

NIT/TENDER DOCUMENT

NIT No.	:	09/NIT/EE & SM (E)/JSR/2026 - 27
Name of work	:	Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)
Estimated Cost	:	Rs. 14,85,033.00
Earnest Money	:	Rs. 29,701.00
Performance Guarantee	:	5% of Estimated cost or tendered value (Whichever is higher).
Security Deposit	:	2.5% of tendered value.
Time Allowed	:	02 (Two) months

**Executive Engineer & SM (E),
CPWD, Jamshedpur.**

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**Executive Engineer & SM (E),
CPWD, Jamshedpur.**

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

The Executive Engineer & SM (E), Central Public Works Department, GPOA Building, 1st floor, Burmamines, Jamshedpur, 831007, Jharkhand on behalf of President of India invites online percentage rate bids from approved and eligible contractors of CPWD enlisted in appropriate class in composite category for the following work(s):

Sl. No.	NIT No.	Name of Work & location	Estimated cost put to bid	Earnest Money	Stipulated Period of Completion of work	Last date & time of online submission of bid, copy of Proforma for Earnest money declaration and other Documents as specified in the bid documents	Date & Time of opening of bid)
1	09/NIT/EE & SM (E)/ISR/2026 - 27	Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)	Rs. 14,85,033.00	Rs. 29,701.00	02 (Two) Months	Up to 03:00 PM on 15/10/2026	Up to 03:30 PM on 15/10/2026

1. 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.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. 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 free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bid or Division office of any Executive Engineer, CPWD with in 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 Fixed Deposit Receipts and Bank Guarantee of any schedule Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to Division office of any Executive Engineer (including NIT issuing EE/AE),CPWD and other documents as specified.

5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
6. The intending bidder must have valid class-III digital signature to submit the bid.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in pink color and the moment rate is entered, it turns sky blue.
 - a. 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).
 - b. However, if a tenderer ~~quotes nil rates against each item in item rate tender or~~ does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
10. SC/ST contractors enlisted under class-V category are exempted from processing fee payable to ITI.
11. List of Documents to be scanned and uploaded with in the period of bid submission:
 - I. Treasury Challan / Demand Draft/ Pay order or Banker's Cheque / Deposit at Call Receipt/ FDR/ Bank Guarantee of any Scheduled Bank against EMD.
 - II. Copy of enlistment order of CPWD contractor who are enlisted in appropriate class of composite category.
 - III. GST registration certificate of the state in which the work is to be taken up, if already obtained by the bidder.

If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents.

"If work is awarded to me, I/ we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the 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 account of the work executed and/or for any action taken by CPWD or GST department in this regard."
 - IV. Receipt for deposition of original EMD to Division office of any Executive Engineer, CPWD (including NIT issuing EE) of CPWD.
 - V. Copy of valid electrical contractor license.
 - VI. Agency should upload Compulsory ERP training certificate.

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING BID

1. ~~Item rate~~/Percentage rate bids are invited by Assistant Engineer (E)-I, CPWD, Jamshedpur on behalf of President of India from approved and eligible contractors of CPWD enlisted in appropriate class in composite category for the following work(s): for the work of "Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)

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. 14,85,033.00**, 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 bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 (or other standard form as mentioned) 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 **02 (Two)** months 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 bid documents.

4. (i) The site for the work is available by the Client as specified in Schedule A to F.

OR

- (ii) ~~The architectural and structural drawing for the work is available.~~

OR

~~The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved program of completion submitted by the contractor after award of work.~~

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 on website www.etender.cpwd.gov.in free of cost.

6. After submission of the bid the contractor can re-submit/revise the 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 percentage rate of any number of times 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, NIT Project Division, CPWD, Jamshedpur**) 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.

Apart 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 scheduled 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.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website with in the period of bid 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 along with physical EMD of the scan copy of EMD uploaded 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, whose original EMD deposited with any division office of CPWD and other documents scanned and uploaded are found in order.

9(A). ~~The contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee anytime.~~

The bid submitted shall be opened at **03:30 PM on 15/10/2026**.

10. The bid submitted shall become invalid and e-tender processing fee shall not be refunded if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.

- (iii) 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.
- (iv) If a tenderer ~~quotes nil rates against each item in item rate tender or~~ does not quote any percentage above / below / At PAR on the total amount of the tender or any section / sub head in percentageratetender,thetendershallbetreatedasinvalidandwillnotbeconsideredas lowest tenderer.

11. The contractor whose bid is accepted will be required to furnish Performance guarantee of 5% (Five Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India 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, they shall be suspended for one year and shall not be eligible to bid for CPWD tenders from the date of issue of suspension order. 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:

“Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, 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 bid. 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 bidders 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 bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders 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 15 days from the last day of receipt of bid. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then they shall be suspended for one year and shall not be eligible to bid for CPWD tenders from the date of issue of suspension order. Further the bidders shall not be allowed to participate in the rebidding process of the work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidders/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 bid 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 or other Standard C.P.W.D. Form as applicable.

20. For Composite Bids

~~20.1.1 — The Executive Engineer in Charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.~~

~~20.1.2 — The bid document will include following three components:~~

~~Part A:— CPWD-6, CPWD-7 including Schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/modified upto last date of submission of bid.~~

~~Part B:— General / Specific Conditions, Specifications and schedule of quantities applicable to major component of the work.~~

~~Part C:— Schedule A to F for minor component of the work. Competent Authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components, General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.~~

~~20.1.3 — The Bidders must associate himself with Agencies as per NIT condition.~~

~~20.1.4 — The eligible bidders shall quote percentage rates for all items of major component as well as for all items of minor components of work.~~

~~20.1.5 — After acceptance of the bid by Competent Authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main Contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's in charge of minor components. One such signed set of agreement shall be handed over to EE(E) in charge of minor component(s). EE(C) of major component will operate **Part A** and **Part B** of the agreement. EE(E) in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.~~

~~20.1.6 — Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.~~

~~20.1.7 — Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.~~

~~20.1.8 — The main Contractor has to associate Agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such Agency(s) to Engineer-in-Charge of relevant component(s) within prescribed time. Name of the Agency(s) to be associated shall be approved by Engineer-in-Charge of relevant component(s).~~

~~20.1.9 — In case the main Contractor intends to change any of the above Agency/Agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-Charge of relevant specialized component. The new Agency/Agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-Charge is not satisfied with the Proformance of any Agency, he can direct the Contractor to~~

~~change the Agency executing such items of work and this shall be binding on the Contractor.~~

~~20.1.10 The main Contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE in charge of each relevant component as well as to EE in charge of major component. In case of change of associate Contractor, the main agency(s) has to enter into MoU/ agreement with the new Contractor associated by him.~~

~~20.1.11 Running payment for the major component shall be made by EE of major discipline to the main Contractor. Running payment for minor components shall be made by the Engineer in Charge of the discipline of minor component directly to the main Contractor.~~

~~20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer in Charge of major component after record of completion certificate of all other components.~~

~~20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.~~

FORM OF EARNEST MONEY (BANK GUARANTEE)

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 "DDO") in the sum of Rs..... (Rs.in words.....) for which payment well and truly to be made to the said DDO 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, OR
 - (c) Fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR
 - (d) Fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the said DDO either up to the above amount or part thereof upon receipt of his first written demand, without the said DDO or the Engineer-in-Charge having to substantiate his demand, provided that in his demand the said DDO or 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 said DDO or 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
WITNESS
BANK SEAL

SIGNATURE OF THE

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of **30 days for single bid works and 120 days for two bid system** from last date of receipt of tender.

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No...../date.....)

Name of work : Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)

1. NIT No : **09/NIT/EE & SM (E)/JSR/2026 - 27**
2. Estimated Cost : **Rs. 14,85,033.00**
3. Amount of Earnest Money Deposit : **Rs. 29,701.00**
4. Last date of submission of bid : **15/10/2026 up to 03:00 PM**
5. Name of contractor: -#
6. Form of EMD: -#
7. Amount of Earnest money deposit#
8. Date of submission of EMD#
9. Name and Designation of the EMD receiving officer#
10. Official email ID of the EMD receiving officer#

(# to be filled by the CPWD official receiving EMD)

Signature, Name and Designation of EMD receiving officer
(EE/AE(P)/AE/AAO) along with Office stamp

Note : All bidders shall furnish the complete bank details, including the official email ID and contact number of the remitting bank / branch, from which the Earnest Money Deposit (EMD) is remitted, to facilitate verification of the EMD.

Email ID, Contact No.

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of: "Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)

- (i) To be submitted/ uploaded by **03:00 PM on 15/10/2026** to the Executive Engineer & SM (E), CPWD, Jamshedpur uploaded at www.etender.cpwd.gov.in
- (ii) To be opened in presence of tenderers who may be present at **03:30 PM on 15/10/2026** to the Executive Engineer & SM (E), CPWD, Jamshedpur.

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 respect with the specifications, designs, drawing 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 respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for Thirty (30) days from the date of opening of bids and not to make any modification in its terms and conditions.

A sum of **Rs. 29,701.00** is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. A copy of earnest money in issued by a scheduled bank is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in 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 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or 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 there from 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 Contractor

Witness:

Postal Address

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.

Signatures..... *

Dated: *

Designation..... *

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) :	Page No. – 32 to 35
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SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

Sl. No.	Description of item	Quantity	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

Sl.No.	Description	Hire charges per day	Place of Issue
1	2	3	4
-----NIL-----			

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any: As attached in tender documents.

SCHEDULE 'E'

Reference to General Conditions of contract.		Applicable GCC is GCC Construction Works - 2023, as modified and corrected up to previous day of the last date of submission of the tender.
Name of work		Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)
Estimated cost of work		Rs. 14,85,033.00
(i)	Earnest money	Rs. 29,701.00 (to be returned after receiving performance guarantee).
(ii)	Performance Guarantee	5% of Estimated cost put to tender (ECPT) or 5% of tendered amount whichever is higher.
(iii)	Security Deposit	The amount of additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:		
Officer inviting tender :		EE & SM (E) - JAMSHEDPUR.
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3:		See below (Refer Clause-12)
Definitions:		
2(v)	Engineer-in-Charge :	EE & SM (E) - JAMSHEDPUR or his successor thereof
2(viii)	Accepting Authority:	EE & SM (E) - JAMSHEDPUR or his successor thereof
2(x)	Percentage on cost of materials and labour to cover all overheads and profits :	15%
2(xi)	Standard Schedule of Rates	DSR-2025 & MR
2(xii)	Department	Central Public Works Department
9(ii)	Standard CPWD contract Form GCC 2023	Elect :- DSR (E&M) 2025 with up-to-date correction slips up to last date of submission of bids and Market Rates.

Clause 1

(i)	Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or Proof of applying thereof from the date of issue of letter of acceptance :	7 days
(ii)	Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above :	3 days

Clause 2

Authority for fixing compensation under clause 2 :	SE cum PD-Jamshedpur or his successor thereof
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Clause 5

Authority to decide:

(i)	Authority to convey the decision of shifting of milestone and Extension of time	:	EE & SM (E) - JAMSHEDPUR or his successor thereof
(ii)	Authority to decide Rescheduling of mile stones and extension of time	:	EE & SM (E) - JAMSHEDPUR or his successor thereof

(iii)	Shifting of date of start in case of delay in handing over of site.	:	EE & SM (E) – JAMSHEDPUR or his successor thereof
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Time allowed for execution of work	02 (Two) months
Number of days from the date of issue of letter of acceptance for reckoning date of start	10 days

Schedule of handing over of site

Part	Portion of site	description	Time period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	Full site is available with the client	10 days
Part B	Portions with encumbrances	NIL	-
Part C	Portions dependent on work of other agencies	NIL	-

Clause 6

Computerized Measure Book (CMB) / Electronic Measurement Book (EMB) (i) Mode of Measurement: CMB / EMB	Yes, CMB
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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	Rs. 3.00 Lakh or mutually agreed by contractor and Engineer-in-charge.
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Clause 7A

Whether Clause 7A shall be applicable -	Yes, No Running Account shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board whatever applicable are submitted by the consultants to the Engineer-in-Charge
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Clause 8

I. Details of building/infrastructure project to be completed early for use :	Full scope as per NIT conditions
II. Competent authorities to inspect and issue part / final completion	EE & SM (E) – JAMSHEDPUR or his successor thereof

Clause 8A

Authority to decide compensation on account if contractor fails to submit completion plans.	Engineer-in-charge. (0.1% of tendered amount or Rs. 1.00 Lakh whichever is more)
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Clause 10A

List of testing equipment to be provided by the Contractor at site lab – **As per actual requirement of site for early completion of work.**

Clause 10B(ii)

Whether Clause 10 B (ii) shall be applicable

Not Applicable

Clause 10C

Component of labour expressed as percent of value of work

15%

Clause 10CC

Not Applicable

Clause 11

Specifications to be followed for execution of work

CPWD Electrical Specifications Internal-2023, CPWD Electrical Specifications External-2023 with correction slips upto last date of submission of bid & other relevant specification as per NIT

12.2 (c)		Deviation Limit beyond which clauses 12.2 (c) shall apply for building/ Maintenance work	100%
12.4	(i)	Deviation Limit beyond which clauses 12.2 (c) shall apply for foundation work (except items mentioned in earth work sub-head in DSR and related items)	NA
	(ii)	Deviation Limit for items mentioned in earth work sub-head of DSR and related items.	NA

Clause 16

Competent Authority for deciding reduced rates

1. SE cum PD-Jamshedpur or his successor thereof- (upto 5% of total tendered amount)
2. ADG - Patna - (Beyond 5% of total tendered amount)

Clause 18

List of mandatory machinery, tools & plants to be deployed by the Contractor at site:-

1	Any other machinery required for completion of the work as per decision of Engineer-in-Charge - As per actual requirement
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Clause 19 C	-	EE & SM (E)-JAMSHEDPUR to decide penalty for each default
Clause 19 D	-	EE & SM (E)-JAMSHEDPURto decide penalty for each default
Clause 19 G	-	EE & SM (E)-JAMSHEDPURto decide penalty for each default
Clause 19 K	-	NA (For less than works ECPT Rs. 5 Cr.)

Clause 25**Settlement of Dispute by Conciliation and Arbitration**

SI. No.		
(i)	Conciliator	ADG – Patna or his successor thereof
(ii)	Arbitrator Appointing Authority	SE cum PD-Jamshedpur or his successor thereof
(iii)	Place of Arbitration	Jamshedpur

Clause 32

Requirement of Technical Representative(s) and recovery Rate

SI No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal/ Technical Representative	Minimum Experience	Number	Rate at which recovery shall be made from the Contractor in the event of not fulfilling provision of clause 36(i)	
						Figure	Words
1.	Graduate Engineer or Diploma Engineer	Elect	Project Manager cum Planning/ quality/Site /billing Engineer	2 Year or 5 Years respectively	1	Rs. 15,000/- (per month per person)	Rupees — Fifteen Thousand — only. (per month per person)

Clause 38 : (Not Applicable)

GENERAL CONDITIONS FOR INTERNAL AND EXTERNAL ELECTRICAL WORKS

1.0 INTERPRETING SPECIFICATIONS

In interpreting the specifications the following order of decreasing importance shall be followed in case of contradictions:

- a) Schedule of quantities
- b) Technical specifications of the NIT
- c) Approved Drawing (If any)
- d) CPWD General Specifications for Electrical Work Part-I (Internal) 2023, Part- II (External) 2023.
- e) Relevant IS or other international code in case IS code is not available.

2.0 GENERAL AND COMMERCIAL CONDITIONS :

2.1 All the E & M works shall be carried out as per direction and to the entire satisfaction of the Engineer-in-charge.

2.2 Unless otherwise specified in the following conditions, the work shall, in general, be carried out as per following specifications:

- a) CPWD General Specifications for Electrical Works – Part-I (Internal), 2023 amended up to date.
- b) CPWD General Specifications for Electrical Works – Part-II (External), 2023 amended up to date.
- c) BIS specifications amended up to date.
- d) Indian Electricity Act 2003 and Indian Electricity Rules 1956 amended up to date.
- e) Local Fire Regulations applicable at the place of installation.
- f) Relevant and applicable foreign standards and specifications amended up to date.
- g) Any other relevant act or rules and local byelaws.
- h) Commercial and additional conditions and specifications for E & M works for this tender.

2.3 If the specifications for any item or its component are not available in the CPWD specifications cited above, relevant BIS specification as amended up to date shall be followed, whether or not the specific reference of a particular BIS specification has been made in this specification / tender document.

2.4 Wherever any reference to any Indian Standard specification occurs in the document relating to this contract the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the date of opening of tenders.

2.5 All materials should conform to relevant BIS specifications wherever the same exists in absence of stipulation in this tender document.

- 2.6 Where manufacturers furnishes specific instructions / recommendations relating to the materials used in this job and/or their installation, covering points not specifically mentioned in these documents, these instructions shall be followed in all cases and shall be deemed to be included in the schedule of work whether they have been specifically mentioned or not.
- 2.7 Manufacturer's catalogue / literature on installation, testing, maintenance and troubleshooting of major equipments shall be submitted to the department while handing over the installation.
- 2.8 **MATERIALS TO BE USED IN THE WORK :**
- 2.8.1 All materials used in the work shall be new and of good quality, conforming to the relevant specifications as per good engineering practice.
- 2.8.2 All the materials proposed to be used in the work should be got approved from Engineer in Charge before use in work.
- 2.8.3 The materials to be supplied / provided by the contractor in execution of the work should be ISI marked, wherever applicable and of make as specified in the agreement. Where the make of any particular material is not specified in the contract document, the material shall be supplied as per makes desired by the engineer-in-charge.
- 2.8.4 It will be the responsibility of the contractor / bidder to ensure use of genuine materials in the work. The department reserves the right to get (any / all materials / components) inspected by the manufacturer or their authorized representatives at any stage of the execution of work. If any of the materials, equipments supplied and used in work is found spurious at any stage, then the department reserves the right to ask the contractor to replace it by genuine one and make suitable recovery till it is done, even if any payment against that material is already made.
- 2.8.5 The department may ask for any valid document like manufacturer's test certificate, document for purchase of the material, document for import / shipment of imported materials etc. as deemed fit by the engineer-in-charge to ascertain genuinity of material supplied by / used in the work by the contractor. The contractor shall remain bound to submit all such documents to the department failing which payment may not be made or if already paid may be recovered / withheld from subsequent running account payment.
- 2.8.6 All the equipments and their components and all the materials to be used in the work shall be suitable for the environmental conditions at the location of the work.
- 2.8.7 Dismantle materials, if any, should be returned to the department.
- 2.9 **RATES :**
- 2.9.1 Unless otherwise provided in the schedule of quantities of the work the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.

- 2.9.2 The rates for all items of work shall, unless clearly specified otherwise, include cost of all labours, materials and other inputs involved in the execution of the item irrespective of whether they have been specifically mentioned in the tender document or not.
- 2.9.3 This being an indivisible works contract, GST etc. are not payable separately. The rates tendered shall be firm and inclusive of all taxes, duties, cess and levies as applicable i/c GST as applicable and all charges for packing, forwarding, insurance, freight and delivery, installation, testing and commissioning at site, watch and ward etc. including temporary constructional storage, risks, overhead charges, general liabilities / obligations and clearance from local bodies and State Fire Services, as applicable. Nothing extra shall be paid. However, fees payable to the local bodies / authorities for such clearance etc. shall be borne by the department.
- 2.9.4 In case the same item (s) appear more than once in the schedule of work / BOQ under the same sub head or among the different subhead of works, the lowest rate quoted for that item (s) shall be considered for the particular item(s) wherever appeared in any part of BOQ / Schedule of works for the purpose of tender evaluation although web generated e-price bid may incorporate different quoted rate for same item (s) as per the quoting pattern of the tenderer. The tendered amount thus worked out shall be final & shall be binding on the contractor.
- 2.10 **ACCIDENT :**
- 2.10.1 The department (CPWD) shall not have any responsibility or liability in case of any accident injury to the personnel to the contractor at work site or to the general public at the work site due to mishandling equipments by the personnel of the contractor or any other similar reason. The responsibilities and liabilities for such accidents and incidents shall be borne by the contractor.
- 2.11 **AFTER SALES SERVICE :**
- 2.11.1 The contractor shall ensure adequate and prompt after sales service in the form of maintenance personnel and spares as and when required with a view to minimize the break down period. Particular attention shall be given to ensure that all spares are easily available during the normal life of the installation.
- 2.12 **REMOVAL OF SURPLUS MATERIALS AND TOOLS :**
- 2.12.1 After completion of work the agency shall remove his men, materials and debris etc. from site.
- 2.13 **QUALITY OF WORK AND WORKMANSHIP :**
- 2.13.1 The contractor shall be entirely responsible and answerable for all the works done by him regarding quality, adherence to the laid down specifications, terms and conditions, warranty/guarantee etc. and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.
- 2.13.2 Clause 1.15 of CPWD General Specifications for Electrical Works, Part – IV, Substation 2013 shall be applicable.

- 2.13.3 The materials having ISI mark shall have precedence over the one conforming to IS Specifications.
- 2.13.4 The contractor is advised to visit the site before quoting for his tender to apprise himself about the site environments and other conditions. Drawings and inventories can be seen in the office of the Engineer – in – charge.
- 2.14 **SITE ORDER BOOK :**
- 2.14.1 The contractor or his authorized representative shall sign the site order book and comply with the remarks entered therein by the representative of the department.
- 2.15 **WATCH AND WARD :**
- 2.15.1 The contractor will make his own storage of his own materials. The watch and ward of the materials and of the installations would be responsibility of contractor till the work is completed / handed over to the department. Nothing extra shall be paid to the contractor on this account.
- 2.15.2 Making payment to the contractor in any form against supply of materials / equipments / components or execution thereof shall not absolve the contractor of his responsibility of watch and ward of the equipments / materials etc. and their satisfactory functioning until the same is taken over by the department after successful installation, testing, commissioning and running in period.
- 2.15.3 No separate storage space will be provided to the contractor for storage of his materials and equipments to be brought at site and used in execution. The available open site space may however be used by the contractor for storage purposes in which case he may build up temporary store at available site space at his own cost subject to approval/acceptance by the Engr-in-charge of the major component.
- 2.16 **VARIATION IN QUANTITY :**
- 2.16.1 Quantities shown against each item of work or supply are tentative which may vary on either side (plus or minus). This variation shall, in general, be governed by clause no. 12 of the clauses of contract of CPWD form 7. The contractor should assess as per site requirement as well as ensure from the Engineer-in-charge the actual quantity required / to be used/ to be supplied before bringing the materials at site. In case the actual quantity of material required at the site is less than the stipulated quantity, the contractor cannot claim to supply entire quantity stipulated in the schedule of quantities of work (Schedule – A) as well as cannot demand for payment thereof. The contractor shall therefore, be very careful about the quantity of materials to be supplied / brought at site. The decision of the Engineer-in-charge in this regard shall be final and binding on the part of the contractor. Even if initial payment for supply of materials is made in any form for bringing material at site and if it is found at later stage that the actual requirement is less as per site requirement or as per decision of the Engineer-in-charge, the contractor shall have to take back the additional quantity brought / supplied at site and necessary adjustment shall be made from his next bill on this account. No claim in this regard shall be entertained.

2.17 NATURAL CALACMITY :

- 2.17.1 No payment will be made to the contractor for any damage caused by rain, snow fall, floods, dampness, fire, sun or any other natural cause whatsoever during the execution of work. The damage to the work due to above reason, if any, shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.

2.18 INSPECTION AND TESTING :

- 2.18.1 The Engineer-in-charge or his authorized representative may inspect any material at manufacturers' works and may witness routine tests as per relevant Indian Standard Specifications or other relevant specifications at manufacturers' works.
- 2.18.2 The contractor shall give in writing advance notice to the Engineer-in-charge and arrange for such inspection / presence for testing at manufacturers work. The TA/DA etc. of the departmental personnel who will be deputed to witness the tests etc. shall be borne by the Department.
- 2.18.3 The Engineer-in-charge or his authorized representatives shall have, at all the reasonable times, access to the contractors premises or works or other works where manufacturing / fabrication shall be done and shall have the power, at all reasonable times, to inspect and examine the materials and workmanship during its manufacture or fabrication.
- 2.18.4 Inspection of imported materials at foreign works shall however not be carried out by the department. These materials shall be inspected and tested at site. Manufacturers' original test certificates and document of import / shipment should be provided to the department along with the materials without which no payment should be made to the contractor.
- 2.18.5 The contractor shall arrange for all the materials and labour required in connection with inspection of equipment or for any testing to be carried out at his works / manufacturers' works or at site of installation. Notice of such inspection / presence for testing shall be given by the contractor to the Engineer-in-charge at least fifteen days in advance.
- 2.18.6 Notwithstanding approval for such tests / inspection of equipments / components by the Engineer-in-charge or his authorised representative, the contractor shall be required to perform site tests as desired by the Engineer-in-charge and prove the correctness of ratings and performance of equipments / components and materials supplied and / or installed by him as per contract specifications and conditions at his own cost.
- 2.18.7 The Engineer-in-charge reserves the right to reject any equipment / machinery / material should it, on tests after installation, be found not to comply with contract specifications or its performance is not satisfactory.
- 2.18.8 Final inspection and testing will be done by the engineer-in-charge or his representative as per details to be indicated by the engineer-in-charge.
- 2.18.9 It shall be the responsibility of the contractor to get the installation inspected and passed by the local authorities concerned, as may be required by the local bye laws. The contractor will extend all help including test facilities to the representatives of the local bodies. In case

the contractor fails to make desired facilities available during inspection, the department reserves the right to provide the same at the risk and cost of the contractor. The observation of the local authorities will be promptly attended by the contractor. The installation will be accepted by the department only after receiving clearance from the local bodies / fire authorities. The inspection charges leviable by the local / statutory authorities for the inspection shall however, be borne by the department.

2.19 COMPLETION DRAWING AND MANUAL :

2.19.1 In addition to the mode and form of submission of completion drawings and manuals as stipulated in the relevant CPWD Specifications for various sub-heads of E&M works, the contractor shall also submit soft copy of the completion drawings.

2.20 POWER SUPPLY AND WATER SUPPLY :

2.20.1 No Power & Water Supply shall be provided by the department for the purpose of execution of the work, except for testing and commissioning of installations. The contractor shall make his own arrangement in this regards. The power supply for testing and commissioning will be given at one point inside the premises and the contractor shall have to make arrangement for required cabling work and switch gears for extension of the power to the required location for testing. This will be applicable to all sub-heads of E&M works.

2.21 WORKS TO BE DONE BY THE CONTRACTOR

2.21.1 Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost – whether specifically indicated in the schedule of quantity / work or not:

- a. Foundations for equipments / structures.
- b. All minor building works necessary for installation of equipments such as making of openings in walls / floors, either of RCC or brick masonry, foundation trench for cable, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.
- c. Dismantling of brick wall, if any, for inserting / positioning / placement of equipments, Control panel or for taking cable tray / pipes and rebuilding / making good the same to its original position / finish.
- d. Making good all damages caused to the structure during installation and restoring the same to their original finish.
- e. Supply and installation of all necessary angle / channel / flat iron supports and brackets etc. for installation of the electric Panels and their sub-assemblies / accessories on floor / wall / Shaft / terrace and at other places, as may be necessary including their installations in position.
- f. Responsibility to ensure safety of all materials against pilferage and damage till the installation is handed over to the department.
- g. All scaffolding as may be necessary for installation of Cabling / Electric Panels / accessories on floor / wall / Shaft / terrace and at other places during erection work and subsequent removal.

- h. Painting of all exposed metal surfaces of equipments and components with appropriate / approved colour as required and as desired by the Engineer – in - charge.
- i. All electrical works including cables / wires, earthing etc. as specified in Schedule of work.
- j. Small wiring, inter-connection etc. inclusive of all materials and accessories necessary to comply with the regulations as well as proper and trouble free operation of the equipment.
- k. Closing of the cable entry points against seepage of water rodents etc.
- l. Approval / clearance of the complete installation shall be obtained by the contractor from CPCB / State Pollution Control Board / Local Bodies / Central Electricity Authority (CEA) / other licensing authorities wherever required. However application shall be made by the Department and any statutory fee, as applicable, shall be paid by the department directly to the government authorities concerned.

2.23 WORKS TO BE ARRANGED BY THE DEPARTMENT :

2.23.1 The works mentioned in clause 1.6 of CPWD General Specifications for Electrical Works Part IV (Substations) 2013 and clause 1.4 of the CPWD General Specifications for Electrical Works Part – VII (DG Sets) 2013 shall be applicable except that power supply and water supply shall not be made available by the department for erection purpose but for testing purpose. The contractor has to make his own arrangement for the same.

**ADDITIONAL CONDITIONS AND SPECIFICATIONS FOR THE WORK OF INTERNAL
AND EXTERNAL ELECTRICAL INSTALLATIONS:**

- 3.1 When any deviation from the drawing is required, the same shall be finalized in consultation with the engineer-in-charge or his authorized representatives. The decision of the engineer-in-charge is final.
- 3.2 Hidden / concealed items and earthing work shall be done in the presence of the Engineer-In-charge of the work or his authorized representative only. The contractor shall give due notice for such work in advance to the department.
- 3.3 The wireman / electrician engaged shall possess valid electrical workman permit in appropriate category as per rule.
- 3.4 The drawing showing layout of the main meter panel board, Feeder pillar and allied equipment, if any, shall be got approved by the contractor from the engineer-in-charge before fabrication and execution.
- 3.5 All hardware, fastening material viz nuts, bolts, washer and screws etc. to be used on work shall be of zinc / cadmium plated iron.
- 3.6 The contractor shall have to furnish the insulation test report, earth test report, along with all required detailed of electrical load on the prescribed proforma for the electric connection from the supply company.
- 3.7 The contractor shall submit the completion certificates and completion plan as per clause 1.26 of General specification for Electrical work (Part-I internal)-2023
- 3.8 **Payment terms :**On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer – in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work mentioned below :

S.N	Stage of work	Percentage of Rate
a	On initial inspection of material and delivery at site In good condition on pro-rata basis	75%
b	On completion of installation on pro-rata basis	15%
c.	On completion of testing and commissioning	10%

3.9 ADDITIONAL CONDITIONS AND SPECIFICATIONS FOR CABLE AND CABLE LAYING WORK

- 3.9.1 The work shall in general be carried out as per CPWD General Specifications for Electrical Works, Part – II, 2023 amended up to date.
- 3.9.2 When more than one cables are laid in the same trench, the smallest size of the cable shall be considered as main cable and the higher size cables shall be considered as additional cable laying in the same trench. Measurement of cable laying work shall be taken accordingly.
- 3.9.3 The make of UG cable supplied shall be one from the preferred makes of materials. The MV cables shall have ISI certification mark having valid ISI certification license.
- 3.9.4 A certified copy of the valid BIS license for all sizes and type of UG Cables covered in this work, shall be furnished before offering of inspection of cable. All the UG cables used in this work shall be of any one make from the list of preferred makes of materials. Cables of different makes, though from list of preferred makes of materials, shall not be used.
- 3.10 **Inspection & Testing** – Contractor must intimate to the Engineer-in-Charge at least 14 days in advance, about the probable dates when the entire lot of UG Cables of all sizes to be used in this work shall be ready at the manufacturer's premises. Engineer-in-charge or his authorized representative shall inspect the UG Cables at the manufacturer's premises and carry out the Acceptance and Routine tests on the ISI marked cables of sizes, (separate for each size) as prescribed in IS-7098 (Part-I) – 1988 as amended up to date and in accordance with the sampling plan prescribed therein.
- 3.10.1 In addition to above, contractor shall arrange to furnish certified copies of all the Type Test Certificates, as prescribed in the relevant IS-7098 (Part-I)-1988 to the Engineer-in-charge, along with the call of Inspection of the UG Cables. The Engineer-in-Charge or his authorized representative shall be given access to the original Type Test for verification in respect of each size of the Cables, under inspection, by the manufacturers.
- 3.10.2 Inspection of the items of supply shall be done by the Inspecting officer, before they are dispatched to place of delivery. On completion of inspection, dispatch instructions accompanied with copies of inspection report shall be issued by the Inspecting Officer / Engineer-In-Charge. Only those materials as passed in inspection by the Inspecting Officer shall be dispatched. Copy of inspection certificate as issued by Inspecting Officer shall be dispatched to site of work.
- 3.10.3 **Place of Inspection / Testing** : Contractor should state the place / factory where the equipment will be put up for inspection. They should also clearly indicate the facilities available for different tests.
- 3.10.4 **Inspecting Officer** : The inspecting officer will be the Engineer-in-charge or any officer authorized by the Engineer-in-charge for the purpose of inspection/test.
- 3.10.5 **Arrangement for Inspection / Testing** : All arrangements required for inspection of materials and testing at factory are to be made by the supplier and nothing extra shall be paid for the same.

- 3.11 **Placing Order on UG Cables:** Before placing orders on the manufacturer for supply of the cables, the contractor is required to carefully get assessed the exact requirement of each size of the cable at the site of work and get the same approved from the Engineer-in-charge. Department shall Not Take Back any spare quantity of cable whether in pieces or in sealed drums if procured more than that actually required at site / approved by the Engineer-in-charge. Even if advance payment is made for the cable and after erection surplus cables are found, the payment towards surplus cables made if any, shall be adjusted from the next on account bill of the contractor. However, it may be noted that the contractor shall have to arrange extra quantity of the cable, over and above that assessed by the contractor, before start of the work and approved by the Engineer-in-charge, if such additional quantity of the cable is required at site, in order to make the installation as covered in the Reach and Scope of this work, in order to make the installation operational. Such extra quantity shall be paid as per terms of the Agreement.
- 3.12 The main contractor shall be responsible for coordinating the activities of all works and will ensure progress of works as per laid down program.
- 3.13 The main contractor and / or his Associated Electrical Contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-charge and will comply with the remarks the rein.
- 3.14 The contractor shall make his own arrangement at his own cost for electrical / General Tools and plants required for the work.
- 3.15 The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.
- 3.16 The wiring and conduit route shall be marked by the contractor in the drawings first, and shall be got approved from the Engineer-in-charge.
- 3.17 The Electrical works shall be carried out by the contractor, side by side with the progress of the civil works.
- 3.18 The Contractor shall furnish documentary proof like delivery challans of purchasing items from the manufacturers or their authorized dealers to the satisfaction of the Engineer-in-charge.
- 3.19 Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge.

- 3.20 Materials to be used in work are to be ISI marked, where exists. The make of the materials have been indicated in the list of acceptable makes. No other makes will be acceptable. The materials to be used in the work shall be got approved by the Engineer in Charge / his representative before its use at site. The E-in-C shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not acceptable.
- 3.21 In case the same item appears more than once in the schedule of work under the same sub head or among the different subhead of works, the lowest rate quoted for that item shall be taken for other items also.
- 3.22 All statutory deductions like Income Tax, GST, Labour welfare cess etc. shall be deducted from the bills.
- 3.23 **All GI strip should be hot deep galvanized having thickness of 64 micron for 3mm thick & 85 micron for 6mm thick & GI plate as per IS 4759 . Test report from NABL accredited lab / Govt. organization/Govt. Eng. College, NIT, IIT should be submitted. All nut bolts and screws will be of SS i.e. stainless steel.**
- 3.24 Earthing chamber should be made of 6 mm thick MS Plate of suitable size painted with bituminous paint with locking arrangement.

LIST OF ACCEPTABLE MAKES		
S. No.	ITEMS	MAKES
1	UG Cables/Submersible Cable	Havells/Polycab/ RR Kabel/ Finolex/KEI
2	GI Pipes	Tata / Jindal / Bansal
3	DWC/ HDPE Pipes	Dura-Line / Rex / Ashirwad/ Supreme/ Gemini/Prince
4	UPVC Delivery Pipe	Supreme / Prince / Finolex / Ashirwad
5	LT Feeder Pillar	S-tech / SPC / C & S/ S. K. Engineering/Technoman India / R.P Control
6	Submersible Pump	KSB / Kirloskar / Crompton
7	Motor Starter	L & T / BCH / Havells

If any material not mentioned in above list will be decided by Engineer – in – charge and that will be binding on agency.

Preference to PPP-M – II Policy (Make in India):

- (i) The Government has issued public procurement policy (Preference to Make in India) vide Ministry of Commerce and Industry Development of industrial policy and promotion (PPS) vide order No. P- 45021/2/2017-PP BE-II dated 28.05.2018, to –Encourage Make in India|| and to promote manufacturing and production of Goods and services in India with a view to enhancing income and employment. CPWD has decided to implement this policy.
- (ii) The agency shall submit list of makes of materials proposed to be used on the work from local suppliers (as defined in the above order dated 28.05.2018) along with minimum local content as specified below for approval of the department out of the approved makes kept in the tender.
- (iii) The department will be approving only makes of the materials having a minimum local content of 50% for use on this work, out of the preferred makes list.
- (iv) The minimum local content of 50% is considered for the complete item including labour component. The agency shall obtain the certificate for all items except for sundry items.

Executive Engineer & SM (E)
CPWD, Jamshedpur

ABSTRACT OF ESTIMATED COST

Name of work : Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)

Description		Estimated amount (Rs.)	Rate to be quoted by agency in percentage above/below/at par, with respect to estimated cost	Amount Quoted by agency (In Rs.)
Electrical component	As per BOQ	Rs. 14,85,033.00		
Total		Rs. 14,85,033.00		

Executive Engineer & SM (E)
CPWD, Jamshedpur

SCHEDULE OF QUANTITY

Name of work : Construction of Development and Bulk Services for GC CRPF Campus at Musabani, Jamshedpur, Jharkhand.(SH: Supplying & Installation of 03 Nos. submersible pump set i/c Motor Starter Panel and UG cable for service connection at various Locations)

Item No.	Sub-heads and item of work	Unit	Qty.	Rate	Amount
1	Fabrication, Supply, Installation, testing and commissioning of double door out door type totally enclosed, dust and vermin proof, pedestal mounted feeder pillar of suitable size, constructed as per, CPWD specification (Part-IV) and approved drawing of the Engineer-in-charge, made out of 2.0 mm thick CRCA sheet with locking arrangement, prepaint treated, phosphatized and powder coated by approved Siemens gray paint, with 300 Amps 4 strip aluminium busbar, connection, interconnection and following panel mounting switch gears mounted on it, installation on suitable size brick / CC foundation (embedded legs, should not be less than 300 mm) i/c plastering, painting etc. as required.(Essential Panel for Pump)				
A	300 Amps 4 strip Aluminium busbar - 1 set				
B	Incoming				
	200 Amp 4 pole, 36 KA MCCB TM released type rotary handle - 01 No.				
	Digital type Voltmeter (0 - 500) Volts with fuse / selector switch - 1 set				
	Digital type AMmeter (0 - 300) Amps with 100/5, 5 VA, Class - 1, CTs / selector switch - 1 set				
	LED type Indication lamp (RYB) with fuse - 1 set				
C	Outgoing				
	63 Amp, 4 Pole 25 KA MCCB TM released type with rotary handle - 06 Nos.				
	10 Amp, 3 Pin socket outlet with 10 A switch - 1 set				
	A TO C	1	Job	177,694.00	177,694.00

2	Providing Installation Testing & Commissioning of pedestal mounted, outdoor, cubical type, compartmentalized, double door with canopy, totally enclosed, dust and vermin proof feeder pillar of suitable size, made out of minimum 2 mm thick CRCA sheet with locking arrangement pre-painted coated phosphatised and powder coated by approved siemens gray paint and following panel mounting switch gears mounted on it base angle mounting structure fabricated from 50 mm X 50 mm X 6 mm thick angle and 40 X 5 mm flat iron grouted with cement concrete.				
A	100 A, 4 strip Aluminium bus bar - 1 Set				
B	Incomer				
a	63 A, 25KA, FP TM Release MCCB (O/C, S/C) with Extended Rotary Handle & Spreader link - 1 No.				
b	Digital Ammeter with selector switch / CTs - 1 Set				
c	Digital Voltmeter with selector switches / Fuse - 1 Set				
d	R/Y/B Indication Lamp with back up fuses - 1 Set				
C	OUTGOINGS : (7.5HP DOL Starter - 2 SET)				
a)	25 A, TP, MPCB, with rotary handle - 2 Nos.				
b)	40 A, TP, AC3 duty contactor with 2 NO + 2 NC Aux. block - 4 Nos.				
c)	18 A, TP, AC3 duty contactor with 2 NO + 2 NC Aux. block - 2 Nos.				
d)	Overload Relay (6 - 10 A) - 2 Nos.				
e)	Single Phase Preventer - 2 Nos.				
f)	Start / Stop Push Button - 2 Sets				
g)	ON / OFF LED Indication Lamp - 2 Sets				
h)	Direct Ammeter Analog Type (0 - 30 - 180 A) - 2 Nos.				
i)	6 A, 10 KA, SP, MCB - 2 Nos.				
j)	3P Terminal - 2 Sets				
	Total(A, B & C)	3	Job	118942.00	356826.00
3	Supplying of one number XLPE insulated and sheathed aluminium conductor armoured power cable 1.1 KV grade with ISI marked (IS 7098 (Part - I) with amendment up to date) following sizes.				
3.1	4 X 25 sqmm	600	Mtrs.	478.00	286800.00
5	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc..direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
5.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	550	Mtrs.	289.00	158950.00

6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/HDPE pipe as required.				
6.1	Upto 35 sq. mm	550	Mtrs.	47.00	25,850.00
7	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct / open area / loop / connection as required.				
7.1	Upto 35 sq. mm	50	Mtrs.	36.00	1,800.00
8	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
8.1	4 X 25 sq. mm (28mm)	12	Nos.	373.00	4,476.00
9	Supplying & fixing of following size steel wire rope in PVC insulation on outer surface in the existing borewell complete as required.				
9.1	6 mm Dia	750	Mtrs.	99.00	74,250.00
10	Supplying, Assembling, Lowering & fixing to delivery line of submersible pump for water supply of 40 mm Inner dia nominal UPVC coloum pipe of 3.0 mtr. Length heavy duty & pressure handling capacity of 25 Kg/Sqcm complete with coupling sockets and all accessories for water supply system in the existing borewell complete with testing as required.	106	Nos.	1196.00	126,776.00
11	Supplying & fixing PVC insulated PVC sheathed copper conductor submersible flat cable ISI Marked in existing metal/HDPE / PVC/ pipe/ in bore well/ in sump including fixing the cable to GI/HDPE pipe with suitable cable tags of following sizes etc. as required.				
a)	3 Core 4.0 Sq. mm Flat Cable	350	Mtrs.	186.00	65,100.00
12	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	6	Set	7658.00	45,948.00
13	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	30	Mtrs.	313.00	9,390.00
14	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	6	Mtrs.	84.00	504.00

15	Supplying, Installation, Testing & Commissioning of Submersible motor Pump Set for water supply having suitable HP, Three Phase, 415 Volts, 50 Hz AC induction submersible motor with copper rotor directly coupled with solid coupling to submersible Pump of following discharge capacity at a following head, delivery size 40 mm, in the existing Bore Well complete etc. as required.				
a)	Discharge capacity not less than 100 LPM at a head of 109 Mtrs., Motor Capacity : 4.00 HP, Phase : Three Phase, AC supply, 50 Hz, Method of starting : DOL.	3	Set	47,972.00	143,916.00
16	Supplying and fixing following accessories complete as required.				
(a)	8" Borewell cover with MS clamp suitable for 40 mm dia	3	Nos.	2251.00	6,753.00
	Total				1,485,033.00

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