभागार जिसका क्षेत्रफल 7200 वर्गफीट है, को शैक्षणिक गतिविधियों यथा कार्यशाला, सेमिनार, संगोष्ठी, दीक्षान्त समारोह आदि हेतु सुसज्जित किया जाना है। उक्त सभागार को सुसज्जित करने हेतु सिविल कार्य, विद्युत कार्य, एयर कंडीशनिंग एवं साउण्ड सिस्टम संबंधी कार्य किये जाने हैं। चूंकि वांछित सभी कार्य अन्योन्याश्रित हैं। अतः समस्त कार्य Turn Key Basis पर एक ही फर्म / एजेंसी के माध्यम से करवाये जाने का निर्णय लिया है ताकि बेहतर समन्वय के साथ कम समय में कार्य पूर्ण हो सके। Turn Key Project संपादित करने वाली अनुभवी फर्मों से निविदा में भाग लिये जाने की अपेक्षा की जाती है। बोलीदाता फर्म/एजेन्सी को सिविल, इलैक्ट्रिक व एयर कंडीशनिंगसम्बंधी कार्य सार्वजनिक निर्माण वित्तीय एवं लेखा नियमों (PWF&AR) के तहत वांछित श्रेणी में पंजीकृत संवेदक के माध्यम से पूर्ण करवाना होगा जबकि स्टेज लाईट एवं साउण्ड सिस्टम संबंधी कार्य अधिकृत डीलर के माध्यम से करवाया जा सकेगा। कार्य की तृतीय पक्ष (Third Party) जाँच करवायी जा सकेगी। कार्य पूर्ण करने हेतु समयावधि 06 माह होगी अतः इच्छुक बोलीदाताओं से अनुरोध किया जाता है कि वे बोली प्रस्तुत करने से पूर्व Site visit कर लें ताकि उन्हें लागत का सही अनुमान हो सके। सभागार को सुसज्जित करने हेतु किये जाने वाले कार्यों का Schedule निविदा दस्तावेज में अनेक्सर & 01 Scope of work पर संलग्न है।

- 1 प्रस्तावित कार्य सार्वजनिक निर्माण वित्तीय एवं लेखा नियमों (PWF&AR) के तहत संबंधित कार्य हेतु निर्धारित श्रेणी में पंजीकृत संवेदक के माध्यम से करवाया जाना है। अतः विद्युत कार्य हेतु E-EWSD-1 अथवा समकक्ष श्रेणी, एयर कंडीशनिंग कार्य हेतु E-E-AC II अथवा समकक्ष एवं सिविल कार्य हेतु “C” Class अथवा समकक्ष श्रेणी में पंजीकृत संवेदक के द्वारा कार्य करवाया जाना अपेक्षित है। H-Schedule में अंकित आईटम्स अथोराईज्ड डीलर्स के माध्यम से इन्स्टाल करावाने होंगे।
- 2 बोलीदाता फर्म को उक्त शर्त संख्या 01 में अंकित श्रेणी में पंजीकृत संवेदकों/फर्मों से प्रासंगिक बोली के लिये कार्य करने हेतु सहमति पत्र/अधिकृति पत्र निर्धारित प्रारूप में (vuDI j & 02 पर संलग्न) प्राप्त कर तकनीकी निविदा के साथ संलग्न करना होगा। इसके साथ ही उक्त फर्मों के पंजीयन प्रमाण पत्रों/अथोराईजेशन की प्रति भी पात्रता बिड में लगानी होगी।
- 3 **dk; kuzko**— प्रासंगिक निविदा के लिये बोलीदाता फर्म को Turn Key Project संपादित करने का अनुभव होना आवश्यक है। फर्म द्वारा गत 03 वित्तीय वर्षों ( 2023–24, 2022–23, 2021–22 ) के दौरान किसी भी राजकीय विभाग अथवा राजकीय उपक्रम में समान प्रकृति का कार्य निष्पादन का अनुभव होना चाहिए। इसके लिये बोलीदाता को पात्रता बिड के साथ संबंधित विभाग/संस्था द्वारा जारी अनुभव प्रमाण-पत्र/कार्य पूर्णता प्रमाण-पत्र संलग्न करना होगा। कार्य अनुभव निम्नानुसार हो सकता है: —
  - एक कार्य जिसकी लागत निविदा की अनुमानित लागत के 80 प्रतिशत के बराबर हो।

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- दो कार्य जिनकी लागत निविदा की अनुमानित लागत के 50 प्रतिशत के बराबर हो।

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- तीन कार्य जिनकी लागत निविदा की अनुमानित लागत के 40 प्रतिशत के बराबर हो।  
( प्रत्येक कार्य का कार्य पूर्णता का प्रमाण-पत्र संलग्न करना होगा )
- 4 कार्य के दौरान विश्वविद्यालय द्वारा अधिकृत तकनीकी अधिकारी अथवा तकनीकी समिति द्वारा कार्य का निरीक्षण किया जा सकेगा। बोलीदाता को उक्त अधिकारी/समिति को वांछित जानकारी उपलब्ध करानी होगी ।
- 5 कार्य पूर्ण होने पर विश्वविद्यालय द्वारा तकनीकी समिति के माध्यम से अथवा तृतीय पक्ष (Third Party) द्वारा कार्य का निरीक्षण करवाया जावेगा। उक्त समिति या तृतीय पक्ष से कार्य निर्धारित जी-शिड्यूल्स के अनुरूप संतोषजनक रूप से पूर्ण होने की रिपोर्ट के आधार पर ही भुगतान किया जावेगा ।
- 6 बिलों से नियमानुसारकटौती की जावेगी। भुगतान में विलम्ब के लिये कोई ब्याज राशि देय नहीं होगी।
- 7 Contractor must ensure to take prior approval for makes & models before installation by the engineer in-charge as per specifications. The make & model should be of same brand as per G-Schedule which is approved before execution.
- 8 OEM installation manual guideline practice for execution of work at site must be followed by the contractor.
- 9 Contractor will submitted minimum three years valid guarantee/warranty certificate of product& liable product genuineness purchase proof from OEM/ Authorized dealer.
- 10 Factory Inspection for testing of specified items i.e. D.G. Set, Transformer, RMU & Air Conditioner must be done in Government approved OEM's authorized Labs by the University representative. Agency must ensure to make all necessary permission and arrangements for the visit & no extra payment shall be made for all this procedure.
- 11 Appropriate/Routin type Test certificate/ reports related to IS code with liable standard warranty proof/ certificate of product from OEM/authorized dealer shall be submittedby agency during / at the time of execution & duly verified by Engineer-in-Charge.
- 12 Agency must ensure to prepare the satisfactory installation service report from OEM engineer for major items like DG set, Transformer, RMU & Air Conditioner and submit the same in Engineer In charge office.
- 13 कार्य आदेश मिलने के उपरांत फर्म को नियमानुसार कार्य आदेश राशि का 5% कार्यसंपादन प्रतिभूति के रूप में जमा करवानी होगी तथा नियमानुसार नॉन-ज्यूडिशियल स्टाम्प पर अनुबन्ध निष्पादित करना होगा।
- 14 Guarantee/warrantyअवधि न्यूनतम 3 वर्ष मान्य होगी।कार्य संतोषप्रद ढंग से पूर्ण होने परguarantee/warrantyअवधि समाप्त होने के पश्चात् कार्य संपादन प्रतिभूति राशि लौटायी जा सकेगी। इस अवधि से पूर्व सिक्योरिटी राशि किसी भी हालत में नहीं

- लौटाई जावेगी। सेवाएँ संतोषप्रद नहीं होने पर कार्य संपादन प्रतिभूति राशि (पूर्ण या आंशिक) जब्त कर ली जावेगी।
15. Guarantee/warranty अवधि के पश्चात् 05 वर्ष के लिये CAMC करवायी जा सकेगी। अतः बोलीदाता को 3 वर्ष की guarantee/ warranty अवधि के पश्चात् 5 वर्ष के लिये निर्धारित BOQ में CAMC की दर प्रतिवर्ष के लिये एकमुश्त अंकित की जानी है।
  16. बोलीदाताओं को प्रत्येक वित्तीय बिड (BOQ) में Percentage Rate or Item Rate, जहाँ जो लागू हो, अंकित करना आवश्यक है। G-Schedules में Percentage Rate जबकि H-Schedules में Itemwise Rate अंकित की जानी है। दरें ऑनलाईन BOQ भरी जानी है। CAMC की दर सहित समस्त शिड्यूल्स की दरों को मिलाकर न्यूनतम दरदाता फर्म का (L-1) निर्धारण किया जावेगा। संपूर्ण कार्य हेतु एक ही फर्म को कार्यादेश जारी किया जावेगा।
  17. CAMC हेतु कार्यादेश जारी करने से पूर्व फर्म को CAMC राशि की 5% राशि performance security के रूप में पृथक से जमा करानी होगी। CAMC का कार्यादेश देने के लिये विश्वविद्यालय बाध्य नहीं है अर्थात् इस संबंध में guarantee/warranty अवधि के पश्चात् निर्णय लिया जावेगा।
  18. BOQ में अंकित मात्रा में विश्वविद्यालय की आवश्यकता के अनुसार घटत-बढ़त की जा सकती है। भुगतान वास्तविक प्रयुक्त मात्रा के आधार पर अनुमोदित दरों पर देय होगा।
  19. मशीन के संचालन हेतु ट्रेनिंग की आवश्यकता होने पर निविदादाता फर्म को अपने इंजीनियर को भिजवाकर संचालन का प्रशिक्षण दिलाना होगा। संचालन हेतु आवश्यक मार्गदर्शन पुस्तिका भी उपलब्ध करानी होगी।
  20. बोलीदाता को **vuDI j&01** पर संलग्न **Scope of work** के क्रम में "G" SCHEDULE के लिये दरें प्रतिशत (%) में above / below (in words and in Figures) में भरनी होंगी जबकि H-SCHEDULE के लिये **itemwise** दरें अंकित करनी होंगी।
  21. **H-Schedule** में अंकित आईटम्स प्रतिष्ठित मेक के अंकित किये जाने चाहिये। इन्स्टालेशन से पूर्व प्रभारी, संपदा की स्वीकृति प्राप्त करनी होगी।

नियंत्रक (वित्त)

**Part- A (H-Schedule) Stage Lighting**

S. No.	Item	Unit	Qty.	Rate (Per Unit) to be quoted by Contractor (Including GST)	Amount
1	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect 54x3W warm white + white High grade led in cast housing Control Channel: 7 DMX 512Ch. LED: 54x3W Warm White + White Gross Weight: 2.5Kg. approx CH 1: Dimmer CH 2: Strobe	Each	8		
2	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect 60x3w warm white + white High grade led in cast housing Control Channel: 2 DMX 512Ch. LED: 60x3W Warm White Gross Weight: 3.5Kg. approx. CH 1: Dimmer CH 2: Strobe	Each	16		
3	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect Control Channel: 7 DMX 512Ch.	Each	1		
4	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect Control Channel: 3 DMX 512 Ch	Each	1		
5	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect Control Channel: 7 DMX 512Ch.	Each	4		
6	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect 10R JIA 280W lamp, 16 DMX 512 channels, 5 Glass Gobo + 8 Metal Gobo + 1, 8 Prism Rainbow Prism, Pulse Strobe ( 15 times per second), 13 colors White (With Rainbow Twin Color Effect)	Each	4		
7	Supply, Installation, Testing, Commissioning of Stage Lights with connection Demonstration complete in all respect Control Channel: 4 DMX 512Ch.	Each	3		
8	Supply, Installation, Testing, Commissioning of Light signal splitter with connection & demonstration complete in all respect	Each	1		
9	Supply, Installation, Testing, Commissioning of Stage Lights with connection Demonstration complete in all respect	Each	1		
10	Supply, Installation, Testing, Commissioning of interconnecting cables connector bundle pack with connection & demonstration complete in all respect	Each	1		
11	Supply, Installation, Testing, Commissioning of Stage Lights with connection & demonstration complete in all respect Control Channel: 2 DMX 512Ch	Each	1		
12	Supply, Installation, Testing, Commissioning of Stage Lights with connection Demonstration complete in all respect Control Channel: 7 DMX 512Ch.	Each	1		

13	Customized truss (combination of 12mm and 24mm fabricated high grade ms pipes with approximate weight 200kgs) with wall mounting support with Supply, Installation, Testing, Commissioning And Demonstration	Job	1		
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**Part-B (Audio-Video System)**

Sr. No.	Description of item	Estimated Quantity	Rate to be quoted by Contractor (Including GST)	Amount																														
1.	<p><b>AMPLIFIER-</b></p> <table border="1"> <tr> <td>1kHz (THD+N=1%: 3Ω)</td> <td>100W x 2 (20ms Burst)</td> </tr> <tr> <td>1kHz (THD+N=1%: 4Ω)</td> <td>120W x 2 (20ms Burst)</td> </tr> <tr> <td>1kHz (THD+N=1%: 8Ω)</td> <td>100W x 2 (20ms Burst)</td> </tr> <tr> <td>High impedance: 100V line</td> <td>120W x 2 or 200W x 1</td> </tr> <tr> <td>High impedance: 70V line</td> <td>120W x 2 or 200W x 1</td> </tr> <tr> <td></td> <td>≤0.2% (Line in to Speaker out, Half power @1kHz, 3Ω/4Ω/8Ω), ≤0.2% (Line in to Speaker out, Half Power @1kHz, 70V/100V, 120W/200W)</td> </tr> <tr> <td></td> <td>0dB, -2.5dB, +1.0dB (Line in to THRU OUT, 20Hz to 20kHz), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V, 120W/200W)</td> </tr> <tr> <td>Mic/Line Input</td> <td>-</td> </tr> <tr> <td>Line Input</td> <td>Input A-B: MONO RCA pin x 2 (unbalanced) or 3.5mm Euro block (6-pin, balanced)</td> </tr> <tr> <td>Speaker Output</td> <td>Barrier strip x 2 pairs</td> </tr> <tr> <td>Line Out</td> <td>THRU OUT: MONO RCA pin (unbalanced) x2</td> </tr> <tr> <td>Control ports</td> <td>RJ-45 (for DCP4V4S, DCP1V4S, DCP4S), Remote (3.5mm Euro block 3-pin)</td> </tr> <tr> <td>Mic Input</td> <td>-</td> </tr> <tr> <td>Stereo Input</td> <td>-</td> </tr> <tr> <td></td> <td>Line input (unbalanced): -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line input (balanced): +4dBu (Sensitivity), +4dBu (Nominal), +24dBu (Max before clip)</td> </tr> </table>	1kHz (THD+N=1%: 3Ω)	100W x 2 (20ms Burst)	1kHz (THD+N=1%: 4Ω)	120W x 2 (20ms Burst)	1kHz (THD+N=1%: 8Ω)	100W x 2 (20ms Burst)	High impedance: 100V line	120W x 2 or 200W x 1	High impedance: 70V line	120W x 2 or 200W x 1		≤0.2% (Line in to Speaker out, Half power @1kHz, 3Ω/4Ω/8Ω), ≤0.2% (Line in to Speaker out, Half Power @1kHz, 70V/100V, 120W/200W)		0dB, -2.5dB, +1.0dB (Line in to THRU OUT, 20Hz to 20kHz), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V, 120W/200W)	Mic/Line Input	-	Line Input	Input A-B: MONO RCA pin x 2 (unbalanced) or 3.5mm Euro block (6-pin, balanced)	Speaker Output	Barrier strip x 2 pairs	Line Out	THRU OUT: MONO RCA pin (unbalanced) x2	Control ports	RJ-45 (for DCP4V4S, DCP1V4S, DCP4S), Remote (3.5mm Euro block 3-pin)	Mic Input	-	Stereo Input	-		Line input (unbalanced): -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line input (balanced): +4dBu (Sensitivity), +4dBu (Nominal), +24dBu (Max before clip)	<b>01</b>		
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		-10dBV (THRU OUT, Nominal)		
		Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)		
	Load protection	Power switch on/off: Mute the output*, Output voltage protection: Compress the output*, DC-fault: Power supply shutdown (*Restored automatically)		
	Amplifier protection	Thermal: Limit the output* → Mute* → Shutdown, Over current: Mute the output*, Integrated power limit: Compress the output* (*Restored automatically)		
	Power supply protection	Thermal: Power supply shutdown, Over voltage: Power supply shutdown, Over current: Limit the output* →Power supply shutdown (*Restored automatically)		
		Class D		
		Conventional cooling, bottom to up airflow		
		100V, 120V, 230V - 240V, 50Hz / 60Hz		
		60W (1/8 max power, 4Ω, AC100V, pink noise at all channels)		
	W	480mm (18.9") *1		
	H	45mm (1.8") *1		
	D	379mm (14.9") *1		
		4.8kg (10.6lbs)		
		AC power cable, 3.5mm Euroblock plug (6-pin) x 1, Euroblock pulg (3-pin) x 1, Owner's manual, Specification sheet		
		DCP4V4S, DCP1V4S, DCP4S (Digital Control Panel)		
		ENERGY STAR		

		<p>Operating Temperature: 0°C to + 40°C, Storage Temperature: -20°C to + 60°C, Rack-mountable when ensuring sufficient ventilation above and below the unit  <b>(Yamaha/Ahuja/Studio Master Professional/M-Pro)</b></p>			
<p><b>2.</b></p>	<p><b>Digital Podium :</b>  <b>Type of make</b>  MS fabricated Sheet with sliding top and Lock. Hydraulic with Up-down switch.  <b>Display</b>  22” touch display  <b>Matrix Switcher</b>  4 HDMI2.0 inputs  4 HDMI2.0 outputs with one independent 3.5mm/SPDIF audio. Supports HDMI2.0, HDCP2.2.  The resolution should go up to 4K@60Hz. Supports LPCM 7.1CH, Dolby True HD, Dolby Digital and DTS-HD Master Audio. Supports IR remote control(IR remote control codes are available).  Supports smart EDID management, including 4-output EDID, 15 internal EDID. Supports RS-232 and TCP/IP Control(WEB GUI, APP and IR remote).  Supports push buttons control with blue lights. Supports to rename the inputs and outputs, scenes. 4K60 HDMI matrix switcher with 4 HDMI 2.0 inputs and 4 HDMI 2.0 outputs, the resolution can up to 4K 60Hz and all ports should be HDCP 2.2 compliant.  Should be with friendly user control methods by IR remote control, push buttons with background blue light, WEB GUI, APP and RS232/UDP commands,  Matrix switcher should work with the Blu-Ray Players, Set-Top boxes, Home Theater, and game consoles etc. HDMI input sources to route to the HDMI displays.  <b>Power Point &amp; Cooler</b>  Multiple universal power point and 1 cooling Fan.  <b>Audio system</b>  Gooseneck Mic x1, Handheld Mic x 1, Lapel</p>	<p><b>01</b></p>			

(Collar Mic) x1 with echo cancellation, Mixer Amplifier 250 watt, Speaker 30 Watt X 6

**Controller**

**CPU**

i.MX ARM Cortex-A7 528MHz

**Operating system**

Linux 4.1.15 kernel

**Memory**

512M DDR3 RAM

**Flash**

512M Nand Flash

**RELAY**

8 - isolated low voltage relay (normally open)

30VDC/AC 1A

**I/O**

4 - Digital I/O input

**INFRARED-SERIAL**

4 - infrared or one-way RS-232 serial port

**LAN**

1 - RJ45 10M/100M Ethernet interface

**RST**

1 - RST system reset button

**LED** 3 – LED system status indicator

**Power Supply** 24VDC 1A

**Working environment temperature**

0°C ~50°C

**Relative humidity of working environment**

10% to 90%

**Control Pad**

7 Inches Touch Screen, 800 x 480 resolution, WIFI Enabled, 12v / 1A power consumption,

**Resolution**

1920X1080,1920X2160,4K30,4K60

**Output ports**

4\*HDMI, 1\*3.5mm,1\*SPDIF audio out

**Controlling**

IR remote control, RS232 serial command, front buttons & Tablet

**Brand**

Should be registered in India for last 5 years.

**OEM**

Should have office in India for last 5+ years.

**Certificate**

NSIC on Electronic Lectern

(Ekin,/ SMART/ Cisco)

### 3. PA mixture :

Mixing capability	On-board processors	SPX algorithm: 24 programs, PARAMETER control:1, FOOT SW:1 (FX RTN CH on/off)
I/O	Phantom power	+48 V
	Digital I/O	-
Input Channels	Mono[MIC/LINE]	8
	Mono/Stereo[MIC/LINE]	2
	Stereo[LINe]	2
Output Channels	STEREO OUT	2
	MONITOR OUT	1
	PHONES	1
	AUX SEND	4
	GROUP OUT	4
Bus		Stereo: 1, GROUP: 4, AUX: 4 (incl. FX)
Input Channel Function	PAD	26 dB (Mono)
	HPF	80 Hz, 12 dB/oct (Mono/Stereo: MIC only)
	COMP	1-knob compressor (Gain/Threshold/Ratio) Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB Attack time: approx. 25 msec, Release time: approx. 300 msec
	EQ HIGH	Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving
	EQ MID	Gain: +15 dB/-15 dB, Frequency: Mono 250 Hz – 5 kHz peaking, Stereo 2.5 kHz peaking
	EQ LOW	Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving
	PEAK LED	LED turns on when post EQ signal reaches 3 dB below clipping

01



	<b>Level Meter</b>	2x12 -segment LED meter [PEAK, +10, +6, +3, 0, -3, -6, -10, -15, -20, -25, -30 dB]
<b>General specifications</b>		
<b>Total harmonic distortion</b>		0.03 % @ +14dBu (20 Hz to 20kHz), GAIN knob: Min, 0.005 % @ +24dBu (1kHz), GAIN knob: Min
<b>Frequency response</b>		+0.5 dB/-1.5 dB (20 Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min
<b>Hum &amp; noise level</b>	<b>Equivalent input noise</b>	-128 dBu (Mono Input Channel, Rs: 150Ω, GAIN knob: Max)
	<b>Residual output noise</b>	-102 dBu (STEREO OUT, STEREO master fader: Min)
<b>Crosstalk</b>		-78 dB
<b>Power requirements</b>		AC 100 – 240 V, 50 / 60 Hz
<b>Power consumption</b>		30 W
<b>Dimensions</b>	<b>W</b>	444 mm (17.5")
	<b>H</b>	130 mm (5.1")
	<b>D</b>	500 mm (19.7")
<b>Net weight</b>		6.8 kg (15.0 lbs.)
<b>Accessories</b>		Included Accessory: Owner's Manual, Technical Specifications, AC power cord, Rack-mount kit, Optional Accessory: Foot Switch FC5
<b>Others</b>		Operating Temperature: 0 to +40°C
<b>(Yamaha/Ahuja/Studio Master Professional/M-Pro)</b>		

**4.**

**Speaker**

Frequency range (-10dB)	100Hz - 20kHz
Nominal coverage	110
	110
Components	4"(100mm) cone driver
	1"(25mm) balanced dome tweeter
Crossover	15kHz
Power rating	15W
	30W
	60W
Nominal impedance	8Ω
Transformer taps	15W, 7.5W, 3.8W
	15W, 7.5W, 3.8W, 1.9W
SPL	88dB SPL
	106dB SPL (60W)
I/O connectors	2 pairs of barrier strip (parallel-wired *Screw size:M3, Terminal Space: 6mm)
Shape	Rectangular
Cabinet material	HIPS, 94-HB
Finish	VS4: Black, VS4W: White
Flying and mounting hardware	U-bracket (4 x Φ5.5mm and 2 x Φ11mm holes)
Waterproof	IEC60529 IPX3 splash proof rating
Dimensions	152 mm (6")
	243 mm (9 9/16")
	172 mm (6 3/4")
Net weight	1.9kg (4.2lbs)
Accessories	U-bracket, Owner's Manual, Retaining knob, Terminal cover, Terminal cover screw,

**04**

**(Yamaha/Ahuja/Studio Master Professional/M-Pro)**

<p><b>5.</b></p>	<p><b>Laser Projector</b></p> <p>Display technology :- DLP</p> <p>Resolution :- WUXGA (1920x1200)</p> <p>Brightness :- 7,000 lumens</p> <p>Contrast ratio :- 3,000,001:1</p> <p>Native aspect ratio :- 16:10</p> <p>Aspect ratio-compatible :- 4:3,16:9,16:10</p> <p>Keystone correction :- horizontal +/-30° vertical +/-30°</p> <p>Displayable colours (millions) :- 1073.4</p> <p>Horizontal scan rate :- 5k~140kHzKhz</p> <p>Vertical scan rate :- 24~120HzHz</p> <p>Uniformity :- 85%</p> <p>Screen size :- 0.8m ~ 7.67m (31.5" ~ 301.8")</p> <p>diagonal</p> <p>Light source type :- Laser</p> <p>LASER life :- 30,000 hours</p> <p>Throw ratio :-1.2:1 ~ 1.92:1</p> <p>Projection distance :-1.3m - 7.8m</p> <p>Zoom :-1.6</p> <p>Zoom type :- Manual</p> <p>Focal length :- 17.63 ~ 27.9</p> <p>Lens shift Vertical :-100 ~ 120%, Horizontal : +/-10</p> <p>Native offset :- 120%</p> <p>Connections Inputs :- 2 x HDMI 2.0, 2x VGA, 1 x Composite video, 2 x Audio 3.5mm,1 x USB-A power 1.5A</p> <p>Outputs :- 1 x HDMI 2.0, 1 x Audio 3.5mm,1 x 3D sync</p> <p>Control :- 1 x HDBaseT 4K, 1 x RJ45, 1 x RS232</p> <p>Noise level (min) :- 29dB</p> <p>3D :- Full 3D</p> <p>IP rating :- IP6X</p> <p>24/7 operation :- YES</p> <p>360° operation :- YES</p> <p>Remote control :- Backlit ProAV remote</p> <p>Heat dissipation :- 883BTU/hour</p> <p>Speaker count :- 2</p> <p>Watts per speaker :- 15W</p>	<p><b>01</b></p>		
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	<p>LAN - control :- YES  LAN - wireless networking :- No  LAN :- YES  <b>(Optoma / Ekin / SMART/Benq)</b></p>			
<p><b>6.</b></p>	<p><b>4K Dual Lens PTZ Camera</b>  Optical Zoom :- 12X  Image Sensor :- 1/2.8inch high quality CMOS sensor  Effective Pixel :- 8.51M, 16 : 9</p> <p><b>Video Signal</b>  HDMI : 4KP30,4KP25,1080P30,1080P25、1080P29.97 ;  USB3.0:  Main Stream : YUY2/NV12:  1920×1080/1280×720/1024×576/800×600/800×448/640×360/480×270/320×180@10/5fps;  MJPG/H264:  3840*2160/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps; Sub Stream : YUY2/NV12:  1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/20×180 @30/25/20/15/10/5fps;  MJPG/H264:  1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15 /10/5fps;  Close - up Lens 12X</p> <p>Viewing Angle :- H : 7.6° (N~80.5° (W)  Iris Value :- F1.8 ~ F3.6  Digital Zoom:- 15X  Minimum Illumination:- 0.5Lux(F1.8, AGC ON)  DNR :- 2D&amp; 3D  White Balance :- Auto/Manual/One-Key White Balance/Specified Color Temperature  Focus Mode :- Auto/Manual/One key focus  Exposure Mode :- Auto, Manual, Shutter Priority, Aperture Priority, Brightness Priority</p>	<p><b>01</b></p>		

Iris :- F1.8 ~ F3.6, CLOSE  
Shutter Speed :- 1/25~1/20000  
BLC :- On/Off  
Dynamic Range :- Off, 1 ~ 8  
Video Adjustment :- Brightness, Hue, Saturation,  
Contrast, Sharpness, Black and White Mode,  
Gamma Curve  
SNR :- >50dB  
Panoramic Lens :- Fixed Lens  
FOV :- 110.2°\101.8°\69.5° (D\H\V)  
Iris :- F2.0±5%  
Focus :- F=1.89mm

### **Interface**

Back Panel :- HDMI, LAN (support POE),  
USB3.0, A-IN, RS232- IN, DC12V power supply,  
power switch

Video Output :- HDMI, LAN, USB3.0

Video Compression Format :-

LAN : H.264,H.265 USB

3.0 : MJPG,H264,YUY2,NV12

Audio Input :- Dual channel 3.5mm linear  
input

Audio Output :- HDMI, LAN, USB3.0

Audio Compression Format :- AAC, MP3,  
G.711A

LAN Port :- 10M/100M/1000M adaptive Ethernet  
port, support POE power supply, support audio  
and video output RTSP, RTMP, ONVIF,  
GB/T28181, VISCA OVER

Network Protocols :- IP, IP VISCA, RTMPS,  
SRT, support remote upgrade, remote restart,  
remote reset

Control :- RS232-IN

Serial Port Communication Protocols :-

VISCA/Pelco-D/Pelco-P ; Baud Rate:

115200/38400/9600/4800/2400

USB communication Protocols :-

UVC(video communication protocol), UAC(audio communication protocol)

Power Supply :- HEC3800 power socket  
(DC12V)

Power Adapter :- Input: AC110V~AC220V:  
Output: DC12V/2.5

Input Voltage :- DC12V±10%

Input Current :- <1A

Power Consumption :- <12W

### **PTZ**

Pan :- 110°~+110°

Tilt :- 30°~+30°

Pan Speed :- 0.1°/s~100°/s

Tilt Speed :- 0.1°/s~70°/s

Preset Speed :- Pan : 78.8°/s, Tilt : 31.7°/s

Preset Quantity :- Users can set up to 255 preset positions (10 remote controls)

### **Others**

Storage Temperature :- 10°C~+60°C

Storage Humidity :- 20%~95%

Working Temperature :- B180+50°C

Working Humidity :- 20%~80%

Dimension :-220Lmm×144mmW×159mm(D)

Weight(Approx.) :- 1.7kg

Environment :- Indoors

### **Accessory**

Standard Accessory :- Power adapter, RS232 control cable, USB3.0 cable, remote control, user manual

Optional Accessory :- Mount brackets

### **AI Function**

Auto Framing :- uilt-in high-speed processor and face detection algorithm, it can automatically detect participants and provide optimal framing

Speaker Tracking :- Built-in 6 omnidirectional microphone arrays, intelligent sound source localization algorithm, can locate the speaker's position in real time.

Certificate:- BIS,CE,FCC,ROHS,NSIC on video conferencing camera

**(Polycom / Ekin / Cisco/Sony/ Canon)**

**BOQ-2****(G-Schedule)****Part-A CIVIL WORK -**

<b>S. No.</b>		<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1	14.57	<b>Removing</b> aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	60	Sqm	17.00	1020.00
2	7.5.2	Providing and fixing Granite stone slab mirror polished and machine edge cut in walls, pillars, steps, Shelves, Sills Counters, Floors etc. laid on 12mm (Av.) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete. South (Red) Above 3601 Cm2 Slabs.	61	Sqm	3434.00	209474.00
3	7.6.2	Extra for providing edge moulding to 15-18mm thick marble/ Granite/Kota stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite/Kota stone work Full edge moulding.	333	Sqm	233.00	77589.00
4	10.34	Providing and fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture as per direction of Engineer-in-charge of size 595 X 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.33 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X32mm made out of 0.33mm (Minimum) sheet, 1200mm long spaced between main 'T' at 600mm centre to centre to form a grid of 1200X600mm and secondary cross 'T' of length 600mm and size 24X32mm made out of 0.33 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size 600X600mm resting...on periphery walls/partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of	720	Sqm	1650.00	1188000.00

		<p>0.40mm thick ( minimum ) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edged calcium silicate ceiling tiles of approved texture in the grid including cutting /making opening for services like diffusers, grills,</p> <p>light fitting, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using 50 mm long M 6 dash fasteners, 6mm G.I. fully threaded rods with galvanised steel L cleat level adjusters of size 80x25x2mm, spaced at 1200mm centre to centre long main 'T' bottom exposed with 24mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawing and as directed by engineer-in-charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs)having area less than 0.30 Sqm. The calcium silicate ceiling tiles shall have NRC. Value 0.50 (Minimum), light reflection&gt; 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity &lt;= 0.043 w/m0KC</p>				
5	8.20.3	Providing and fixing wall panelling using soft wood frame of size 50x25mm @600 mm c/c in both directions duly treated with anti-termite treatment making grooves painting of grooves specification and drawing using :12mm thick Acoustical Board	450	Sqm	1426.00	641700.00



6	16.1.1.3	Providing and fixing aluminum work for doors ,windows, ventilators and partition with extruded built up standard tubular / appropriate Z sections and other sections of approved make conforming to IS :733 and IS :1285, fixed with rawl plugs and screws or with fixing clips ,or with expansion hold fasteners including necessary filling up of gap. at junctions , at top ,bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth ,rust free, straight ,mitered and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing /paneling , C.P. brass/ stainless steel screws Al. Tower bolt & Al. handle & Al. Aldrop etc.,all complete as per architectural drawings and the directions of Engineer- in – charge .(Glazing and paneling to be paid for separately). For fixed portion Polyester Powder coating aluminum (minimum thickness of powder coating 50 micron)	600	Kg.	364.00	218400.00
7	16.1.2.3	Providing and fixing aluminum work for doors ,windows, ventilators and partition with extruded built up standard tubular / appropriate Z sections and other sections of approved make conforming to IS :733 and IS :1285, fixed with rawl plugs and screws or with fixing clips ,or with expansion hold fasteners including necessary filling up of gap. at junctions , at top ,bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth ,rust free, straight ,mitered and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing /paneling , C.P. brass/ stainless steel screws Al. Tower bolt & Al. handle & Al. Aldrop etc.,all complete as per architectural drawings and the directions of Engineer- in – charge .(Glazing and paneling to be paid for separately). For fixed portion Polyester Powder coating aluminum ( minimum thickness of powder coating 50 micron)	100	Kg.	394.00	39400.00
8	16.2	Extra for shutters of sliding aluminum windows	150	Kg.	433.40	65010.00
9	16.10.1	Providing and fixing expanded grill made of aluminum as per design and drawing having members section of size 7.5mm x 6.0mm and opening of size 102mm x 99mm to aluminum window/vent with required screws, Y and H aluminium section (as per drawing) at the ends and middle joints respectively complete in all respect as per direction of engineer in charge. Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868.	60	Sqm	1775.00	106500.00

		(Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer)				
10	16.11	S&f fixed wire gauge of stainless steel of 14 mesh x 24 gauge to the aluminium window by Aluminium beading 20x3mm with suitable screws not exceeding 150mm distance at all heights with all lead and lift with scaffolding.	21	Sqm	925.00	19425.00
11	8.21.1	Providing and fixing 50 mm thick resin bounded glass wool 32 kg/cum density wrapped in julities cloth bag (box type) and held in position using chicken mesh	400	Sqm	560.00	224000.00
12	8.21.2	Providing and fixing Hassian cloth of approved colour and texture over soft wood frame glass wool & fibre glass tissue paper	400	Sqm	312.00	124800.00
13	12.50.1	Providing and applying Melamine polish on teak wood work of approved brand and manufacture to give an even shade with two or more coats by compressor including sand papering, wood filler coat etc complete in all respect: New Surface	450	Sqm	887.00	399150.00
14	16.5.2	Providing and fixing glazing in aluminium door, window ,ventilator shutters and partitions etc. with PVS / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item.) With float glass panes of 5.0 mm thickness ( weight not less than 13.50 kg/sqm)	105	Sqm	902.00	94710.00
15	16.7	Filling the gap upto 5 mm depth and 5 mm width in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.	333	R.M	78.00	25974.00
16	16.6.1	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. With stainless steel cover plate	8	Sqm	1426.00	11408.00
17	16.58	Supplying and fixing Rollor Blinds of good quality and approved make made out of Imported fabric including Roller Mechanism and lock with chain system with all necessary hooks etc. complete as per direction and sample approved by engineer-in-charge.	60	R. Mtr.	1700.00	102000.00
18	5.2.2	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar	6.75	cum	4990.00	33682.50

		1 : 6 (1 cement : 6 coarse sand)				
19	12.3.2	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish : 20mm thick.	60	Sqm	190.00	11400.00
20	12.43.2	Painting exterior surface of Wall with 100% acrylic exterior paint of approved brand and manufacture to give an even shade with two or more coats including preparation of base with sand papering, primer, putty, etc complete in all respect including scaffolding and safety provision Old Work	500	Sqm	50.00	25000.00
<b>TOTAL Rs.</b>						3618642.50

### Part-B (Electrical work)

S. No.	BSR Item No.	Description	Unit	Qty.	Rate	Amount
1	1.4	S&F following sizes (dia.) of ISI marked virgin material MMS ( IS:9537 P - III ) PVC conduit along with ISI marked (IS:3419-1988) accessories as required in recess including cutting the wall, covering conduit and making good the same as required. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	1.4.3	32 mm	R. mtr.	200	84.00	16800.00
2	4.1	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor as per PWD specification for electrical Works with ISI marked (IS:694) and as per IS 8130 : 2013 of 1.1 kV grade . Wire should be made from 99.90 % purity copper, class 5 stranding in acc. to IS:8130/IEC 60228 for lower watt loss , oxygen free for less chances of oxidization, insulation PVC type A/C/D , flame retardant as per IS 10810-53, better amperage rating as per IS:3961 part 5, in existing surface or recessed PVC/ MS conduit/casing capping making connections with Copper Lugs of suitable size, Ferrules,testing etc. as required. OEM Must have its own in house NABL lab setup for all testing facilities for wires. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	4.1.5	1 x 2.5 sq.mm	Mtr.	500	31.00	15500.00
3	4.1	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor as per PWD specification for electrical Works with ISI marked (IS:694) and as per IS 8130 : 2013 of 1.1 kV grade . Wire should be made from 99.90 % purity copper, class 5 stranding in acc. to IS:8130/IEC 60228 for lower watt loss , oxygen free for less chances of oxidization, insulation PVC type A/C/D , flame retardant as per IS 10810-53, better amperage rating as per IS:3961 part 5, in existing surface or recessed PVC/ MS conduit/casing capping making connections with Copper Lugs of suitable size, Ferrules,testing etc. as required. OEM Must have its own in house NABL lab setup for all testing facilities for wires. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	4.1.21	1 x 10.0 sq.mm	Mtr.	200	136.00	27200.00

4	4.1	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor as per PWD specification for electrical Works with ISI marked (IS:694) and as per IS 8130 : 2013 of 1.1 kV grade . Wire should be made from 99.90 % purity copper, class 5 stranding in acc. to IS:8130/IEC 60228 for lower watt loss , oxygen free for less chances of oxidization, insulation PVC type A/C/D , flame retardant as per IS 10810-53, better amperage rating as per IS:3961 part 5, in existing surface or recessed PVC/ MS conduit/casing capping making connections with Copper Lugs of suitable size, Ferrules,testing etc. as required. OEM Must have its own in house NABL lab setup for all testing facilities for wires. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	4.1.24	1 x 16.0 sq.mm	Mtr.	200	221.00	44200.00
5	6.2	Providing & Fixing of 240/415 V isolator ISI marked IS:13947-III/conforming to IEC 60947-3, suitable for AC22A utilization category, 4KV impulse withstand voltage, true contact indication, Red colour dolly / lever shall have single mould covering over all poles for operation , two position din rail mounting, minimum phase termination capacity of 35sq.mm. IP 20 contact protection and fitted in existing distribution board / sheet including making connections, testing etc. as required. OEM shall have submit NABL / CPRI / ERDA accredited lab type test reports & All as per pre approved by Engineer in charge.For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	6.2.3	Four pole Isolator				
	6.2.3.3	80 A/ 100 A rating	Each	15.00	957.00	14355.00
6	5.5	P & F paper phenolic resin bonded laminates confirming to IS : 2036 - 1995 for boxes/ frames including making holes for switches etc, with brass screws, washers/ zinc plated nut and bolts as required. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	5.5.4	9.0 mm thick	Sq.m	6	1638.0	9828.00
7	6.1	Providing & Fixing of 240/415 V AC MCB with positive isolation of 10 kA breaking capacity (B/ C/D tripping characteristic as per type of load and site requirement) 4 KV impulse withstand voltage, ISI marked IS 8828(1996) / conforming to IEC 60898-1 2002, IEC 60947-2, low watt losses, trip free mechanism , energy limiting of class 3 as per IEC, minimum phase termination capacity of 35sq.mm. , conductor line load reversibility , IP 20 contact protection and fitted in existing distribution board/sheets, minimum electrical operation 20,000 upto 20 A rating and 10,000 upto 63 A, 5000 for 80 A & above rating including making connections, testing etc. as required. OEM shall have submit NABL / CPRI / ERDA accredited lab type test reports & All as per pre approved by Engineer in charge. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	6.1.3.2	6 A to 32 A rating	Each	20	910.0	18200.00

8	6.1	Providing & Fixing of 240/415 V AC MCB with positive isolation of 10 kA breaking capacity (B/ C/D tripping characteristic as per type of load and site requirement) 4 KV impulse withstand voltage, ISI marked IS 8828(1996) / conforming to IEC 60898-1 2002, IEC 60947-2, low watt losses, trip free mechanism , energy limiting of class 3 as per IEC, minimum phase termination capacity of 35sq.mm. , conductor line load reversibility , IP 20 contact protection and fitted in existing distribution board/sheets, minimum electrical operation 20,000 upto 20 A rating and 10,000 upto 63 A, 5000 for 80 A & above rating including making connections, testing etc. as required. OEM shall have submit NABL / CPRI / ERDA accredited lab type test reports & All as per pre approved by Engineer in charge. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	6.1.3.4	50/63 A rating	Each	10	1384.0	13840.00
9	6.10	Providing & Fixing of Recessed/surface mounting heavy duty horizontal type Double Door ( Metal / Glazed )Distribution board with Metal end box made out from Galvanized steel / CRCA sheet not less than 1.2 mm thick conforming to IS-8623-1 & 3 / IEC 61439- 1 & 3, powder painted complete with reversible door (for double door DB only )100 amp. insulated copper bus bar/shorting link , copper neutral link, copper earth link , color coded interconnecting wire set of suitable rating and din bar,masking sheet, making internal DB terminations with copper lugs, Ferrules, detachable gland plate, including making connections, testing etc. as required. OEM shall have submit NABL / CPRI / ERDA accredited lab type test reports & All as per pre approved by Engineer in charge. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	6.10.5.2	6Way(Incomer 8,Sub Incomer2+2+2)	Each	4	7618.0	30472.00
10	8.1	SITC of IP-42 and general construction conforming to IS:8623 : 1993, wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel as specifications and Other parameters required as per point (a) ,(b), (c),(d), (e), (f), (g), (h) as below:-				
		(a)Thickness of CRCA sheet shall be 2.0 mm, cable alley compartments having concealed hinged type doors with key type lock with / without detachable extension type structure. Removable 3 mm. thick sheet steel gland plates with appropriate size of knockouts for cables shall be provided				
		(b)complete panel shall undergo a process of degreasing, Water rinsing, Activation, derusting, pickling in acid bath, phosphatising & shall be subjected to nine tank process and then Powder coated with approved shade of minimum 70 microns on both side of panel. The panel having PE foam/ Neoprene rubber gasket of not less than 3mm thickness ,required hardware, concealed hinged door with key type locking arrangement for equipment/switchgear earthed with 2.5 sq.mm braided copper wire.				

		[c] Interconnection between bus bar and switchgears /cable shall be rigidly supported and made out by flexible copper wires (up to 63 amp ) and by solid bus bar (>63 amp ) . control wiring will be carried out with 1.5 Sq.mm, Earth wire with 2.5 Sq.mm and CT with 2.5 sq.mm flexible copper wire only. All joints / interconnections of copper bus bar shall be dully tinned . Clearance between main bus bar and risers / metal parts shall be at least 10 mm additional to width of bus bar Bus bar is insulated by Heat Shrinkable sleeves . Earth and Neutral bus bar shall be half of the size of phase bus bar. ( Cost of Bus bar / Flexible wire for Interconnection between Main busbar and Switchgear is to be Paid Extra )				
		(d)Wiring between components within switchgear and Incoming / outgoing cable shall be done through the terminal block only. Direct connection shall not be permitted. Each terminal block shall be one piece moulded, barrier type, 650 volt grade, complete with washers, heads, studs with two nuts and identification strips and shall have adequate continuous current rating. For tap-offs, adjacent terminals with shorting strips shall be used. 10% Spare terminal blocks shall be provided. Wire identification on marking strip shall correspond to the designation of the wiring diagrams. All wire terminals on the equipment shall also be marked with designation corresponding to those of the wiring diagram.				
		(e)All wiring shall be enclosed in plastic channels and neatly bunched and closed in metering chamber, Wiring between terminals of various devices shall be 'point to point' (no wire splitting or tee connections) with wires neatly trucked along the back of the panels, adequately supported to prevent sagging.				
		(f)Floor mounted panel shall be mounted on Base frame of ISMC channel size 100 x 50 x 5 mm ( to be paid Extra )				
		(g) Tests: The insulation resistance (with 1000 V Megger) and High voltage Power frequency test (by applying a voltage of 2.5KV for one minute) shall be measured between phases, between phase and neutral and between phase and earth. both before and after high voltage power frequency test. The insulation resistance shall not be less than three megaohm. CT Secondary current injection test shall also be carried out.				
		(h) only outer surface area on all sides shall be measured & panel to be fabricated only from CPRI approved fabricator only (CPRI Test certificates to be submitted)All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .	Sq. Mtr	10.00	5975.00	59750.00
11	8.2	Supplying and fixing of Aluminium (IEC 60105 ISO 209-1,2) / Copper (IEC 60028) bus bar by means of SMC / DMC type insulator with standard short circuit withstand capacity , high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	8.2.2	Electrolytic grade (Cu-ETP) Tin Coated annealed copper bus bars IACS 100% grade	Kg.	10.00	1301.00	13010.00

12	8.3	Providing & Fixing of IS: 13875 & IEC :61326 confirming LED Digital type (up to 500) V range Volt meter / Direct-Ammeter / CT oertated ammeter/ Frequency meter / KWH meter / Multi Function Meter / Power analyzer of class 1 accuracy as per IS : 1248 of size 96mm x 96 mm including making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	8.3.10	Three phase with universal Auxiliary supply + AMP + HZ + PF + KW + KVA + KVAR + KVARH + KWH + DUAL ENERGY+ ENERGY+THD-I, THD-V & RUN HRS + MD with RS485	Each	2	6272.0	12544.00
13	8.4	Providing & Fixing of BIS approved Current Transformer as per PWD specification for electrical Works ,ISI marked as per IS 2705-1992/ conforming to IEC 60044-1, with secondary terminal of CT shall be brought out suitable to a terminal block which shall be easier accessible for testing and terminal connection , with all necessary support in existing panel including connection etc. as required Current transformer Ring Type Tape Wound/Resin Cast Wound as per IS 16227 with, Accuracy Cl, CT ratio and burden as specified. ISF<=5, Cu cross section of secondary wire 1.5sqmm (minimum), including all necessary support in existing panel including connection etc. as required . All as per pre approved by Engineer in charge.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	8.4.1.2	C T Class 1, Ratio 200/5 to 300/5, Burden 10 VA	Each	8.0	788.0	6304.00
14	8.7	Providing & Fixing of Cam operated rotary (Auto/manual) switches on existing panel with 2 way and off position using high grade engineering material to international standards with cam assembly insulation of glass filled polyamide with high tracking index. For reliable and stable electrical and mechanical endurance double butt contacts with silver bi-metal on copper should provided . contact assembly is of operating temp range -25 degree C to 55 degree C, frequency upto 10 KHz. switch life under std. op. conditions shall be mechanically minimum 50000 operations @300 cycles/ hour and electrically 10,000 operations at 100% rated duty for 100 cycles/ hour including making connection etc. as required . All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	8.7.3	32 AMP	Each	200.0	504.0	1008.00
15	8.8	Providing & Fixing of 110/220 V, unibody LED Indicating lamp IEC 60947 with integral circuit, IP 65 above panel & IP 20 terminal block, Approx. body dia for panel not less than 20 mm, length min. 50mm, front LED cover dia min. 29 mm, contact material phospher bronze for Led, PCB contacts shall be of brass (tin plated), impulse dielectric tested for 2.5 KV, Rated insulation resistance shall be 100 M ohm at 500VDC including connection etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	8.8.1	Red/yellow/Green colour	Each	6.0	170.0	1020.00

16	8.11	Providing & Fixing of self healing IP20 MPP type shunt capacitor (banks) conforming to IS:13340-41 / IEC :831-1&2 OR IEC : 60831-1& 2 in existing panel or parallel with load terminals , the capacitor shall be fitted with discharge resistors, pressure sensitive disconnecter ( PSD ) and shall have dissipation factor less than 0.0025 at 50 Hz, Operating loss less than 0.30 Watt per KVAR. Min over current capacity 1.8 times rated current & peak inrush current min. 300 times of rated current, llife expectancy greater than 100000hrs (temp class - 25 D) in 440 V/480 V Capacitor and for 525 V should life expectancy minimum 1,65,000 hrs (temp class - 25 D) including making connections, testing etc. as required.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	8.11.3	Heavy duty Three phase 525V, 50 Hz cylindrical type capacitor (Bank)	KVAR	50.0	470.0	23500.00
17	9.3	SITC of 3 /4 pole current limiting Moulded case circuit breaker (MCCB) made of flame retardent & heat resistant material having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings , conforming to IS/IEC 60947 P -2 :2003 with front face and centralised adjustable, trip free mechanisum, true contact position indicator, line load interchangeability, designed for both horizontal & vertical mounting without any adverse effect on electrical performance, suitable for operation upto 55 degree and without derating upto 40 degree, pollution degree 3, having positive isolation capability, push (test) to trip, trip time less then 10 ms under s/c condition, Breaking capacity Ics = 100% Icu. U imp =8 KV, rated insulation voltage 690 V. provision for UVR , shunt trip , earth fault trip, door interlock, pad lock & rotary handle , including making connections etc. as required.OEM shall have submit NABL / CPRI / ERDA accredited lab type test certificate before execution All as per pre approved by Engineer in charge. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	9.3.3	4 pole MCCB With Thermal Magnetic release				
	9.3.3.3	125 Amp , 25 kA, adjustable O/L & adjustable S/C setting,	Each	15.00	8391.00	125865.00
18	9.3	SITC of 3 /4 pole current limiting Moulded case circuit breaker (MCCB) made of flame retardent & heat resistant material having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings , conforming to IS/IEC 60947 P -2 :2003 with front face and centralised adjustable, trip free mechanisum, true contact position indicator, line load interchangeability, designed for both horizontal & vertical mounting without any adverse effect on electrical performance, suitable for operation upto 55 degree and without derating upto 40 degree, pollution degree 3, having positive isolation capability, push (test) to trip, trip time less then 10 ms under s/c condition, Breaking capacity Ics = 100% Icu. U imp =8 KV, rated insulation voltage 690 V. provision for UVR , shunt trip , earth fault trip, door interlock, pad lock & rotary handle , including making connections etc. as required.OEM shall have submit NABL / CPRI / ERDA accredited lab type test certificate before execution All as per pre approved by Engineer in charge. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				



	9.3.3	4 pole MCCB With Thermal Magnetic release				
	9.3.3.8	400 Amp , 35 kA, adjustable O/L & adjustable S/C setting,	Each	1	23846.00	23846.00
19	10.7	Providing & Fixing of ISO certified company made on load change over switch, front handle operated, four pole 415 V as per PWD specification for electrical Works conforming to IS/IEC 60947-3 : 1999 including connections , testing etc. as required .in the following rating. Appropriate type test certificate / OEM test report shall be submitted . All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	10.7.2	With sheet steel enclosure made out from CRCA sheet door 1.2mm & body 1.6mm thick, powder quoted, door locking system allow opening of door in OFF position only with 2 nos external earthing points.				
	10.7.2.7	400 A	Each	2.00	29271.00	58542.00
20	11.2	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Armoured Aluminium cable confirming to IS:1554 P-I / IS :7098 P - I of 1.1 KV with H4- Grade electrolytic aluminium conductor confirming to IS 8130 of purity >99.6 % , round / flat strip armouring of cables, Inner / outer sheath confirming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray(with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810.For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	11.2.3	10.0 Sq. mm				
	11.2.3.3	4 core	Mtr	200	192.00	38400.00
21	11.2	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Armoured Aluminium cable confirming to IS:1554 P-I / IS :7098 P - I of 1.1 KV with H4- Grade electrolytic aluminium conductor confirming to IS 8130 of purity >99.6 % , round / flat strip armouring of cables, Inner / outer sheath confirming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray(with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810.For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	11.2.5	25.0 Sq. mm				
	11.2.5.3	3.5 core	Mtr	600.00	285.00	171000.00
22	11.2	Providing & Laying P.V.C. / XLPE insulated & P.V.C. sheathed Armoured Aluminium cable confirming to IS:1554 P-I / IS :7098 P - I of 1.1 KV with H4- Grade electrolytic aluminium conductor confirming to IS 8130 of purity >99.6 % , round / flat strip armouring of cables, Inner / outer sheath confirming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray(with cable tie) including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810.For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				

	11.2.12	185.0 Sq. mm				
	11.2.12.2	3.5 core	Mtr	50.00	1415.00	70750.00
23	12.1	Supplying and making one end termination with Nickel plated heavy duty brass single compression gland (as per IS 12943-1990)) SIBG type consisting of Check Nut, Gland Body, Metal Washer(3 Nos.), Outer Seal Rubber Ring, Compression Nut, heavy duty aluminium lugs (as per IS 8309 -1993) duly crimped with crimping tool, PVC tape as per IS 8337-1976 of following size of PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	12.1.32	4 x 10.0 sq.mm	Set	25	185.00	4625.00
24	12.1	Supplying and making one end termination with Nickel plated heavy duty brass single compression gland (as per IS 12943-1990)) SIBG type consisting of Check Nut, Gland Body, Metal Washer(3 Nos.), Outer Seal Rubber Ring, Compression Nut, heavy duty aluminium lugs (as per IS 8309 -1993) duly crimped with crimping tool, PVC tape as per IS 8337-1976 of following size of PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	12.1.33	4 x 16.0 sq.mm	Set	20	189.00	3780.00
25	12.3	Supplying and making end termination with heavy aluminium lugs ( Pin / ring type ) confirming to IS 8309 -1993 & IS 8337-1976 duly crimped with crimping tool, PVC tape etc of following size.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	12.3.5	10.0 Sq.mm	Each	200	4.0	800.00
26	12.3	Supplying and making end termination with heavy aluminium lugs ( Pin / ring type ) confirming to IS 8309 -1993 & IS 8337-1976 duly crimped with crimping tool, PVC tape etc of following size.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	12.3.14	185.0 Sq.mm	Each	50.00	44.00	2200.00
27	12.12	P / L of Double wall corrugated HDPE pipe confirming to IS : 16205 P-24, Stiffness Class 750 N, Externally corrugated and having smooth surface inside with HDPE Coupler, Elbow, Tee at required Depth below the ground for laying cable of following Nominal Outer dia. MFR Test report from NABL accredited is to be submitted.(Excavation of Earth & Back filling with compaction is to be Paid Extra)All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	12.12.5	110 mm	Mtr	650.00	226.00	146900.00

28	13.1	Providing & Laying XLPE insulated three core Armoured Aluminium cable for working voltage 11 K.V.(E) confirming IS :7098 P - 2 with H4- Grade electrolytic aluminium conductor confirming to IS: 8130 class-2 of purity >99.6 %, Insulation Screening: Extruded Semiconducting Compound followed by helically wrapped Copper Tape, round / flat strip armoring of cables , Inner / outer sheath PVC type ST-2 confirming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray including testing etc. as required of following size. OEM must have it's own in house NABL accredited Laboratory for testing procedure as per IS:10810 All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	13.1.4	3 core 185.0 Sq.mm	Mtr	650.00	1904.00	1237600.00
29	13.12	Providing & making heat shrinkable type indoor/outdoor/straight through terminations/ joint kit suitable for 11 KV / 33 KV (Earthed) cable with required components, preparation of cable ends. Type test report should be as per IS13573:2011 which covered all sequence for table 2 for termination kit and table 3 for streight through joint inclusive thermal & dynamic short circuit test, humidity test, soil fog test. Cross linking shall be done out side factory with E- beam/ peroxide technology. Extrusion process shall be in house OEM within same vicinity. including testing etc. as required of following sizes. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	13.12.2.3	3 core 120/150/185 Sq.mm	Each	6.00	8063.00	48378.00
30	14.3	Plate Earthing as per IS:3043 with copper Earth plate of purity >95% of size 600mm x 600mm x 3.0mm by embodying 3 mtr. below the ground level with 20 mm dia. G.I. 'B' class watering Pipe ,including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and Heavy duty weather proof poly-propylene earth pit chamber with lockable Jam free lid suitable for safe working load 5000 Kg or more of size Top Dia. 225 to 260 mm, Bottom Dia 300 to 350 mm. and Height 250 to 300 mm. and embodying the pipe complete with alternate layers salt and coke/ charcoal, testing of earth resistance for value of 5 ohms or less as required & must record by engineer in charge during site visit and ensure to enter in measurment book. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .	Set	14.00	15144.00	212016.00
31	14.6	Supply & Laying following size earth wire in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection with GI/Cu purity >95% thimble etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	14.6.5	8 SWG copper Wire	Mtr.	500.00	148.00	74000.00

32	14.7	Supply & Laying following size ' B ' class , G.I. Pipe confirming to IS : 1239 P - 1 ( 2004 ) with accessories like bend, socket etc. for laying earth conductor/ strip / cable in ground/ surface/ recess as required. All as per pre approved by Engineer in charge. (Earth Excavation will be Paid Extra)All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annex ure "A" attached with this BSR .				
	14.7.9	100 mm dia.	Mtr.	50.00	1657.00	82850.00
33	15.13	Providing & Fixing of of ventilating fans Capacitor start, copper wounded, single phase with PVC impeller, ABS body, automatic openable louver shutter in existing opening including making connection, testing etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	15.13.1	150 mm sweep	Each	2	1579.00	3158.00
34	15.20	S & F Extruded Aluminium Fresh Air / External Weather Louvre, Small Format type with 38 mm Flange width & 50 mm depth. Finish - Powder coated Off white with Alum. Mesh of required Size. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .	Sqm	5	8759.00	43795.00
35	17.4	Providing & Fixing of IP20, 2'x2' LED Surface/ Recessed mounting Mid power SMD type LED Light fixture not less than 50mm housing depth made from CRCA sheet steel housing, high purity / transmissivity UV stabilized Non - yellowish diffuser for uniform light distribution. High efficiency with 4 KV internal/external surge protection BIS certified isolated driver having efficiency > 85% , with Short & Open circuit protection (Integral with light fixture). System lumen efficacy of $\geq 120$ lm/Watt ,THD < 10 % , p.f. $\geq 0.95$ ,CRI >80 , life time of minimum 50000 Burning Hours with , 70% of intial Lumen maintaned till life ends , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing.				
		OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79 & LM80) certificate / Report from OEM shall be submitted. All as per pre approved by Engineer in charge. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	17.4.1.3	Minimum lumen output 4200 lm	Each	160	2984.0	477440.00
36	18.12	Providing & Fixing of IK08, IP 66 protected LED Street Light Luminaire on existing bracket / pole. Fixture made of powder coated single piece pressure die cast aluminum material with heat dissipation fins on housing with UV stabilized PC ( UV stablization report submitted for UV cover ) / Toughened Glass cover and secondary lens on each LED & should be SMD type of 3 to 5 watt each . The System efficacy $\geq 125$ lm / wt and potted driver & has a unique BIS R number with Input Voltage AC 120 to 270 V AC with High voltage Cutoff				

		@>=300 V AC and Auto resetting Safety , Power Factor >0.95 driver Efficiency >85% ,THD(I) <10% Humidity 10% to 90% RH Working Temp -5C to 45C . driver current <750mA. The luminaire shall be BIS certified and Trade mark certified. Life Expectancy Equal or more than 50000 burning hrs with Minimum 70% lumen maintained , CRI >70 and CCT 5700K +355K. Surge protection shall be min ≥ 4 KV internal and min 10 KV external inside driver compartment. driver should be Phase to phase protection of 440 V for 4 Hrs. Manufactures Word Mark/Name Engraved/Embossing on die cast housing to allow traceability/authenticity. Fixture shall be AS PER IS 10322 Complianced.OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79/LM80) Certificate/report with liable warranty of product/accessories from OEM shall be submitted. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	18.12.6	LED Street Light fixture with Minimum lumen output 11225 lm	Each	15.0	6765.0	101475.00
37	18.18	Providing & Fixing of Street light bracket made out from following size of ' B ' class , Medium class G.I. Pipe confirming to IS : 1239 P - 1 ( 2004 ) with heavy duty pole clamp, Saddles suitable fastners etc. as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	18.18.3	32 mm Dia.	Mtr.	15.0	742.0	11130.00
38	19.15	Supply and fixing of LT Distribution Kiosk confirming to IS:13947/1993/ IEC 60947 Pt.3 amended up-to-date and as per DISCOM specifications made of 2 mm thick powder coated CRCA sheet of 415 volts 3 phase 4 wire triple pole and neutral type, complete in all respect as required. Including Incoming Switch Disconnecter Fuse unit, Aluminium Busbar with copper one piece U contacts base, brass studs and nuts, copper busbar for main and interconnection, MS Channel frame of 75 mm x 40 mm grouted with C.C. of M-10 grade to achieve the height of 1.5 feet above the road level suitable for required no. outgoing. All as per pre approved by Engineer in charge.For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	19.15.2	400 Amp. LT Distribution Kiosk for 250/315 KVA Transformer	Each	1.00	64700.00	64700.00
39	23.2	S I T C of star rated Aluminium wound distribution Transformer of following rating 11/0.433KV Delta-Star Connected, Vector Group Dyn 11,ONAN Cooled & as per BEE star - 1 & BIS approved as per IS 2026- 1977 & losses as defined as per 2014 (Fourth Revision) Level-1 . including standard accessories like conservator, silica gel breather, radiator, fins, HT cable box & LT cable boxes, temperature rise in winding/oil 35-40 degree C upto 200 KVA & 40-45 degree C for above 200 KVA, ISI marked drain valve, Dial type Temperature gauge, first filling of transformer oil as per IS :335-1953, Epoxy based paint, including carrying of pre-commission Testing & Charging of Transformer complete in all respect .				

		The Transformer shall be subjected to routine factory tests (as per IS:2026 and IS:1180) including testing from CTL of discom before charging of transformer & complete installation must be certified from Electrical Inspectorate office as per Indian Electricity rule, (CTL testing charges and Electrical Inspection charges shall be reimbursed by the department to the contractor). All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	23.2.3	160KVA	Each	1	318922.0	318922.00
40	23.5	SITC of 11kV 630 Amps 21KA for 3 Sec. SF6 insulated, outdoor duty (IP54) , Extensible / Non extensible type Ring main unit (RMU) manually operated in combination of VCB modules and Load Break switch consisting of Copper busbar in SF6 insulated 304 (Non-Ferrite Non-Magnetic Grade) stainless steel enclosure of thickness 2.5mm with manometer. The HV switchgear and control gear should be confirming to IEC-62271-100, IEC-62271-200-2003 & IEC-60694-1996. The RMU should be internal arc tested for 21KA for 1Second with IAC-AFL classification for gas tank. Vacuum Interrupter of VCB should be RMU Manufacturer's own make. Each feeder of RMU should have voltage presence indicator. . and comprising of followings:- 1 no. microprocessor based Self powered numerical relay with over Current/ earth fault & short circuit protection with each VCB feeder. - 3 Nos. Protection CT shall be of Burden 2.5VA, ratio 50/1A, Class of Accuracy class 5P10 for O/C and E/F protection for each VCB.- 1 No. Manometer for each tank,- 1 nos. Fault Passage indicator,-Right angle boots for all the feeder Modules All the type test certificates as per IEC from Third party NABL / CPRI / ERDA accredited lab to be submitted. (Cost of RCC Foundation / Steel Structure to be paid Extra) All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR				
	23.5.2	Extensible 3 way RMU with 1 no. VCB & 2 No. Load Break Switch	Each	1	465880.0	465880.00
41	23.17	SITC of Radiator Cooled and Turbo charged Silent DG Set (As per latest CPCB emission norms) having specifications as per A, B, C, D, E, F,G,H & I				
		A) 1500 RPM Diesel Engine conforming to BS:649/5514 of suitable BHP (up to 82.5 kVA 6 cylinder or Below required, 125 kVA & Above ratings 6 cylinder or above required ) capable of taking 10% over loading for one hour after 12 hours of continuous operation., Dry exhaust manifold with Hospital grade silencer and catalytic convertor(isolated from main DG chamber), up to 3 M exhaust piping (with LRB insulation & Alum. cladding ) as required .				
		B) AC Brush less SPDP Alternator conform to BS 5000 (part 99) or IS/IEC 60034-1. . Alternator shall be self regulated with standard Alternator Protection( Over voltage , over speed & under voltage, under speed warning & shutdown).Engine & Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled				

		C) CPCB / ARAI approved Standard canopy with Weatherproof, powdercoated Accoustic enclosure for DG set for sound attenuation fabricated from 1.6 mm CRCA sheet steel (structure) with sidewall fabricated from 1.6 mm CRCA sheet & filled with glasswool (96Kg/m3) / Foam. as per IS8183 the doors of 28/40/50/85mm thick as perrating and fabricated from 1.6mm CRCA sheet packed with accoustic material, All doors/opening are sealed with neoprene /EPDNgaskets. The DG Set has Inbuilt / External in fuel tank to run 6 to 8 Hrs as per OEM standard, with protection and tripping of DG set against temperature of more than 50 degree centigrade.				
		D) Electronic / Mechanical governor, Manual & electric Start ,Batteries with battry charger, Engine instruments panel,AVM pads All controls for operation of DG set are from outside the enclosure with DG control panel having Microprocessor based Genset monitoring like Running Hour, RPM, Low Lube Oil tripping & control system, Panel mounted MCCB/ACB of suitable rating, Ammeter, Voltmeter, PF meter, frequency meter, KWH meter,digital fuel display meter, Ind.lamps etc. mounted inside enclosure , visible and accessible from outside. The enclosure should be suitable for following capacity DG sets and alternator. Noise level shall be less than 75 dB at a distance of 1 Mtrs. duly certified by authorised agency etc. complete in all respect of following capacity :				
		E) (i) Accoustic glass wool wall thickness should not be less then 40mm and not less then 20mm PU foam upto rating 100 KVA. (ii).Accoustic glass wool wall thickness should not be less then 65mm and not less then 50mm PU foam upto rating 250 KVA. (iii)Accoustic glass wool wall thickness should not be less then 100mm for rating above 250 KVA.				
		F) First filling of the fuel tank shall be done by contractor and the prevailing fuel cost at that time shall be reimbursed to the contactor by department.				
		G) Servicing Contract of DG Set from OEM's Authorised Service Dealer as per OEM guidelines during the DLP period shall be done by contractor including all consumables, actual charges shall be reimbursed to the contractor by End User Department.				
		H) Manufacturer / OEM must have its authorized service dealer in Rajasthan. Which can provide service within 6 Hours of compalint registration.				
		I) DG set will be offered for Inspection and Testing at Manufacturer's Works in presence of Departmental Engineers. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . (Make :- Kirlosker/ Cummins/ Ashok Leyland)				
	23.17.11	160 KVA at 0.8 pf 415V 50Hz 3-ø	Set	1.00	1481181.00	1481181.00
42	23.20	Supply & fabrication steel structure with MS channel / angle / joist / ISMB / sheet etc. including welding , rivetting, cutting, nut &bolt , one coat of primer & two coat of enamel paint etc. as required complete in all respect. All as per pre approved by Engineer in charge. For additional technical	Kg	1000.00	135.00	135000.00

		parameters of products/ work , refer Annexure "A" attached with this BSR .				
43	23.24	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level				
	23.24.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum.	5.00	4977.00	24885.00
44	23.29	SITC of PLC Based Auto main failure (AMF) Panel fabricated from CRCA sheet steel 2 mmThick , Powder coated finish , Engine Start & Stop commands, control Relays , Ammeter & Voltmeter with selector switches, Control & 2 nos 4 pole Power Contactors with 2 no. of required size 4 pole MCCB, Timers, Electronic Hooter ,Visual & Alarm indication for faults, UPS, operator interface panel complete in all respect suitable for following capacity DG sets: Appropriate Test Certificate/ report of product/accessories from OEM/Panel Manufacturer shall be submitted. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	23.29.4	160 to 200 KVA	Set	1.00	146082.00	146082.00
		Total				5779031.00

### Part-C (Air Conditioning work)

S. No	BSR Item No.	Description	Unit	Qty.	Rate	Amount
1	4.1	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor as per PWD specification for electrical Works with ISI marked (IS:694) and as per IS 8130 : 2013 of 1.1 kV grade . Wire should be made from 99.90 % purity copper, class 5 stranding in acc. to IS:8130/IEC 60228 for lower watt loss , oxygen free for less chances of oxidization, insulation PVC type A/C/D , flame retardant as per IS 10810-53, better amperage rating as per IS:3961part 5, in existing surface or recessed PVC/ MS conduit/casing capping making connections with Copper Lugs of suitable size, Ferrules,testing etc. as required. OEM Must have its own in house NABL lab setup for all testing facilities for wires. For additional technical parameters of product / work refer Annexure 'A' attached with this BSR				
	4.1.9	4 x 2.5 sq.mm	Mtr.	100	119.00	11900.00
2	22.4	P & F of Fire retardent flexible canvass connection made of fibreglass weave having silver grey silicon rubber coating, of height 200 mm with sufficient fold to avoid transmission of vibration with GI frame ,Gasket Nut Bolts for air cooling Plants/AHU/FCU etc as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .	Sq Mtr	10.0	2023.0	20230.00
3	22.8	Supply , Installation, Testing and Comissioning of factory fabricated SMACNA standard ducting made from GI sheet metal conforming to IS:277 with a zinc coating grade of 120GSM (both side inclusive) & fabricated as per IS:655 and as per approved drawings & designs including the cost of hangers, supports, angle, expansion fasteners , closed cell neoprene gasket T&P etc. as required of following thickness. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				



	22.8.1	0.60mm	Sqm	300.0	1295.0	388500.00
	22.8.2	0.80mm	Sqm	120.0	1552.0	186240.00
4	22.10	Supplying, installing, testing and balancing of double louvered of extruded Aluminium Powder coated supply/return air grills of various sizes, Each grill shall be with fixed aerofoil shaped horizontal front bar at 0 deflection and back adjustable vertical louvers, air distribution grid for straightening the air flow through the collar and register including fixing with steel screws etc. complete in all respect. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	22.10.1	Supply air grill with key operated volume control damper	Sqm.	15.0	10530.0	157950.00
	22.10.2	Return air grill without volume control damper	Sqm.	15.0	8438.0	126570.00
5	22.11	Supplying, installing, testing and balancing of extruded Aluminium powder coated Air Diffuser and complete with Flush, 20mm flanges with PVC/neoprene gasket, anti – smudge frame and removable inner core to facilitate the adjustable of air control damper, square/round/ rectangular as required.including fixing with steel screws etc. complete in all respect. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	22.11.1	Supply Air Diffuser with Volume Control damper	Sqm.	15.0	12219.0	183285.00
	22.11.2	Return Air Diffuser without Volume Control damper	Sqm.	15.0	9855.0	147825.00
6	22.14	Supply and fixing of acoustic lining of ducts with chemically cross link Oxide acetate foam open cell structure Acoustic Insulation with density 30 Kg / Sqm, UV protected and Class O Fire propperty Water Vapour absorption 0.002 gm / Sqcm, including cost of adhesive etc. complete in all respect. All as per pre approved by Engineer in charge. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	22.14.2	15 mm thick	Sqm.	81.0	978.0	79218.00
7	22.17	Supply & fixing of external thermal closed-cell Nitrile rubber Insulation material FM/UL approved with high water vapor diffusion resistance and low thermal conductivity should be certified 'Class O' in Fire Propagation as per BS 476 Part 6 in form of sheet on duct including cost of adhesive (CPRX Compound) complete as required. All as per pre approved by Engineer in charge.				
	22.17.1	9mm thick for indoor Application	Sqm	105.0	718.0	75390.00
	22.17.3	13mm thick for Outdoor Application with 26 SWG Aluminium Cladding	Sqm	105.0	1148.0	120540.00
8	22.26	SITC of air cooled ducted split type air conditioning machine with each having a capacity and details as mentioned below suitable for operation on factory charged R-32/R-410A Green refrigerant comprising of Scroll /rotary type compressor hermetically sealed complete with automatic capacity, safety switches, lubrication system, Suitable capacity squirrel cage induction motor with class 'B' insulation suitable for operation on sigle / three phase supply, 50 Hz, A.C. supply for Blower motor, Necessary drive arrangement for blower motor, Matching Air cooled condenser with necessary fittings for refrigerant piping connections, necessary structural support for mounting condensers, Microprocessor based control panel complete with accessories, machine isolation / disconnect switch, valves and accessories to inter connect compressor and condender including pressure testing, vacuum. Necessary starters suitable for Indoor & outdoor unit complete with O/L , U/V, phase reversal protection, single phase preventors etc complete as required. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . (Make: Sumsung/Blue Star/Daikin/Carrier)				
	22.26.4	8.5 TR	Each	10	226789.0	2267890.00

9	22.37	Gas charging of VRF/VRV system with R410A refrigerant gas. Before gas charging system shall be flushed with high purity Nitrogen Gas to remove carbon content, dirt particles to make sure that there is no chance of mixing any impurity with Refrigerant Gas. Thereafter System shall be tested with Nitrogen Gas at 1.5 Times of working pressure of R410 Refrigerant Gas to ensure leakproof system. Whole system shall be Vacuumed up to 500-micron level which ensures the zero-moisture content level in piping to ensure better cooling efficiency and long life of the system. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
			Kg	60	1821.0	109260.00
10	22.39	Supply, installation, testing and comissioning of interconnecting copper refrigerant piping of DHE Grade C12200- ASTM B68, B75, chemical composition of copper %- 99.0 Min and Phosphorus %- 0.015 to 0.040 . For Annealed copper tube :- Tensile strength = 210 Mpa wih elongation % = 40 Min . Ink Mark Brand Printing on Hard Tubes should be present. duly insulated with tubular elastomeric nitrile rubber FM/UL approved with high water vapor diffusion resistance and low thermal conductivity should be certified 'Class O' in Fire Propagation as per BS 476 Part 6 including chase cutting andfilling with mortar, Slotted channel supports mounted on 10 mm threaded rod at suitable spacing the exposed piping shall be wrapped with glass woven cloth and lag coating for vapour barrier and weather protection. Joints shall be covered with nitrile rubber tape of 3 mm thick complete as required of following sizes. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	22.39.4	28.6 mm O.D., wall thickness $\geq$ 1.2mm (insulation – 19 mm thick)	Mtr.	125	2563.0	320375.00
	22.40	Providing & Fixing of IS : 4985 - 2000 Class -4 (10 Kg / Sqcm) UPVC drain water piping with fittings (IS:7834 & 10Kg/sqcm) like elbow, socket, Tee, solvent cement jointing, support with MS hanger on ceiling or recessed in wall with chasing & plastering with 6 mm thick closed cell elastomeric nitrile rubber insulation including leakage testing etc. as required of following Nominal sizes. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR .				
	22.40.2	25 mm	Mtr.	60	229.0	13740.00
	22.40.3	32 mm	Mtr.	60	296.0	17760.00
		Total				4226673.00

**BOQ Part-3 (H - Schedule)**

**C.A.M.C. Proposal After Warranty / Guaranty Years**

S. No.	Years	Rate	G.S.T.	Total Amount
1	CAMC Rate for 1st Year after Warranty/ Guaranty			
2	CAMC Rate for 2nd Year after Warranty/ Guaranty			
3	CAMC Rate for 3rd Year after Warranty/ Guaranty			
4	CAMC Rate for 4th Year after Warranty/ Guaranty			
5	CAMC Rate for 5th Year after Warranty/ Guaranty			

Terms & Conditions :-

Conditional Tender shall be not accepted.

The Rates are based on P.W.D., Rajasthan BSR for building works 2022 & Electrical Works B.S.R. 2022.

In case of any typographical error or mistake in print the above B.S.R. shall be binding and final.

Rate should be mentioned ..... % above / below **(in words and in Figures)** on "G" SCHEDULE and itemwise rate should be mentioned for H- SCHEDULE

**Signature of Contractor**

**Compliance with the code of integrity and no conflict of interest**

Any person participating in a procurement process shall-

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process.
- (b) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation.
- (c) Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness, and progress of the procurement process.
- (d) Not misuse any information shared between the procuring entity and the Bidders with intent to gain unfair advantage in the procurement process.
- (e) Not indulge in any correction including impairing or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process.
- (f) Not obstruct any investigation or audit of a procurement process.
- (g) Disclose conflict of interest, if any, and
- (h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.

**Conflict of Interest:-**

The Bidder participating in a bidding process must have a conflict of interest.

A Conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligation, or compliance with applicable laws and regulations.

A Bidder may be considered to be in conflict of interest with one or more parties in a bidding process if, including but not limited to;

- a. Have Controlling partners/shareholders in common; or
- b. Receive or have received any direct or indirect subsidy from any of them; or
- c. Have the same legal representative for purpose of the bid; or
- d. Have the relationship with each other, directly or through common third parties, that puts them in a position to have access have to information about or influence on the bid of another Bidder, or influence the decision of the procuring entity the bidding process; or
- e. The Bidder participates in more than one bid in a bidding process. Participation by a Bidder in more than one bid will result in the disqualification of all Bids in which the Bidder is involved. However this does not limit the inclusion of the same subcontractor , not otherwise participating as Bidder, in more than one Bid; or
- f. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the goods, works or service that are the subject of the Bid; or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring entity as engineer-in-charge /consultant for the contract.

Place:

Date:

Signature of the Bidder with seal

**Declaration by the Bidder regarding qualifications**

In relation to my/our Bid submitted to Vardhman Mahaveer Open University, Kota for procurement of “संत सुधसागर सभागार भवन को Turn Key Basis पर सुसज्जित करने बाबत” in response to their Notice Inviting Bid No. **27 /2024-25** Dated **15-10-2024**. I/We hereby declare under section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that:

1. I/We possess the necessary professional, technical , financial and managerial resources and competence required by the Biding Document issued by the Procuring Entity;
2. I/We have fulfilled my/our obligation to pay such of the taxes payable to the union and the State Government or any local authority as specification in the Bidding Document;
3. I/We have are not insolvent in receivership, bankrupt or being wound up, not have my/our affairs administrated by a court or a judicial officer , not have my/our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons;
4. I/We do not have, and our directions and officers not have, been convicted of any criminal offence related to my/our professional conducted or the making of false statement or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceeding;
5. I/We do not have a conflict of interest as specification in the Act, Rules and the bidding document, which material affects fair competition;

Date:

Place:

Signature of bidder with seal

## **Grievance Redressal during procurement process**

The designation and the address of the first appellate authority is Hon'ble V.C. VMOU, Kota.

The designation and the address of second Appellate Authority is Secretary Higher & technical Education, Govt. Rajasthan.

### **(1) Filing an appeal**

If any bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the act or the rules or the Guidelines issued there under, he may file an appeal to first Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Providing that after the declaration of a bidder as successful the appeal may be filled only by a bidder who has participated in procurement proceeding:

Providing further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filled only by a Bidder whose Technical Bid is found to be acceptable.

- (2) The officer to whom an appeal is filled under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.
- (3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the Procuring Entity, as the case may be, may file a second appeal to second Appellate Authority specified in the Bidder Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the first Appellate Authority, as the case may be.

### **(4) Appeal not to lie in certain cases**

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) Determination of need of Procurement
- (b) Provisions limiting participating of Bidders in the Bid process;
- (c) The decision of whether or not to enter into negotiations;
- (d) Cancellation of a procurement process ;
- (e) Applicability of the provisions of confidentiality

### **(5) Form of appeal**

- (a) An appeal under para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payments of fee.
- (c) Every appeal may be presented to first Appellate Authority or Second Appellate Authority , as the case may be, in person or through registered post or authorized representative.

**(6) Fee for Filing Appeal**

- (a) Fee for first appeal shall be two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

**(7) Procedure for disposal of appeal**

- (a) The first Appellate Authority or Second Appellate, as the case may be upon filing of appeal, shall issued notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (b) On the date of fix hearing, the First Appellate Authority or second Appellate Authority , as the case may be-
  - (i) Hear all the parties to appeal present before him; and
  - (ii) Peruse or inspect documents , relevant records or copies thereof relating th the matter
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

Date:

Place:

Signatureof the Bidder with seal

**Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012**

Appeal No. .... of .....

Before the ..... (First / Second Appellate Authority)

1. Particulars of appellant:
  - i. Name of the appellant:
  - ii. Official address, if any:
  - iii. Residential address:
  
2. Name and address of the respondent(s):
  - i.
  - ii.
  - iii.
  
3. Number and date of the order appealed against and name and designation of the officer /authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provision of the Act by which the appellant is aggrieved:
  
4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:
  
5. Number of affidavits and documents enclosed with the appeal:
  
6. Grounds of appeal:  
.....  
..... (Supported by an affidavit)
  
7. Prayer:  
.....

**Place** .....

**Date** .....

**Appellant's Signature**



**Additional conditions of contract**

**1. Correction of arithmetical errors**

Provided that a Financial Bid is substantially responsive, that Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- (i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quality, the unit price shall prevail and the total price shall be corrected, unless in the opinion in the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (ii) If there is a error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accepted the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Deceleration shall be executed.

**2. Procuring Entity's Right to vary Quantities.**

- (i) At the time of award of contract, the quantity of goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit price or other terms & conditions of the Bid and the conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.
- (iii) In case of Procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Service Provider fail to do so, the Procurement Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Service Provider.

**3. Dividing quantities among one than more Bidder at the time of award (In case of procurement of Goods)**

As a general rule all the quantities of the subject matter of procurement shall be procured for the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and visit nature, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in

that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Date:

Place:

Signature of the Bidder with Seal

## ¼00 : 0 ds Non-Judicial Stamp ij Notary l Signed iLr dj½

1. मैं/हम M/s ..... नियंत्रक (वित्त), वर्धमान महावीर खुला विश्वविद्यालय, कोटा द्वारा जारी ऑन लाईन निविदा संख्या ..... दिनांक .....10.2024 में वांछित सिविल/इलेक्ट्रिकेशन/एयर कंडीशनिंग/ऑडियो सिस्टम कार्य हेतुसंबंधित श्रेणी में पंजीकृत हैं/ऑडियो सिस्टम संबंधी उपकरणों हेतु विनिर्माता द्वारा अधिकृत डीलर/वितरक है।
2. मेरी/हमारी फर्म उक्त निविदा के क्रम में बोलीदाता मैसर्स ..... के साथ कार्य करने को सहमत है।
3. मेरी/हमारी फर्म के पंजीयन प्रति अथवा ऑडियो सिस्टम संबंधी उपकरणों के लिये विनिर्माता द्वारा जारी ऑथोराइजेशन की प्रति संलग्न है।
4. बोलीदाता मैसर्स ..... के पक्ष में निविदा निर्णित होने की स्थिति में मेरी/हमारी फर्म निविदा की शर्तों एवं निर्धारित स्पेशिफिकेशन्स के अनुसार कार्य निष्पादित करने एवं गारन्टी /वारन्टी एवं CAMC अवधि में निर्बाध मरम्मत/सर्विस एवं स्पेयर पार्ट्स उपलब्ध करवाये जाने हेतु सहमत है।

हस्ताक्षर

(सहमति दाता/अॅथोराइज्ड फर्म)

हस्ताक्षर

(बोलीदाता फर्म)

हस्ताक्षर नोटेरी मय मोहर

## **PRICE CHARGING CERTIFICATE**

I/We hereby certify that the rate offered in Financial bid are reasonable and justified and we are not marketing lower rates to other department on condition of the tender and contract.

**SIGNATURE OF THE BIDDER  
WITH SEAL AND DESIGNATION**