

**IRCON INTERNATIONAL LIMITED**

**(A Government of India Undertaking)**

**67, Abhay Nagar,**

**Rag Rang Colony,**

**Dhule - 424001**

**Dist. Dhule (Maharashtra)**

**Tel. No.: (02562) 234767**

**Fax No.: (02562) 235867**

**TENDER**

**FOR**

**BUS SHELTER WORKS FOR**

**PIMPALGAON DHULE BOT ROAD PROJECTS**

**Issued to:**

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**NOT TRANSFERABLE**

**SEPTEMBER 2009**

**NOTICE INVITING TENDER**

To.,

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Sub: Rehabilitation and strengthening of existing 2-lane Road and widening of carriage way to 4 lane Divided -Dual carriage way configuration of Dhule to Pimpalgaon (Km.265 to Km.380) section of NH-3 – **Construction of Bus Shelter**

Dear Sir,

- 1.0** Jt. General Manager, Ircon International Limited (IRCON in abbreviation), 67, Abhay Nagar, Rag Rang Colony, Dhule - 424 001, Maharashtra invites sealed tenders in two packet system for the subject work on prescribed forms from bonafide firms / companies having requisite experience and financial capacity for the following works :

Sl. No.	Name of Work	Estimated Cost of Work (Rs.)	Earnest Money Deposit (Rs.)	Completion Period
<b>1</b>	Construction of Bus Shelter	<b>Rs.47.96 lacs</b>	<b>Rs.25,000/-</b> (Twenty Five Thousand)	<b>4 months</b>

Tendered(s) may please note that their offer will be evaluated as per the credentials / documents attached by the tenderer(s) along with the tender submitted to IRCON.

**2.0 Eligibility Criteria**

**Eligibility of the applicants shall be assessed based on the "Essential Qualifying Criteria" and "Other Qualifying Criteria" as given in Annexure-I.**

- 3.0 Tender documents can be obtained from 10.00 hours to 17.00 hours on all working days from 15.09.09 to 29.09.09 from office of Jt. General Manager, Ircon International Limited, 67, Abhay Nagar, Rag Rang Colony, Dhule - 424 2001, Maharashtra on payment of Rs.1000/- in cash or demand draft /Pay Order in favour of IRCON INTERNATIONAL LTD. towards the cost of the Tender Documents. The Tender Documents shall be sold only to the person authorized in writing by the firm

or company. The Tender documents can also be downloaded from IRCON's web site **www.ircon.org** and in such a case, the tender shall deposit the cost of tender documents in form of Demand Draft/Pay Order in favour of IRCON INTERNATIONAL LTD. along with submission of the Tender Document, failing which offers shall be considered invalid. Tenderer 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 or the document issued by IRCON are noticed, such offers for tenders shall not be considered and shall be summarily rejected.

Tendered(s) may please note that their offer will be evaluated as per the credentials / documents attached by the tenderer(s) along with the tender submitted to IRCON.

- 4.0 IRCON may issue addendum(s)/corrigendum(s) to the tender documents. In such a case, the addendums(s)/corrigendum(s) shall be issued and placed on IRCON's web site at least three days in advance of date fixed for opening of Tender. The tenderer who have downloaded the tender documents from web site must visit the web site to ensure that such addendums(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 packets viz. **Packet -I** containing **Technical Bid** and **Packet II** containing **Financial Bid**. Detailed credentials as per requirement of eligibility criteria and all papers **except the Bill of Quantities** are to be submitted in **Technical Bid**. **Bill of Quantities** with rates duly filled in are to be submitted in **Financial Bid**.

(Any deletion / tampering with the tender papers shall be liable for rejection)

- 6.0 Completed tender documents for the work shall be sealed in envelope super-scribing with the name of the work and addressed to "**Jt. General Manager, Ircon International Limited, 67, Abhay Nagar, Rag Rang Colony, Dhule - 424 2001, Maharashtra**" and should be deposited in the tender box at IRCON's office at address given in Para 1.0 before **15.00** hours of **30.09.2009**. **Technical Bid** shall be opened at **15:30** hours on the same day in the presence of the tenderers or their authorised representatives intending to attend the opening. Tenders duly sealed in the prescribed manner as above can also be sent through Registered Post/Speed Post/Courier so as to reach in this office (**Jt. General Manager, Ircon International Limited, 67, Abhay Nagar, Rag Rang Colony, Dhule - 424 2001, Maharashtra**) 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(s) unopened. The **Financial Bid** shall be opened only after assessing suitability as per the technical bids by IRCON.

- 7.0 **Tender shall be submitted as per "Instructions to Tenderers" forming a part of the tender document.**

- 8.0 **IRCON reserves the right to cancel the tender before submission / before opening of tenders, postpone the tender submission / opening date and to accept / reject any or all tenders without assigning any reasons thereof.**

- 9.0 **Tenderers may note that they are liable to be disqualified at any time during / after tendering process in case any of the information furnished by them is found to be false/incorrect. The decision of IRCON in this regard shall be final and binding.**
- 10.0 The validity of the offer shall be 90 days after the date of opening of the tender.
- 11.0 The transfer of tender documents purchased by one intending tenderer to another tenderer is not admissible.

For & on behalf of  
**IRCON INTERNATIONAL LIMITED**

Jt. General Manager  
Pimpalgaon Dhule BOT Road Project

**FORWARDING LETTER BY TENDERER (FORM OF BID)**

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**FORWARDING LETTER BY TENDERER (FORM OF BID)**

To  
Ircon International Limited,  
Plot No-C-4,,District Centre  
Saket, New Delhi – 110017.

Dear Sir,

I/We, \_\_\_\_\_ (*Name and address of the tenderer*) have read the various terms and conditions of the tender documents attached here with duly signed by me/us and agree to abide by the same. I/We also agree to keep this tender open for acceptance for a period of 90 days from the date fixed for opening the same.

I/We hereby declare that we have visited the site of the work and have made ourselves fully conversant of the conditions therein and including the topography of area, soil strata at site of work, sources and availability of construction materials, rates of construction materials, water, electricity, all local taxes, royalties, octroi is etc., availability of local labour (both skilled and unskilled), relevant labour rates and labour laws, the existing road and approaches to the site of work, requirements for further service roads / approaches to be constructed by me / us, the availability and rates of private land etc. that may be required by me / us for various purposes, climatic conditions, law and order situation and availability of working days.

I/We have quoted our rates for various items in the Bill of Quantities taking into account all the above factors and We offer to do the work " \_\_\_\_\_ " (*Name of the work*) at the rates quoted in the attached Bill of Quantities and hereby bind ourselves to complete the work in all respects within time schedule depicted in tender documents from the date of issue of letter of acceptance of tender.

I / We also understand that until a formal Contract Agreement is executed, Letter of Acceptance along with all tender documents shall constitute a binding contract between me/us and IRCON International Limited.

Thanking you,

Yours Faithfully,

Signature \_\_\_\_\_ in capacity of \_\_\_\_\_ duly authorized to sign bids for and on behalf of: \_\_\_\_\_ (*In Block capital letters*)

Date this \_\_\_\_\_ day of \_\_\_\_\_ 2008

DATE:

SIGNATURE OF TENDERER

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**INSTRUCTIONS TO TENDERERS**

## INSTRUCTIONS TO TENDERERS

### **A** **1**

#### **General**

Ircon International Limited (A Govt. of India Undertaking) is executing work of Rehabilitation and Strengthening of existing 2 lane road and widening to 4 lane divided dual carriageway configuration of Dhule to Pimpalgaon (Km265 to Km380) section of NH-3 for National Highway Authority of India on BOT basis by a Joint Venture of IRCON SOMA TOLLWAY PRIVATE LIMITED (ISTPL). IRCON has been appointed as EPC Contractor by ISTPL.

#### **1.1 Name of Work :**

Construction of Bus Shelter

#### **1.2 Brief Scope of Work**

The work involves fabrication, supply & installation of Bus Shelter including base plate, roof sheet, CC foundation, supply and fixing of paver block on footpath, median, casting of kerb, earthwork in shoulder etc. as per Bill Of Quantities and to be provided between Ch.100+000 to Ch.128+385.

#### **1.2 Not withstanding anything contained in this document elsewhere please note that no Joint venture firm is permitted to participate in this tender.**

1.3 The proposed work to be executed under the following relationship.

- a) Client : National Highway Authority of India (NHAI)
- b) Independent Engineer (IE) / Independent Consultant (IC) : The consultant appointed by NHAI / MORT&H for acting on their behalf for execution of the project and review of the activities associated with design, construction and O&M of the project and ensuring Compliance of the requirement of Concession Agreement
- c) Concessionaire : IRCON SOMA TOLLWAY PRIVATE LIMITED (ISTPL)
- d) Employer: IRCON INTERNATIONAL LIMITED
- e) Contractor : The successful tenderer to whom the work awarded shall become the contractor for the execution of this work.

1.4 Throughout these bidding documents, the terms "bid" and "tender" and their derivatives ("bidder"/"tenderer"), "bid/tendered", "bidding"/"tendering", etc.) are synonymous. Day means calendar day. Singular also means plural.

1.5 Scope of Work /Supply : As indicated in 'Appendix to Tender'. The scope given above is only indicative. The detailed scope has been described in the tender documents.

- 1.6 Approximate Estimated cost of the work is as indicated in the 'Appendix to Tender.'
- 1.7 Tenderers may carefully 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. The decision of Employer in this respect shall be final and binding.
- 1.8 A bidder shall submit only one bid in the capacity of a Company. Violation of this condition is liable to disqualify the tender in which such bidder has participated.

## **2 Cost of Bidding**

- 2.1 The bidder shall bear all costs associated with the preparation and submission of the bid and the Employer will in no case be responsible or liable for these costs regardless of the conduct or the outcome of the bidding process. The submission of the bid by the tenderer shall be taken to conform that the tenderer has made all the necessary examination and inquiries of all the relevant points.

## **The Bidding Documents**

### **3 Content of bidding documents**

- 3.1 The bid documents include the following:

Notice Inviting Tender  
Instructions to tenderers  
Appendix to Tender  
Form of Bid  
Special Conditions of Contract  
General Conditions of Contract  
(Will be made available on purchase basis after payment of Rs.500/-  
Additional to IRCON)  
Bill of Quantities

- 3.2 The bidder is expected to examine all instructions, terms, conditions, forms, specifications and other information in the bidding documents. **The tender is to be prepared strictly in compliance with instructions contained in these documents.** Failure to prepare the tender in compliance with the instructions may lead to rejection of the bid. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidders' risk and may result in rejection of his bid.
- 3.3 Intending tenderers requiring, any further information or clarification on the Tender documents may contact IRCON office, Dhule at the address and telephone number given on top sheet of the Tender on or before **29.09.2009.**

## **4 Understanding and Amendment of Tender Documents**

- 4.1 The bidder must obtain for itself on its own responsibility and its own cost all the information including risks, contingencies & other circumstances in execution of the work. It shall also carefully read and understand all its obligations & liabilities given in tender documents.
- 4.2 The bidder is advised to visit and examine the site where the work is to be executed and its surroundings or other areas as deemed fit by the bidder and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and execution of the contract. The cost of visiting the site and collecting relevant data shall be at the bidder's own expenses. It is a condition of the tender that the tenderer is deemed to have visited the site and satisfied himself with all the conditions prevailing including any difficulties for executing the work.
- 4.3 At any time prior to the deadline for submission of bids, Employer may for any reason whether at its own initiative or in response to any request by any prospective bidder amend the bidding documents by issuing Corrigendum, which shall be part of the Tender documents. The amendment shall be advised to all the prospective bidders.
- 4.4 Employer may at its discretion extend the deadline for submission of the bids at any time before the time of submission of the bids.

## **C. Preparation of the Bids**

### **5 Language of Bid**

- 5.1 The bid prepared by the bidder and all documents related to the bid shall be written in English.

### **6 Signing of All Bid papers and Completing Bill of Quantities**

- 6.1 The successful tenderer has to execute the work including all cost of materials, tools and equipments etc. including all taxes, duties, levies etc. complete.
- 6.2 All the pages of the tender documents and Bill of Quantities submitted by tenderer shall be signed and stamped by the tenderer or his authorized representative holding the Power of Attorney.
- 6.3 While filling up the rates in the Bill of Quantities, tenderer shall ensure that there is no discrepancy in the rates mentioned in figures and words. In case of any discrepancy, the unit rate mentioned in the words shall be taken as final and binding.
- 6.4 The tenderer must fill and submit the prices as per instructions given in Bill of Quantities. He shall not make any addition or alteration in the tender documents. The requisite details should be filled in by the tenderer wherever required in the documents. Incomplete tender or tender not submitted as per instructions is liable to be rejected. If a tenderer does not quote a price/rate for any BOQ item, his tender shall be summarily rejected.

### **7 Deviations**

- 7.1 The tenderer should clearly read and understand all the terms and

conditions, specifications, drawings, etc. mentioned in the original tender documents. If the tenderer has any observations, the same may be indicated in his forwarding letter along with the tender. Tenderers are advised not to make any corrections, additions or alterations in the original tender documents. If tenderer makes any correction in his own entries the same shall be initialed and stamped by him. If this condition is not complied with, tender is liable to be rejected.

## **8 Transfer of tender documents**

Transfer of tender documents by one intending tenderer to another tenderer is not permissible.

## **9 Earnest Money:**

9.1 The tenderer must furnish the Earnest Money as indicated in 'Appendix to Tender' for the work as specified failing which, the tender shall be summarily rejected. The Earnest Money may be in any of the following forms :

a) Pay Order/Demand Draft of any Scheduled Bank in India in favour of Ircon International Limited payable at a place as given in Appendix to Tender.

b) Fixed Deposit Receipt issued by any Scheduled Bank in India endorsed in favour of Ircon International Limited.

No interest shall be allowed on Earnest Money Deposit in case the same is deposited in the form of Pay Order/Demand Draft.

9.2 Forfeiture of Earnest Money :

9.2.1 The Earnest Money of the tenderer shall be forfeited if he withdraws his tender during the period of tender validity specified in the Appendix to Tender or extended validity period as agreed to in writing by the tenderer.

9.2.2 The Earnest Money of the successful tenderer is liable to be forfeited if he fails to –

i) Sign the Contract Agreement in accordance with the terms of the tender,

or

ii) Furnish Performance Guarantee in accordance with the terms of tender,

or

iii) Commence the work within the time period stipulated in the tender.

9.2.3 In case of forfeiture of EMD, the tenderer shall be debarred from bidding in case of re-invitation of the tenders.

9.3 Return of Earnest Money :

9.3.1 The Earnest Money of the unsuccessful tenderers shall be discharged and returned as promptly as possible.

9.3.2 The Earnest Money Deposit of the successful tenderer shall be dealt as under :-

i) If the Earnest Money Deposit is in the form of Fixed Deposit Receipt (FDR), the FDR shall be returned after deduction of an equivalent amount from the first on account bill and further deduction of retention money from the bills shall commence after adjusting this EMD amount.

ii) If the Earnest Money Deposit (EMD) is in the form of Demand Draft/Pay Order, the same shall be retained towards retention money and further deduction of retention money from the bills shall commence after adjusting this EMD amount.

## **10 Period of validity of the tender**

10.1 The tender shall remain valid for the period indicated in "Appendix to Tender" after the date of the opening of the tender. If the Tenderer gives validity period less than that fixed/prescribed by Employer, the tender shall be liable to be rejected.

10.2 Notwithstanding the above clause, Employer may solicit the tenderers' consent to an extension of the validity period of the tender. The request and the response shall be made in writing or by cable / telex / fax. The tenderer may refuse the extension request. The tenderer accepting the extension request will not be permitted to modify the original bid.

## **D. Submission of Bids**

### **11 Deadline for submission of tender**

11.1 The tender duly filled must be received by Employer at the address specified not later than the date and time mentioned in the "Notice Inviting Tender".

11.2 A tender received later than the deadline prescribed for submission of tender by Employer is liable to be rejected.

11.3 Tenders brought to the office of Employer later than the deadline prescribed but before the opening time mentioned in the bidding document shall be declared as delayed tenders and may be considered by Employer and decided on its merits. The decision of the Employer shall be final and binding.

11.4 Any tender received after opening of the tender shall be rejected and returned unopened to the tenderer.

### **12 Withdrawal of tender**

No tender can be withdrawn after submission and during tender validity period.

**13 Submission of a tender by a tenderer implies that he had read all the tender documents including amendments if any, visited the site and has made himself aware of the scope and specifications of the work to be done, local conditions and other factors having any bearing on the execution of the work.**

**14 Sealing and marking of tenders**

14.1 The bidder shall submit their offer in "two packet (envelope) system" as described below :

- a) **Packet I** (envelope) shall contain the signed Technical Bid, Pre qualification documents (Annexure I), Documents as per checklist (Annexure II), Corrigendum(s)/Addendum(s) if any, EMD/Bid Security in form of Demand Draft/FDR in favour of IRCON and cost of Tender (as detailed in NIT). Packet I **should not** contain any price bid. Packet I should be super scribed "**Packet I, Technical Bid**".
- b) **Packet II** (envelope) shall contain the Bill of Quantities(Schedule of Rates and Quantities). Packet II should be super scribed "**Packet II, Financial Bid**".
- c) Both the above packets should then be placed together in an envelope and superscribed with NIT No. and "Not to be opened before" and submitted before the time and date to the address mentioned in NIT.

In addition to the above, the envelope shall also contain the name and address of the tenderer to enable tender to be returned unopened if so required.

**E. Bid opening and Evaluation**

**15 Opening of the tender**

15.1 Tenders will be opened at the address mentioned in "Notice Inviting Tender" in presence of tenderers or authorized representatives of tenderers who wish to attend the opening of tenders.

**Only one representative of the tenderer shall be allowed to witness in the bid opening process.**

15.2 Tenderers or their authorized representatives who are present shall sign register in evidence of their attendance.

15.3 Tenderer's name or any other details as Employer may consider appropriate will be announced and recorded at the time of bid opening.

**16 Clarification of the tenders**

16.1 To assist the examination, evaluation and comparison of the tenders, Employer may at his discretion ask the tenderers for any clarifications as

considered essential. All such correspondence shall be in writing and no change in price or substance of the tender shall be sought or permitted. The above clarification for submission of the details shall form part of the tender and shall be binding on tenderer.

## **17 Preliminary examination of bids**

- 17.1 The Employer shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed and whether the bids are generally in order.
- 17.2 Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected.
- 17.3 Prior to the detailed evaluation, Employer shall determine whether each bid is of acceptable quality, is generally complete and is substantially responsive to the bidding documents. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the bidding documents without material deviations, objections, conditionality or reservation. A material deviation, objections, conditionality or reservation is one;
- i) That affects in any substantial way the scope, quality or performance of the contract.
  - ii) That limits in any substantial way, inconsistent with the bidding documents, the Employers' rights or the successful Bidder's obligations under the contracts; or
  - iii) Whose rectification would unfairly affect the competitive position of other Bidders who are presenting substantially responsive bids.
- 17.4 If a bid is not substantially responsive, it shall be rejected by the Employer.
- 17.5 In case of tenders containing any conditions or deviations or reservations about contents of tender document, Employer may ask for withdrawal of such conditions/deviations/reservations. If the tenderer does not withdraw such conditions/deviations/ reservations, the tender shall be treated as non-responsive. Employer's decision regarding responsiveness or non-responsiveness of a tender shall be final and binding.

## **18 Evaluation and comparison of tenders**

- 18.1 The tenderer must submit all necessary authentic data with necessary supporting certificates of the various items for evaluation.
- 18.2 The Employer reserves the right to reject any conditional offer, or the offer not responsive to the requirement. Tenderers who don't respond to the clarification asked by Employer within the scheduled time fixed by

Employer are liable to be rejected.

18.3 IRCON shall assess the Technical Bid and supporting documents submitted by the bidders in a reasonable time to prepare a list of bidders meeting the essential qualifying criteria as mentioned in Annexure I. All the shortlisted bidders meeting the essential qualifying criteria shall be intimated regarding the time and date of opening of financial bid. IRCON shall not be responsible for any delay in intimation of the date and time of opening of Financial Bid and shall be opened as per schedule. The schedule of opening of Financial Bid of shortlisted bidders shall be intimated shortly.

18.4 The Employer/Engineer reserves the right to negotiate the offer submitted by the tenderer to withdraw certain conditions or to bring down the rates to a reasonable level. The tenderer must note that during negotiations of rates of items of BOQ can only be reduced and not increased by the tenderer. In case the tenderer introduces any new condition or increases rates of any item of BOQ, his negotiated offer is liable to be rejected and the original offer shall remain valid and binding on him.

18.4 **However, IRCON reserves the right to award the work in full or in part but rates will be valid even if part of the work is awarded to successful tenderer.**

## **19 Canvassing**

19.1 No tenderer is permitted to canvass to Employer on any matter relating to this tender. Any tenderer found doing so may be disqualified and his bid may be rejected.

## **20 Right to accept any tender or reject all tenders**

Employer/Engineer reserves the right to accept, split, divide, negotiate, cancel or reject any tender or to annul and reject all tenders at any time prior to the award of the contract without incurring any liability to the affected tenderers or any obligation to inform affected tenderer, the grounds of such action.

**21 If the tenderer, as individual or as a partner of partnership firm, expires after the submission of his tender but before award of work, the Employer/Engineer shall deem such tender as invalid.**

## **22 Award of Contract**

22.2 Letter of Acceptance after it is signed by the Contractor in token of his acceptance shall constitute a legal and binding contract between Employer/Engineer and the contractor till such time the contract agreement is signed.

22.3 For Signing of Contract Agreement on prescribed format in bond paper of value Rs.100/- to be furnished by supplier at supplier's cost.

A. Essential Qualifying Criteria

1. The contractor should possess the experience of having successfully completed similar works during the last 7 years (ending last day of the month previous to the one in which tenders are invited) which should be any one of the following:-
  - i) Three similar completed works each costing not less than the amount equal to 30% of the estimated cost.
  - ii) Two similar completed works each costing not less than the amount equal to 40% of the estimated cost.
  - iii) One similar completed work costing not less than the amount equal to 65% of the estimated cost.

Notes :

Work involving civil works / fabrication works etc. shall be considered as similar work(s). A work shall mean the work executed under one contract.

2. The average annual financial turnover during the last 3 years(i.e. 2007-08,2006-07,2005-06)should be at least 30% of the estimated cost.

Notes :

The financial turnover shall be judged from ITCC or Annual Reports including Profit and Loss Account.

3. The Contractor should have its networth not less than 10% of the estimated cost of the tender. 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 due date of submission of the tender.
4. There should not be any unsatisfactory performance Report of the Contractor from any source.

B. Other Qualifying Criteria

SN	Description	Maximum Marks
1	Registration of Company OR Partnership Deed OR Article of Association OR Registration under Labour Law OR Registration under Sales Tax Act.	10
2	Availability of skilled & trained manpower.	20
3	Availability of tools, Plant & machinery relevant to the work.	40
4	Availability of adequate testing, measuring and inspection equipment and facilities for calibration of the same.	5
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 shortlisted/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.

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

1. Details of similar works completed in last seven years.
2. Annual Turnover for the last three years with supporting documents.
3. Registration of Company.
4. Partnership deed/Memorandum and Articles of Association of the firm.
5. Registration under Labour Laws.
6. Sales Tax/Works Contract Tax Registration Certificate, Service Tax Registration Certificate (as applicable).
7. Details of skilled and Trained Manpower including Engineers and Technical Staff
8. Details of Tools, Plants & machinery
9. Details of Testing, Measuring and Inspection Equipment and facilities for calibration owned.
10. Details of Safety Appliances and Equipment owned.
11. ISO 9001-2000 certificate (if any).
12. Banker's certificate.
13. Networth statement for the last financial year ending on a date not prior to 18 months from the due date of submission of the tender duly supported by Audited Balance Sheet.
14. Schedule for start and completion of works in the form of Bar Chart.
15. Earnest Money Deposit of requisite amount in the prescribed form.
16. Joint Venture Agreement (if any).
17. Original Power of Attorney of the person signing the tender documents or photocopy duly attested by Notary Public.
18. Details of on-going works.
19. Demand Draft/Pay order towards the cost of tender documents & EMD in case tender documents are downloaded from IRCON's web site.
20. Complete Tender documents including Form of bid, drawings etc. (Part-I) duly stamped and signed by the bidders on each page.

21. Financial/Commercial Bid (Part-II) with rates duly filled in, stamped and signed on each page by the bidders.
22. Corrigendum(s),if any, duly stamped and signed by the bidders on each page

## APPENDIX TO TENDER

<u>DESCRIPTION</u>	<u>REFERENCE CLAUSE</u>
<p><b><u>Name of Work: -</u></b> Construction of Bus Shelter (10 Nos.) complete in all respect as per requirement and specification :</p> <p><b><u>Brief Scope of Work : -</u></b></p> <ul style="list-style-type: none"> <li>• Fabrication, Providing &amp; Erecting Tubular / Rectangular Steel of standard size consisting of steel tubular/rectangular hollow trusses, tubular columns, purlins, tie runners, foundation bolts, baseplates, nuts and bolts, welding where ever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and over it 2 Coats of oil painting of approved quality and shade.</li> <li>• Providing and Fixing 60 mm thick factory made, hydraulically pressed, mechanically vibrated and compacted inter-locking cement concrete paving blocks.</li> <li>• Construction of cement concrete kerb.</li> </ul>	<p><b>1.1</b> of Instructions to Tenderers</p> <p><b>1.2</b> of Instructions to Tenderers</p>
<p><b><u>Approximate Estimated Cost of the Work: -</u></b></p> <p><b>Rs.47.96 lacs</b></p>	<p><b>1.6</b> of Instructions to Tenderers</p>
<p><b><u>Amount of Earnest Money and in case EMD is submitted in the form of Pay Order / Demand Draft, the same shall be payable at :</u></b></p> <p>Rs.25,000/- (Rupees Twenty Five Thousand) in favour of IRCON INTERNATIONAL LIMITED and payable at Dhule, Maharashtra</p>	<p><b>9.1</b> of Instructions to Tenderers</p>
<p><b><u>Period of Validity of Tender: -</u></b></p> <p>90 days.</p>	<p><b>10.1</b> of Instructions to Tenderers</p>
<p><b><u>Period of Completion: -</u></b></p> <p>04 MONTHS</p>	<p><b>74.0</b> of Special Conditions of Contract</p>

**DETAILS OF SIMILAR WORKS COMPLETED IN LAST SEVEN YEARS**

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

**ANNUAL TURNOVERS FOR THE LAST THREE YEARS**

<b>S. No.</b>	<b>YEAR</b>	<b>Turnover from Civil Engineering works (In lacs of Rs)</b>	<b>Turnover from all sources (In lacs of Rs)</b>	<b>Remarks</b>
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.

**DETAILS OF SKILLED AND TRAINED MANPOWER INCLUDING ELECTRICAL /  
ELECTRONICS AND TECHNICAL STAFF PRESENTLY EMPLOYED**

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

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

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	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										

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**SPECIAL CONDITIONS OF CONTRACT**

IRCON

25/51

SIGNATURE OF TENDERER

## **SPECIAL CONDITIONS OF CONTRACT**

### **PREFACE:**

The Conditions of Contract shall be General Conditions of Contract (herein after called the General Conditions) as modified and added to by the following Special Conditions of the Contract, which shall be read and construed with the General Conditions as if they were incorporated therewith. A copy of IRCON's General Conditions of Contract is available in IRCON's office. Interested bidders may take the same by depositing Rs.500/- in cash or DD in favour of IRCON INTERNATIONAL LTD. & Payable at Dhule towards cost of GCC.

In so far as any of the conditions of Special Conditions of the Contract conflict or be inconsistent with any of the General Conditions, the Special Conditions shall prevail.

### **ORDER OF PROIORITY OF CONTRACT DOCUMENTS**

Where there is any conflict between the various documents in the contract, the following order of priority shall be followed i.e. a document appearing earlier shall override the document appearing subsequently:

1. Agreement
2. Letter of Acceptance.
3. Addendum (s) / Corrigendum (s), if any
4. Notice Inviting Tender
5. Instruction to Tenderer
6. Appendix to Tender
7. Form of Bid
8. Special Conditions of the Contract
9. General Conditions of the Contract
10. Technical Specification
11. Drawings
12. Bill of Quantities

### **1.0 DEFINITIONS**

Add the following terms and expressions used herein shall have the meaning as indicated below:

**Contractor** - Shall mean by any individual, partnership and H.U.F. firm, Company or Corporation whether incorporated or otherwise to whom this purchase order is addressed and shall include its successors and permitted assigns.

**Engineer / Owner** - Shall mean Ircon International Limited, Dhule incorporated in India under the companies Act 1956, having its registered office at Plot No. C-4, District Centre, Saket, New Delhi - 110 017 shall include its successors and assigns.

## **16.0 Commencement of Works**

### **Add the following**

- 16.1** The site for execution of works shall be made available as soon as the work is awarded. In case, it is not possible for the Engineer to make the entire site available due to occupation or any other reasons on award of the work, the Engineer gradually in parts shall make the land available. The Contractor shall have to arrange his work programme accordingly.

## **46.0 REMOVAL OF IMPROPER MATERIALS AND WORKS**

### **Add the following**

- 46.1** If on delivery at site, whether inspected and approved earlier or not, the material are not found in conformity with the specifications, the same shall be rejected by Engineer or his duly authorised representative and notify the same in writing to the contractor as expeditiously as possible to remove the plants from site.

## **49.0 DELAY AND EXTENSION OF CONTRACT PERIOD**

### **Add the following**

- 49.9** The site for execution of works shall be made available as soon as the work is awarded. In case, it is not possible for the Engineer to make the entire site available due to any reason, the land shall be made available by the Engineer gradually in parts. The Contractor shall have to adjust his work programme accordingly. No claim whatsoever for not giving the site on award of works and for giving the site in parts shall be tenable except for the purpose of extension of time, where justified.

## **61.0 MEASUREMENTS OF WORK AND PAYMENTS**

### **Add the following**

- 61.4** On any ground whatsoever may be, no mobilisation advance payment is payable under this contract.
- 61.6** The rate quoted by successful tenderer and accepted by IRCON is inclusive of all the cost towards supply and installation of poles including the cost of foundation, supply and laying of cables including the cost of trenching, protection, testing, commissioning, octroi etc. etc.

## **64.0 MODE OF PAYMENT AND TAX DEDUCTION AT SOURCE**

### **Add the following**

- 64.3** In connection with the levy of taxes & duties, it is clarified that all rates quoted by contractor shall be inclusive of all taxes and duties and the like, leviable under the local / central sales tax act. IRCON shall have no liability on this account whatsoever. Further tax shall be deducted at source as per the Maharashtra trade tax act / Income tax act / Service Tax as per rates applicable.

The contractor may also mention VAT / CST / Local Sales Tax / Service Tax registration Number in the State. Actual percentage of Sales Tax (local or Central or both) of any description whatsoever applicable at the time of bidding shall be spelt out separately which is included in the price quoted. Statutory increase/decrease in the taxes/levies due to Government notification after the date of submission of bid shall be considered for reimbursement/recovery as may applicable on actual basis on production of Government notification by the bidder.

## **65.0 COMPLETION CERTIFICATE**

### **65.3 Add the following**

The successful bidder shall handover the completed works to Client/Employer/Engineer/Concessionaire as per the directives of the Engineer in Charge including all assets subject to satisfactory completion, testing and commissioning of the system. The handing over process shall documents containing list of all assets, fixtures etc. supplied and installed at site as per the directives of the Engineer in Charge.

## **73.0 PRICE ESCALATION**

No price adjustment shall be applicable and the rates as per the accepted Bill of Quantities shall remain firm and hold good till the completion of works in all respect. No additional claim or amount shall be admissible on account of any fluctuations in market rates, increase in taxes, levies, fees, royalties etc. However any statutory variation in and or fresh imposition of such levies / taxes relevant to this contract shall be reimbursed by the employer after submission of documentary evidence by the contractor and verification of the same by the Engineer.

## **74.0 COMPLETION SCHEDULE**

The work is required to be completed within a period 04 months.

## **75.0 Defect Liability Period**

The Contractor shall be responsible for removing all the defects during the defect liability period which is 12 (Twelve) months from the date of certification completion of the works. The contractor shall be responsible for removing all defects of the assets during defect liability period and routine maintenance including replacement of defective parts etc. In case of failure of the contractor to do so within the period notified in the defect notice given by Client/ Engineer, the same shall get rectified / replaced at the risk and cost of the contractor.

## **76.0 Drawing**

The contractor has to provide and get approved from IRCON, the technical / working drawings of the proposed bus shelter including foundation works, development plan of surrounding areas etc. prior to commencement of any work.

## **77.0 SIGNING OF CONTRACT**

The successful tenderer shall sign the contract agreement, within 30 days after receipt of letter of acceptance from IRCON as per the format enclosed with the tender. The successful tenderer shall furnish non-judicial stamp paper of Rs.100/- for drawl of agreement.

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**TECHNICAL SPECIFICATIONS**

IRCON

29/51

SIGNATURE OF TENDERER

N.B. Section & clause of MoRTH Specifications of this "Particular Technical Specification" shall be applicable only for the relevant BOQ Items under the scope of this contract.

Sl. No.	Section No.	Section Title	Clause
1	100	General	102, 105, 107,108, 109, 110, 112, 115,121, 123, 124
2	200	Site Clearance	201,202
3	300	Earthwork, Erosion and Control Drainage	301, 304, 305, 306
4	400	Sub-bases, bases (non bituminous) and shoulders	401,406,407,409
5	500	Surface Course (Bituminous)	501, 503, 507, 509, 512
6	600	Concrete Pavement	601,602
7	800	Traffic Signs, markings and other road appurtenants	801
9	900	Quality Control for road works	901,903
10	1000	Material for structures	1006, 1007, 1009, 1010, 1012, 1014
11	1100	Pile Foundation	1101, 1103, 1104, 1107, 1113, 1115, 1118, 1119
12	1500	Formwork	1502, 1503, 1509, 1513
13	1700	Structural Concrete	1703, 1704, 1705, 1706, 1707, 1709, 1712, 1713, 1715
14	1800	Prestressing	1802, 1803, 1804, 1806, 1807, 1808
15	2000	Bearings	2001, 2004, 2005, 2006, 2009
16	2100	Open Foundation	2106
17	2200	Sub structure	2204
18	2500	River training work and protection work	2504
19	2600	Expansion Joint	2608,2609
20	2800	Repair of structure	2814
21	3000	Maintenance of Road	3004,3007
22	3100	Reinforced Earth	3101,3102,3104,30106,3107

## **1. PREAMBLE**

1.1 The Technical Specifications contained herein shall be read in conjunction with the other Bidding Documents. The words Engineer & MORT&H whenever used in the specifications shall mean Supervision Consultant and National Highways Authority of India. The word Contractor, wherever, used, shall mean the Bidder.

### **1.1.1 General**

The Technical specifications covering the materials and workmanship as well as method of measurement and payment are included herein. The work shall be executed in accordance with good practice for achieving high standards of workmanship, safety and durability of the structure. All codes, standards and specifications referred to in these specifications shall be the latest Editions as available to public 30 days before the date of receipt of bids, unless otherwise stated.

### **1.1.2 Inclusive Documents**

The provisions of general/special conditions of contract, and others specified elsewhere in the tender document, as well as execution drawings and notes, or other specifications issued in writing by the Engineer shall form part of the technical specifications of this project.

### **1.1.3 Measurement and Payment**

Should there be any detail of construction or materials which has not been referred to in the Specification or in the Bill of Quantities and Drawings, but the necessity for which may be implied or inferred therefrom, or which is usual or essential to the completion of the work, the same shall be deemed to be included in the rates and prices entered by the contractor in the Bill of Quantities for related items.

### **1.1.4 Defective Works**

All defective works are liable to be demolished, rebuilt and defective materials replaced by the contractor at his own cost, as directed by Engineer.

### **1.1.5 General Scope of Work**

- All aspects of quality control and quality assurance of Works including documentation.
- Providing measures for prevention or mitigation of negative environmental impacts due to construction activities.
- Handing over of the works on completion after due site clearance
- Submission of as built drawings and other related documents;
- Rectification of the defects in the completed works during the defect liability period;
- Execution of any other item of work for the construction and completion of the Works in accordance with the provisions of Contract including all incidental items as well as preparation and submittal of reports, plans as required.
- During the period of the contract the right of way and all existing roads shall be kept open for traffic and well maintained in a safe and usable condition.

Residents along and adjacent to the works are to be provided with safe convenient access to their properties at all times. Traffic control and traffic diversions shall be provided as necessary to protect the works and maintenance will be carried out as directed by the Engineer and provided in the contract.

## **1.2 SITE INFORMATION**

### **1.2.1 Traffic**

The highway is heavily trafficked. Maintenance of highway and construction traffic shall be given due importance and requisite facilities shall be provided

### **1.2.2 Land for Contractor's Facilities**

The Employer shall provide the right of way of the road works and other appurtenant works to the Contractor. However, the Contractor shall have to make his own arrangements for the land required by him for borrow areas, quarries, site offices, testing labs, labour camps, stores, plants, etc.

## **2. GENERAL REQUIREMENTS**

The Technical Specifications in accordance with which the entire work described hereinafter shall be constructed and completed by the Contractor shall comprise of the following:

### **2.1 PART-I: General Technical Specifications**

The General Technical Specifications shall be the "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS (FOURTH REVISION, Reprint August 2001)", as corrected in the original issued by the Ministry of Surface Transport (Roads Wing), Government of India and published by the Indian Roads Congress.

### **2.2 PART-II: Particular Technical Specifications**

The Supplementary Technical Specifications shall comprise of various Amendments/Modifications/ Additions to the "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" referred to in general technical Specifications above and Additional Specifications for particular item of works not already covered in General Technical Specifications.

2.2.1 A particular clause or a part thereof in "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS (FOURTH REVISION, Reprint August 2001)" referred in PART-I above, where Amended/ Modified/Added upon, and incorporated in PART-II, referred to above, such Amendment/Modification/Addition supersedes the relevant Clause or part of the Clause.

2.2.2 When an Amended/Modified/Added Clause supersedes a Clause or part thereof in the said Specifications, then any reference to the superseded Clause shall be deemed to refer to the Amended/Modified/Added Clause or part thereof.

2.2.3 In so far as Amended/Modified/Added Clause may come in conflict or be inconsistent with any of the provisions of the said Specifications under reference, the Amended/Modified/ Added Clause shall always prevail.

2.2.4 The following Clauses in the "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS (FORTH REVISION, Reprint of August 2001)" have been amended/modified/added upon. 102, 105, 107,108, 109, 110, 112, 115,121, 123, 124, 201, 202, 301, 304, 305, 306, 401, 406, 407, 409, 501, 503, 507, 509, 512, 601, 602, 801, 901, 903, 1006, 1007, 1009, 1010, 1012, 1014, 1101, 1103, 1104, 1107, 1113, 1115, 1118, 1119, 1203, 1502, 1503, 1509, 1513, 1703, 1704, 1705, 1706, 1707, 1709, 1712, 1713, 1715, 1802, 1803, 1804, 1806,1807, 1808, 2001, 2004, 2005, 2006, 2009, 2106, 2204, 2504, 2608, 2609, 2702, 2706, 2814, 3004, 3007, 3101, 3102, 3104, 3106, 3107.

2.2.5 In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest codes and specifications of IRC and BIS in that order. Where even these are silent, the construction and completion of the works shall conform to sound engineering practice as approved by the Engineer and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor.

#### 2.2.6 Warranty

For items requiring provision of warranty/guarantee by the bidder regarding structural/ technical adequacy conformance to laid down specifications of the item extending much beyond the period of completion of the project, the contractor shall provide warranty/guarantee jointly with the manufacturer stating that both shall be jointly and severally responsible for repair/replacement of the item free of cost during the warranty/guarantee period as required.

**AMENDMENTS / MODIFICATIONS / ADDITIONS TO EXISTING CLAUSES OF  
GENERAL TECHNICAL SPECIFICATIONS**

**Clause 102 DEFINITIONS**

The following abbreviations shall be added in this Clause:

"MORT&H" : Ministry of Road Transport & Highways.

"NHAI" : National Highways Authority of India.

**Clause 105.5 Add the following as Clause 105.5**

Contractor shall take all steps to minimise the negative impact of construction operations on environment as directed by Engineer.

**Clause 107 CONTRACT DRAWINGS**

**Clause 107.1 Add the following after the end of para**

After careful study of the drawings issued by the employer the contractor shall prepare where necessary all supplementary drawings and fabrication drawings with field/construction information and shall submit the same to the Engineer for approval prior to construction.

**Clause 108 SITE INFORMATION**

**Clause 108.4 This Clause shall read as follows:**

The Contractor shall identify quarries, borrow areas and other sources of materials required for the work. He shall satisfy himself that the required materials are available in adequate quantities and complying with the requirements of specifications. No claims shall be entertained on account of non-availability of materials, and increase in leads.

**Clause 305 EMBANKMENT CONSTRUCTION**

**Clause 305.2.1.6 Add new sub clause.**

"Materials used as subgrade in embankment shall have a 4 day minimum soaked CBR value as stated in BOQ item/drawing notes.

**Clause 305.2.2.2 Borrow materials**

Para 1 of this Clause shall read as under:

"No borrow area shall be made available by the Employer for this work. The arrangement for the source of supply of the material for embankment and subgrade as well as compliance to the different environmental requirements in respect of excavation and borrow areas as stipulated, from time to time, by the Ministry of Environmental and Forest, Government of India and the local bodies, as applicable shall be the sole responsibility of the Contractor."

The Table 300-2 shall read as under:

**Table 300-2  
Compaction requirements for embankment and subgrade**

Sl. No.	Type of Work / Material	Relative compaction as %age of maximum laboratory dry density as per IS:2720 (Part 8)
1	Subgrade and earthen shoulders	Not less than 97
2	Embankment a) Up to 6 m height b) exceeding 6 m height	Not less than 95 Not less than 97
3	Expansive clays a) Subgrade and 500 mm portion just below the subgrade b) Remaining portion of embankment	Not Allowed Not less than 90

**Clause 305.3 Construction Operations**

**Clause 305.3.4 Compacting ground supporting embankment/subgrade**

Para 1 of this clause shall read as under:-

Where necessary, the original ground shall be levelled, mixed with water and then compacted by rolling to facilitate placement of 1s t layer embankment and its compaction in accordance with the requirement as given in table 300.2.

Add the following sentence at the end of para 2.

"Where necessary to facilitate compaction of the subgrade to 97% relative compaction as stated above, a further depth of maximum of 0.20 meter thickness shall be loosened, watered and compacted in accordance with Clause 305.3.5 and 305.3.6 to not less than 95% of maximum dry density, determined in accordance with IS:2720 (Part I)."

**Clause 305.3.6 Compaction**

Insert in 3r d line of second para of this clause:

"Vibratory Roller of not less than 8-10 T static weight with plain or pad foot drum or pneumatic tyre roller of 15-30 T weight having tyre pressure of at least 7 kg/sq.cm. shall be used for compaction."

**Clause 305.4.3 Earth work over existing road surface**

Replace item (i) with:

"If the existing road surface is of a bituminous type and lies less than 500mm below formation level, the same shall be scarified to a depth of 50mm below the underside of the bitumen, or more if specified, so as to provide an ample bond between the old and new material. Where the existing road surface is more than 500mm below formation level, the existing surface shall be prepared for overlay in accordance with Clause 401.4.1"

**Clause 305.9.1** Insert "including removal of top soil after word 'materials' appearing in first line of item (v)."

**Clause 305.9.6** Read "5000 m" in place of "1000 m" in the last sentence.

**Clause 306 SOIL EROSION AND SEDIMENTATION CONTROL**

**Clause 306.4 Measurement for payment**

Substitute Clause 306.4 as follows:

"All temporary sedimentation and pollution control works shall be deemed as incidental to the earthwork and other items of work and as such no separate payment shall be made for the same."

**Clause 903 QUALITY CONTROL TESTS DURING CONSTRUCTION**

**Clause 1006 CEMENT**

The first para of this Clause shall read as under:

Add the following at the end of the clause:

Manufacturer's test certificate shall be submitted to the Engineer by the Contractor for every consignment of cement. The certificate should cover all the tests for chemical requirements, physical requirements and chloride content as per the provisions of IS:12269.

Independent tests of samples drawn from the consignment shall be carried out at the site laboratory or in an independent laboratory approved by the Engineer, immediately after delivery. The following properties shall be tested.

- i) Setting Time
- ii) Compressive Strength

The cost of the tests shall be borne by the Contractor. In case the cement is stored beyond 90 days from the date of delivery at site, the following tests shall be carried out at the site laboratory before the cement is used.

- i) Setting Time
- ii) Compressive strength.

Lot size for independent testing of cement at site shall be the quantity received at site on any day subject to a maximum of 500 t.

"Cement to be used in the works, shall be any of the following with the prior approval of the 'Engineer':

- a) Ordinary Portland Cement 33 grade conforming to IS:269.
- b) Ordinary Portland Cement 43 grade, conforming to IS:8112.
- c) Ordinary Portland Cement 53 grade, conforming to IS:12269.

**For bridge, however, cement at sub-para 'C' shall be use.**

**Clause 1007 COARSE AGGREGATES**

(i) Delete from the first sentence "crushed gravel..... inert material" appearing in 4th and 5th line.

(ii) Add the following at the end of the Clause:

"Primary and secondary stone crusher should be employed for getting proper size and grading of coarse aggregates."

**Clause 1009 STEEL**

**Clause 1009.3 Reinforcement/ Untensioned steel**

**Substitute table 1000-3 by the following:**

Single grade of bar Grade S 415 conforming IS :1786 shall only be permitted to use. No surface coating process (Fusion bonded epoxy coating, CECRI coating or any other) shall be employed. Delete the last two paras.

**Clause 1010 WATER**

In para (C) the permissible limit for Chlorides (C1) shall be read as "250 mg/lit for structures having length more than or equal to 30 m."

**Clause 1014 STORAGE OF MATERIALS**

**Clause 1014.3 Aggregates**

The following shall be added to this Clause:

"Aggregates shall be stored or stockpiled in such a manner that segregation of fine and coarse sizes will be avoided and also that the various sizes will not become intermixed before proportioning. They shall be stored, stockpiled and handled in such a manner that will prevent contamination by foreign materials."

**Clause 1502 MATERIALS**

This Clause shall read as under:

"All materials shall comply with the requirements of IRC-87.

Material and components used for formwork shall be examined for damage or excessive deterioration before use/reuse and shall be used if found suitable after necessary repair.

Only steel form work shall be used. The steel used for forms shall be of such thickness that the forms remain true to shape. All bolts should be countersunk. The use of approved internal steel ties or plastic spacers shall be permitted. Structural steel tubes used as support for forms shall have a minimum wall thickness of 4 mm."

**Clause 1503 DESIGN OF FORMWORK**

**Clause 1503.2 The following shall be added to this Clause**

"For distribution of load and load transfer to the ground through staging, an appropriately designed base plate must be provided which shall rest on firm substratum".

**Clause 1509 RE-USE OF FORMWORK**

This Clause shall read as under:

"After forms are stripped, all materials to be reused shall be thoroughly cleaned. Holes bored through sheathing for form ties shall be plugged by driving in common corks or foamed plastics. Patching plaster may also be used to fill small holes. After cleaning and before refixing, each formwork shall be got approved from the Engineer.

Formwork and staging shall be so used so as to maintain quality of the exposed surface. However, if in the opinion of the Engineer, any particular panel/member has become unsatisfactory for use at any stage, the same will be rejected.

All bent steel props shall be straightened before reuse. The maximum deviation from straightness is 1/600 of length. The maximum permissible axial loads in used props shall be suitably reduced depending upon their condition.

**Clause 1513 RATE**

Add the following at the end of the first para:

"The unit rate shall also include all costs for preparation of erection scheme, designs of falsework and formwork and their approval."

**Clause 1703 GRADES OF CONCRETE**

Add the following at the end of this Clause.

The concrete mixes leaner than M15 shall be called as nominal mix concrete. "Nominal mix concrete is that concrete for which, concrete is not to be designed by tests and in which the proportions of materials are in accordance with the drawing and the specification clause mentioned below:

- i) All the materials for this concrete shall conform to section 1000 of MOST.
- ii) Minimum cement content and maximum water cement ratio for above said nominal mix concrete shall conform to clause 1703.2 Table 1700-3(A) of MOST.
- iii) Mixing of above said nominal mix concrete shall conform to Clause 1708 of MOST.

iv) Transporting, Placing and Compaction of above said nominal mix concrete shall conform to clause 1709 of MOST"

**Clause 1704    PROPORTIONING OF CONCRETE**

Add the following at the end of this Clause.

"In proportioning concrete, the quantity of both cement and aggregate shall be determined by weight. Where the weight of cement is determined by accepting the manufacturer's weight per bag, a reasonable number of bags shall be weighed separately to check the net weight. Where cement is weighed from bulk stock at site and not by bag, it shall be weighed separately from the aggregates. Water shall either be measured by volume in calibrated tanks or weighed. All measuring equipment shall be maintained in a clean, and serviceable condition. Their accuracy shall be periodically checked".

"It is most important to keep the specified water- cement ratio constant and at its correct value. To this end, moisture content in both fine and coarse aggregates shall be determined as frequently as possible, frequency for a given job being determined by the Engineer according to the weather conditions. The amount of mixing water shall then be adjusted to compensate for variations in the moisture content. For the determination of moisture content in the aggregates, IS:2386 (Part III) shall be referred to. Suitable adjustments shall also be made in the weight of aggregates to allow for the variation in weight of aggregates due to variation in their moisture content".

**Clause 1704.4    Additional requirement**

"Design mix concrete is only permitted to be used in structural element for this project."

In para (a) substitute "0.06%" for "0.1%", "0.06%" for "0.2%"; and : 0.1%" for "0.3% for the three items respectively.

**Clause 1704.6    Add the following as clause 1704.6**

Materials for pumped concrete:

Materials for pumped concrete shall be batched consistently and uniformly. Maximum size of aggregate shall not exceed one-third of the internal diameter of the pipe.

Grading of aggregate shall be continuous and shall have sufficient ultra fine materials (materials finer than 0.25 mm). Proportion of fine aggregates passing through 0.25mm shall be between 15 and 30% and that passing through 0.125 mm sieve shall not be less than 5% of the total volume of aggregate. Admixtures to increase workability can be added. When pumping long distances and in hot weather set retarding admixtures can be used. Fluid mixes can be pumped satisfactorily after adding plasticisers and super plasticisers. Suitability of concrete shall be verified by trial mixes and by performing pumping test.

**Clause 1705    ADMIXTURES**

This Clause shall read as under:

"Duly tested admixtures/additives conforming to IS:6925 and IS:9103 (without replacement of cement) may be used subject to satisfactory proven use, with the approval of the Engineer. Admixtures generating Hydrogen or Nitrogen and containing chlorides, nitrates, sulphides, sulphates and any other material liable to affect the steel or concrete shall not be permitted" "The general requirements, physical and chemical requirements shall be as per Clause 1012."

**Clause 1706 SIZE OF COARSE AGGREGATE**

Table 1700-7 in this clause shall read as under:

Sl.No.	Components	Max. size of nominal aggregate (mm)
i)	RCC in pile cap, solid type piers & abutments	40
ii)	RCC work in girders, slabs, kerb, approach slab, piers and abutments, pier/abutment caps, piles	20
iii)	RCC work in wearing coat and handrails	12.5
iv)	PSC work	20
v)	Any other work	As specified or as direct by the Engineer

**Clause 1707 EQUIPMENT**

Para 1 of this Clause shall read as under:

"Unless specified otherwise, equipment for production, transportation and compaction of concrete shall be as under":

a) For production of concrete

i) "Batching and mixing of the concrete shall be done in a concrete batching and mixing plant fully automatic with a minimum capacity of 15 cum. per hour. The plant shall be approved by the Engineer".

ii) In special cases, for culverts, the Engineer may allow mixing of concrete by a diesel or electrically operated mechanical mixer with integrated weigh batching facility having a capacity of 500 litres and automatic water measuring system."

Para 3 of this clause shall read as under:

Measurement of cement  $\pm$  3 percent of quantity of cement in each batch

Measurement of water  $\pm$  3 percent of quantity of water in each batch

Measurement of aggregate  $\pm$  3 percent of quantity of aggregate in each batch

Measurement of admixture  $\pm 3$  percent of quantity of admixture in each batch.

**Clause 1713 PROTECTION AND CURING**

**Clause 1713.1 Water Curing**

Add the following at the end of para I.

"Wherever possible, use of water sprinklers or perforated pipes should be encouraged for curing of concrete. Such arrangement must be maintained for a minimum period of 14 days after concreting."

"Approved concrete curing compounds should be preferred where water curing cannot be done reliably".

**Clause 1715 TOLERANCES**

**Add following sub clause**

**Clause 1715.1 Sectional Dimensions**

Add the following as the second sentence of the Clause:

"In the absence of any information in drawings or specifications, for particular cases, the following limitations shall apply.

<b>Dimension (mm) "a"</b>	<b>Tolerances (mm) " a=(anomi n al - aac tu al)'</b>
a < 200 200 < a < 2000 2000 < a	a   < 5   a   < 3.5 + 0.0075a   da   < 16.5 + 0.001a

**Clause 1715.2 Deviations from Position, etc.**

- a) Deviation from specified position in plan  $\pm 10$  mm
- b) Variation in levels at top  $\pm 10$  mm
- c) Variation of reduced levels of bearing areas  $\pm 5$  mm
- d) Variation in plumb over full height of piers  $\pm 10$  mm
- e) Surface irregularities measured with 3 m straight edge
- i) all surfaces except bearing areas  $\pm 5$  mm
- ii) bearing areas  $\pm 3$  mm
- f) Variation in length of superstructure - overall and length between bearings  $\pm 10$  mm or + 0.1% of the length, whichever is lesser

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**VARIOUS FORMS AND FORMATS**

IRCON

42/51

SIGNATURE OF TENDERER

## CONTENTS

1. Declaration
2. Statement of Deviation
3. Performa of Letter of undertaking (Form of Bid)

**Note: Tenderers should submit all the requisite details in the above proforma.**

**DECLARATION**

Ref:

Dated:

From: -

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To,

The Joint General Manager,  
IRCON INTERNATIONAL LTD.,  
67, Abhay Nagar, Rag Rang Colony,  
Dhule - 424001, Dist. Dhule (Maharashtra)  
Tel. No.: (0262) 234767, Fax No.: (02562) 235867

Dear Sir,

This has reference to your above referred, tender. We declare that we are fully qualified to execute the above work. We further declare that we have brought out all our deviations to the conditions of contacts stipulated in your tender documents in the "Statement of Deviations" indicating therein the cost of withdrawing the conditions in case you require us to do so. We also declare that the maximum liability to you for such withdrawal will be limited to the amounts mentioned against each deviation separately.

It is understood that the deviations to the conditions of the tender documents as have been brought out in above referred Statement of Deviations are exhaustive.

We agree and declare that irrespective of whatever has been stated elsewhere in the tender documents only those deviations that have been specifically brought out in Statement of Deviations will hold good.

Thanking You,

Your Faithfully,

SIGNATURE,  
NAME (IN CAPITAL)  
DESIGNATION  
DATE:  
SEAL :

(To be duly stamped and signed and submitted with the tender.)

**STATEMENT OF DEVIATION**

To,	Tenderers' Name & Address
The Joint General Manager, IRCON INTERNATIONAL LTD.,	_____
67, Abhay Nagar, Rag Rang Colony, Dhule- 424001, Dist. Dhule	_____
(Maharashtra) Tel. No.: (0262) 234767, Fax No.: (02562) 235867	_____
	_____
	_____

Dear Sirs,

Irrespective of whatsoever has been stated to the contrary anywhere else in our offer, only following are the deviations and variations form and exception to the specifications and Tender documents for the above mentioned subject work. These deviations and variations are exhaustive. Except for those deviations the entire work shall be performed as per your specifications and tender documents. Further, we agree that additional conditions, if any found in our offer than those stated below, save that pertaining to any rebates offered,

Date and Postal Address_	Signature along with seal of CO.
_____	_____
_____	
_____	Duly authorized to sign the tender on behalf of
_____	the tenderer

Telegraphic Address: ____	Name:_____
_____	Designation _____
Telex No. _____	Name of Company _____
	(In Block Letter)
Telex No. _____	

**PROFORMA OF LETTER OF UNDERTAKING (FORM OF BID)**

(This Appendix forms part of the Tender. Tenderers are required to fill up all the blanks in the form of Tender and Appendix thereto)

To:

The Joint General Manager,  
IRCON INTERNATIONAL LTD.,  
67, Abhay Nagar, Rag Rang Colony,  
Dhule - 424001, Dist. Dhule (Maharashtra)  
Tel. No.: (0262) 234767, Fax No.: (02562) 235867

Description of Works: -       **Construction of Bus Shelter**

Dear Sir,

1.     Having examined the Tender documents including your letters of Instructions to Tenderer, General Terms & Conditions, Special Terms & Condition, Schedule of rates, including Specifications, and other Schedules and Annexure for the execution of the above named Works, we, the undersigned, offer therein in conformity with the said Tender Documents for the sum of Indian Rs. \_\_\_\_\_  
(Rupees \_\_\_\_\_ or  
such other sum as may be ascertained in accordance with the said Tender Documents.
2.     We undertake, if our Tender is accepted, to commence the work within seven days of issue of purchase order, and to complete and deliver the whole of the works comprised in the Contract within the periods stated in the Appendix hereto.
3.     If our Tender is accepted we will furnish a performance security in the form of bank guarantee to be jointly and severally bound on us, in accordance with the Conditions of Contract.
4.     I / we undertake to keep our offer valid for the period of ninety (90) days from the date of Tender Opening, as prescribed in Clause 10.1 of the Instruction to Tenderers, I / we hereby further undertake that during the said period I / we shall not vary / alter or revoke my / our tender during the validity period of the tender.
5.     Unless and until and Agreement is prepared and executed. This Tender, together with or written acceptance thereof, shall constitute a binding Contract between us, but without prejudice to your right to withdraw such acceptance under the provision of this tenderer.
6.     We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_ Signature  
\_\_\_\_\_ in the capacity  
of \_\_\_\_\_ duly authorized \*\* to sign Tender for  
and on behalf of  
\_\_\_\_\_

\_\_\_\_\_  
(in block capitals)

**Address**

\_\_\_\_\_  
Name of Witness \_\_\_\_\_

\_\_\_\_\_  
Signature of Witness \_\_\_\_\_

Encl: Appendix to Tender

\*\* Signature along with seal of Company  
(Duly authorized to sign the tender on  
behalf of the tenderer)

Res. \_\_\_\_\_

Name \_\_\_\_\_

(Rs. \_\_\_\_\_)

Designation \_\_\_\_\_

(Amount in Fig.)

Name of Co.

in block letters

Date and Postal address.

Witness \_\_\_\_\_

Telegraph Address

Signature \_\_\_\_\_

Date \_\_\_\_\_

Telex No. \_\_\_\_\_

Fax No. \_\_\_\_\_

Telex No. \_\_\_\_\_

Strike out which ever is not applicable.

\*\*Certified copy of Power of Attorney / authorization for signature shall be furnished by the Contractor, in accordance with instructions to Tenderers.

# **FINANCIAL BID**

**(PART II)**

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## **SCHEDULE OF RATES AND QUANTITIES**

**SCHEDULE-"A"**

**IRCON INTERNATIONAL LIMITED**

**PIMPALGAON DHULE BOT ROAD PROJECT**

NAME OF WORK: **Signalisation of Junctions for Pimpalgaon Dhule BOT Road Project**

**BILL OF QUANTITIES**

ITEM NO.	Description	UNIT	QTY.	FOR 1 (ONE) BUS SHELTER	
				RATE	AMOUNT
1	<b>Excavation for foundation</b> in hard murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and shuttering etc. complete	cum	5.18	63.80	330.48
2	Providing and laying in situ cement concrete of <b>M:20</b> grade of trap/granite/quartzite/ gneiss metal for R.C.C. work in foundations like raft, grillages, strips, foundations and footings of R.C.C. columns and steel stanchions including bailing-out water manually, formwork, compacting, covering newly laid concrete by gunny bag, plastic or tarpaulin, curing and roughening the surface if special finish is to be provided (Excluding reinforcement & structural steel) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only as directed by engineer in charge.	cum	2.58	2893.00	7463.94
3	Providing and fixing in position <b>TMT reinforcement</b> of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams, columns, canopies, staircase, newels, chajjas, lintels, piers, copings, fins, arches etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete as directed by engineer in charge	MT	0.08	38720.00	3097.60
4.a	<b>Fabricating &amp; Providing</b> at site of work or at designated locations the Tubular / Rectangular steel structure of standard size as per standard design and specification inclusive of cost of steel tubular/rectangular hollow trusses of, tubular columns, purlins, tie runners, foundation bolts, baseplates, nuts and bolts, welding where ever required etc.	MT	1.08	56745.60	61285.25

	as per detailed drawing inclusive of one coat of anticorrosive paint and over it 2 Coats of oil painting of approved quality and shade complete or as directed by engineer in charge				
4.b	<b>Erecting</b> at site of work the Tubular / Rectangular steel structure of standard size as per standard design and specification etc. complete including transportation from designated location to site or as directed by engineer in charge	MT	1.08	7700.40	8316.43
5	Providing and Fixing <b>M.S. Prepainted Corrugated Sheets for roofing</b> , of approved quality & colour in required position & height, Of 0.5 mm thick size, including cutting, bending, providing and fixing all fixtures & fastenings etc. complete as directed by engineer in charge.	sqm	29.84	1240.00	37001.60
6	Providing and Fixing 60 mm thick factory made, hydraulically pressed, mechanically vibrated and compacted inter-locking <b>cement concrete paving blocks</b> in M-10 grade of approved size and shape as specified, 50 mm in gray cement and top surface 10 mm in white cement with coloured pigment including cost of all materials, manufacturing, curing transportation of blocks to work-site including loading, unloading and stacking as directed, laying paving blocks in position over prepared bed of sand of 50 mm thickness including necessary excavation in all stratas, spreading blindage of fine sand over the prepared bed, compacting blocks by plate vibrator etc. complete as directed by engineer in charge	sqm	328.61	570.00	187307.70
7	<b>Earthwork for subgrade</b> and shoulder by using mechanical means with approved material obtained from borrow areas outside ROW with all leads and lifts etc. complete as directed by engineer in charge	cum	89.65	135.00	12102.75
8	<b>Earthwork for embankment</b> by using mechanical means with approved material obtained from borrow areas outside ROW with all leads and lifts etc. complete as directed by engineer in charge	cum	448.26	121.46	54445.66

9	Providing and laying in situ, cement concrete <b>M-15</b> /1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing-out water manually, formwork, compacting, covering newly laid concrete by gunny bag, plastic or tarpaulin, curing etc. complete. as directed by engineer in charge	cum	19.72	2818.75	55585.75
10	Construction of <b>cement concrete kerb</b> with top & bottom width 115 and 165 mm respectively & 250 mm high above road top; a depth of 125 mm & width of 165mm below road top in M20 grade concrete laid as per clause 408 or as directed by Engineer in charge	Rm	224.25	234.81	52656.14
		<b>Sub Total ( Rs ) FOR 1 BUS SHELTER</b>			<b>479,593.31</b>

<b>Sub Total ( Rs ) FOR 10 BUS SHELTERS</b>	<b>4,795,933.10</b>
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**I/We offer the rates \* .....% (.....%age) above / at par / below (strikeout which is not applicable) on the rates printed in the Bill of Quantities.**

**TOTAL QUOTED COST :**  
**Rs.** \_\_\_\_\_

\* %age rates to be quoted in both figures and words.