

Electrification of 3rd Line in Aligarh-Ghaizabad Section

Tender For

Foundation Work Associated With Electrification of 3rd Line in
Khurja – Aligarh section

Tender Document
February 2010

VOLUME-I-TECHNICAL BID

IRCON INTERNATIONAL LIMITED

(A Government of India Undertaking)

Project office:
Additional General Manager/Elect.
B-194, CIC Building,
Noida Phase-II,
G.B. Nager-201305.

Signature of Tenderer/s

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02/2/10

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2/2/10



Project Office:-
IRCON International Limited
B-194, Phase-II,
Noida-201305 (U.P.)

Tender Notice No. IRCON/1023/RVNL-AGRP/ Foundation/03

Tender Issued to:

M/s _____

D.D. NO. _____ Date _____

Amount _____

Name/ Place of Drawee Bank: _____

Date:- _____

For & On behalf of
IRCON INTERNATIONAL LIMITED

Signature of Tenderer/s

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02/2/10

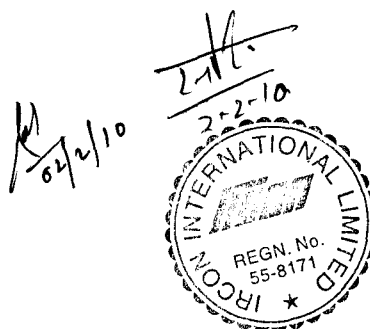


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Signature of Tenderer/s

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TOP SHEET

NO. IRCON/Elect./1023/RVNL-AGRP/Foundation/03

Date: 02.02.2010

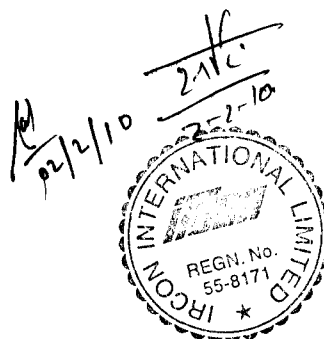
Name of Work	:	Foundation Works Associated With Electrification of 3 rd Line in Khurja – Aligarh Section
Earnest Money Deposit	:	Rs. 25500/-
Completion Period	:	6 (Six) Months
Bid Submission	:	25.02.2010 15:00 Hrs
Date of Bid Opening	:	25.02.2010 15:30 Hrs

For & on behalf of
IRCON International Ltd.

D.D. No./FDR NO. & Issuing Bank (EMD):-

Signature of Tenderer/s

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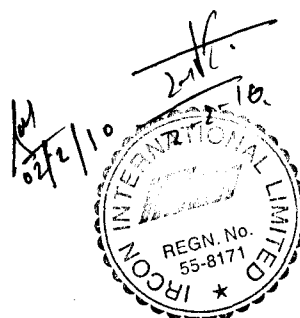
GENERAL INFORMATION

Tender Notice No.	No. IRCON/Elect/1023/RVNL-AGRP/Foundation/03
Name of the work	Foundation Works Associated With Electrification of 3 rd Line in Khurja (Bx) – Aligarh section
Completion Period	6 (Six) Months
Earnest Money Deposit (in the form of D.D/Pay Order/FDR only)	Rs.25500/-
Date of issue of tenders	04.02.2010
Last date and time of submission of Tender	25.02.2010 15:00 Hrs
Date and time of opening of Tenders	25.02.2010 15:30 Hrs
Validity of Offer	3 Months
Retention Money Security Deposit	Earnest Money Deposit of the successful tenderer shall be converted into Security Deposit. Balance Security Deposit shall be recovered @10% through running on account bills till it reaches 5% of the Contract Value.
Performance Bank Guarantee	To be submitted within 14 days from the date of issue of acceptance letter by IRCON; an unconditional bank guarantee for the amount 2% of the contract value, if the contract value is more than Rs 100 lacs.
Amount of liquidated damages	0.25% (Zero point Two Five percent) per day up to a maximum of 10% of the contract value
Quantity Variation	+/- 25% of the contract value as per BOQ
Taxes	Income tax, W.C.T, Service tax as applicable

The rates should be written both in figures and words. In case of disparity between them, the amount in words will prevail.

Signature of Tenderer/s


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PRESS TENDER NOTICE

Signature of Tenderer/s

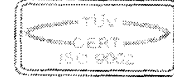
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IRCON INTERNATIONAL LIMITED
REGN. No.
55-8171
★



Urge to Stay Ahead
इरकॉन इन्टरनेशनल लिमिटेड
मिनिमल मेकेनिकल, इलेक्ट्रिकल, कम्युनिकेशन और टर्नके कॉन्ट्रैक्टर्स
(भारत सरकार का उपक्रम)



IRCON INTERNATIONAL LIMITED

Civil, Mechanical, Electrical, Communications And Turnkey Contractors
(A Govt. of India Undertaking)

इरकॉन-अलीगढ़-गhaziabad रेल परियोजना
प्लॉट-5124 सोरख, फेज-2, लीडोडी नगर, 201305
पिन कोड - 201305
दूरभाष-0120-4206900, 4206940
फैक्स-0120-4206940

IRCON Aligarh-Ghaziabad Rail Project
B-194 Noida Phase-II, G B Nagar (U.P.)
Pin no. 201305
Phone: 0120-4206900-4206940
Fax No:0120-4206940

NOTICE INVITING TENDER

No. IRCON/Elect/1023/RVNL-AGRP/Foundation/03
04.02.10

Dated-

Sealed open tenders on two packet system are invited from reputed contractors for Foundation works, between Khurja to Aligarh Railway stations related to Railway Electrification of 3rd Line in Aligarh-Ghaziabad section in Uttar Pradesh.

NIT No.	Name of The Work	Approx. Estimated Cost	EMD (Rs)	Completion Period	Last Date of Submission
01	OHE/ TSS/ SP/ SSP foundation works between Khurja-Aligarh Railway stations	Rs. 50 lacs	25500/-	6 Months	25.02.2010 upto 15.00 Hrs

The tender document may be obtained from 4th Feb, 2010 to 24th Feb, 2010 on payment of Rs.500/- (non-refundable) in the form of demand draft in favor of IRCON International Ltd., payable at Noida from IRCON office at B-194, Phase-II, Noida. Further details including eligibility criteria etc. can be obtained from IRCON office at the above address and also from IRCON website www.ircon.org. Tender documents can also be downloaded from this website.

Sd/-

Additional General Manager/Elect/AGRP

Signature of Tenderer/s

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DETAILED NOTICE INVITING TENDER

No. IRCON/Elect/1023/RVNL.AGRP/Foundation/03

Dated 02.02.2010

Dear Sir,

Sub.: Tender For Foundation Works Associated with Electrification of 3rd Line in Ghaziabad – Aligarh Section (Khurja - Aligarh).

- 1.0 Additional General Manager/Elect/IRCON International Limited, B-194, Noida Phase-2, CIC - Noida, UP, invites sealed tender in two packet system in prescribed forms for the under noted works from reputed firms/companies/joint venture

Name of the work	Foundation Works Associated With Electrification of 3 rd Line in Khurja – Aligarh Section
Completion Period	6 (Six) Months
Earnest Money Deposit (in the form of D.D/Pay Order/FDR only)	Rs.25500/-
Last date and time of submission of Tender	25.02.2010 15:00 Hrs
Date and time of opening of Tenders	25.02.2010 15:30 Hrs

- 2.0 Tender documents for the above tender can be obtained from 10.30 hours to 16.30 hours on all working days from 4th Feb 2010 to 24th Feb 2010 from the office of Addl. General Manager, Ircon International Limited, B-194, Phase-II, NOIDA ,on payment (non-refundable) of Rs.500/- (Rs Five Hundred only) in the form of Demand Draft/Pay order drawn in favour of Ircon International Limited, payable at NOIDA towards the cost of one set of the tender documents. Tender documents can also be obtained by post from the above office, for which an amount of Rs.250/- shall be charged extra. Ircon International Limited, shall not be responsible for any postal delay in receiving the tender documents. The tender documents shall be sold only to the persons authorized in writing by the tenderer.

Place of Submission of Tenders –

Additional General Manager (Electrical),
B-194, CIC Building (Near Subros Factory),
Noida Phase-II,
G.B. Nagar-201305.

- 3.0 The tender documents can also be down loaded from IRCON's website www.ircon.org and in such case the tenderer shall deposit the cost of the tender documents along with the submission of the tender ,failing which his tender shall not be opened. In such case, the cost of the tender documents shall be deposited

Signature of Tenderer/s

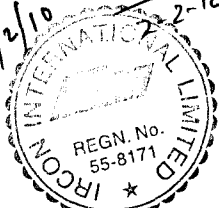
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in the form of a demand draft /pay order in favour of IRCON International Limited payable at NOIDA and enclosed in the envelope containing the earnest money deposit. Tenderers are advised not to make any corrections, additions or alterations in the downloaded tender documents .In case, any corrections, additions or alterations in the downloaded tender documents are made, such tender shall not be considered.

- 4.0 IRCON may issue addendum(s)/corrigendum(s) to the tender documents .In such case ,the addendum(s)/corrigendum(s) shall be issued and placed on IRCON's website at least three days in advance of date fixed for opening of tenders .The tenderers who have downloaded the tender documents from website must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. Such addendum(s)/corrigendum(s) ,if any , shall also be submitted, duly stamped and signed ,along with the submission of the tenders. Any tender submitted without addendum(s)/corrigendum(s) ,if any ,shall be summarily rejected.
- 5.0 The tender documents shall be submitted in two separate sealed packets viz Packet –I containing Technical bid and Packet-II containing Financial bid. Detailed credentials as per the requirements of the essential qualification criteria, Conditions in deviation to the tender conditions, if any , and all other tender papers except Schedule of Items and quantities are to be submitted in "Technical Bid ". The Schedule of items and Quantities with rates duly filled in ,is to be submitted in financial bid.
- 6.0 Completed tender documents in two separate packets viz Packet-I and Packet –II shall be sealed separately in envelopes superscribing as Packet-I (Technical Bid) and Packet-II (Financial Bid) along with the name of the work, name of the tenderer etc. These two sealed envelopes and the envelope containing the earnest money deposit (superscribing "Earnest Money Deposit) in the form as prescribed in the tender documents shall be further sealed in a larger envelope superscribing the name of the work as stated above, name of tenderer ,(alongwith the date and time of opening of the tenders) and addressed to the Addl. General Manager, Ircon International Limited,Aligarh-Ghaziabad 3rd Railway Line project ,B-194, Phase-II, NOIDA,U.P and should be deposited in the tender box at IRCON's office at the address given in para 2 above before 15.00 hours of 25th Feb 2010. Tenders shall be opened (Technical Bid only) at 15:30 hours on the same day in the presence of the tenderers or their authorized representatives intending to attend the opening. The Financial Bids shall be opened only after assessing suitability as per the technical bids by IRCON (as per the stipulated essential qualifying criteria and information submitted by the tenderers in the technical bids) .The technically qualified tenderers shall be informed to attend the opening of financial bids. Tenders duly sealed in the prescribed manner above can also be sent through Registered Post/Speed Post/Courier so as to reach in this office not later than the time and date of opening of tenders. Any tender received later than the time and date of opening of tenders shall be rejected and returned to the tenderer unopened.
- 7.0 Tender shall be submitted as per "Instructions to Tenderers" forming a part of the tender document.
- 8.0 Any tender received without Earnest Money in the form as specified in tender documents shall not be considered and shall be summarily rejected.

Signature of Tenderer/s

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- 9.0 IRCON reserves the right to cancel the tenders before submission /opening of tenders ,postpone the tender submission/opening date and to accept/reject any or all tenders without assigning any reasons thereof. Ircon's assessment of suitability as per the Essential Qualifying Criteria shall be final and binding on all the tenderers.
- 10.0 Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. EMD of such tenderer shall be forfeited. The decision of Ircon in this regard shall be final and binding.
- 11.0 The validity of the offer shall be 90 days from the date of opening (Technical Bid) of the tender.
- 12.0 The transfer of tender documents purchased by one intending tenderer to another tenderer is not admissible. Tenderer can submit tenders only on the documents purchased /downloaded from Ircon's website.
- 13.0 Tenderers may note that Ircon reserves the right to split the quantum of work and award the work to more than one tenderer and IRCON's decision in all such matters shall be final and binding on all the tenderers.

14.0 SCOPE OF WORK

1. The scope of work shall include foundation works in accordance with schedule of items & Quantities and Technical Specifications attached with the tender document.
2. The Length of the entire section is from Khurja to Aligarh.
3. The foundation work shall be executed along the route of the 3rd Line in the Section, Traction Sub-stations, Switching stations and as directed by Engineer – In-Charge.

The scope of work within the package shall consist of OHE foundation, TSS foundation and SP/SSP foundations and brick work for the track, TSS and SP/SSP covered within the section.

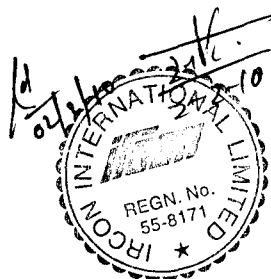
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(A) ESSENTIAL QUALIFYING CRITERIA

1. The tenderer should possess the experience of having successfully completed similar works during the last seven years (ending last day of the month previous to the one in which tenders are invited).
 - a)
 1. One similar completed work costing not less then Rs. 3290762.00.
 2. Two similar completed works each costing not less then Rs.2025084.00.
 3. Three similar completed works each costing not less then Rs.1518813.00.

Signature of Tenderer/s

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- b) The tenderer should submit performance certificates in reference to S.No. 1(a) above (minimum 3 nos, 2 nos or 1 no. as the case may be). These certificates should indicate the nature of work, value of work completed, period of execution and comments on the performance of the tenderer.
2. The average annual financial turnover of the tenderer during the last three financial years (2006-2007, 2007-2008 and 2008-2009) should be at least Rs. 1518813/- value. The financial turnover shall be judged from ITCC, Annual Report including Profit and Loss Account duly certified by the Chartered Accountants.
 3. The tenderer should have positive net worth. This will be judged from the audited balance sheet of the last financial year ending on a date not prior to 18 months from the date of submission of tender.
 4. There should not be any unsatisfactory performance report of the tenderer from any source.

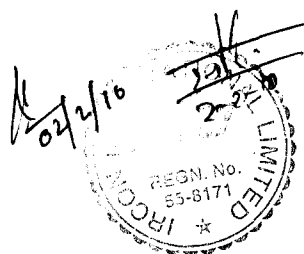
(B) Other Qualifying Criteria

SN	Description	Maximum Marks	Yes/No (With Supporting Documents)
1	Registration of Company, Partnership Deed, Article of Association, Registration under Labour Law, registration under Sales Tax Act.	10	
2	Availability of skilled & trained manpower.	20	
3	Availability of tools, Plant & machinery relevant to the work.	35	
4	Availability of adequate testing, measuring and inspection equipment and facilities for calibration of the same.	10	
5	Availability of safety appliances / equipment.	5	
6	Availability of ISO-9001-2000 Certification.	10	
7	Availability of banker's certificate	10	
Total		100	

The contractors should pass in all items of "Essential Qualifying Criteria" and should obtain minimum 60 marks out of the 100 of "Other Qualifying Criteria" to get short listed/technical qualification.

Tenderer(s) may please note that their offers will be evaluated as per the credentials/documents attached by the tenderer(s) along with the tender.

Signature of Tenderer/s



**CHECK LIST FOR
LIST OF DOCUMENTS TO BE ATTACHED WITH THE TENDER**

PACKET-1 – TECHNICAL BID

1. Earnest Money Deposit of requisite amount in the prescribed form
2. Partnership deed/Memorandum and Articles of Association of the firm.
3. Original /Copy of Power of Attorney of the person signing the tender documents
4. Works Contract Tax/Trade Tax registration certificate in the State of U.P.
5. Registration under labour laws
6. Details of works completed in last seven years
7. Details of ongoing works
8. Performance certificates as required under essential qualifying criteria(Financial and Technical).
9. Details of plant and machinery, tools (in working condition) owned by the tenderer and proposed to be deployed for the works in the tender
10. Details of skilled and trained manpower including engineers and technical personal presently in the employment of the tenderer and proposed to be deployed for the works in the tender
11. Annual Turnover for the last three financial years with supporting documents
- 12 Complete Tender documents (Volume 1 & 3) except schedule of items and quantities duly stamped and signed by the bidders on each page
13. Corrigendum(s)/Addendum(s), if any, duly stamped and signed by the bidders on each page.
14. Conditions in deviation to the tender conditions ,if any. In case of deviation to the tender conditions , the cost of with-drawl of the same should be given.

PACKET-2 – FINANCIAL BID

1. Schedule of items and quantities with quote therein

For & on behalf of
IRCON INTERNATIONAL LIMITED
Sd/-

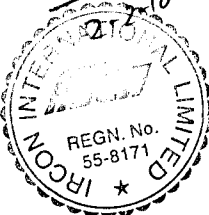
**(Dr. Subhash Chand)
Addl. General Manager**

Signature of Tenderer/s

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FORM OF BID

Place:

Date:

To,
**The Additional General Manager (Electrical),
B-194, CIC Building (Near Subros Factory),
Noida Phase-II,
G.B. Nagar-201305.**

Sir,

I / We.....have Read the various conditions of tender attached hereto and hereby agree to abide by the said conditions. I / We also agree to keep this tender open for your acceptance for a period of 180 days from the date fixed as last date for receipt of completed tender in your office. In the event of my / our default, I / We will be liable for forfeiture of my / our earnest money.

1. I / We offer to do the **“Foundation Works between Khurja – Aligarh section associated With Electrification of 3rd Line in Ghaziabad– Aligarh Section ”** and the rates quoted by me/us are to complete the work in Six (6) months from the date of issue of Letter of Acceptance of the tender by IRCON. I / We also hereby agree to abide by all the Conditions mentioned in the tender and to carry out the works according to specifications of material and works laid down by IRCON for the present contract.
2. The full value of the earnest money deposited shall stand forfeited without prejudice to any other rights or remedies if:
 - a) I / We do not execute the contract document within seven days after receipt of notice issued by IRCON that such documents are ready.
OR
 - b) I / We do not commence the work within ten days after receipt of “Notice to Proceed”.
3. Until a formal agreement is prepared and executed. Acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my / our offer for this work.
4. Payment of stamp duty on the agreement to be executed in pursuance of this tender will be borne by IRCON.

Signature of witnesses:

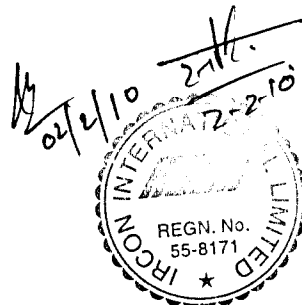
**Signature of Tendere(s) & Date
Tenderer(s) address**

1.

2.

Signature of Tenderer/s

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INSTRUCTION TO TENDERER/S

1.0 Care in submission: Before submitting the tender, the tenderer will be deemed to have satisfied himself by his actual inspection of the site and the locality of the works that all conditions liable to be encountered during execution of the works are taken into account and that the rate entered by the tenderer in the tender schedule is adequate and all inclusive for the completion of works to the entire satisfaction of the Engineer in charge.

1.0.1 When a firm or company tenders the work, the individual legally authorized to enter into commitments on their behalf shall sign the tender.

1.0.2 IRCON will not be bound by any Power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of contract. It may, however, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor.

2.0 RIGHT OF IRCON TO DEAL WITH TENDERS

IRCON reserves the right of not to invite tenders for any work or works, to invite open or limited tenders and when tenders are called, to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action.

3.0 EARNEST MONEY

The tenderer shall be required to submit a sum as specified in the conditions given in the tender as Earnest Money Deposit for the due performance of stipulation for keeping the offer open till such date as might be specified in the tender. It shall be understood that the tender documents have been sold/issued to the tenderer and the tenderer is permitted to tender in consideration of the stipulation on his part, that after submitting his tender, he will not retreat from his offer or modify the terms and conditions thereof in a manner not acceptable to IRCON.

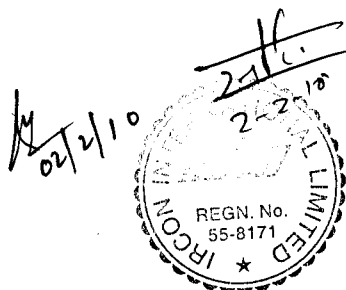
EMD shall be submitted in the form of DD/FDR duly endorsed in favor of 'IRCON International Limited, NOIDA'.

If the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited.

3.1 If the tender is accepted, this earnest money will be retained as a part of security for due and faithful fulfillment of the contract. The earnest money of the other tenderer/s shall (save as herein before

Signature of Tenderer/s

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provided) be returned to them but IRCON will not be responsible for any loss or depreciation that may happen thereto while in its possession nor be liable to pay any interest thereon.

- 3.2 Tenders not accompanied with earnest money deposit shall be summarily rejected.
- 3.3 In case it is found that, the tenderer/s has furnished misleading/wrong or fraudulent information/documents, the Earnest Money of the tenderer/s will be forfeited.

4.0 SIGNING OF TENDER

Tenders must be duly signed, dated and witnessed. An attested copy of Power of Attorney/Affidavit/Board Resolution as under shall accompany the tender documents:

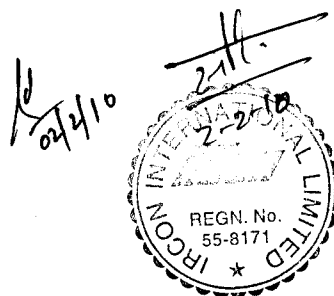
- a) In case of sole proprietorship, an Affidavit of Sole Proprietorship and if the tender is signed by any other person, Power of Attorney by the Sole Proprietor in favor of Signatory.
- b) In case of partnership, if tender is not signed by all the partners, Power of Attorney in favor of the signatory authorizing him to sign the documents. The person signing the documents should also have a specific authority to refer disputes with the partnership firm to arbitration.
- c) In case of a company, copy of the Board Resolution authorizing the signatory to sign on behalf of the company.

5.0 EXECUTION OF CONTRACT DOCUMENT

- 5.1 The tenderer whose tender is accepted shall be required to appear at the office of the Additional General Manager/ Elect/ IRCON International Ltd in person or if a firm or corporation, the duly authorized representative shall so appear, to sign the contract documents within seven days after notice that the contract has been awarded to him. Failure to do so, shall constitute a breach of the agreement effected by the acceptance of tender in which case the full value of the earnest money accompanying the tender shall stand forfeited without prejudice to any other rights or remedies.
- 5.2 In the event of any tenderer whose tender is accepted shall refuse to execute the contract agreement, IRCON may determine that such tenderer has abandoned the contract and there upon his tender and the acceptance thereof shall be treated as canceled and IRCON shall be entitled to forfeit the full amount of earnest money and to recover the liquidated damages for such default.

Signature of Tenderer/s

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6.0 FORM OF CONTRACT DOCUMENTS

Every contract shall be complete in respect of the documents it shall constitute. The competent authority and the contractor shall sign necessary copies of the contract documents and one such signed copy shall be given to the contractor.

7.0 FORM OF QUOTATIONS

- 7.1 The tender shall be submitted in the prescribed form as mentioned in tender documents. The quotation will be subject to the general instructions contained in tender notice to which the Tenderer's special attention is drawn.
- 7.2 The tenderer has to quote rates in the attached BOQ.
- 7.3 Tenderer should quote the rates in figures as well as in words. If there is variation between rates quoted in figures and in words, the rates quoted in words shall be taken as correct.
- 7.4 Each page of the tender document shall be signed by the tenderer and submitted in original to IRCON for evaluation.
- 7.5 Tenders containing erasures and alterations in tender documents are liable to be rejected. Any corrections made by the tenderer/s in his/their entries should be in INK and must be attested by him/them under full signature and date.

8.0 DEVIATIONS

No deviation shall be allowed from the terms and conditions stipulated in the Tender Documents and tenders containing deviations are liable to be rejected. Deviation, if insisted upon, must be brought out in a separate "Deviation Sheet" detailing clause No. (of the tender document), stipulation as per clause and deviation asked for. Otherwise the tenderer shall be deemed to have accepted all provisions of the Tender Documents.

9.0 DRAWINGS & DOCUMENTS

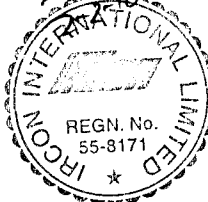
All calculations, designs, drawings required by the contractor in connection with the contract shall be furnished by IRCON. The contractor shall provide competent manpower to execute the work as per design and drawings.

Signature of Tenderer/s

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IRCON INTERNATIONAL LIMITED
REGN. No.
55-8171
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10.0 QUANTITIES

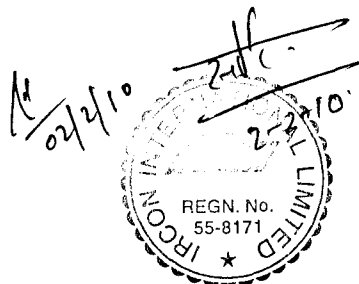
The quantities shown in the BOQ are approximate and subject to variation according to needs of IRCON. The IRCON shall accept no responsibility for the accuracy of quantities and the IRCON shall not guarantee work under each item of the schedules.

11.0 GROUNDS FOR REJECTION

- 11.1 It shall not be obligatory on the Accepting Authority to accept the lowest tender and no tenderer/Tenderer's shall demand any explanation for the cause of rejection of his/their tender.
- 11.2 Tenders containing erasure and alterations of the tender documents are liable to be rejected. Tenderer must attest any corrections made by him in his entries.
- 11.3 If the tenderer deliberately gives wrong information in his tender or creates circumstances for the acceptance of his tender, IRCON reserves right to forfeit their Earnest Money and reject such tender at any stage. Such tenderer shall also be liable to be debarred from all future tendering in the project.
- 11.4 If a tenderer expires after the submission of his tender, or after the acceptance of his tender, IRCON shall deem such tender as canceled. If the partner of a firm expires after the submission of tender or after the acceptance of the tender, IRCON shall deem such tender as canceled unless the firm retains the character.
- 11.5 The tenderer is required to produce along with his tender an authenticated copy of income tax clearance certificate or sworn affidavit duly countersigned by the income tax officer to the effect that the tenderer has no taxable income.
- 11.6 If the income-tax clearance certificate has already been submitted to IRCON and the same is current, the reference under which the certificate was submitted should be mentioned.
- 11.7 Non-compliance of any of the conditions set forth herein is liable to result in the tender being rejected.
- 11.8 Tenders received after the specified date/time may be rejected.
- 11.9 If the performance of any tenderer is reported to be unsatisfactory by any Central/State Govt. Organization or PSU in any work executed by them in previous 5 years, the offer of such tenderer may not be considered.

Signature of Tenderer/s

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12.0 NEGOTIATION

If IRCON decide to negotiate with a view to bring down the rates, the tenderer called for negotiations should furnish the following form of declaration before commencement of negotiations.

"I _____ do declare that in the event of failure of contemplated negotiations relating to Tender No. _____ dated _____ my original tender shall remain open for acceptance on its original terms and conditions".

13.0 IDENTITY OF TENDERER

Tenderer/s should specifically and fully disclose in their respective tenders, their respective constitution and submit along with each tender attested Photostat copies of documents like partnership deed, Articles of association and Memorandum of understanding, Certificate of incorporation etc., if a tenderer is a firm i.e. partnership business, it should be stated whether the same is registered under the Indian Partnership Act, and the name and address of all the partners of the firm should be fully disclosed. IRCON shall always have the liberty to demand production of the original of the said documents and also to make such further and other requisitions regarding the constitution of the tenderer as may be considered necessary. In case the tenderer has already submitted these documents and there is no change in them subsequently, reference under which these were submitted should be mentioned.

14.0 In case the tender cannot be submitted for any reason the complete set of tender Documents in full shall be returned promptly to the Additional General Manager (Elect.)/IRCON at B-194, Phase-II Noida, failing which the defaulting tenderer may not be considered for issue of future inquiries by IRCON.

15.0 These instructions to the tenderer shall be deemed to form a part of the tender documents.

16.0 CLARIFICATION & CORRIGENDUM

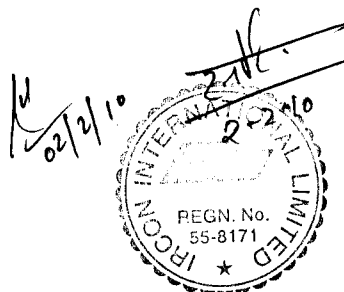
16.1 Any request for clarifications must be submitted in writing atleast seven days before the submission date of tender. The clarification received within seven days of submission date of tender may not be replied.

16.2 The clarifications and corrigendum shall be uploaded on the Ircon's website and shall not be published in any newspapers.

16.3 Firms shall keep themselves updated with clarifications and corrigendum published on the websites. Firms shall also submit a copy of these clarification and corrigendum duly signed and stamped.

Signature of Tenderer/s

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DETAILS OF SIMILAR WORKS COMPLETED IN LAST SEVEN YEARS

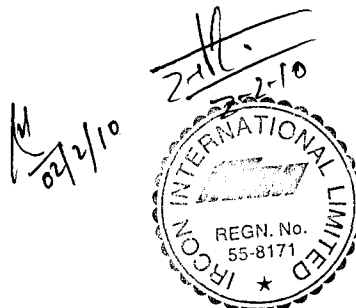
S. No.	Description of the Work	Name and address of the Employer	Contract No. and date	Date of award of work	Stipulated date of completion	Date of actual completion	Value of completed work (In lacs of Rs)	Reasons for delays, if any	Penalty, if imposed for delay	Any other relevant information	Remarks
1											
2											
3											
4											
5											
6											

Note :

- 1 Please attach copies of the certificates issued by the Client.
- 2 Only those works shall be considered for evaluation for which copies of the certificates issued by the client are attached.
- 3 In case of joint venture, the information is to be furnished by both the partners.

Signature of Tenderer/s

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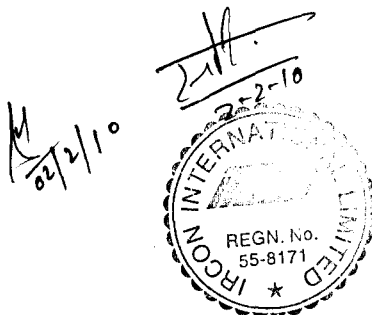
ANNUAL TURNOVERS FOR THE LAST THREE YEARS				
S. No.	YEAR	Turnover from Civil Engineering works (In lacs of Rs)	Turnover from all sources (In lacs of Rs)	Remarks
1				
2				
3				

Note .:

- 1 Please attach certified/attested copies of the latest ITCC and/or Profit and Loss Account statement to support the information furnished.
- 2 In case of joint venture, the information is to be furnished by both the partners.

Signature of Tenderer/s

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**DETAILS OF SKILLED AND TRAINED MANPOWER
INCLUDING ENGINEERS AND TECHNICAL STAFF
PRESENTLY EMPLOYED**

S. No	Name	Qualification	Designation	Total Experience (in years)	Remarks
1					
2					
3					

Note : In case of joint venture, the information is to be furnished by both the partners.

**PROGRAMME FOR DEPLOYMENT OF MAN POWER
ALONGWITH COMPLETE ORGANISATION CHART AND BIO-
DATA OF KEY PERSONNELS.**

S. No	Name	Qualification	Designation	Total Experience (in years)	Programme for Deployment
1					
2					
3					


Signature of Tenderer/s

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2/2/10

Zak.

2-2-10.



DETAILS OF TOOLS, PLANT AND MACHINERY (IN WORKING CONDITIONS) OWNED BY THE TENDERER

S . N o .	Description	Make	Model & Year of manufacture	Capacity	Condition	Nos. available	Any other relevant information	Remarks
1								
2								
3								
4								

Note : In case of joint venture, the information is to be furnished by both the partners.

PROGRAMME FOR DEPLOYMENT OF PLANT AND MACHINERY PROPOSED TO BE DEPLOYED ON THE PROJECT.

S . N o .	Description	Make	Model & Year of manufacture	Capacity	Condition	Nos. proposed to be deployed	Program me of Deployment	Remarks
1								
2								
3								
4								

Signature of Tenderer/s

22



**DETAILS OF TESTING, MEASURING AND INSPECTION
EQUIPMENT AND FACILITIES FOR CALIBERATION
OWNED**

S. No.	Description	Make	Model & Year of manufacture	Capacity (if any)	Condition	Nos. available	Any other relevant information	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								

Note :

1. In case of joint venture, the information is to be furnished by both the partners.

Signature of Tenderer/s

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DETAILS OF SAFETY APPLIANCES AND EQUIPMENT OWNED


S. No.	Description	Make	Model & Year of manufacture	Capacity (if any)	Condition	Nos. available	Any other relevant information	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								

Note :

1 In case of joint venture, the information is to be furnished by both the partners.

Signature of Tenderer/s

24

2-16-10
02/2/10


DETAILS OF ALL ON GOING WORKS
(NOT NECESSARILY SIMILAR WORKS)

S. No.	Description of the Work	Name and addresses of the Employer	Contract No. and date	Date of award of work	Stipulated date of completion	Value of work as per order (In lacs of Rs)	Value of work completed so far (In lacs of Rs)	Anticipated date of completion of work	Any other relevant information	Remarks
1										
2										
3										
4										
5										
6										
7										
8										
9										

Note :

1 In case of joint venture, the information is to be furnished by both the partners.

Signature of Tenderer/s

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GENERAL CONDITIONS OF CONTRACT

All terms & conditions as mentioned the "General Conditions of Contract" unless superceded by "Special Conditions of Contract" shall be applicable. GCC may be referred in IRCON office during any working days.

**For & on behalf of
IRCON International Ltd.**

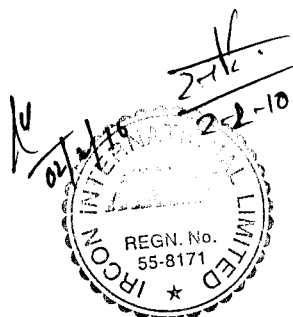
I/We have studied the "General Conditions of Contract" as mentioned above and agree to abide by the terms and conditions. I/We have sealed all the pages as token of acceptance.

Signature of the Tenderer/s

Address
.....

Signature of Tenderer/s

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SPECIAL CONDITIONS OF CONTRACT

1.0 GENERAL DESCRIPTION

- 1.1 The Section from Ghaziabad-Aligarh is having two lines. These lines are already electrified. The third line is being laid in the section. The Electrification of 3rd Line is being taken up along with laying of Lines.

2.0 SCOPE OF WORK

- 2.1 The scope of the work is the completion of all items of connected electrical works as per the schedule items provided in Bill Of Quantities. This also includes coordinated works with other agencies. The contractor is expected to employ suitable technically qualified persons to ensure completion of all items or work.
- 2.2 The contractor shall procure all material required for the work and shall execute all the works as per standard specifications laid down by Indian Railways, BIS and/or as set out by CORE/RVNL and from approved agencies as specified in the contract.
- 2.3 The scope of work shall include foundation works in accordance with Billed Quantities and technical specifications indicated in the tender document.
- 2.4 The work shall be executed along the route of the 3rd Line in Khurja-Aligarh section, traction sub-stations, switching stations and as directed by Engineer in charge.

3.0 SITE REQUIREMENTS (Ref Clause 38.0,39.0,40.0,41.0,42.0 of GCC)

3.1 Water Supply

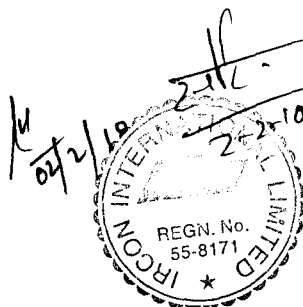
The contractor shall be responsible for the arrangements to obtain water supply for drinking and necessary for the works. Railway/IRCON shall not supply water; Rates quoted by contractor shall include the cost of arranging water supply at the site of works.

3.2 Power Supply

Any electric supply required at the site of works for whatsoever purpose shall be arranged by the contractor. The contractor shall make his own arrangements for electric power supply/installation of Diesel generating sets etc. as required for the work at his own cost and the rates quoted shall include the cost of providing such electric supply arrangements required for the works and offices/accommodations etc.

Signature of Tenderer/s

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3.3 Service Roads

The contractor/s shall make his/their arrangements for service roads, paths etc. for carrying his/their tools and plants labour and materials etc. and will also allow IRCON and other Govt. bodies use of such paths and service roads etc. for plying its own vehicle free of cost. The tender/s will be deemed to have included the cost of making any service roads, roads or paths etc. that may be required by him/them for plying his/their vehicles for the carriage of his/their men and materials, tools, plants and machinery for successful completion of the work. Similarly any other feeder road connecting any of the existing roads will be made by the contractor at his/their own cost including any compensation that may be required to be paid for the temporary and or private land and without in any way involving the IRCON in any dispute for damage and/or compensation.

In case IRCON has its own paths, service roads, the contractor/s will be allowed to use of such paths or service roads free of cost. He/they shall however in no way involve IRCON in any claims or dispute of whatsoever kind due to the inaccessibility of such paths or service roads or due to their poor condition and or maintenance or their being to be blocked and/or closed.

3.4 Lighting

If lighting is required as per instructions of the Engineer, the contractor shall abide by the directions of the Engineer in this regard. The rates quoted by contractor shall include the cost of arranging such lighting and nothing extra shall be paid.

3.5 Labour Camp

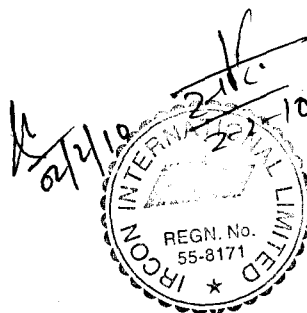
The contractor must establish proper labour camps with proper water supply and toilet facilities and should keep the areas in a neat and hygienic condition. If female labourers are employed, crèches for their children must also be organized.

The Engineer will have right to impose a fine up to Rs.5,000/- on each occasions he finds the contractor at default of proper arrangements in the labour camp and such amounts of fine will be deducted from the bills of the contractor.

The contractor shall engage local labour for unskilled work as far as practicable. The rates quoted shall be inclusive of cost of the labour, skilled and semi skilled workers, cost of supervision etc.

Signature of Tenderer/s

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3.6 Enabling Works

The rates quoted shall be inclusive of all enabling works such as construction vats, stores, godowns, workshops, maintenance places, offices, housing labour camp, access roads, service roads, transport arrangements, drinking water facility, lighting etc. whether expressly specified or not. All temporary access facility created during execution of works including ramps in earthwork, concrete or masonry steps, ladders etc. shall be treated as enabling works.

3.7 Site Clearance

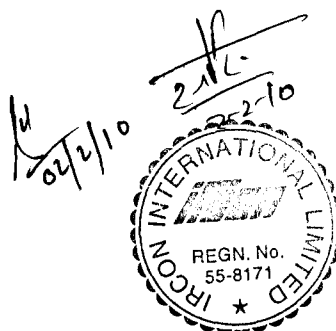
Before the work is started, the contractor shall clear all the jungle, grass, shrubs, trees etc, to the extent needed for the works and as directed by the Engineer-in-charge.

4.0 SAFETY (Ref Clause 22.0,23.0,24.0 of GCC)

- 4.1 Contractor shall have full regard for the safety of all persons entitled to be upon the site and the works in an orderly state appropriate to the avoidance of dangers to such persons.
- 4.2 Works covered in this contract are in close vicinity of running lines. Contractor shall take all steps to ensure safety of running trains, contractor's staff and labour, and passengers/general public.
- 4.3 Contractor's employees and representatives shall wear identification Badges(cards), uniforms, helmets, safety shoes and other safety accessories. All vehicles shall be clearly marked with the contractor's name or identification mark.
- 4.4 Engineer in-charge may further issue instructions from time to time as per the exigencies of the work. These instructions shall be binding on the contractor.
- 4.5 The contractor shall abide by all railway regulations in force for the time being and ensure that same are followed.
- 4.6 Contractor shall be responsible for security of works for the duration of the contract and shall provide and maintain adequate security personal to meet these obligations. Separate payment for provision of security services will not be made and will be deemed to be included in the item of Bill Of quantities

Signature of Tenderer/s

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5.0 TIME SCHEDULE (Ref Clause 15.0,16.0 of GCC)

Completion schedule shall be six (6) months from the date of placement of firm work order. However, the progress of work shall be continuously monitored. For monitoring purpose only following milestones shall be followed

- 5.1 20% of the work within 2 months of placement of order.
- 5.2 Cumulative 50% of the work within 4 months of placement of order.
- 5.3 Cumulative 100% of the work within 6 months of placement of order.

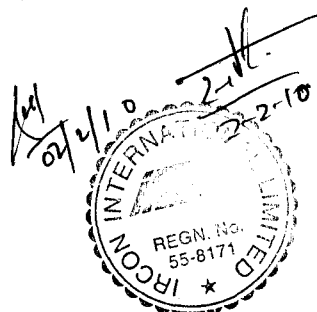
IRCON shall have the right to terminate the contract, if there is no visible progress at site in accordance with milestones detailed above.

6.0 USE OF MATERIALS (Ref Clause 45.0,46.0 of GCC)

- 6.1 No material shall be used by contractor until unless the same is approved by Engineer in Charge or submitted the Test Reports.
- 6.2 The contractor has to arrange at his own cost cement & steel after taking approval from engineer-in-charge for foundations of structures. The material must be conforming to the laid down specifications and suitability of the site.
- 6.3 Like cement and steel, all other materials for the contract works shall be arranged by the contractor at his own cost. The material must be conforming to the laid down specifications and suitability of the site.
- 6.4 The contractor shall store material at store depot/work site and arrange for proper stacking item wise before they are taken to site for erection. The contractor will ensure proper accountal in a ledger of all materials and will allow to IRCON's representative for verification as and when required. The contractor shall also arrange to submit a reconciliation statement of materials procured, materials consumed and balance in their of with every running bill.
- 6.5 In case any material is issued by IRCON, contractor shall return all balance materials after completion of work to IRCON site as directed by Engineer-in-charge. All loading unloading and transportation charges shall be borne by the contractor.
- 6.6 Any short tail on account of theft or damages of materials, recovery will be made @ of last purchased rate plus 15% as handling & supervision charges from the due payment to the contractor.

Signature of Tenderer/s

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7.0 DEFECT LIABILITY PERIOD (Ref Clause 68.0 of GCC)

The defect liability period shall be 24 Months from the date of commissioning of system. If during the Defect Liability Period any defect found in the workmanship of the Foundations/Brick work etc., the Contractor shall promptly, in consultation and agreement with ultimate client regarding appropriate remedying of the defects, and its cost, repair, replace or otherwise make good such defect as well as any damage to the facilities caused by such defect.

8.0 TAXES AND DUTIES

Rates quoted shall be inclusive of all taxes duties and levies. Rates shall be inclusive of all freight charges. Service tax if applicable to be quoted separately as extra. The service tax will be reimburse on production of proof of deposit.

9.0 DEDUCTIONS OF TAX AT SOURCE(Ref Clause 64.0 of GCC)

Tax will be deducted at source. Refer clause 64.2 of GCC.

10.0 INSURANCES (Ref Clause 9.0 of GCC)

Contractor shall be responsible for insurance of

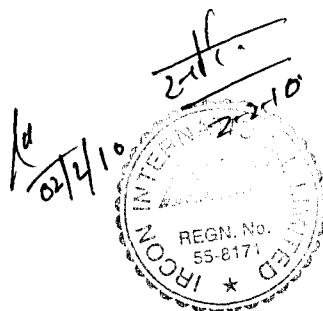
- 10.1 Works and contractor's equipments
- 10.2 Contractor's persons against injury i.e. WCA
- 10.3 Damage to material handed over to contractor

11.0 PAYMENT TERMS (Ref Clause 61.0,62.0,63.0,64.0 of GCC)

Payment terms shall be as follows

- 11.1 100% payment after the completion of erection works and certification by IRCON engineer.
- 11.2 Payment shall be made through account payee cheque or DD with DD charges to Contractor's account or by EFT.
- 11.3 Contractor shall submit one bill in one month for payment.
- 11.4 Daily progress reports (DPR) shall be maintained at site duly signed by IRCON representatives. Copies of DPR along with summary sheet shall be submitted along with bill.

Signature of Tenderer/s



12.0 FORCE MAJEURE CALUSE (Ref Clause 71.0 of GCC)

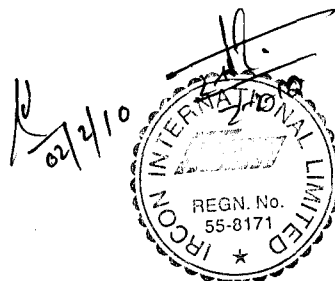
If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of public enemy, civil commotion, sabotage, serious loss or damage by fire, explosions, epidemics, strikes, lockouts or acts of God (hereinafter referred to 'events') provided, notice of the happening of any such event is given by either party to the other within 30 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and works under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and decision of the Engineer as to whether the works have been so resumed or not shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 120 days, either party may at its option terminate the contract by giving notice to the other party.

12.0A Subject to any requirement in the contract as to completion of any portion or portions of the works before completion of the whole, the contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:-

- (i) If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the cause thereof shall arise and in any case not less than one month before the expiry of the date fixed for completion of the works.
- (ii) If the opinion of the Engineer the progress of work has any time been delayed by any act or neglect of IRCON's employees or by other contractor employed by IRCON or in executing the work not forming part of the contract but on which contractor's performance necessarily depends or by reason of proceeding taken or threatened by or dispute with adjoining or neighboring owners or public authority arising otherwise through the Contractor's own default etc. or by the delay authorized by the Engineer pending arbitration or in consequences of the contractor not having received in due time necessary instructions from IRCON for which he shall have specially applied in writing to the Engineer or his

Signature of Tenderer/s

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authorized representative then upon happening of any such event causing delay, the contractor shall immediately given notice thereof in writing to the Engineer within 15 days of such happening but shall nevertheless make constantly his best endeavors to bring down or make good the delay and shall do all that may be reasonably required for him to the satisfaction of the Engineer to proceed with the works. The contractor may also indicate the period for which the works is likely to be delayed and shall be bound to ask for necessary extension of time. The engineer on receipt of such request from the contractor shall consider the same and shall grant such extension of time as in his opinion is reasonable having regard to the nature and period of delay and the type and quantum of work affected thereby. No other compensation shall be payable for works so carried forward to the extended period of time, the same rates, terms and conditions of contract being applicable as if such extended period of time was originally in the original contract itself.

- (iii) In the event of any failure or delay by IRCON to hand over the Contractor possession of the land necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by IRCON due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the contractor to damages or compensation therefore, but in any such case, IRCON may grant such extension or extensions of the completion date as may be considered reasonable.

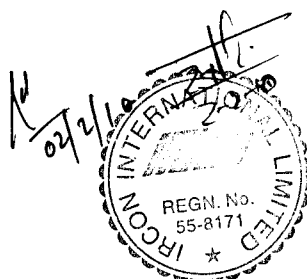
12.0B Extension of Time for Delay Due To Contractor

The time for execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed not later than the date(s) as specified in the contract. If the contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in clause 12.0 and 12.0A, IRCON may, if satisfied that the works can be completed by the contractor within reasonable short time thereafter, allow the contractor further extension of time as the Engineer may decide. On such extension, IRCON will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the contractor as agreed in LD clause.

For the purpose of this clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued.

Signature of Tenderer/s

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Provided further, that if IRCON is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within. Further extension of time allowed as aforesaid. IRCON shall be entitled, without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's security deposit and rescind/terminate the contract under relevant clause of these conditions whether or not actual damage is caused by such default.

13.0 Staff And Labour

Contractor shall make arrangements for engagement of staff and labor, local or otherwise, and for their payment, housing, feeding and transport.

- 13.1 Contractor shall engage an engineer with a minimum qualification of Diploma in Electrical Engineering. This person shall be responsible for coordination of work at site and liaisons with IRCON Engineer.
- 13.2 Contractor's personnel shall be appropriately qualified, skilled and experienced in their respective trade or occupation.
- 13.3 Contractor shall pay rates of wages, and observe conditions of labour, which are not lower than those established for the trade or industry where the work is carried out.
- 13.4 The contractor shall comply with all the relevant laws applicable to the Contractor's personnel including laws related to their employment, health, safety, welfare, immigration and emigration.
- 13.5 Contractor shall at all times take all reasonable precautions to maintain the health and safety of the contractor's personnel.
- 13.6 Contractor shall provide on site an adequate supply of drinking and other water for the use of Contractor's personnel.
- 13.7 The contractor shall at all times take the necessary precautions to protect the Contractor's personnel employed on site from insect and pest nuisance.
- 13.8 The contractor shall not allow liquor, barter, drugs and arms at site.

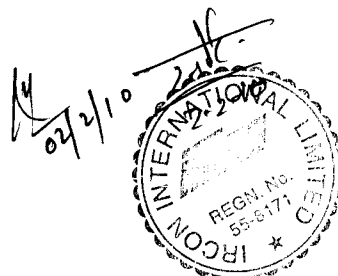
14.0 Plant, Material And Workmanship

Contractor shall carry out manufacture of plant/workshop, the manufacture/modification of materials, and all other executions of the work in a proper workmanlike and careful manner.

- 14.1 Contractor shall submit samples of material to Engineer for consent prior to using the materials.
- 14.2 For foundation works the cost of testing cube samples shall be born by the contractor.
- 14.3 Employer's personnel shall at all reasonable times have full access of all parts of the site to inspect, measure and test material and workmanship and to check the progress.
- 14.4 Contractor shall provide all apparatus, assistance, documents and other information to carry specified tests efficiently.

Signature of Tenderer/s

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15.0 LABORATORY TESTING:

The items of supplies included in the scope of the contractor shall be inspected by the representative of RVNL / IRCON before they are cleared for dispatch to the site. In case IRCON intends to waive the inspection the firm shall submit the work test certificates for the supply items from the laboratories of manufacturers or independent test houses and obtain approval of the Engineer – charge before their dispatch.

16.0 VARIATION IN QUANTITY(Ref Clause 58.0,59.0 of GCC):

-For all accepted rates of the contract, quantities of each item may increase or decrease by 25%.

-In case the variations in individual items are more than 25%, the rate for the increased/decreased quantities beyond 25% shall be negotiated between the Engineer and Contractor.

17.0 RISK AND COST IN CASE OF FAILURE OF THE CONTRACTOR

17.1 Time is the essence of the contract. All works awarded to the contractor shall be completed in all respects within Six months from the date of issue of Letter of Acceptance by IRCON.

17.2 In the event of failure on the part of the Contractor for maintaining the pro-rata progress of work as per agreed programme, IRCON reserves its right to make good the balance total quantity of work awarded to the Contractor by fixing any other agency on single tender basis or through departmental means as decided by the Engineer-in-Charge at the risk and cost of the Contractor and the cost so incurred on this shall be to the account of the contractor.

17.3 The decision of the Engineer-in-Charge regarding the quantity of work to be carried out at the risk and cost of the Contractor, the rates at which various items of work to be executed and the selection of the alternate agency to carry out such works will be final and binding on the Contractor. The extra amount incurred by IRCON due to such risk and cost a contract will be recovered from the Contractor's running bills, security deposit, or any other dues available with IRCON.

Signature of Tenderer/s

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18.0 LIQUIDATED DAMAGES(Ref Clause 49.0 of GCC)

If the supplier/contractor fails to execute work within the time frame for

completion or any extension thereof, then the IRCON shall, without prejudice to the other remedies under the contract, deduct from the contract price a sum equivalent to 0.25% of the contract price per day as LD for such default and not as a penalty for each week or part thereof of delay, until actual performance upto a maximum deduction of 10% of the contract value.

The payment or deductions of such damages shall not relieve the manufacturer from its obligation and liabilities under the contract. Once the maximum is reached the purchaser may consider termination of the contract under clause "Terminations for Default".


19.0 INDEMNIFY BY CONTRACTOR(Ref Clause 21.0 of GCC)

The contractor shall indemnify and save harmless the IRCON/Railway/Employer/Engineer from and against all actions, suit proceedings, losses, costs, damages, claims and demands of every nature and description brought or recovered against the IRCON/Railway/Employer/Engineer by reason of any act or omission of the contractor, his agents or employees, in the execution of works or in his guarding the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

**For & on behalf of
IRCON International Ltd.**

Signature.....
Designation.....

Signature of Tenderer/s

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Electrification of 3rd Line in Aligarh-Ghaizabad Section

Tender For

**Foundation Work Associated With Electrification of 3rd Line in
Khurja – Aligarh section**

**Tender Document
February 2010**

VOLUME-II-FINANCIAL BID

IRCON INTERNATIONAL LIMITED

(A Government of India Undertaking)

**Project office:
Additional General Manager/Elect.
B-194, CIC Building,
Noida Phase-II,
G.B. Nager-201305.**

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[Handwritten date: 2-2-10]

Signature of Tenderer/s





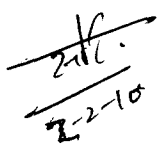
SCHEDULE OF ITEMS AND QUANTITIES

Annexure-I

S. No.	Description	Unit	Approx Qty.	Unit Rate (Rs)	Amount (Rs)
1	Providing and laying in position cement concrete grade-M10 in 1:3:6 (1 Cement, 3 coarse sand, 6 graded stone aggregate 40 mm nominal size) including the cost of centering and shuttering, earth work in excavation & back filling complete with top level surface finish-all works up to plinth level in all type of soil.	Cum.	1151		
2	Providing and laying in position cement concrete grade-M15 in 1:2:4 (1 Cement, 2 coarse sand,4 graded stone aggregate 20 mm nominal size) including the cost of centering and shuttering, for grouting and muff with top level surface finish – all works up.	Cum.	85		
3	Providing and laying in position Reinforced cement concrete grade-M15 in 1:2:4 (1 Cement, 2 coarse sand, 4 graded stone aggregate 20 mm nominal size) including the cost of centering and shuttering, earth work in excavation & back filling complete with top level surface finish for foundation and trenches-all works up to plinth level in all type of soil. The price shall include supply of G.I. angle of 45x45x5 mm for cable support.	Cum	11		
4	Providing and laying in position Reinforced cement concrete grade-M15 in 1:2:4 (1 Cement, 2 coarse sand, 4 graded stone aggregate 20 mm nominal size) including the cost of centering and shuttering as per drawing for cable trench cover. The Cable trench cover will be casted in an angle iron frame of angle size 40x40x5 mm and the price shall include the supply of 8.0 mm dia for the frame work and fabrication of angle iron frame and placing cover in position etc.	Sqm	52		
5	Providing and laying in position with Reinforced Brick work with first class brick for Baffle wall laid in cement mortar 1:3 mix. The size of steel shall be 8.0 mm and 6.0 mm as per quantity required in RDSO drawing of Baffle wall. The price shall include the supply bending and binding and placing of steel, excavation of earth and back filling in all type of soil, shoring, shuttering and scaffolding arrangement required for the construction of brick wall and curing and other materials with all complete.	Cum.	20		
6	Providing and laying in position Brick work with first class brick laid in cement mortar 1:3 mix. The price shall include excavation of earth and back filling in all type of soil, shoring, shuttering and scaffolding arrangement required for the construction of brick wall and curing and other materials with all complete.	Cum.	28		
7	Providing and laying 12.0 mm plastering with cement mortar 1:4 (1 Cement, 4 fine sand) on the Baffle wall and other brick work. The price shall include for finishing, scaffolding raking out joints and curing.	Sqm	325		
Total					
Amount in words(Rs)					

- Rate should be inclusive of all taxes, duties and levies.
- Service tax if applicable to be quoted separately.

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CODES AND SPECIFICATIONS**2.0 CODES AND SPECIFICATION**

- 2.1 The execution of all works under this tender shall confirm to the specifications and codes of practice mentioned in this section.
- 2.2 Codes and specifications as applicable in RE contracts of CORE/ Railways shall be applicable.
- 2.3 RVNL/IRCON reserves the Right to reject or alter any part of the work executed by the Contractor which in the line of Judgment of the RVNL/IRCON does not comply with the requirements of the above Specifications. The decision of RVNL/IRCON shall be final and conclusive for all purpose and Contractor shall have no claim on this account whatsoever.

For all items given in BOQ.

The price shall cover excavation, supply and handling of all materials and accessories, temporary arrangements for excavation in all type of soil and concrete/masonry drains/walls requiring use of chisel and hammer or requiring blasting. Shoring where necessary, casting concrete including frame work where necessary, tamping of concrete, grouting of masts and finishing the top of concrete foundation or anchor blocks. The price also includes dismantling of all connected temporary arrangements, back filling with earth and compacting the same to the required height and width as per drawing to ensure safety of foundation, confining the exposed height of foundation block to within 10 cm., and removal of spoil.

The Purchaser's Engineer shall certify where use of chisel and hammer or blasting has been necessary. The contractor shall arrange for supply of explosives and all tools and plants for blasting operations at his own cost.

Notes for measurement:

1. The payable volume of the foundations under the BOQ items shall be the designed one as shown in the drawings for which the hole has been blasted, irrespective of the actual configuration assumed by the latter due to the blasting.
2. The depth of the excavation shall be measured from the formation level to the maximum excavated point.

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