

**URANIUM CORPORATION OF INDIA LIMITED**  
**(A GOVERNMENT OF INDIA ENTERPRISE)**  
**P.O. - JADUGUDA MINES**  
**DIST. – SINGHBHUM (EAST)**  
**JHARKHAND – 832 102**

**N.I.T. NO: TMD/600**

**Cable laying, cable termination and erection of MCC, PDB panels  
for Peroxide Plant**

1. To be deposited in the tender box at the office of Dy. Manager (Pers.), Turamdih by 15.00 hours on **22/08/2014**.
2. Tender will be opened in the presence of tenderers who may like to be present at 15.30 hours on **22/08/2014**.

Issue to .....

(Name of the contractor)

Signature of officer issuing the

Tender documents:	.....
Designation:	.....
Date:	.....

Cash Memo No .....

***URANIUM CORPORATION OF INDIA LIMITED***  
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**TENDER DOCUMENT**

**OF**

**N.I.T. NO: TMD/600**

**Cable laying, cable termination and erection of MCC, PDB panels  
for Peroxide Plant**

**URANIUM CORPORATION OF INDIA LIMITED**  
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Note: This Tender document consists of total no. of 33 pages including Schedule - A & Schedule – B.

# URANIUM CORPORATION OF INDIA LIMITED

## (A GOVERNMENT OF INDIA ENTERPRISE)

P.O. - JADUGUDA MINES  
DIST. - SINGHBHUM (EAST)  
JHARKHAND - 832 102  
Phone No. 0657 2318 001-4, Extn. No. 7454

Ref: UCIL/TMD/MILL/ELECT/06/14

Date: 25/07/2014

### **NOTICE INVITING TENDER NO: TMD/600**

Sealed tenders (Single part tender) in triplicate in prescribed form are invited by the Chairman & Managing Director, Uranium Corporation of India Limited, Jaduguda from bonafide, reliable, experienced and resourceful contractors for execution of following work:

Name of the work	Earnest money deposit	Cost of Tender Document	Completion Time	Date of Issue	Last date of receiving Tender
Cable laying, cable termination and erection of MCC, PDB panels for Peroxide Plant	Rs.12000/-	Rs. 350/-	08 (eight) months	30/07/14 to 22/08/14	22/08/14 up to 3.00 PM

The bidder shall have experience of carrying out at least 01 (one) electrical job of cable laying & erection of PDBs / fabrication of cable trays & erection of Electrical panels / maintenance of lighting systems in last 04 (four) years of job value of approximately Rs.6,00,000/- .

Copies of work orders from client as documentary evidence should be provided to prove above experience.

Full details, terms and conditions and specifications of the work shall be available in the tender document which can be had from the office of the Dy. Manager (Personnel), Uranium Corporation of India Limited, Turamdih, dist: Singhbhum (East), Jharkhand – 832 107 on payment of cost of tender document (Non-refundable) on all working days except Sundays and National holidays between 8.30 AM to 12.00 Noon and 2.00 PM to 5.00 PM..

The above tender document can also be downloaded from our web site “[www.ucil.gov.in](http://www.ucil.gov.in)”. In that case the cost of Tender document must be submitted along with the offer in form of Demand Draft.

Sealed Tenders will be received in tender Box kept at the Office of Dy. Manager (Personnel), Turamdih up to 3.00 PM on **22/08/2014** and Chairman & Managing Director or his representative (s) will open tenders on **22/08/2014** at 3.30 PM at Turamdih in the presence of tenderers who may like to be present.

The Corporation reserves the right to accept or reject any or all tenders either in full or part thereof or to split up the work if necessary without assigning any reasons whatsoever.

For Chairman & Managing Director  
Uranium Corporation of India Limited, Jaduguda

**URANIUM CORPORATION OF INDIA LIMITED**  
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**JHARKHAND – 832 102**

**DETAILED NOTICE INVITING TENDER**

1. Sealed item rate contract tenders are invited on behalf of the Chairman & Managing Director, Uranium Corporation of India Limited, Jaduguda for Cable laying, cable termination and erection of MCC, PDB panels for Peroxide Plant.
2. The tender shall be in prescribed Form and it shall be valid for a minimum period of six months from the date of opening of tender. Should the tenderer modify or withdraw his tender within the said period of six months from the date of opening the tender, earnest money deposited by the tenderer shall be forfeited.
3. The works are required to be completed as given in the special condition of contract from the seventh day after the date on which the Engineer-in-charge issues written orders to commence the work or from the date of handing over of the site, whichever is later, in accordance with the phasing, if any indicated by the Corporation in the tender documents.
4. Normally contractors whose names are borne on the approval list of contractor of C.P.W.D/M.E.S. or Local reputed/experienced contractors will be permitted to tender. Not more than one tender shall be submitted by a firm of Contractors.
5. Chairman & Managing Director shall be the Accepting Officer herein after referred to as such for the purpose of this contract.
6. Tender documents consisting of drawing, specification, schedule of quantities of the various classes of work to be done, the conditions of contract and other necessary documents will be open for inspection and issued/sold on payment of Rs. 350/- from **30/07/2014** up to **22/08/14**.
7. Issued tender documents shall be submitted to the Dy. Manager (Pers.), Turamdih so as to reach his office not later than **22/08/14** up to 3.00 PM.
8. NIL
9. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made him self aware of the scope and specifications of the work to be done and of considerations and rates at which stores, tools and plants, etc. will be issued to him by the Corporation and local conditions and other factors bearing on the execution of the work.
10. A tenderer should quote in figures as well as in words rate (s) tendered. The amount for each items should be worked out and the requisite totals given. Special care shall be taken to write rates in figures as well as words, and the amounts in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures

and in words. In case of words 'Paisha' after the decimal figures, e.g. Rs. 2.15p and in case of work the Words 'Rupees' should precede and the Words 'Paisha' should be written at the end unless the rate is in whole rupees and followed by words 'only' it should invariably be up to place of decimal.

11. All rates shall be quoted on the tender form in triplicate.
12. In the case of item rate tender, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected.
13. The tender for the works shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered for the same works. Failure to observe this condition shall render the tender of the contractor tendering as well as of those witnessing the tender liable to rejection.
14. Tenders shall be received by the Dy. Manager (Pers.) upto 3.00 PM. on the **22<sup>nd</sup> August, 2014** and shall be opened at 3.30 PM on the same date in the presence of tenderers who may like to be present.
15. The tender shall be accompanied by Earnest Money of **Rs.12000/-** in the form of DD/TDR/FDR/DAC in favour of Uranium Corporation of India Limited, Jaduguda payable at State Bank of India, Jaduguda/Hartopa.  
  
On acceptance of tender, Earnest Money will be treated as part of the Security deposit. Failure of the successful tenderer to carry out the tender work shall entail forfeiture of the Earnest Money and Security Deposit entirely.
16. The Uranium Corporation of India Limited, Jaduguda is connected by both rail and road links and situated on the Howrah-Bombay line of S.E. Railway at a distance of 232 Km. from Howrah and 27 from Tatanagar. The name of the Railway station is Rakha Mines. Jaduguda is at a distance of about 48 Km. from Tata by road on Tata-Mosaboni Road, the main plant is located at about 5 Km. from Rakha Mines Railway station. Narwapahar is connected by all weather road to Tatanagar (15 Km. approx.) and to Jaduguda and Rakha Mines Railway Station (about 11 Km. Turamdih is connected by all weather road to Tatanagar (5Kms. Approx.)
17. Uranium Corporation of India Limited, Turamdih will return the Earnest Money without any interest to unsuccessful tenderer on production by the tenderer a certificate of Ch. Supdt. (Elect.)/Mill, Turamdih.
18. A tenderer shall submit the tender which satisfied each and every condition laid down in this notice, failing which, the tender will be liable to be rejected.
19. The Corporation does not bind themselves to accept the lowest or to give any reasons for their decision.
20. The Corporation reserve to themselves the right of accepting the whole or any part of the tender and tenderer shall be bound to perform the same at quoted rates.
21. Sales Tax or any other tax on materials in respect of this contract shall be payable by the contractor and the Corporation will not entertain any claim whatsoever in this respect.

22. This notice of tender shall form part of the contract documents.

For and behalf of  
CHAIRMAN & MANAGING DIRECTOR  
URANIUM CORPORATION OF INDIA LIMITED

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

**URANIUM CORPORATION OF INDIA LIMITED**  
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**P.O. - JADUGUDA MINES**  
**DIST. – SINGHBHUM (EAST)**  
**JHARKHAND – 832 102**

**FORM OF TENDER**

To  
The Chairman & Managing Director,  
M/s. Uranium Corporation of India Limited,  
P.O: Jaduguda Mines  
Dist: Singhbhum (East)  
Jharkhand – 832102

Dear Sir,

I/We, the undersigned hereby submit, the tender document for the work as above and hereby under take to execute the complete works as set forth in the scope of work, Technical Specifications, Tender Drawings in accordance with the conditions of tendering, special conditions of contract, general conditions of contract or in default thereof to forfeit any pay to Uranium Corporation of India Limited, the sum of money mentioned in relevant Tender Documents.

I/We agreed to abide by this tender for the period of \_\_\_\_\_ months from the date fixed for the opening of the same and in default agree that the amount of Earnest Money along with this tender may be forfeited.

I/We undertake to complete whole works covered under this tender within a period of \_\_\_\_\_ months from the date of Letter of Acceptance.

I/We have deposited as the Earnest Money a sum of Rs. \_\_\_\_\_ in shape of \_\_\_\_\_ which amount is not to bear any interest and I/We do hereby agree that this sum shall be forfeited by Uranium Corporation of India Limited in the event of accepting my/our tender I/We fail to execute the Contract when called upon to do so.

If this tender is accepted, I/We shall deposit the sum to constitute the security deposit required by the relevant terms of the contract.

I/We also undertake, as required to enter into a contract with Uranium Corporation of India Limited by executing an Agreement in the prescribed Contract Agreement from enclosed along with this tender document and till such time the Agreement be not executed, we shall be bound by the terms and conditions of the tender document and subsequent letter, minutes of discussions and letter of acceptance.

(Signature of Tenderer with seal)

Name:

Address of the firm:



Dated .../.../..... Day of 20.....

ARTICLES OF AGREEMENT made at \_\_\_\_\_.

This \_\_\_\_\_ day of \_\_\_\_\_ 200\_\_\_\_\_

between \_\_\_\_\_ (hereinafter referred to as the Corporation which expression shall include its successors and assigns) of the one part and Messrs.

\_\_\_\_\_ (hereinafter referred to as Contractor which expression shall include its successors and assigns of the other part  
WHEERAS the Corporation is desirous that certain works should be constructed viz.

\_\_\_\_\_.  
\_\_\_\_\_ and has accepted a tender by the Contractor for the construction completion and maintenance of such works NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement works and expression shall have the same meanings as are respectively assigned to them in the General conditions and special conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this agreement, viz:
  - a. Tender notice no. \_\_\_\_\_ dated \_\_\_\_\_.
  - b. The drawings
  - c. The tender
  - d. The general conditions of contract
  - e. The specifications
  - f. The special conditions
  - g. The schedule of quantities
  - h. Design data and technical specifications (if any)
  - i. General information and guidance of tenderers
  - j. Any other document specifically mentioned herein as forming a part of the agreement
3. In consideration of the payments to be made by the Corporation to the Contractor as hereinafter mentioned, the contractor hereby covenants with the Corporation to construct,

complete and maintain the works in conformity in all respects with the provisions of the contract.

4. The Corporation hereby covenants to pay to the Contractor in consideration of the construction completion and maintenance of the works, the contract price at the times and in the manner, prescribed by the Contract.
5. The several parts of this contract have been read to us and fully understood by us.

AS WITNESS OUR hand this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_ signed by the said.

	_____
--	-------

**URANIUM CORPORATION OF INDIA LIMITED**

_____	
_____	

In the presence of

Signed by the said \_\_\_\_\_ Contractor

_____	
-------	--

In the presence of

**URANIUM CORPORATION OF INDIA LIMITED**  
**(A GOVERNMENT OF INDIA ENTERPRISE)**  
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**GENERAL INFORMATION AND GUIDANCE FOR CONTRACTOR**

The information given below is only for the Tenderer's general guidance and shall not relieve him of the responsibility for fully detailed first hand site investigations of his own before tendering:

1. Rates: The tenderers are required to quote the rates against all items of the schedule of quantities in words and figures clearly in duplicate (2<sup>nd</sup> copy shall necessarily be Xerox/carbon copy of the original) failure in this respect is liable to tender the tender incomplete.
2. The tenderer shall submit along with the tender a list of construction equipment and machinery in their possession and which they shall bring at site for these construction works.
3. If any clarifications regarding specifications, conditions of contract etc. or schedule of quantities is required, the same can be obtained by the Tenderer from the Uranium Corporation of India Limited.
4. In the event of the tender being submitted by a firm (Partnership) it must be signed separately by each member thereof, or in the event of the absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the India Partnership Act.
5. Receipts for payments on account of a work when executed by a firm (Partnership) must also be signed by the several partners except where the contractors are described in their tender as a firm in which case the receipts must be signed in the name of the firm by one of the partners, or by some other persons having authority to give effectual receipts for the firm.
6. Any person who submits a tender shall fill up the usual prescribed form stating at what rate he is willing to undertake each item of the work. The quantities shown therein are approximate only, being given as an indication of the scope of the work to enable the Tenderer to tender for the different portions of the work in accordance with his estimate of their cost, so that in the event of any increase or decrease in the quantity of any item of the work the actual quantities executed may be paid for at the rate stated for the particular item of work subject only to any adjustments that may be provided for in the General conditions. It is to be clearly understood that no work will be paid for under more than one item or than once under any item.
7. The tenderer is required to deposit as Earnest Money **Rs.12000/- (Rupees Twelve thousand only)** in any of the following forms and attach the official receipt thereof

failing which the tender shall not be considered. No interest shall be allowed on the Earnest money deposited.

- a. DD/FDR/TDR/DAC in favour of the Uranium Corporation of India Limited payable at State Bank of India, Jaduguda/Hartopa. The Earnest Money will be refunded to unsuccessful tenderers within a reasonable time without any interest. The Earnest Money deposited by the successful tenderer will be retained towards the security deposit for the due fulfillment of the contract but shall be forfeited if the contractor fails to deposit the requisite security money, execute the agreement/or start the work within reasonable time (to be determined by the Corporation after written acceptance of his tender).
8. Security Deposit: The amount of security deposit including the amount of Earnest Money shall be 10% of the tendered cost of the work. Upon acceptance of the tender, the successful tenderer shall within ten days of the written acceptance of his tender, deposit with the corporation an amount to make the security deposit 5% (five percent) of the value of the works at the accepted rates, such sum shall be deposited by the contractor in any of the forms stipulated in clause-7 above.

In addition to the above, further amounts to extent of 5% of the cost of the work will be deducted from the running monthly bills by way of percentage deductions; such percentage deduction shall be at 10% of the running monthly bills till the full amount of security deposit is released/retained by the Corporation.

9. If after the tender has been accepted, the tenderer fails to pay the security deposit as specified above, after written notice to him of such acceptance, the sum deposited by him as Earnest Money may be forfeited. The tenderer shall be not allowed to increase/withdraw his tender within two months from the date of opening of the tender and if he does so the Earnest Money deposit may be forfeited.
10. The officer inviting tenders shall have the right to reject all or any of the tenders, and will not be bound to accept the lowest.
11. The memorandum, the form of tender and the schedule of materials to be supplied by the Corporation ad their issue rates should be filled and completed in the office of the Corporation before the Tender Form is issued. If a form is issued to an intending tenderer without having been so filled in, an complete he shall request Corporation to have this done before he complete and delivers his tender.
12. The tenderer shall furnish satisfactory evidence that he has a true appreciation of the scope of the work, the ability and experience to perform the various clauses of work involved, and that he has sufficient capital and plant to enable him to prosecute the same successfully and to complete it in the time named in the contract. In compliance with this, the tenderer shall along with tender furnish a list of major works executed by him during three previous years, the Bank with which he has dealings, the Bankers certificate a copy of the profit and loss account and balance sheet for the year proceeding the year in which the tender shall be submitted and income tax and sales tax clearance certificate, for the latest year.
13. Each of the tender document is required to be signed by the person or persons submitting the tender in his/their hand writing in taken of his/their having acquainted

himself/themselves with the General conditions of contract, general specification. Special conditions etc. as laid down. Any tender with any of the documents not so signed will be liable to rejection.

14. The tender form must be filled in English and all entries must be made by hand written in ink. The entire rate must be filled both in words and figures. If any of the documents is missing or unsigned the tender will be considered invalid. All erasures and alternations made while filling the tender must be attested by dated initials of the tenderer. Over writing of figures is not permitted to comply with any of these conditions will render the tender invalid. No advice of any change in rate or conditions after the opening of the tender will be entertained.
15. Item rates should be submitted in Triplicate, for this purpose no extra copies of schedule of quantities are enclosed.

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**Technical Specification**

- |         |  |
|---------|--|
| 1.00.00 | <u>Scope of work.</u>  |
| 1.01.00 | <u>Scope of supply.</u>  |
| 1.01.01 | The work involves timely procurement and transportation to site, of all items as mentioned in Schedule – ‘B’ in properly packed condition. The items which are not specifically mentioned in Schedule-‘B’ but require to complete the job, shall be deemed to have been included in Schedule-‘B’ and to be supplied by the bidder.   |
| 2.00.00 | <u>Scope of services.</u>  |
| 2.01.01 | Furnishing of all labour, skilled and unskilled, supervisory personnel, erection tools and tackles, testing equipment, implements, supplies consumables and hardware and transport for timely and efficient execution of the contract work. There are certain items which will be supplied by UCIL on free of cost basis. Those items are specified in Schedule – ‘A’. Transportation of such free issue items from Turamdih store to site lies within the scope of the contractor. The cost of receiving, loading, transportation, insurance, unloading, storage & handling of such items may be included against the jobs mentioned in Schedule – ‘B’.                           |
| 2.01.02 | The item of work to be performed on all equipment and materials shall include but not be limited to the following:- <ul style="list-style-type: none"><li>a. Receiving, unloading and transportation at site.</li><li>b. Opening, inspecting and reporting all damages &amp; short supply items.</li><li>c. Arranging to repair and/or re-order all damaged or short supply items.</li><li>d. Storing at site with suitable weather protection.</li><li>e. Complete assembly, erection and connection.</li><li>f. Final check up, testing and commissioning.</li><li>g. Trial run for fourteen (14) days, rectification of defects, if any and adjustments as necessary.</li></ul> |

- h. Obtaining Engineers approval and owners written acceptance of satisfactory performance.
- 2.01.03 Field modifications carried out shall be marked up in red on one (1) set of erection drawings and submitted to the owner for preparation of As Built drawings.
- 3.00.00 Exclusion from scope of works.
- 3.01.00 Supply of following materials:  
a) As specified in schedule 'A'.
- 4.00.00 General Requirements.
- 4.01.00 Codes and Standards.
- 4.01.01 All equipments and materials shall be designed, manufactured and tested in accordance with the latest applicable Indian standards (IS) except where modified and/or supplemented by this specification.
- 4.01.02 The electrical installation shall meet the requirements of Indian Electricity Rules as amended up to date and relevant IS codes of practice in addition, other rules or regulations applicable to the work shall be followed. In case of any discrepancy, the more restrictive rule shall be binding.
- 4.02.00 Schedule of items.
- 4.02.01 The quantities shown on schedule of items are tentative for bidding purpose only. Any variation arising during detailed engineering state will be taken into account for adjustment of contract price based on unit rates quoted in the bid.
- 4.03.00 Completeness of supply.
- 4.03.01 Any material or accessory which may not have been specially mentioned but which is necessary or usual for satisfactory and trouble free operation and maintenance of the equipment shall be furnished without any extra charge.
- 4.04.00 Deviation.
- 4.04.01 Should the Bidder wish to deviate from this specification in any way, he shall draw specific attention to such deviation.
- 4.05.00 Record of past experience.
- 4.05.01 Necessary information about the financial and technical resources, organization and experience to undertake the supply and installation of such system/equipment shall be supplied by the Bidder as an evidence of his capability for satisfaction of the owner.

4.05.02 The Bidder shall submit along with his bid a list of major contracts of supply and erection of similar system/equipment already executed or under execution giving detailed particulars such as equipment rating contract value, name of the owner, year of commissioning etc.

4.06.00 Site Condition.

4.06.01 The equipment specified herein will be installed at UCIL, Turamdih Mill..

4.06.02 The job site is situated at Turamdih in District Singhbhum East at a distance of about 6 Km. from Tatanagar Railway station S.E. of Railway.

4.06.03 NIL

4.06.04 For the purpose of equipment design, the following data shall be taken into consideration:

a) Average Grade:	120 M above MSL
b) Ambient air temperature:	50 <sup>0</sup> C
c) Relative Humidity:	100% Maximum
d) Wind Pressure:	Kg/M <sup>2</sup>
e) Isoceraunic Level:	.....
f) Seismic Zone:	11 as per IS: 1893

5.00.00 Specific Requirements (Supply).

5.01.00 Equipment & Materials.

5.01.01 Equipments & Materials, which will be issued to the contractor free of cost from UCIL's Turamdih store, are listed in Schedule- 'A'.

5.01.02 Equipments & materials, which will have to be supplied by the contractor are mentioned in Schedule – 'B'.

5.02.00 Hardware

5.02.01 All nuts and bolts, washers shall be galvanized only.

6.00.00 Specific Requirements – Erection

6.01.00 Responsibility of erection

6.01.01 The Contractor shall be fully and finally responsible for proper erection, safe and satisfactory operation of plant and equipment under his scope of work to the entire satisfaction of the engineer.

6.01.02 The work shall be executed in accordance with the directions instructions, drawings and specifications which shall be supplied to the contractor by the Engineer from time to time.



- 6.01.03 If in the opinion of the contractor any work is insufficiently specified or requires modification, the contractor shall refer the same in writing to the engineer and obtain his instruction/approval before proceeding with the work.
- 6.01.04 If the contractor fails to refer such instances any excuse for the faulty erection, poor workmanship or delay in completion shall not be entertained.
- 6.01.05 Equipment and material which are wrongly installed shall be removed and reinstalled to comply with the design requirement at the contractor's expense, to the satisfaction of the engineer.
- 6.02.00 Supervision
- 6.02.01 The engineer shall have the overall responsibility for co-ordination of contractor's work and his direction shall be final.
- 6.02.02 Such direction and supervision however shall not relieve the contractor of his responsibility of correctness and quality of workmanship and of other obligation under the contract.
- 6.03.00 Protection of work
- 6.03.01 The contractor shall effectively protect his work, equipment and materials under his custody from theft, damage or tampering.
- 6.03.02 Finished work where required shall be suitably covered to keep it clean and free from defacement or injury.
- 6.03.03 Contractor shall be held responsible for any loss or damage to equipment and material issued to him until the same is taken over by the owner according to contract.
- 6.04.00 Safety measures
- 6.04.01 All safety rules and codes as applicable to work shall be followed without exception.
- 6.04.02 All safety appliance and protective devices including bolts, hand gloves, aprons, helmets, safety belts, shields, goggles etc. shall be provided by the contractor for his personnel.
- 6.05.00 Consumables and hardware.
- 6.05.01 The contractor shall furnish all erection materials, hardware and consumables required for the completed installation.

- 6.05.02 The materials shall include but not limited to the following:
- a) Consumable : Welding rods, gas, oil and grease, cleaning, fluids, paints, electrical tape, soldering materials etc.
  - b) Hardware : Bolts, nuts, washer, screw, brackets, supports clamps, hangers, saddles, elates, seals, shims etc.
  - c) Materials : Ferrules, lugs, brass glands, rigid/flexible conduits, ground wires etc.
- 6.05.03 Supply of cement, sand, stone chips etc. required for the execution of the contract shall be the responsibility of the contractor.
- 6.06.00 Erection tools and tackles
- 6.06.01 The contractor shall provide all tools, tackle, implements, scaffoldings etc. which are required for handling and erection of the equipment and materials.
- 6.07.00 Taking delivery
- 6.07.01 The contractor shall take delivery of materials from owner's store yard/shed.
- 6.07.02 Materials delivered shall be brought to the erection site, stored or erected as necessary.
- 6.07.03 Indents for materials shall be placed sufficiently in advance so as to enable the owner to arrange for the delivery from store in time.
- 6.07.04 The contractor shall submit a detailed account of materials issued to him after completion for work.
- 6.08.00 Installation – General
- 6.08.01 Installation work shall be carried out in accordance with good engineering practices and also manufacturer's instructions/recommendations where the same are available.
- 6.08.02 Equipment shall be installed in a neat workman like manner so that it is level, plumb square and properly aligned and oriented.
- 7.00.00 Cabling
- 7.01.01 Each cable shall be tagged for identification at their entrance and exit from any piece of equipment and junction box.
- 7.01.02 The tag should be of aluminum with cable no., no. of cores and size of cable, punched on it and securely attached to the cable by atleast two turns of 12 SWG G.I. wire.

- 7.01.03 Route marker (100 x 100 x 5mm) in G.I. plate, 35 x 35 x 6mm angle iron supports painted black and 600mm in length shall be provided spaced at 30 metre interval along the route of cable, cable joints and at change of direction.
- 7.01.04 The cables shall be laid in underground trenches after excavation. The trenches shall be 750 mm deep (min.) from ground level and trenching work includes all pumping and bailing out waters. These trenches shall be wide enough to accommodate all the cables that are being laid in the same trench and spacing in between shall be provided. After excavation of the trench the bottom of the trench shall be well dressed leveled and filled by 75 mm layer of fine sand. The cable shall then be laid and provided with side brick protection. After having the space within the bricks filled and packed up to a level of 75 mm above top of cable with fine sand, bricks on the top layer of cable shall be placed side by side in continuous series as protection cover. The remainder of the trench shall be filled with the riddled soil, well rammed and watered to a level of 75mm above surrounding ground level. The ground level surface of the whole trench route shall be restored properly after completion of cable laying. The surplus soil shall be disposed off.  
(Note: if this is applicable as per schedule of jobs)
- 7.01.05 The cables shall be laid in underground trenches in MCC and Control Rooms and through existing as well as newly fabricated Cable trays. The trenches shall be 750mm deep (Mini) from ground level and trenching work includes all pumping and bailing out waters. All the cables that are being laid in the same trench shall be provided with spacing.
- 7.01.06 While crossing road/drain, G.I./Hume pipe at the depth of 750mm below the ground level shall be laid for cable laying.  
(Note: if this is applicable as per schedule of jobs)
- 7.01.07 Brass cable gland of double compression type should be used for cable installation.
- 7.01.08 Copper cable sockets/lugs shall be used and crimped with the cable ends by suitable crimping tool.
- 8.00.00 Grounding
- 8.01.01 All the equipments MCC, PDB etc. shall be effectively grounded by earth

- strips to respective earth pits
- 8.01.02 All light fixtures shall be grounded by 1/C x 1.5<sup>2</sup>mm flexible PVC copper cable/copper conductor
- 9.00.00 Foundation and civil works.
- 9.01.01 Any cutting of masonry/concrete work which is necessary shall be done by the contractor without any extra cost and shall be made good matching the original work.
- 9.01.02 Frame shall be fabricated with channel, angles etc and these frame shall be grouted / bolted to the floor (as per requirement of site) These frames shall be used for placement of panels.
- 9.01.03 NIL
- 9.01.04 NIL
- 9.02.00 Painting
- 9.02.01 Fabrication jobs shall be given two coats of metal primer (Comprising of red oxide and zinc chromate in synthetic medium) and two coats of smoke grey paint.
- 10.00.00 Cleaning up of work site.
- 10.01.01 The contractor shall from time to time remove all rubbish resulting of execution of his work. Upon completion of work, the contractor shall remove rubbish, tools, scaffolding, temporary structure and surplus materials extra to leave the premises clean and fit for use.
- 11.00.00 Inspection and testing
- 11.01.01 On completion of erection works, the contractor shall request the engineer for inspection and tests with minimum fourteen (14) days advance notice.
- 11.01.02 The installation shall be then tested in presence of the engineer.
- 11.01.03 All rectification, repair or adjustment work found necessary during inspection and testing and trial run shall be carried out by the contractor without any extra cost.
- 11.02.00 Taking over of installation.
- 11.02.01 On successful testing and trial run the contractor shall request engineer in writing for taking over the installation.
- 11.02.02 The Engineer, on receipt of the request, shall arrange to take over the installation either wholly or in part as the case may be after a final inspection.

- 11.02.03 Till such taking over, the responsibility of the whole installation against theft or damage of any kind shall remain with the contractor.
- 11.03.00 Guarantee.
- 11.03.01 If any trouble arises due to the use of defective or faulty material and/or bad workmanship within a period of 12 months from the date of taking over, the contractor shall guarantee to replace or repair the defective part or parts at site to the entire satisfaction of the Engineer free of charge.
- 12.00.00 To be submitted for Approval and Distribution.
- 12.01.01 All laid cables shall be properly marked with cable tags with cable identification numbers, cable size. No .of cores etc with aluminium flats duly embossed.
- 12.01.02 Any other relevant drawings data and manuals necessary for installation, operation and maintenance.
- 13.00.00 Accepted make.
- 13.00.01 Best qualities of materials/items/equipments are to be supplied by the contractor. Before placing the purchase order the contractor must take the approval from UCIL, regarding vendor list and specification.

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**JHARKHAND – 832 102**

**SPECIAL CONDITIONS:**

1. The Contractor has to arrange his own welding set, gas, gas cutting, welding electrodes and oxyacetylene gases to carry out the jobs.
2. The Contractor shall depute a supervisor skilled enough to supervise the works.
3. Payment terms: 03 (three) running account bills and final bill will be allowed.
4. Quantity Variation:     $\pm 10\%$
5. Safety and Security of UCIL's Materials:  
Tenderer will be responsible for safe keeping of materials issued by UCIL on free of cost/chargeable basis and on completion of work or during the course of work all materials issued to the tenderer shall be accounted for.
6. Contractor should arrange for cutting trees/bushes etc. If required at the work site without extra cost. No any extra claim shall be entertained in this regard.
7. Regarding payment of Royalty towards use of mining minerals, the rules already in vogue and amended from time to time shall be applicable.
8. The contractor shall cover all materials at site with requisite insurance against theft, larceny, dacoity, fire, tempest, flood etc.
9. The special conditions given in this section shall supersede the conditions given elsewhere in this document.
10. Cable tags (aluminium flat) duly embossed to indicate cable number, cable size, No. of cores etc shall be used for identification of cables.
11. Power connection to one welding machine if required shall be provided at Turamdih. Power supply will be free at one point where electric supply is available.
12. Completion Time – 08 (eight) months. In first phase, fabrication of cable trays and erection and commissioning of MCC, PDB panels shall be done within 30 days or as per instruction of Engineer-in charge. In second phase, cable trays fabrication and installation, cable laying and termination shall be done in 45 days. In last phase remaining jobs of cable laying, erection and commissioning of lighting systems etc.

shall be done within remaining 5 and ½ months as per the instruction of Engineer-in-charge or his representative.

13. Wherever required wall cutting and grouting shall be done for installation of cable trays as per direction of Engineer-in-charge or his representative.
14. Panels shall be erected on frame after fabricating these frames and grouting /bolted frames to the floor. (As per requirement of site).
15. The Contractor shall pay to labour employed by him wages not less than fair wages as defined in the Contract Labour (Regulation and Abolition) Act 1970 and rules made there under.
16. The Contract shall in respect of labour employed by him comply with or cause to be complied with the Contract Labour (Regulation and Abolition) Act, 1970 and Rules made there under in regard to all matters provided there in.
17. The Contractor shall comply with the provisions of the payment of Wages Act, 1936, Minimum Wages Act, 1946, Employers Liability Act, 1938, Workman's Compensation Act 1923, Industrial Disputes Act 1947, Maternity Benefit Act, 1961 and of any modifications thereof or any other Law relating thereof and rules made there under time to time.
18. During the entire validity period, on every working day your supervisor shall report to the engineer in charge or his representative for the urgent job to be carried out if any.
19. The rates shall be inclusive of all taxes including Service Tax. Out of this 50 % shall be deducted by UCIL from bills and deposited and the rest 50 % shall be the bidder's liability.

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**Schedule – ‘A’**

**Materials for the free issue to the contractor:**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Quantity</b>
1.	Armoured Cables	As per requirement
2.	Steel	-do-
3.	MCC, PDB Panels	-do-
4.	Light fittings	-do-

**Note:**

- 1) all other items for the satisfactory completion of the work shall be in the of the bidder.
- 2) Items which will be supplied free of cost are mentioned in schedule-‘A’. However transportation of such items from Turamdih store to the place of work lies within the scope of the bidder. All other items required to complete the job as mentioned in schedule-‘B’ lies within the bidder’s scope. The cost implication of which may be included in the relevant items of schedule-‘B’.

**Accepted make:**

MCB : Siemens / L & T / Standard  
Cables/Wires : Rajanigandha /KDK/ Finolex/Polycab  
Gland/Lugs : Dowell’s/Comet  
Items not covered : UCIL’s approval needed before procurement.