

NOTICE INVITING e-TENDERS

The Assistant Engineer (E)-II, BBSR, Central Public Works Department, Plot No. 188/623, 624, Pokhariput, Bhubaneswar, e-mail id: aee2bbsr@gmail.com invites on behalf of President of India **Online Percentage Rate** tenders **Single Bid** from **"CPWD Enlisted Contractor in Appropriate Class (Building & Roads Category)"** for the following work:

NIT NO. **50/EE-E/BBSR/AE-E-II/CPWD/2026-27**

Name of Work: **MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH- Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).**

Estimated Cost: **Rs.2,54,734.00**

Earnest Money: **Rs.5095.00**

E-Tender Processing Fee: **N/A**

Period of Completion: **02 Months**

Last time and date of submission of bid: **10.09.2026, 15:00Hrs**

The tender forms and other details can be obtained from the website www.etender.cpwd.gov.in or www.cpwd.gov.in. All corrigendum / addendum shall only be available on this website and shall not be published anywhere else.

AE (E)-II
CPWD,BBSR

Name of work : MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH-Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).

INDEX

Sl. No.	Description	Page No.
1	Press Notice for e-tendering	1
2	Index	2
3	Information & Instruction for Contractor for e-tending	3-4
4	NIT (Form CPWD-6)	5-8
5	Proforma for Earnest Money Deposit - Form "B"	9
6	Submission of Financial Bid - Form "C"	10
7	Undertaking - Form "D"	11
8	MOU – Form "E"	12
9	(Form CPWD-7 & 8)	13-18
10	Additional Conditions and Make List	19-24
11	Schedule of Quantity	25-27

This NIT contains 1 to 27 pages including this page.

**Assistant Engineer (E)-II
BBSR, CPWD, Bhubaneswar**

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING

The Assistant Engineer (E)-II, BBSR, Central Public Works Department, Plot No. 188/623, 624, Pokhariput, Bhubaneswar, e-mail id: aee2bbsr@gmail.com invites on behalf of President of India **Online Percentage Rate tenders Single Bid** from **"CPWD Enlisted Contractor in Appropriate Class (Building & Roads Category)"** for the following work:

Sl. 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 document as specified in the press notice.	Time and date of opening of Bid
01	50/EE-E/BBSR/AE-E-II/CPWD/2026-27	MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH-Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).	Rs.2,54,734.00	Rs.5095.00	02 Months	10.09.2026, 15:00Hrs	10.09.2026, 15:30Hrs

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](http://www.etender.cpwd.gov.in) or www.cpwd.gov.in free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Assistant 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 fixed deposit receipts and Bank Guarantee of any Scheduled Bank towards EMD in favour of **Executive Engineer (E), BCED, CPWD, Bhubaneswar**, 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 contractor not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imported 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. SC/ST contractor enlisted under Class-V category are exempted from processing fee payable to ITI Limited.
9. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
10. The bidder shall be required to execute the work on top priority and to arrange the resources of men and materials accordingly as directed by Engineer-in-Charge
11. If the cell is left blank and no percentage rate (above or below) is quoted by the bidder, rate shall be treated as "0" (ZERO).
12. The tenderer should also read the General Conditions of Contract for **CPWD Works 2023 (Maintenance work)** amended up to date (available on CPWD above websites), which is available as Govt. of India Publications.
13. Tenders with any condition including that of conditional rebates in the tender document shall be rejected forthwith.
14. If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/ taking up of works in CPWD. The Department reserves the right to verify the particulars furnished by the applicant independently.
15. If the bidder has not possessed valid electrical license of appropriate voltage to execute electrical work, then in such a case the bidder shall scan and upload following under taking along with other bid documents.

"If work is awarded to me, I/we shall either obtain valid electrical license at the time of execution of electrical work or associates with contractor for execution of the above said work possessing Valid Electrical License of appropriate voltage issued by competent authority".

List of Documents to be filled in by the bidders in various forms to be scanned and uploaded in JPG/PDF format within the period of bid submission.

1	Enlistment Order of the Contractor
2	Certificate of Registration for GST
3	PAN No. (Permanent Account Number)
4	Earnest Money Deposit Receipt for B along with scan copy of Original EMD
5	Confirmation for Submission of Financial Bid Form C
6	An Undertaking Form D (Undertaking regarding not debarred by Govt./ Autonomous body etc)
7	Valid Electrical License of appropriate voltage to execute electrical work as given in schedule of work or Undertaking as per Para-15 above
8	ERP Training Certificate

**Assistant Engineer (E)-II
BBSR, CPWD, Bhubaneswar**

CPWD-6 for E-Tendering

Online Percentage Rate tenders Single Bid from "CPWD Enlisted Contractor in Appropriate Class (Building & Roads Category)" for work of MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH- Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).

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. The work is estimated to cost **Rs.2,54,734.00**. The estimate however is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidder on prescribed Form No. CPWD 7/8 (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 their 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 of the work will be **02 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.

The site for the work is available.

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 except Standard General Conditions of Contract Form can be seen on website www.etender.cpwd.gov.in or www.cpwd.gov.in free of cost.
5. After submission of the bid the contractor can re-submit revised.
6. 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.

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.

7. Earnest money in the form of Treasury Challan or Demand Draft or Pay Order or Banker's Cheque or Deposit at Call Receipt of Fixed Deposit Receipt (**Drawn in favour of Executive Engineer (E), BCED, CPWD, Bhubaneswar**) 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 Assistant 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 the tender inviting EE in the NIT.

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

The bid submitted shall be opened at **03:30 PM on 10.09.2026**

8. The bid submitted shall become invalid
 - i. The bidder is found ineligible.

- ii. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
 - iii. The bidder does not upload GST Registration certificate.
 - iv. The bidder does not upload Valid Electrical License of appropriate voltage to execute electrical work. However the contractor shall be allowed to participate in tender with an undertaking that "They will either obtain valid electrical license of appropriate voltage at the time of execution of electrical work or associates contractor having valid electrical license of appropriate voltage of eligible class/similar work experience"
 - v. 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.
 - vi. 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 in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
 - vii. **The contractor whose bid is accepted, will be required to furnish (a) Performance Guarantee of 5% (Five Percent) of the Tendered value or Estimated Cost put to Tender (ECPT) (whichever is higher) (b) Where the tendered amount is less than eighty percent (80%) of the ECPT, the PG, 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 within the period specified in schedule F (GCC 2023 maintenance work amended vide No-DG/CON/Maintenance 2023/18 Dt.27.02.2026).** This guarantee shall be in the form of 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 (in case guarantee amount is less than s 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, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest Money deposited along with tender shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will 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 and Programme Chart (Time and Progress) within **07 Days** from the date of issue of letter of acceptance as specified in Schedule F.
9. 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 charges 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.
10. 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.

11. 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.
12. 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.
13. 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 as 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.
14. 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.
15. The bid for the work shall remain open for acceptance for a period of thirty (30) days from the date of opening of bids in case of single bid system- if any bidder withdraws his bid before the said period or issued 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 the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% if the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
16. The notice inviting bid 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 bid as uploaded at the time of incitation of bid and the rated 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.
17. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.
18. The Contractor/Agency shall not execute any Extra/Substitute and deviated item as specified in BOQ without prior approval of Engineer-in-charge.
19. Water and electricity to be used in the work will be in the scope of agency. No extra payment will be done for it.
20. Contractor shall submit the drawing before execution of work for all E&M services to the respective Engineer in charge for approval without any cost/claims.
21. Small civil work e.g core cutting or making any hole or after installation of items making it good again will be in the scope of agency without any cost/claims.

22. The bidder must bid the price for equipment including the price of foundation if required without any cost/claims.
23. 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 (E) or ERP help line no. 18001803286 or email ID: cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issue till the last date of submission of bid in their own interest.

**Assistant Engineer (E)-II
BBSR, CPWD, Bhubaneswar**

Form "B"

EMD Receipt format

Receipt of deposition of original EMD

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

Name of work: **MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH- Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).**

NIT No: **50/EE-E/BBSR/AE-E-II/CPWD/2026-27**

1. Estimated Cost: **Rs.2,54,734.00**
2. Amount of Earnest Money Deposit: **Rs.5095.00**
3. Last date of submission of bid: **10.09.2026 15:00 PM**

(*To be filled by NIT approving authority/EE at the time of issue of NIT and uploaded along with NIT)

Name of Contractor:.....#

1. Form of EMD:.....#
2. Amount of Earnest Money Deposit:.....#
3. Date of submission of EMD:.....#

Signature, Name and Designation of EMD

Receiving officer (EE/AE(P)/AE/AAO)

alongwith office stamp

(# to be filled by EMD receiving EE)

Form – “C”

CONFIRMATION FOR SUBMISSION OF FINANCIAL BID

To
The Assistant Engineer (E)-II
BBSR, CPWD, Bhubaneswar.

Sub:-

Sir,

I/We the Bidder have uploaded financial bid from our firm for
above work.

Yours faithfully

Signature

Full Name of the Firm/Bidder:.....

Designation:.....

Address:.....

Tele No.s (O)..... (R).....

E mail:.....

Fax No:.....

Form – “D”

UNDERTAKING

I/we declare that, I/we have not been debarred/restrained/ black listed by any Central Govt. / State Govt. Agency/ Autonomous body of the Central or State Govt. / PSU etc.

Signature of the Bidder

Address

Form – “E”**AFFIDAVIT OF MEMORANDUM OF UNDERSTANDING (MOU)**(to be submitted for each and every E&M component)

1. M/s. (Name of the firm with full address)
2. Enlistment Status
Valid Upto:
(Henceforth called the main Contractor)
3. M/s. (Name of the firm with full address)
4. Enlistment Status
Valid Upto:
(Henceforth called Associated Contractor)

For the execution of E & M Component Works –

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the Engineer In charge. Any of us may appeal against the mediation to the Chief Engineer, CPWD, Bhubaneswar. His decisions shall be final and binding on both of us. We have agreed as under:

1. The Associated Contractor will execute all E & M works in the wholesome manner as per terms and conditions of the agreement.
2. The Associated Contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.
3. All the machinery and equipments, tools and tackles required for execution of the E & M works, as per agreement, shall be the responsibility of the Associated Contractor.
4. The site staff required for the E & M work shall be arranged by the Associated Contractor as per terms and conditions of the agreement.
5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated Contractor and by Associated Contractor himself.
6. All the correspondence regarding execution of the E & M work shall be done by the department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR	SIGNATURE OF ASSOCIATED CONTRACTOR
Date:	Date:
Place:	Place:
1. Witness with address	2. Witness with address
(From major component contractor side)	(From minor component contractor side)

CPWD-7**CPWD**

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

Percentage Rate Tender and contract for works

Tender for the work of: **MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH- Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).**

To be uploaded by 15.00 hours on **10.09.2026** at www.etender.cpwd.gov.in

To be opened in presence of tenderers who may be present at 15:30 hours on **10.09.2026** in the office of **Assistant Engineer (E)-II, Bhubaneswar, CPWD, Bhubaneswar.**

TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C,D & E Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, of 2023 with up to date amendments 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 of 2023 with up to date amendments 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 in case of single bid system and not to make any modification in its terms and conditions

(a) Performance Guarantee of 5% (Five Percent) of the Tendered value or Estimated Cost put to Tender(ECPT) (whichever is higher) (b) Where the tendered amount is less than eighty percent (80%) of the ECPT , the PG , 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 within the period specified in schedule F(GCC 2023 maintenance work amended vide No-DG/CON/Maintenance 2023/18 Dt.27.02.2026) is here by 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 performance guarantee. If I/We, fail to furnish the prescribed performance guarantee with in prescribed period. I/We agree that the said President of India or his successors, in offices hall without prejudice to any other right or remedy, be at liberty to forfeit the said performance guarantee 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, beat liberty to forfeit the said performance guarantee absolutely. The said performance guarantee shall be 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 Clause12.2 and 12.3 of the tender form. Further, I/We agree that in case off or feature of Performance Guarantee as aforesaid. I/We shall be debarred for participation in there-tendering process of the work.

CPWD-7**CPWD**

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: **

Address: **

Postal Address **

Occupation: **

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of the President of India for a sum of s.....*..... (Rupee.....*.....).

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

- (a) *
- (b) *
- (c) *

For & on behalf of President of India

Signature.....*.....

Dated:*.....

Designation

.....

*** Blanks to be filled by EE/BCED**

**** To be filled by Contractor**

PROFORMA OF SCHEDULES**CPWD****SCHEDULE 'A'**

Schedule of quantities (As per PWD-3) :

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract of 2023 with up to date amendments

Name of Work	:	MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH-Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).
Estimated cost of work	:	Rs.2,54,734.00
Earnest Money	:	Rs.5095.00 (to be returned after receiving Performance Guarantee) (EMD shall be made / issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid shall not be accepted. (CPWD Works Manual-2024 amended vide No-DG/SOP 2024/22 Dt.23.03.2026).
Performance Guarantee	:	(a) Performance Guarantee of 5% (Five Percent) of the Tendered value or Estimated Cost put to Tender (ECPT) (whichever is higher) (b) Where the tendered amount is less than eighty percent (80%) of the ECPT, the PG, 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. (GCC 2023 maintenance work amended vide No-DG/CON/Maintenance 2023/18 Dt.27.02.2026).
Security Deposit	:	<u>2.5 % of Tendered Amount</u> <u>OR</u> 2.5% of tendered value plus 50% of PG for contracts involving maintenance of the building and services / other work after construction of same building and services / other work.

SCHEDULE 'F'**GENERAL RULES& DIRECTIONS:**

Officer inviting tender

: **AE (E)-II/BBSR/CPWD/ Bhubaneswar**

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

Definitions:

- 2(v) Engineer-in-Charge : AE (E)-II/BBSR/CPWD/ Bhubaneswar
- 2(viii) Accepting Authority : AE (E)-II/BBSR/CPWD/ Bhubaneswar
- 2(x) Percentage on cost of materials and Labour to cover all overhead and profits: : **15%**
- 2(xi) Standard Schedule of Rates : **DSR'25 & Prevailing Market Rate As Applicable**
- 2(xii) Department : **CPWD**
- 9(ii) Standard CPWD Contract Form GCC 2020 : **CPWD Form 7 modified & Corrected upto Date.**

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, : **03 (Three) days with late fee @ 0.1% per day of the PG amount (Non-refundable)**

Clause 2

Authority for fixing compensation under clause 2

: **EE(E)/BBSR/CPWD/ Bhubaneswar**

Clause 2A

Whether Clause 2A shall be applicable

: **Not Applicable**

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start : **10 Days**

Time allowed for execution of work

: **02 Months**

Authority to decide:

- (i) Extension of time : **EE (E)/ BBSR /CPWD/ Bhubaneswar**
- (ii) Rescheduling of mile stones : **EE (E)/ BBSR /CPWD/ Bhubaneswar**
- (iii) Shifting of Date of start in case of delay in handing over of site : **EE (E)/ BBSR /CPWD/ Bhubaneswar**

PROFORMA OF SCHEDULES Clause 5 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		
Part-B	Portion with encumbrances		
Part-C	Portion dependent on work of other agencies		

Clause-6, 6A

Clause applicable- (6 or 6A)

: **Clause 6A applicable**

Clause 7

Gross work to be done together with net payment / : **10% of Tender Amount**
 adjustment of advances for material collected, if any, since
 the last such payment for being eligible to interim payment

Clause 7A

Whether Clause 7 A shall be applicable - : **YES / NO**

Clause 10A

List of testing equipment to be provided by the contractor at
 site lab. :

1. Megger

2. EARTH TESTER

1. Multimeter

4. Clamp Meter

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 : **75%**

Clause 10CA

: **Not Applicable**

Clause 10CC

: **Not Applicable**

Clause 10 CC to be applicable in contracts with stipulated
 period of completion exceeding the period shown in next : **Not Applicable**
 column

Clause 10 CC to be applicable in contracts with stipulated
 period of completion exceeding the period of 02 Months.

Schedule of component of other Materials, Labour, POL etc.
 for price escalation : **Not Applicable**

Clause 11

Specifications to be followed : **N/A**
 For execution of work

Clause 12

Maximum percentage for quantity of items of work to be
 executed beyond which rates are to be determined in : **Yes**
 accordance with

Clause 12.2 & 12.3

12.2 & 12.3 Deviation Limit beyond which clauses 12.2 &
 12.3 shall apply for building work (Civil, E&M :
 and Horticulture)

No Limit

Maintenance Work

As per OM No.DG/CON/313 dt
 17.02.2021.

15.5 (I) Deviation Limit beyond which clauses 12.2&
 12.3 shall apply for foundation work(Except : **NA**
 items mentioned in earth work sub head of
 DSR and related items))

15.5 (II) Deviation Limit for Items in earth work
subhead of DSR and related items : **NA**

Clause 16

Competent Authority for taking action in case work not done as per specifications. : **AE(E)-II/BBSR/CPWD/Bhubaneswar**

Clause 17

Defects liability period shall be 02 Months after declaring the original construction work completed by the competent authority : **1 Year**

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site : **As required for timely execution of work as per direction of Engineer –in – charge**

Clause 19

The contractor shall also comply with the provisions of the inter-state migrant workman (Regulation of Employment and Condition of Service) Act. 1979, if applicable

Clause 25

As per OM No.DG/CON/317 dt:28.06.2021. and OM No.DG/CON/318 dt:17.08.2021.	
1. Conciliator	SDG, Project Region, Kolkata
2. Arbitrator Appointing Authority	Chief Engineer, CPWD, Bhubaneswar.
3. Place of Arbitration	To decided by Arbitrator in consultation with both the parties.

Clause 36

Requirement of Technical Representative(s) and Recovery rate

S.N	Minimum Qualification of Technical Representative	Discipline	Designation (Principal / Technical / Technical Representative)	Minimum experience	Nos.	Rate at which recovery shall be made from the contractor in the event of not fulfill provision of Clause 36(i)	
						Figure	Words
As per NIT							

Note:-

1. Assistant Engineers retired from Government services, who are holding Diploma will be treated at par with Graduate Engineers.
2. Diploma holder with minimum 10 years relevant experience with a reputed construction company can be treated at par with Graduate Engineers for such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Additional Conditions and Specifications for Internal Electrical Installations.

1. General

- 1.1. The work shall be generally carried out in accordance with schedule of quantities and the following specifications and conditions.
 - a. CPWD general specifications for electrical work Part-I Internal- 2023, as amended upto date.
 - b. CPWD general specifications for electrical work Part-II external – 2023, as amended upto date.
 - c. Commercial and additional conditions for this work.
 - d. The Indian electricity Act, 2003 as amended upto date.
 - e. Indian electricity rules 1956 amended upto date.
- 1.2. The Department shall not issue any T & P and nothing extra shall be paid on account of this.

2. Rates:

The rates quoted by the tenderer, shall be firm and inclusive of all taxes (Including works contract tax, labour welfare cess (but excluding service tax), Octroi, 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, over head charges, general liabilities / obligations and clearance from local authorities.

3. 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 use full 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.

4. Storage and Custody of Materials:

The agency has to make his own arrangement for storage, watch and ward of the stores. Their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

5. Care of the Building:

Care shall be taken by the contractor while handling and installing the various equipments 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.

6. Completion period:

The completion period indicated in the tender documents is for the entire work of supplying, installation, testing, commissioning and handing over of the entire installation to the satisfactory of the Engineer-in-Charge.

7. Performance Guarantee:

The tender shall guarantee among other things, the following visa-a-vis specifications.

- a. Quality, strength and performance of the materials used.
- b. Satisfactory operation during the maintenance period.

8. Defect Liability Period:

- a) The entire installation in general shall be guaranteed for a period of 145 Days from the date of completion. Any defective materials and equipment shall be replaced free of cost at the direction of the Engineer-in-Charge within this period.

9. Release of Security Deposit after the warranty period of LED fitting/LED Lamps.

- a) All the LED Bulbs/LED fittings shall be guaranteed for a period of 5 years
- b) 50% of the Performance Guarantee shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.
- c) 50% of the Performance Guarantee shall be retained as Security Deposit.

- d) 50% of the Performance Guarantee retained as Security Deposit plus 2.5% Security Deposit already deducted from running bill (Total=2.5+2.5=5%) shall be refunded year wise proportionately.

10. Power Supply:

No power supply for the purpose of carrying out the work, except for testing and commissioning, shall be provided by the department.

11. Data and Programme to be furnished by the tenderers:

The Contractor shall prepare the programme chart for the execution of the work showing clearly all activities from the start of work to the completion required for the completion of the work within the stipulated period and submit the same to the Engineer-in-Charge within fifteen days after the issue of letter for commencement of the work. The contractor shall also submit monthly programme and progress report and update / re-schedule the same every month. These shall be submitted by the contractor in soft copy also besides forwarding hard copy of the same.

12. Extent of work:

- 12.1. The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be requirement by the department.
- 12.2. Minor building works necessary like making of opening in walls or in floors and restoring to their original condition, finish and necessary grouting etc as required to be undertaken.

13. Compliance with Regulations and Indian Standards

- 13.1. All works shall be carried out in accordance 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. IS & BS Standards as applicable.
 - d. Workmen's compensation Act.
 - e. Statutory norms prescribed by local bodies.

14. 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 equipments 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.

15. Co-operation with Other Agencies:

The successful tender shall co-ordinate with other contractors and agencies engaged in the construction of the building and exchange freely all technical information so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical operation. If any unreasonable hindrance is caused to other agencies and any existing portion of the building has to be dismantled and re-done for want of cooperation and coordination by the successful tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not under taken by the successful tenderer himself. Water proofing of pits shall not be damaged under any circumstances.

16. Verification of Correctness of Material at Destination:

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

17. Order of Preference:

Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, technical specifications for individual items of work (Including additional and commercial conditions) and IS codes etc, the following order of preference shall be followed:

- a. Schedule of quantities.
 - b. Commercial and additional conditions for this work.
 - c. General conditions of contract for CPWD works.
 - d. Drawings
 - e. CPWD General Specifications.
 - f. Relevant IS or any other International code in case is not available.
18. Executive Engineer (Elect.) shall be the Engineer-in-Charge as far as electrical works are concerned. Separate tender form for electrical component is appended with this tender. It will be obligatory on part of the main contractor to sign the tender documents for all the components.
 19. The main agency shall be responsible for all acts of omissions and submissions of the electrical contractor or sub-contractor engaged by him, even with the approval of the department.
 20. Approval of the Engineer-in-charge shall be taken well in advance for all the materials to be supplied and used in all the works by the contractor.
 21. The contractor has to make his own arrangements for stores and watch and ward and no extra claim for this will be entertained.
 22. Running payment for electrical / mechanical components shall be made by the EE (E) directly to the main contractor. The main contractor shall make the payment to associated contractor within 15 Days of receipt of each running account payment.

23. Payments 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 rate not exceeding the percentage indicated against the stages of work.

A] Items connected with point wiring, circuit wiring, sub-main wiring, power point wiring and light plug wiring.

S. N	Stage of work	Percentage of Rate
A	On laying of conduits with accessories, switch boxes, etc.	40%
B	On drawing of wires i/c terminations, switches, sockets, cover plates etc.	40%
C	On completion of installation, testing and commissioning.	15%
D	At the time of payment of final bill.	5%

B] Items of Lighting Fixtures, MV Panels, MCBs, MCB DBs, Rising Main, DLP Trunking etc

S. N	Stage of work	Percentage of Rate
A	On initial inspection of material and delivery at site in good condition on pro-rate basis.	70%
B	On completion of installation on pro-rata basis.	15%
C	On completion of testing and commissioning.	10%
D	At the time of payment of final bill.	5%

For other items, the part rates will be decided by the Engineer-in-Charge of the work and shall be binding on the contractor.

24. The main contractor shall be responsible for coordinating the activities of all works and will ensure progress of works as per laid down program.
25. The main contractor and / or his associated electrical contractor or his representative is bound to sign the site order books as and when required by the Engineer-in-charge and will comply with the remarks therein.

26. The contractor shall make his own arrangement at his own cost for electrical / general tools and plants required for the work.
27. The connections, interconnections, earthing and loop earthing shall be done by the contractor when ever required to be done for energisation of the installation and nothing extra shall be paid on this account.
28. The contractor must be able to work on concrete slabs / walls as and when required and in complete coordination with the civil works. Cutting of chases in the plastered wall shall in no case be allowed. The contractor shall fix conduits and boxes in the walls soon after the brick work is completed and finish the case to rough surface with proper cement sand mixture. Only in exceptional cases e.g. where cutting of plastered surface can not be avoided it will be contractor's responsibility to ensure that plastering is done to match the original finish at no extra cost.
29. The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.
30. The wiring and conduit route shall be marked by the contractor in the drawing first, and shall be got approved from Engineer-in-Charge.
31. Some light points in lobby / corridors / stair case / lift shaft etc are group controlled which will be measured as per specifications.
32. The rupturing capacity of the MCB's shall be **10KA**. The MCB's shall have **ISI mark**. Quantities of MCBs of different rating of 6 amps to 32 amps shall be brought in consultation and after obtaining approval from the Engineer-in-Charge.
33. All the MCCB's shall be rated for **Ics=Icu**
34. The copper wires to be used on this work shall be FRLS type and ISI marked.
35. The make of switch boxes shall be the same as that of switches. Only the required knockouts of the switch boxes are to be removes for terminating the conduit pipes with PVC glands / check nuts.
Make of MCB / MCCB shall be the same as the make of MCB DB.
All the switch boxes, MCB DBs are to be covered with plastic sheet / petroleum gelly when installed in brick work till the plastering / painting is done to avoid sticking of cement plaster / splashes of the paint. Cement plaster / paint are to be cleaned immediately after plaster to avoid rusting of switch boxes and MCB DBs. The plastic sheet is to be removed at the time of handing over.
All pin 15 amp and 6 pin 15/16 amps power sockets, fan regulator shall be of 2/3 module type.
36. The contractor shall submit technical data sheet(TDS) for Engineer-in-charge for approval regarding purchases of wires, modular switches & accessories, MCB's MCB DB, LED fittings, accessories and other items, from the manufacturer's authorization outlets.
37. All PVC conduits accessories shall be of the same make as conduits. The conduits shall be terminated at switch boxes / metallic junction boxes with suitable PVC glands / check nuts.
38. All the sub main and circuit wiring includes loose wire for connections inside switch boxes and MCB DB's
No payment for these wires shall be made. However wires within the cubical panel will be measured and paid under relevant item of work. All the circuit/sub main wiring are to be suitably numbered with stickers/maker pen at LT panel, MCB DB's switch boards (ON backside of cover plate) for ease of maintenance. Nothing shall be paid extra on this account.
39. The contractor shall submit the completion plan separately in triplicate within 30 days of the completion of work. In case, the contractor fails to submit the plan, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs. 25, 000.00.
40. To facilitate drawing of wires, 18 SWG GI fish wire shall be provided along with laying of recessed conduit for which no extra payment shall be made. Conduits laid for other services, like fire alarm, PA etc, where wiring is not done along with EI works, fish wire shall be invariably drawn.
41. The connection between incoming switch / isolator and bus bar shall be made with suitable size of thimble and cable at no extra cost.

42. Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.
43. All MS junction box cover should be of phenolic laminated / good quality plastic sheet of thickness not less than 3 mm and for which nothing extra shall be paid on the account.
44. All sub-main/power/light wiring shall be terminated in the main board as well as in the switch boards/socket outlets with suitable copper lugs / thimbles for which nothing extra shall be paid on this account.
45. All hardware items such as screw, thimbles, GI wire etc which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
46. All hardware items such as nuts / bolts / screws / washers etc to be used in work shall be zinc / cadmium plate iron.
47. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
48. While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the Engineer-in-Charge.
49. Materials to be used in work are to be ISI marked. 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 use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the materials which, in his opinion, is not acceptable.
50. Where switches / sockets / regulator / telephone / TV / internet outlets are to be provided the same shall be of only one make.
51. While laying conduits for fire alarm system, sufficient junction outlets are to be provided as per the direction of the Engineer-in-charge for detectors as reqd.
52. Wherever light fittings are proposed to be provided on the false ceiling, the respective light / fan point wiring will have to be brought up to the terminal of the light fittings / fans by the contractor. Flexible metal conduits shall be used for drawing wires from ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same.
53. Rate Rationalization shall be applicable 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. Accordingly the lowest rate quoted for that item among all the sub-heads shall be considered for all similar items for evaluation of tender and making payment.
54. All statutory deductions like WCT, labour welfare cess etc. shall be made from the bills.

LIST OF APPROVED MAKES OF MATERIALS

IEI		
1	Wires (PVC insulated copper conductor cable FRLS-ISI marked)/Telephone cables / Submersible cables / Co-axial / TV cables	Havells, Finolex, KEI, Gloster, RR Kabel, Polycab.
2	PVC Conduits (ISI marked) (color of conduit : Ivory / Grey)	Precision, AKG, BEC, GM, Norpack, Atul
3	Steel Conduit (ISI marked)	BEC, AKG, RMCON, Steel Krafts, Precision, Atul
4	Modular Switches/Sockets/TV Socket / Telephone sockets / Data Sockets / Electronic Regulators / AC Starter Switch etc.	Legrand(Myrius), Panasonic (Vision), Crabtree (Athena), Wipro (North west-stylus+, C&S (Elusio), Schneider (Unica Pure)
5	MCB DBs/ Industrial Socket outlets	Legrand, Schneider, LK(Exora), ABB, SIEMENS, C&S
6	MCBs / RCBO / Isolators	Legrand, Schneider Electric, LK, ABB, SIEMENS, C&S-EPITONE
7	MCCBs	Legrand (DPX3), LK (D-sine), Schneider Electric (Compact NSX/ EasyPSPLITCVS), ABB(T-Max), SIEMENS (3VL)
8	LED Luminaries including street light fittings.	Phillips, Wipro, Havells, K-Lite, LT, Trilux, Regent
9	1200 mm sweep ceiling fans with BLDC motor	Orient, Havells, Atomberg, USHA
10	GI pipes	TATA, Jindal, Surya, SAIL
11	Junction Box	Hensel/Spelsberg/ABB/Cooper busman/ Legrand/ Trinity/Touch
12	DWC Pipes	TeleRex, Dutron, VekayPlast, Duroline, Supreme, Gemini.
13	1.1KV grade aluminium conductor, XLPE insulated armoured UG Cables	Havells, KEI, Gloster, Finolex, Polycab, RR Kabel
14	HT Jointing kit and termination joint	3M, Tropolin, Densons, Raychem, CCI-Xicon, Mahindra, Dowells.
15	CI NRV / Sluice / Butterfly valves/ GM gate valves (ISI marked only)	Zoloto, Leader, Kirloskar, Deepak, LK Valve Limited, Sant
15	Any other item	To be decided by Engineer-In-Charge

SCHEDULE OF WORK

Name of work : MOEI for Day to day operation of DG Set, Pump Set, AC Units and Compound Light fittings of Residential & Non-residential Building at NCC Nagar, Bhubaneswar. (SH- Replacement of LT Power Cable including Earthing for Pump House and Rewinding & Overhauling of Water Pump Set).

SLNo	Description	Qty	Unit	Rate	Amount	Remarks
	ELECTRICAL COMPONENT					DSR'25
1	Supplying of following size ISI marked XLPE insulated and PVC sheathed aluminium conductor armoured Power cable of 1.1 KV grade as required.					
	a) 3.5 C X 50 sq mm	130	Mtr	782.00	101660.00	MR
2	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 pipe as required.					
	a) Above 35 sq. mm and upto 95 sq. mm	110	Mtr.	72.00	7920.00	10.5.2
3	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 as required.					
	a) Above 35 sq. mm and upto 95 sq. mm	20	Mtr.	58.00	1160.00	10.6.2
4	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.					
	a) 3½ X 50 sq. mm (35mm)	2	Each	484.00	968.00	11.1.22
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.					
	a) 63 mm dia (OD-63 mm & ID-51 mm nominal)	110	Mtr.	289.00	31790.00	15.16.1
6	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2	Each	8351.00	16702.00	5.4

7	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	10	Mtr.	755.00	7550.00	5.11
8	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	20	Mtr.	287.00	5740.00	5.15
9	Lowering of 7.5 HP open well submersible pump motor set along with 50 mm dia GI pipe from existing UG sump by necessary arrangement, team of labour, disconnection from panel etc as reqd.	1	Job	1990.00	1990.00	M/R
10	Rewinding of 7.5 HP openwell submerssible motor set with super quality PVC coated copper wire i/c all winding accessories after removing the existing defective burntout PVC coated copper wire complete with connection, testing i/c crediting old dismantle cost etc as required.	1	Job	13538.00	13538.00	M/R
11	Overhauling of 7.5 HP open well submerssible pump motor set by opening part by part, checking, cleaning, key grooving works, impellor sheet works i/c replacement of gun-metal bush (3 Nos), rubber seal, thrust plate & bearing, welding, turning & polishing, fitment by leathe, colouring, reassembling, testing i/c crediting wornout / defective dismantle materials cost etc as required.	2	Job	7296.00	14592.00	M/R
12	Lifting of 7.5 HP open well submersible pump motor set along with 50 mm dia GI pipe in the existing UG sump by necessary arrangement, team of labour, connection with panel, testing, commissioning etc as reqd.	1	Job	1990.00	1990.00	M/R
13	Supplying, Installation, Testing and Commissioning of fixing of following dia. Gun metal gate valve (Screwed type) on the existing pipeline, including testing & Commissioning etc. complete as required.					
	a) 50 mm dia	1	Each	7881.00	7881.00	20.20.2
14	Supplying, Installation, Testing and Commissioning of fixing of following dia. Gun metal Horizontal Non Return valve (screwed type) on the existing pipeline, including testing & Commissioning etc. complete as required.					
	a) 50 mm dia	1	Each	8693.00	8693.00	20.21.2

15	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. complete as required.					
	a) 3 Core 4.0 Sq mm Flat Cable	50	Mtr	186.00	9300.00	20.28.3
16	Supply of following material as per existing make & model including less credit for old/worn out / defective materials.					
	a) S.P 5/6 amps one way modular switch, ISI marked.	20	Each	43.00	860.00	M/R
	b) 3 pin 5/6 A modular socket outlet, ISI marked	20	Each	81.00	1620.00	M/R
	c) S.P 15/16 A one way modular switch, ISI marked.	20	Each	95.00	1900.00	M/R
	d) 6 pin 15/16 A modular socket outlet, ISI marked.	20	Each	135.00	2700.00	M/R
	e) 2.5 MFD Fan Capacitor suitable for single phase, 230 V.	20	Each	64.00	1280.00	M/R
	f) LED Driver BIS approved for LED Street light / compound light / flood light etc.	20	Each	324.00	6480.00	M/R
	g) LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy 105 <120 lm/Watt) of following Capacity.					
	i) 70 Watt	5	Each	1,684.00	8420.00	MR
	Total				254734.00	
	Say				254734.00	

**Assistant Engineer (E)-II
BBSR, CPWD, Bhubaneswar**