

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
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मद्दवार / प्रतिशत निविदा दर तथा ठेका

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Certified that this NIT contains **1 to 39** pages

NIT Approved for **Rs. 5,58,384/-**

सहायक अभियन्ता (वैधुत),
शिमला केन्द्रीय वैधुत उप मण्डल-2,
केन्द्रीय लोक निर्माण विभाग,
हैड क्वार्टर आरट्रैक शिमला-171003

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING
PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
SHORT NOTICE INVITING TENDERS**

The Assistant Engineer (E), Shimla Central Elect. Sub Division-II, CPWD, HQ ARTRAC, Shimla (H.P.) (Ph : 0177-2650764) on behalf of The President of India invites online **Percentage Rate** tenders from approved and eligible contractors of CPWD in Building and Road Category for the following work (s):

S. No.	NIT No.	Name of work & Location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of Bid, original EMD, copy of receipt for deposition of original EMD, and other documents as specified.	Time & date of opening of bid
1	2	3	4	5	6	7	8
1	44/EE(E)/ShCED/2026-27/SD-2	Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.).	Rs. 5,58,384/-	Rs. 11,168/-	One (01) Month (s)	30/06/2026 upto 3.00 PM	30/06/2026 upto 3.30 PM

- The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD- 6 and other terms and conditions given in the NIT and drawings. The bidder should also read the General Conditions of Contract for CPWD– 2023 amended upto circular bearing No. General Conditions of Contract for CPWD – 2023 Maintenance Works amended upto circular bearing No. DG/CON/Maintenance 2023/19 date: 25-03-2026 Maintenance Works), with up to date correction slips, which is available as Government of India Publications; however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online. They are requested to comply following instructions.
 - Tenders with any condition including that of conditional rebates shall be rejected forthwith.
 - The successful bidder shall be required to submit a Performance Guarantee and Additional Performance Guarantee (APG) (if applicable) (as per Office Memorandum No. DG/Manual-2024/20 Dated: 27.02.2026)
 - 5% of Estimated cost put to tender (ECPT) or Contract Amount whichever is higher, Performance Guarantee shall remain Valid for a minimum period of Six Months beyond the date of completion of all contractual obligations.

- b). Requirement of Additional Performance Guarantee (APG): In case of abnormally low bids, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (as per Office Memorandum No. DG/Manual-2024/20 Dated: 27.02.2026) within 7 days of issue of letter of intent. This period can be further extended by Engineer-in-Charge up to a maximum period of 5 days on the written request of the contractor and with late fee as defined in Schedule - F.
- (C) GST and Labour-Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.
- (D) It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons.
2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
 3. Information and Instructions for bidders posted on website shall form part of bid document.
 4. The bid document consisting of plans, specifications, the Schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www. etender.cpwd.gov.in](http://www.etender.cpwd.gov.in) or www.eprocure.gov.in free of cost.
 5. But the bid can only be submitted after **deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of Bid submission** and uploading the mandatory scanned documents such as Demand draft or pay order or Banker's Cheque or Deposit at Call Receipt or FDR and Bank Guarantee of any Scheduled Bank towards EMD in favour of **Executive Engineer (E), SCED, CPWD, Longwood, Shimla, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD** and other documents as specified.
 6. Those contractors not registered on the website mentioned above, are required to get registered before had. If needed they can be imparted training on online tendering process as per details available on the website.
 7. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
 8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
 9. Contractor can upload documents in the form of JPG format and PDF format.
 10. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered; it turns sky blue.
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
 11. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI Limited.

**LIST OF DOCUMENTS TO BE SCANNED AND UPLOADED WITHIN THE PERIOD OF BID
SUBMISSION: -**

1. Treasury Challan/Demand Draft/Pay Order or Banker's Cheque/Deposit at Call Receipt / FDR/ Bank Guarantee of any Scheduled Bank against EMD.
2. **Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD.**
(EMD is required to deposit in the office of Executive Engineer (Elect.), Shimla Central Electrical Division, CPWD, Longwood, Shimla who is inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission as per CPWD Works Manual-2024 and associated SOP Provision 5/1 (Refer Para 5.1.3 (1) CPWD OM No. DG/Manual-2024/Misc./01 dated 15-07-2024). If the EMD is deposited in Sub Division office then it shall not be considered and tender shall be rejected).
3. **Enlistment order of the contractor.**
4. Certificate of Registration of GST.
If the bidder *has not obtained* GST registration as applicable then the bidder shall upload following undertaking with the bid document **"If work is awarded to me, I/We shall obtain GST registration certificate as applicable within one month from date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I / We shall be responsible for any delay in payments which will be due towards me/us on a/c of work executed and or any action taken by CPWD or GST department in this regard."**
5. Valid electrical contractors license Or an undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate contractor having valid electrical contractor license.
6. Email, Mobile Number and mailing address of the firm / agency on the letter head of firm/ agency. (for making correspondence).
7. The bidder does upload compulsory ERP training certificate from any CPWD Regional Training Institute (RTIs) and training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA Ghaziabad or through any other special training arranged by ERP unit of CPWD. Attach - ERP workshop certificate.
8. Any other document specified in the NIT.

Assistant Engineer (Electrical)
Shimla Central Electrical Sub Division-2
Central Public Works Department
HQ ARTRAC, Shimla - 171003

CPWD-6 FOR e-TENDERING

1. Online **Percentage Rate** tenders are invited on behalf of President of India from approved and eligible contractors of CPWD in Building and Road Category for the following work of **Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.)**.

The enlistment of the contractors should be valid on the last date of submission of bids.

In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to **cost Rs. 5,58,384/-** This estimate, however, is given merely as a rough guide.
- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

For composite bids, besides indicating the combined estimated cost put to bid, should clearly indicates the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

- 1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority: -

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under: -

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid)

- 2 Agreement shall be drawn with the successful bidder on prescribed Form No. **CPWD 7** which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
- 3 The time allowed for carrying out the work will be **One (01) Month (s)** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
- 4 The site for the work is available: Yes
- 5 The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website www.tenderwizard.com/CPWD or www.cpwd.gov.in, in free of cost.
- 6 After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- 7 While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

- 8 When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
- 9 Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer (E), SCED, CPWD, Longwood, Shimla**) shall be scanned and uploaded to the e-tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE / AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.**

This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any schedule bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. ~~However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.~~

Copy of Enlistment Order and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of tender submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

Online bid documents submitted by intending bidders shall be opened only of those bidders, **who's original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.**

The bid submitted shall be opened on **30/06/2026 upto 3.30 PM.**

- 10 The bid submitted shall become invalid and e-tender processing fee shall not be refunded if:
- 10.1 The bidder is found ineligible.
 - 10.2 The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - 10.3 If any, discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - 10.4 If a tenderer quotes 'Nil' rates against each item in Percentage rate tender or does not quote any percentage above/below on the total amount of the tender or any section/ subhead in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11 The contractor, whose bid is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12 **The description of the work is as follows: -**

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13 The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.

14 Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

15 The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.

16 The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are

- subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
- 17 No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
- 18 The bid for the works shall remain open for acceptance for a period of ✓thirty/ seventy five (✓30/75) days from the date of opening of bids in case of single bid system / ~~Sixty (60) days~~ Further
- 18.1 If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- 18.2 If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- 18.3 In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
- 19 This notice inviting Tender shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.
- 20 The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Phone no 01772650764 e- mail Id ae2_cpwde_sml@yahoo.com or ERP helpline no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.
- 21 Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under: -
- (i) For work(s) upto and equal to an estimated cost of Rs. 2.80 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case(s).

- (ii) For work(s) beyond an estimated cost of Rs. 2.80 lakh and upto and equal to estimated cost of Rs. 6.40 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.

The price preference upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor only. The above concession shall be allowed only after verification of the individual contractor's claim of belonging to SC/ST community.

Assistant Engineer (Electrical)
Shimla Central Electrical Sub Division-2
Central Public Works Department
HQ ARTRAC, Shimla - 171003

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE : Shimla (H.P.)
DIVISION ShCED

CIRCLE SCC Shimla
REGION Chandigarh

BRANCH E & M
SUB-DIVISION-II

Percentage Rate Tender & Contract for Works

Tender for the work of Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.).

- (i) To be submitted by **3:00** hours **on 30/06/2026** to **Assistant Engineer (E), SCESD-II, CPWD, Shimla.**
- (ii) To be opened in presence of tenderers who may be present at **3:30** hours on **30/06/2026 in the office of Assistant Engineer (E), SCESD-II, CPWD, Shimla.**

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule „F“, viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **✓thirty/ seventy five (✓30/75)** days from the date of opening of bids in case of single bid system/ ~~Sixty (60) days from the date of opening of technical bids in case bids are invited on 2 or 3 bid/envelope system~~ (strike out as the case may be) and not to make any modification in the terms and conditions

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance surety bonds, account payee demand draft, fixed deposit receipt, banker's cheque of bank guarantee (as prescribed) issued by a commercial bank, is scanned and uploaded. If I/we, fail to furnish the prescribed performance guarantee with prescribed period, I / We agree that the said President of India or his successors in the office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a

guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.0 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or both Earnest Money and performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/We, am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the state.

Dated

Signature of the Contractor

Postal Address -----

Telephone No.-----

FAX -----

E-MAIL -----

Witness:-----

Address:-----

Occupation:-----

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs. _____/- (Rupees _____).

The letters referred to below shall form part of this contract agreement: -

(a) -----

(b) -----

(c) -----

For & on behalf of the President of India
Signature.....

Dated

Designation.....

SCHEDULES

SCHEDULE 'A'

Schedule of quantities (enclosed)

---As per Schedule of work---

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

S.No.	Description of item	Qty.	Rates in figures & words at which the material will be charged to the contractor.	Place of issue
1	2	3	4	5
.....NIL				

SCHEDULE 'C'

Tools and plants to be hired to the contractor:

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
.....NIL			

SCHEDULE 'D'

Extra schedule for specific requirements / :
documents for the work, if any.

NIL

SCHEDULE 'E'

Reference to General Conditions of contract	:	Applicable GCC is GCC Maintenance Works 2023 as modified and corrected upto previous day of the last date of submission of the tender.
Name of work	:	Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.).
Estimated cost of work	:	Rs. 5,58,384/-
(i) Earnest money	:	Rs. 11,168/- (To be returned after receiving performance guarantee)
(ii) Performance Guarantee	:	a). 5% of estimated cost put to tender (ECPT) or tender value whichever is higher. b). Where the tendered amount is less than eighty percent (80%) of the estimated cost put to tender (ECPT), the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tender amount.
(iii) Security deposit	:	2.5% of tendered Value

SCHEDULE 'F':-

General Rules & Directions: -

Officer inviting tender:	:	Assistant Engineer (E), SCESD-II, CPWD, HQ ARTRAC, Shimla
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Definitions:

2 (v) Engineer-in-Charge	:	Assistant Engineer (E), SCESD-II, CPWD, HQ ARTRAC, Shimla
2 (viii) Accepting Authority	:	Assistant Engineer (E), SCESD-II, CPWD, HQ ARTRAC, Shimla
2 (x) Percentage on cost of materials and labour to cover all overheads and profits.	:	15 %
2 (xi) Standard schedule of Rates	:	Based on Market Rates/ DSR -2025
2 (xii) Department	:	CPWD
9 (ii) Standard CPWD contract form	:	Standard CPWD contract form from GCC Maintenance work 2023, CPWD Form 7 / 8 as modified and corrected upto previous day of the last date of submission of the tender.

Clause 1

Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour license, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	:	07 days
Maximum allowable extension with late fee 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above.	:	03 days 08 th day to 10 th day

Clause 2

Authority for fixing compensation under clause – 2	:	Superintending Engineer, SCC, Kennedy Cottage, Shimla
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Clause 2A

Applicable Clause 2/ Clause 2A

:

Clause 2 A

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start

10 Days

Note:- Levy of compensation under clause-2/2A will be granted by the **Superintending Engineer, SCC, Kennedy Cottage, Shimla**

MILE STONE (S) AS PER TABLE GIVEN BELOW

Table of Milestone (s)

S.No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	% Amount of tendered cost to be with-held in case of non-achievement of milestone
-----NIL -----			

Time allowed for execution of work : **One (01) Month (s)**

Authority to decide:

1. Authority to convey the decision of shifting of milestone and extension of time	:	Engineer-in-Charge
2. Authority to decide rescheduling of mile stones and extension of time	:	Superintending Engineer, Shimla Circle, CPWD, Kennedy Cottage,
3. Shifting of date of start in case of delay in handing over of site	:	Superintending Engineer, Shimla Circle, CPWD, Kennedy Cottage,

Clause 5 :-

Applicable Clause 5/ Clause 5A : **5A**

Clause 6 :-

Mode of Measurement : Electronic Measurement Book (EMB) / CMB

Clause 7 :-

Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment. **As per mutually agree**

Clause 7 A:-

Whether Clause 7A shall be applicable. : **Yes**

Clause 10A :-

List of testing equipment to be provided by the contractor at site lab. : **As per requirement at site & as per direction of Engineer-in-Charge.**

Clause 10 – B(ii) :-

Whether clause 10-B(ii) shall be applicable : **Not Applicable**

Clause 10C –

Component of labour expressed as percent of value of work : **Not Applicable 15 %**

Clause 10CC :-

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding 12 months period. : **Not Applicable**

Schedule of component of other Materials, Labour, POL etc. for price escalation.

Component of civil (Except materials covered under clause 10 CA)/ Electrical construction materials expressed as percent of total value of work. Xm

Component of labour expressed as percent of total value of work. Y **Not Applicable**

Component of POL expressed as percent of total value of work. Z

Clause 11 :-

Specifications to be followed for execution of work

: As per CPWD General Specifications amended up to date and additional terms & conditions attached.

Clause 16 :-

Competent Authority for deciding reduced rates.

Superintending Engineer, Shimla Circle, CPWD, Kennedy Cottage, Shimla - 171004

Clause 18 :-

List of mandatory machinery, tools & plants to be deployed by the contractor at site.

Multimeter, Magger, Earth resistance tester, Clamp meter, Crimping tool etc. as per direction of Engineer-in- Charge

Clause 19 :-

The contractor shall obtain a valid license under the contract labour (R&A) Act, 1970 ; and the contract labour (Regulation & Abolition) Central Rules, 1971 before the Commencement of the work & continue to have a valid license until the completion of the work provisions of the inter-state Migrant Workman (Regulation of Employment and Condition of Service) Act, 1979.

Clause 19 L:-

The E.S.I. and E.P.F. Contribution on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of employer paid by the contractor shall be reimbursed by the Engineer-in-Charge to the contractor on actual basis. The applicable & eligible amount of E.P.F. and E.S.I. shall be reimbursed preferably within 07 days but not later than One (01) Month (s) of submission of documentary proof of payment provided the same are in order.

Clause 25**Dispute Redressal Committee**

For all claim in the dispute

As per general condition of contract 2023 (Maintenance work) and amended upto date.

Clause 32		Requirement of Technical Representative(s) and Recovery Rate (Rs.)			
Cost of work (Rs. in Crore)	Requirement of Technical Staff		Minimum experience (Years)	Designation of technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause
	Qualification	Number (Civil + Electrical)			
-----NIL-----					

Clause 38 :-

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of N.A printed by CPWD with upto date correction slips.
- (ii) Variations permissible on theoretical quantities:

a) Cement for works with estimated cost put to tender not more than Rs. 5 lakhs	N/A
for works with estimated cost put to tender more than Rs 5 lakh	N/A
b) Bitumen for all works.	N/A
c) Steel Reinforcement and structural steel sections for each diameter, section and category.	N/A
d) All other materials.	Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor.	
		Excess beyond permissible variation	Less use beyond the permissible variation
-----NIL-----			

Assistant Engineer (Electrical),
Shimla Central Electrical Sub Division-II,
Central Public Works Department,
HQ ARTRAC, Shimla-171003

Receipt of deposition of original EMD
(Receipt No. / Date.)

- 1 Name of work: - **Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.).**
- 2 NIT No. **44/EE(E)/ShCED/2026-27/SD-2**
- 3 Estimated Cost :- **Rs. 5,58,384/-**
- 4 Amount of Earnest Money Deposit :- **Rs. 11,168/-**
- 5 Last date of submission of bid :- **30/06/2026 upto 3:00 PM**

- 1 Name of Contractor :-#
- 2 Form of EMD :-#
3. Amount of Earnest Money :-#
4. Date of Submission of EMD :-#

Signature, Name and Designation of EMD
Receiving officer (EE/AE(P)/AE/AAO)
Along with office stamp

(#To be filled by EMD receiving EE)

Note: -

- 1) EMD should be in favour of Executive Engineer (Elect.), Shimla Central Electrical Division, CPWD, Longwood, Shimla.
- 2) EMD is required to deposit in the office of Executive Engineer (Elect.), Shimla Central Electrical Division, CPWD, Longwood, Shimla who is inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission as per CPWD Works Manual-2024 and associated SOP Provision 5/1 (Refer Para 5.1.3 (1)) CPWD OM No. DG/Manual-2024/Misc./01 dated 15-07-2024). If the EMD is deposited in Sub Division office then it shall not be considered and tender shall be rejected.

Form of Earnest Money Deposit Bank Guarantee Bond

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated (date) for the construction of (name of work) (hereinafter called "the Tender") KNOW ALL PEOPLE by these presents that we (name of bank) having our registered office at (hereinafter called "the Bank") are bound unto (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. (Rs. in words) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents. SEALED with the Common Seal of the said Bank thisday of 20... . THE CONDITIONS of this obligation are:

(1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;

OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of his first written demand, without the Engineer-in-Charge having to substantiate his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date* after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(SIGNATURE, NAME AND ADDRESS)

***Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.**

On non-judicial stamp paper of minimum Rs. 100
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit /performance Guarantee/Security
Deposit/Mobilization Advance

1. Whereas the Executive Engineer (name of division) CPWD on behalf of the President of India (herein after called "The Government") has entered into an agreement bearing number.....with(name and address of the contractor)..... (hereinafter called "the Contractor") for execution of work..... (name of work)..... The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as Performance Guarantee/~~security Deposit/Mobilization Advance~~ from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of the bank)..... (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs.,.....,..... (Rupees only) on demand by the Government within 10 days of the demand.
3. We,(indicate the name of the Bank)..... do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly)
4. We,(indicate the name of the Bank)..... further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank)..... further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, (indicate the name of the Bank)..... further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
8. We, (indicate the name of the Bank) undertake not to revoke this guarantee except with the previous consent of the Government in writing.
9. This guarantee shall be valid up tounless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witnesses:

Authorized signatory

Name

Designation

Staff code no.

Bank seal

1. Signature.....
Name and address
2. Signature
Name and address

SCHEDULE OF WORK

Name of work:- Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.).

S. No	Description of Item	Qty		Rate	Unit	Amount
	Internal Wiring					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.					
a)	Group C	20	Points	2101.00	Point	42020.00
2	Wiring for group controlled (looped) light point/fan point/ exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.					
b)	Group C	10	Points	994.00	Point	9940.00
3	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
a)	3 x 1.5 sq. mm	100	Mtrs	104.00	Mtr	10400.00
b)	3 x 4 sq. mm	120	Mtrs	222.00	Mtr	26640.00
c)	6 x 4 sq. mm	80	Mtrs	424.00	Mtr	33920.00
d)	3 x 6 sq. mm	80	Mtrs.	326.00	Mtr.	26080.00
4	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
a)	20 mm	90	Mtrs	254.00	Mtr	22860.00
b)	25 mm	180	Mtrs	289.00	Mtr	52020.00
c)	32 mm	75	Mtrs	360.00	Mtr	27000.00
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	10	Nos.	757.00	Each	7570.00
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	6	Nos	659.00	Each	3954.00
7	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
a)	5/6 amps switch	27	Nos	121.00	Each	3267.00
b)	15/16 amp switch	9	Nos	176.00	Each	1584.00
c)	3 pin 5/6 amp socket outlet	27	Nos	136.00	Each	3672.00
d)	6 pin 15/16 amp socket outlet	9	Nos	219.00	Each	1971.00
8	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.					
a)	12 Module (200mmX150mm)	9	Nos	614.00	Each	5526.00
	fixture and LED fitting					

S. No	Description of Item	Qty		Rate	Unit	Amount
9	LED Down lighter (SMD Type) (efficacy $\geq 105 < 120$ lm/Watt) Supplying, Installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $>85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -50C to 400C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) < 19 , Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K /4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3 , Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminum Body including trim -18 watt	12	Nos.	920.00	Each	11040.00
10	LED Panel light 2x2 ft. (System lumen efficacy $\geq 120 <135$ lm/Watt) Supplying, Installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) <19 , Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained tilllife ends, CCT 3000°K / 4000°K / 5700°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard., Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 120 <135$ lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminum Body (Thickness > 1.20 mm) a)36 watt	10	Nos.	2962.00	Each	29620.00

S. No	Description of Item	Qty		Rate	Unit	Amount
11	Supplying, installation, testing and commissioning of 250 mm dia fresh air fan with louvers / shutters in plastic /ABS body suitable for 230 V single phase 50 HZ AC supply making necessary mounting arrangement connection testing etc, as required.	4	Nos.	1596.00	Each	6384.00
	Distribution					
12	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB / Isolator).					
a)	12 way, Double door	1	Nos	2871.00	Each	2871.00
b)	8 way, Double door	1	Nos	2773.00	Each	2773.00
13	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a)	Single pole	16	Nos	285.00	Each	4560.00
b)	Single pole and neutral	2	Nos	643.00	Each	1286.00
14	Supplying of following size XLPE aluminum conductor armored power cable of 1.1 KV grade as per IS 7098 (P-1) 1988 complete in all respect etc. as required.					
a)	3x16 Sq. mm	100	Mtrs	307.00	Mtr	30700.00
15	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	100	Mtrs	50.00	Mtr	5000.00
16	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
a)	Upto 35 sq. mm (Clamped with 1 mm thick Saddle)	100	Mtrs	64.00	Mtr	6400.00
17	Cooling Type AC units					
18	Supplying, installation, testing and commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/ R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low & high voltage cutoff and 50 hz, 1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 0C. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply: Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electrotechnical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS: 1391 Part II 2023. The system shall be able to operate up to 50 0C (outdoor ambient temperature).					
a)	1.0 TR with 5 Star BEE Rating	1	No	40580.00	Each	40580.00

S. No	Description of Item	Qty		Rate	Unit	Amount
19	Supplying, installation, testing and commissioning of Air Cooled Floor standing Tower type split Air conditioners complete with Indoor unit (IDU), Outdoor unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5 Mtr (IDU to ODU), copper power cable upto 5.5 Mtr (IDU to ODU), i/c drain pipe of suitable length and size R-32/R-410/R-407C Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low & high voltage cutoff and 50 hz, 1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary with min 5-year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). as specified. The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited as per International Electrotechnical Commission (IEC) 17025 standards / Central Power Research Institute (CPRI)/ Electrical Research and Development Association (ERDA) with Original Equipment Manufacturer (OEM) etc. complete as per CPWD specification and as per IS: 1391 as required.					
a)	3.8 TR BEE 4 Star Rating	1	No	138746.00	Each	138746.00
				Total Rs.		558384.00

Assistant Engineer (Electrical),
Shimla Central Electrical Sub Division-II,
Central Public Works Department,
HQ ARTRAC, Shimla-171003

GENERAL CONDITIONS

1 General

The work shall be executed as per CPWD General Specifications for Electrical Work Part-I (Internal) 2023, Part-II (External) 2023 as amended upto date wherever applicable, as per relevant IS and as per directions of Engineer-in-Charge. The technical specifications are to be read in conjunction with above and in case of variations, technical specifications of tender document shall apply. Nothing extra shall be paid on account of additional features in the technical specifications as the same are to be read along with schedule of quantities for the work.

Location: ARTRAC, Shimla (H.P.)

1.1 The Department shall not issue any T & P and nothing extra shall be paid on this account.

1.2 The work to be awarded by this tender shall be treated as indivisible works contract.

- 2** No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.

3 Rate:

The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including GST), custom duty, entry tax, duties and levies and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risks, overhead charges, general liabilities/obligations and clearance from local authorities.

4 Completeness of tender:

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

5 Storage and custody of materials:

Contractor has to make his own arrangement for storage of material and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

6 Care of the Building:

Care shall be taken by the contractor while handling and installation the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

7 Completion period:

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of General arrangement drawings, supplying, installation, testing, commissioning and handing over of the entire installation to the satisfaction of the Engineer-in-charge.

8 Performance Guarantee:

- 8.1 The tenderer shall guarantee among other things, the following vis-à-vis specifications.
- a. Quality, strength and performance of the materials used.
 - b. Safe mechanical and electrical stress on all parts under all specified conditions of operation.

9 Defect Liability Period:

- (i) All the equipment's shall have defect liability period of **12 months** to be reckoned after the date of recording of completion certificate by the department.

The equipment's or components, or any part thereof, so found defective during warrantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor.

- 10** Contractor has to submit OEM test certificate at the time of submission of bills.

- 11.** Proper Shop Drawing Scheme Plan showing piping route & accessories need to be approved before executive of work.

12 Power Supply:

Power Supply for the purpose of Installation of plant and equipment shall be arranged by the tenderer.

- 13.** The bidder should submit undertake to use material as specified in the technical specification of tender including makes and declare that no deviation will be taken from the specifications, makes as specified in tender during execution.

- 14. Water Supply:** - Contractor has to make arrangement of water for testing of Fire Fighting Work.

- 15.** In case Engineer-in-charge feels that some brand is not meeting the product specifications, the same shall not be allowed even if its brand name is included in list of approved make/brand. No claim of contractor on this account shall be entertained.

- 16.** Bidder should submit original leaflet & letter of authority from the manufacturer.

17 Compliance with Regulations and Indian standards

- 17.1** All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to this work. In particular, the equipment and installation shall comply with the following:

- a. Factories Act
- b. Indian Electricity Rules
- c. I.S. & BS Standards as applicable
- d. Workmen's compensation Act
- e. statutory norms prescribed by local bodies

- 17.2** Nothing in this tender shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

18 Indemnity:

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipment and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer due to the above.

19 Erection Tools:

No tools and tackles either for unloading for shifting the material for erection purposes would be made available by the department. The successful tenderer shall make own arrangement for all these facilities.

20 Mobilization Advance:

No mobilization advance shall be paid for this work.

21 Verification of correctness of Equipment at Destination:

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

22 Painting:

This shall include cost of painting of entire exposed iron work in the installation. All material works shall be painted at the works before dispatch to the site.

23 Quality Assurance:

23.1 The conduiting plan, Internal EI layout, schematic diagram as per contract specifications shall be prepared by the respective contractor and will be submitted by contractor duly signed before placing the order. The engineer-in-charge shall approve the shop drawing/ plan /layout as per contract conditions.

23.2 All the materials to be used in the work shall be new and of good quality and shall be not older more than 6 months from the date of receipt at site or year of manufacturing should be current. The equipment shall be procured directly from the manufacturer or authorized dealer and delivery challan / proof of dispatch of material of the Agency from where the material is purchased in support of genuineness of material shall be submitted along with bill for verification.

23.3 Manufacturer test certificates of all the equipment and material shall be submitted along with supply.

24 Department may send any material for testing. Testing charges if any shall be borne by the contractor. No amount will be paid for sample material sent for testing purpose.

25 Completion Plans:

After completion of work the contractor shall submit three sets of manufacturer's maintenance and operating instructions.

26. The order of preference in case of any discrepancy as indicated in condition No. 8.1 under "Conditions of Contract" give in standard CPWD contract form may be read as the following:

- i) Nomenclature of items as per schedule of quantities.
- ii) General conditions, Particular specification and additional condition, if any.
- iii) CPWD specifications.
- iv) Architectural Drawings
- v) Indian standard specifications of B.I.S.
- vi) Sound Engineering Practice

A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard upto last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site.

Assistant Engineer (Electrical)
Shimla Central Electrical Sub-Division-2
Central Public Works Department
HQ ARTRAC Shimla-171003(HP)

ADDITIONAL CONDITIONS FOR IEI WORK

1.0 GENERAL

SCOPE OF WORK:

The specifications given below pertain to the internal electrical installation work and CPWD Specifications are to be followed.

POINT WIRING:

- 2.1 The wires used for the point wiring and power wiring shall be of 650 / 1100 Volts grade FRLS PVC insulated multi stranded copper conductor single core cables.
- 2.2 All mounting boxes for plate type accessories shall be of metallic construction and of the same make as that of the plate type switches and accessories.

3.1 COPPER AND ALUMINIUM CABLES

- 3.1.1. This specification covers the supply, installation, testing and commissioning of 1100 V grade cables.
- 3.1.2 The design, manufacture and performance of the cables should conform to the relevant IS.

4.0 MOULDED CASE CIRCUIT BREAKERS

- 4.1 The MCCBs shall comprise single units of triple pole/four pole construction as specified, shall be rated for 415 V AC.
- 4.2 All live parts shall be totally enclosed and shrouded with a heat resistant moulded insulating material housing. Operating mechanism shall be quick make, quick break and trip free type.
- 4.2.1 The MCCB shall be provided with the following features in microprocessor Release:
 - a) Inverse-time-current tripping characteristics under sustained overload.
 - b) Instantaneous tripping on short circuit
- 4.3 MCCBs shall be of current limiting type.
- 4.4 The rated service breaking capacity (Ics) shall not be less than the ultimate short circuit breaking capacity (Icu = Icu)
- 4.5 Variable Thermal setting shall be provided in all MCCB s with thermal magnetic Release.
- 4.6 All circuit breaker below 250 amps rating shall be provided with thermal magnetic Release & circuit breakers of 250 amps rating and above shall be provided with Microprocessor based release unless otherwise specified.
- 4.7 All MCCBs shall be provided with rotary handles and links for which nothing extra shall be paid.
- 5.0 MCB's & DB's shall be of same make.
- 6.0 Guarantee of other equipment's except LED : All equipment's shall be guaranteed for period of 12 months from the date of taking over the installations by the department against unsatisfactory performance and/or break down due to defective design, workmanship of material. The equipment's or components, or any parts thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this the same will gotbe done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final.

- 7.0 Guarantee for LED fittings & fixtures
- All the LED Bulbs/ LED fittings shall be guaranteed for a period of 5 Years and the agency shall submit guarantee /warranty certificate issued by the OEM / Manufacturer, specifically issued for this work/ agreement, before payment of final bill.
 - 50% of the Performance Guarantee for tendered amount of LED fittings, shall be refunded to the contractor soon after the completion of the work and after recording of the completion certificate.
 - 50% of the Performance Guarantee for tendered amount of LED fittings, shall be retained as Security Deposit.
 - 50% of the Performance Guarantee retained on tendered amount of LED fittings, as Security Deposit plus 2.5% Security Deposit already deducted from running bills (total 2.5 +2.5 = 5% of tendered amount of LED fittings) shall be refunded year wise proportionately.
 - Sample of any quantity & any type of LED fitting at random selected from the material supplied at site as per discretion of Engineer-In-charge may be sent to any NABL/UL accredited lab for the checking and verification of its performance parameter as per LM-79/ 80 report. This expenditure cost shall be borne by the department. However, in case of failure of sample or the sample not found as per specification, the expenditure on this A/C shall be recovered from the bill of the contractor and the material shall required to be removed from the site.
- 8.0 The contractor shall arrange to submit LM -79 & LM -80 reports from LED manufacturer for each and every type of LED fittings.
- 9.0 In the acceptable makes of fitting model No. of one of the acceptable make has been mentioned for guidance. However, the contractor is free to supply any of the 3 makes, provided the parameters of the fittings match with the fitting model No. mentioned in NIT. The decision of Engineer-in-charge shall be final.
- 10.0 The lamp color temperature shall be intimated by Engineer-in-charge/his representative at site.
- 11.0 In the acceptable makes of fitting model No. of one of the acceptable make has been mentioned for guidance. However, the contractor is free to supply any of the 3 makes, provided the parameters of the fittings match with the fitting model No. mentioned in NIT. The decision of Engineer-in-charge shall be final.

12.0 TECHNICAL SPECIFICATIONS OF LED LIGHTS

S.No.	Parameters	Technical specifications
1	LED chip make	Cree /Nichia/ Osram / Lumiled/ Philips /Bridge Lux/ LMS
2	Ingress Protection	IP20 (For indoor appliances) IP66 (For outdoor appliances)
3	CRI (Typical)	>80 for indoor appliances & CRI >70 by outdoor appliances
4	Harmonicas/THD	<20% for LED tubes & <10% for all LED fittings
5	Power Factor	Minimum 0.90 at full load/230 Vac
6	Input Voltage	Operating Voltage – 140-270 VAC
7	Rated Voltage	220V-240V

8	Surge Voltage	Up-to 2 kV L, N for Indoor Lighting
9	Input Frequency	47 to 55 Hz
10	Working Temp	-15 to +50 deg C
11	Product Housing Op. Temperature	-5 to +50 deg C
12	Working Humidity	10% - 90% RH
13	Luminaire Efficacy	For 3000K >90 Lm/w For 4000 K> 95Lm/w For 5700/6500 > 100Lm/w
14	LED Lifespan & Luminaire Photometric data	IESLM79 and IESLM80
15	Standard Warranty	5 years for all fitting (Indoor & Out Door)
16	LED Life	50000 Buring Hours at L70B50 for LED tubes (18watt) 50000 Burning Hours at L-70 for all LED fittings (Indoor & Out Door)

- 13.0 The contractor has to submit a copy of all the original bill / receipt for purchasing the material from manufacturer/authorized dealer for Bonafide use at site at the time of submitting of bill.
- 14.0 **Work may be carried out on Sundays, Holidays or in odd hours as per convenience of the client/ allottee for which no claim for idle labour shall be entertained.**
- 15.0 All dismantled material should return to department concerned JE(E)/AE(E).

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ADDITIONAL TERMS AND CONDITIONS

Name of Work: - Upgradation / repair of Redfor Media Room under HQ ARTRAC, Shimla (H.P.).

1. The work shall be carried out as per C.P.W.D. Specification for electrical work Part-1 (Internal), 2023, Part-II (External) 2023 and HVAC, Sub-Station amended upto date and Indian Electricity Rules amended upto date.
2. All the material to be used on the work shall be approved from Engineer-in-Charge before execution of work.
3. All the malba / debris shall have to be removed from site of work, immediately.
4. The work shall be carried out as per layout/drawing issued by the department conduit laying drawing shall be prepared by the contractor for approval before execution of work.
5. The work shall be executed in close co-ordination with civil work, failing which department reserves the right to get the work executed through departmentally or through any other agency on risk and cost of agency, as per terms and conditions of the agreement.
6. All the hidden work shall be carried out in the presence of Engineer-in-charge or his representative.
7. The contractor will be responsible for transportation, storage and watch and ward of the stipulated material and other items for which nothing extra shall be paid.
8. The contractor/his authorized representative is bound to sign the site order book as and when required and he is bound to carry out the instructions recorded therein.
9. No claim for idle labour shall be entertained.
10. Any accidental liabilities will be the responsibility of the contractor.
11. The work shall treated as completed, when all the installation are handed over to the department and all the defects are remove to the entire satisfaction of Engineer-in-Charge.
12. No. T & P will be issued to the contractor.
13. Any damage done to the man, machine and building during the execution of work shall be the responsibility of the agency and the same will have to be made good promptly by the contractor at its own cost to the entire satisfaction of the Engineer-in-Charge.
14. The firm shall be fully responsible to rectify all faulty / repair in residential qtrs. / non residential building etc. as per the following details, failing which a penalty @ 800/- for each day for delay in attending the complaints beyond the time line specified below, shall be imposed on the firm.

Sr. No.	Complaints description	Time
1	Emergency (No power)	6 Hours
2	Minor (faulty switch & Socket etc.)	1 Day
3	Replacement of electrical accessories	1 Day
4	Any new requirement by client	2 Day

15. If any complaint is lodged and assigned to firm by the JE / AE, then after rectifying the complaint, please inform the JE /AE immediately with proper records. Otherwise, penalty shall be imposed as per timeline specified at serial No 14 from the firm.
16. On completion of work, the contractor shall arrange for insulation and earth continuity test as per I.E. rules in the presence of the Engineer-in-Charge or required, for which nothing extra shall be paid.
17. **Before quoting the rates, the tenderer should visit the site** so as to acquaint themselves of the site conditions.
18. The copper conductor cable should confirm to IS:681 part-I 1977, as amended upto date.
19. Only brass screws alongwith brass washer will be used for fixing phenolic laminated sheet covers and others places Al. alloy/brass/cadmium plated iron screw will be used.
20. Cable/wire connections to the DB's and main switches shall be made with lugs/thimbles properly soldered or with crimping tools within the tendered rates.
21. The agency will have to return back the dismantled material if any except as specified in the item, to the concerned AE(E)/JE(E) at his store, for which no extra cartage shall be paid.

22. The contractor has to approved got different make of the fittings from the Engineer-in-charge as mentioned in Annexure – I.
23. The make of the DB's will be the same as of MCBs/MCCB's. The MCCB's should be Ics=100% Icu and should be suitable for isolation with adjustable over load setting and adjustable short circuit setting. The MCB's shall be of 10 KA breaking capacity.
24. Firm shall minimum one year warranty/guarantee against all the items used at site wherever not specified.
25. The material to be used on work shall be of ISI marked wherever applicable. The type and make of material shall be as per approval of Engineer-in Charge and will be as per Annexure-1 enclosed.
26. Agency shall submit the Guarantee of **05 (Five) Years** for LED Fittings/fixtures on his letter head duly signed mentioning agreement no. and type of fitting.
27. The firm shall submit LN-79/LM-80 report issued by NABL accredited Laboratory / LED manufacturers and other relevant test report in support of LED fittings to be supplied.
28. Switch board and switch make shall be same.
29. All the LED Bulb/LED fittings shall be guaranteed for a period of 05 years.
30. All the materials to be used in the work shall be new and of good quality and shall be not older more than 6 months from the date of receipt at site or year of manufacturing should be current. The equipment shall be procured directly from the manufacturer or authorized dealer and delivery challan / proof of dispatch of material of the Agency from where the material is purchased in support of genuineness of material shall be submitted along with the bill for verification.
31. 50% of performance guarantee shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.
32. 50% of performance guarantee shall be retained as security deposit.
33. 50% of performance guarantee retained as security deposit shall be refunded year wise proportionately.
34. All LED fixtures provided under the contract shall be guaranteed for a period of **05 (Five) Years** from the date of completion. The contractor shall submit onsite warranty / guarantee of material against manufacturing defects for a period of **05 (Five) Years** for LED Fittings / fixtures duly signed by not below the rank of Regional Manager / Director/ Owner of Proprietor of the Manufacturing firm.
35. Intending tenderer will provide one year warranty for all the equipment's for satisfactory working from the date of handing over, (Except LED fittings for that guarantee and warranty mentioned in the [S. No. 34](#)).
36. All the material shall be supplied on site only after getting approval from competent authority.
37. Sufficient spare of critical item shall be made available at site by the contractor for effective and hassle free maintenance of the system.
38. Performance Guarantee for the said work will be released as per DG, CPWD O.M. No. DG/SE (E) /TAS / Misc./12 dated 03/09/2019.
39. **The work is of urgent nature and contractor has to start work immediately after award of work.**

NOTE: - The work is to executed in much sensitive area, for security point of view and all the workmen entering in the house shall be got verified from the local police by the agency failing which they shall not be permitted to enter in the campus.

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Annexure-A

S.No	Description of item	Rate	Unit
1	Dismantling and credit of following old materials received from the work. (The material is in installed position and is to be dismantled and removed by the contractor).		
a)	5/6 Amp Switch/15/16 Amp Switch/3 pin 5/6 A socket outlet/6 pin 15/16 A socket outlet (Assorted)	0.5	Each
b)	Copper Cable/copper bus bars/ copper strip (Assorted)	600	P/Kg
c)	Aluminum armored Cable/aluminum bus bar/strip (Assorted)	250	P/Kg
d)	Iron scrap for old dusted GI pipe /GI poles/LT panels etc. (Assorted)	60	P/Kg
e)	Call bell/buzzer (Assorted)	1	Each
f)	Fresh air fan (worn-out)	100	Each
g)	Heavy duty propeller type exhaust fan (worn-out)	250.00	Each
h)	1200 mm LED Batten/600 mm LED Batten/downlighter/LED Bulkhead/ wall Bracket/2x2 feet LED light/Engagement lights	25	Each
i)	MCB/MCCB/SPN (Assorted)	5	Each

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CPWD., HQ ARTRAC, Shimla

Annexure-1

LIST OF APPROVED MAKES FOR MATERIALS

S. No.	Details of Materials	Acceptable Make
1.	Copper Wire/Telephone Cable/UTP cable / TV Cable	Finolex / KEI / Polycab / RR Kabel / Havells / Grandlay (duly ISI Marked)
2.	Aluminum and copper XLPE Power Cables Armored/ unarmored	Finolex / KEI / Polycab / RR Kabel / Havells / Grandlay (duly ISI Marked)
3.	Cat 6/6A Cable	Molex/ Digilink/ Schneider/ Belden/ Legrand
4.	Modular Switch, Socket, fan regulator, RJ-45, cable TV socket, Data outlet socket, GI boxes etc. and accessories	Legrand : ARTEOR Honeywell : ORNA Panasonic : EUROPA SCHNIEDIER : ZENCELO
5.	Brass Batten / Angle Holder (ISI marked)	Antex / Kinjal / Sainico
6.	Call Bell	Anchor / Cona / Antex / Sargam
7.	PVC Conduit with accessories	Finolex / Supreme / BEC / NIC/ Polycab/ AKG/ (All shall be Min. 2mm thick and ISI Marked)
8.	MS Conduit with accessories	AKG/ NIC/ BEC / RMCON (Note:- The accessories shall be same that of conduit pipe and will comply to IS / 4768 part 2 2003)
9.	GI Pipe (for pipe pole and other items)	Tata/ Jindal/ SAIL (All shall be ISI marked)
10.	OFC cable and Accessories	Belden / D Link / Tyco
11.	Gland	Comet / Dowells / Hax brass (Copper Alloy India) / Jainson / Action
12.	DWC Pipe	Gemini / REX / Duraline / Duraplast / Triputi
13.	MCB/MCB DB / Isolator/ RCCB/ Industrial Socket	Legrand / Siemens / Schneider / L&T / ABB
14.	Analogue / digital Measuring Instruments (Voltmeter / Ammeter / Energy meter / KW / PF / Multi-Function Meter)	AE / Rishab / L&K (Lauritz Knudsen) / C&S
15.	MCCB's/RCCB's /4 Pole Power contactor / Change Over	L&T D Sine / Schneider Compact NSX / Legrand DPX3 /Siemens 2 VL / ABB
16.	250 / 200 mm fresh air fan	USHA / Khaitan / Crompton / Almonard
17.	LED downlighter	Philips / LT / Wipro / Regent Lighting
18.	LED Panel light 2x2 ft.,	Philips / LT / Wipro / Regent Lighting
12.	Copper pipe	Max Flow / Rajco / Mandev
13.	Nitrile rubber insulation	Armaflex / A-Flex/K-Flex/ Thermaflex
19.	Air conditioners wall split type	Toshiba / Daikin / Mitsubishi / LG / Voltas / Carrier
20.	Air conditioners Tower type	Toshiba / Daikin / Mitsubishi / LG / Voltas/ Carrier
Or as per given against item or work and as per approval of Engineer-in-Charge		

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