



Projects & Development India Limited

(A Govt. of India Undertaking)

Post Box No.125, A-14, Sector-1, Noida – 201301,

Dist. Gautam budh Nagar , Uttar Pradesh

Phone - 0120-2529842/43/47/51/53/54

Fax - 01202529801/2541493

GSTIN No: 09AABCP1722G1ZP

CIN:U74140UP1978GO1028629

INVITATION TO BID

To :	ITB Number	11/PNMM/E/4805/2021-2022/101263
Open Vendor	Type of Bid	Two Part
	Type of Opening	Public Opening
	Date of Issue	25.02.2021
	Bid Closing Date	04-03-2022 Time :05:00:00 PM
	Tech. Bid Opening Date	05-03-2022 Time : 05:00:00 PM
	Price Bid Opening Date & Time	Shall Be Intimated Later
	Venue of Bid Opening	PDIL NOIDA
	Earnest money Deposit	Rs 6250/-
	Delivery/Completion Period	4 weeks
	Tenure/Periodicity of Contract	As per Clause 6.0 of Annexure III of ITB

Projects & Development India Limited (PDIL) is a Govt. of India Undertaking under the administrative control of the Dept. of Fertilizers, Ministry of Chemicals & Fertilizers. PDIL invites bid in sealed cover addressed to Addl. General Manager (MM), ITB reference no. and bid closing date & time duly super scribed on the cover for the under mentioned job, subject to the terms and conditions and scope of work attached here in.

Bidders are requested to on board themselves on GeM portal for participating in similar tenders in future.

SL. No.	Material/HSN Code/ SAC Code	Description	Quantity	Unit
10		Topographical Survey	1	AU

For & on behalf of
Projects & Development India Ltd.

(P. R. Sahu)
Addl. General Manager (MM)

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.

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ANNEXURE-I**PRE QUALIFICATION CRITERIA (PQC)**

The bidder should have satisfactorily completed similar works* during the last 07 (seven) years ending last day of the month previous to the one on which NIT is invited, which should be either of the following.

One similar completed work costing not less than the amount equal to INR 4,00,000/-

OR

Two similar completed works each costing not less than the amount equal to INR 2,50,000/-

OR

Three similar completed works each costing not less than the amount equal to INR 2,00,000/-

***Definition of Similar Work: Topographical / Contour Survey Work.**

To meet the above criteria, Bidder shall submit copies of the following documents duly signed and stamped by the bidding company:

1. Work Order(W.O)/Contract
2. Completion Certificate

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ANNEXURE – II

INSTRUCTION TO BIDDERS (e-PUBLISH)

1.0 A bidder who meets the Pre-Qualification Criteria as per ITB and intends to quote against this ITB may download the bidding document from PDIL website <http://pdilin.com> OR Central Public Procurement Portal <https://eprocure.gov.in/cppp> and submit the Bid complete in all respects as per terms & conditions of contract on or before the bid closing date and time.

2.0 Submission of Bids:

Bidders are required to submit their bids under two (02) envelopes as below:

Envelope A: Un-priced Technical and Commercial Bid along with the following documents (photocopies) shall be in this envelope:

- i. Documents in support of 'Pre-Qualification Criteria for Bidders' indicated in Annexure-I of ITB as per the requirement.
- ii. Complete ITB documents duly signed & stamped in each page with "Deviations"/ "Exception" sheet (if any) and all Annexure duly filled in.
- iii. **Price Confirmation Copy** - A copy of Priced offer keeping price blank (hiding the price) and in place indicating "Quoted" or "√", as a confirmation of price quoted against the enquired item and all applicable Taxes & Duties, shall be submitted.
- iv. Copy of Check List enclosed duly filled by the bidder making all the points clear and not leaving any voids.
- v. Photo copy of PAN card.
- vi. A Copy of GST registration certificate
- vii. Any other document as per the requirement specified in the ITB.

Envelope B: Price Bid

Price Schedule as per Annexure-V with quoted rates in Rs. and Taxes & Duties, as applicable, signed and stamped.

All the above envelopes should be super scribed with respective **Envelope no., ITB No. and closing date of the bid**. Both the (02) envelopes should be sealed and placed in a THIRD (03) envelope which should also be super scribed with our **ITB No. and closing date of the bid** and addressed to the under mentioned:

Addl. General Manager (MM)

Projects & Development India Limited

PDIL Bhawan, A-14, Sector 1,

Noida – 201 301, Gautam Budh Nagar (UP)

Tel: 0120-2529842/43/47/51/91 (Extn. 344, 115), Fax: 0120 – 2529801

e-mail: prsahu@pdilin.com; anjali@pdilin.com; sushilkumar@pdilin.com;

3.0 Opening of Bids

Bid opening will be Public. Envelope A only will be opened on Technical Bid Opening Date.

Price Bids (Envelope B) of only those bidders will be opened which will be considered technically and commercially acceptable.

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4.0 Evaluation of Bids

Bids shall be evaluated for Pre-Qualification Criteria (PQC) first and Techno-Commercial Bid Evaluation shall be carried out, only for those Bids which shall meet the Pre-Qualification Criteria (PQC).

Bids shall be scrutinized on Techno-Commercial parameters. Bids having unacceptable deviation may be rejected at this stage. However, clarifications may be sought from bidder for any shortcoming found in their Bid at this stage.

The PRICE BID shall be opened only of those bidders who will be technically and commercially suitable.

5.0 Price Evaluation Criteria

5.1 Price Evaluation of Bids shall be done considering the quoted prices by the bidder in the Price Schedule attached here as Annexure-V. The Insurance provider shall be selected for award of the Contract on the basis of their lowest (L1) rate. Incomplete Price Schedule may result into rejection of bid.

5.2 Public Procurement Policy For Micro & Small Enterprises (MSEs)-Order,2012: Purchase Preference Benefits under the Policy as per guideline issued by Ministry of MSME's Order dt.23.03.2012 issued vide Gazette Notification no.503 dt.26.03.2012 and related subsequent revision shall be applicable subject to submission of copy of valid/active Udyog Aadhaar Memorandum / Registration Certificate.

5.3 The enquired service is not splittable.

6.0 **Earnest Money Deposit (EMD)** : EMD of Rs 6250/-

6.1 Earnest money deposit shall be submitted by way of Demand Draft/ Banker's Cheque only drawn on any Scheduled/ Nationalized Bank in favour of 'Projects & Development India Ltd', Noida. Quotation/Bid without EMD may not be considered. **However, NSIC/MSE registered Companies are exempted from submission of EMD provided a valid Certificate in this regard is submitted.**

6.2 EMD shall be refunded:

- To the unsuccessful bidders after acceptance of order by the successful bidder(s).
- To the successful bidder(s) after deposition of Security money/ confirmation by the Bank of the Security cum Performance Guarantee submitted by bidder

No interest shall be payable on EMD.

6.3 EMD may be forfeited without prejudice to any other right or remedy of PDIL including but not limited to following circumstances:

a) If a bidder withdraws his bid during the period of bid validity specified by the bidder

OR

b) In the case of successful bidder, if the bidder fails to accept the order

OR

c) If a bidder is found to have furnished Mis-representation or wrongful declaration/ presentation of qualifying data and other facts in their Bid.]

7.0 Validity of Bids

Prices quoted should remain valid for our acceptance for a minimum period of 90 days from the date of opening of technical bids. PDIL will not allow any revision in prices within validity period after sealed tender are opened.

8.0 If at any later date, it is found that documents, information and data submitted by the Bidder in the Bid, and based on which the Bidder has been considered eligible or successful or has been awarded the Contract is incorrect or false to the extent that had the correct or true information been made available to the OWNER at the time of Bid evaluation, the bid would have been declared ineligible or unsuccessful, the Bidder shall be forthwith disqualified or, as the case may be, the contract awarded based on such incorrect or false information shall be cancelled and the EMD/PBG/Security Deposit shall be liable to be forfeited.

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- 9.0 Bidders are required to carefully go through the entire scope of ENQUIRY, terms and conditions, and other requirements before quoting. They should feel free to contact PDIL before submission of bid if they have any query on it. Once the bid is submitted, PDIL will presume that the bidder has understood thoroughly the Scope of Supply along with terms & conditions and all these are acceptable to them.
- 10.0 Bids shall be typed or written in indelible ink and must be free from corrections / erasing / overwriting etc. Any changes made must be authenticated with initial by the Bidder.
- 11.0 Bid shall be ideally in conformity to the Scope of supply/work along with all Terms & conditions, stipulated in the ENQUIRY. PDIL shall appreciate to receive a Bid having no deviation. However, under unavoidable circumstance, a Bidder may submit Deviations in a separate sheet, which PDIL at its own liberty may accept or reject. Deviations found elsewhere inside the Bid document shall not be considered. Deviations including condition(s), if any, found in the Price bid shall liable for rejection of a Bid in totality.
- 12.0 PDIL reserves the right to reject any or all the bids without assigning any reason whatsoever and does not bind itself to accept the lowest or any other bid. All bids in which any of the prescribed conditions are to be fulfilled or are incomplete in any respect are liable to be rejected. PDIL is at liberty to take any of the following actions in case of this ITB:
- a) to cancel the tender without reference to the bidders.
b) to postpone the due date and time.
- 13.0 Bidders shall not be entitled to claim any costs, charges, expenses or incidentals for or in connection with the preparation and submission of their bids even though Project & development of India Limited may withdraw the enquiry/tender or reject all bids.
- 14.0 **SITE VISIT** If needed, Bidder may visit the site (Bahadurpur Raniganj Coalfield at Sonapur Bazari, West Bardhaman, West Bengal) for Eastern Coalfield Ltd. at its own expense, before quoting their rates. For site visit and any clarification please contact to:
Shri R N Satyarth
CE(Civil)
Projects & Development India Ltd. A-14, Sector-1, Noida-201301
Tel:0120-2529842- 353 (Extn), Fax:0120-2529801
E mail : rnsatyarth@pdilin.com , ganeshch@pdilin.com .
- 15.0 Bids submitted thro' FAX and e-mail will not be accepted. No request from any bidder to PDIL to collect the bid from airlines, cargo agents etc. shall be entertained by PDIL.
- 16.0 PDIL reserve the rights to assess bidder's capability and capacity to perform the contract.
- 17.0 Bids must be submitted on or before the closing date and time physically in the bid box at the office of **Addl. General Manager & HOD (MM), Materials Management Department, Projects & Development India Ltd., PDIL Bhawan, A-14, Sector-1, Noida, Pin 201301, Gautam Budh Nagar (UP)** or by registered post/courier on the above address so as to reach well in advance of the closing date and time. Offers received late are liable for rejection & no complaint shall be entertained in this regard for any reason whatsoever including postal/courier delay.
- 18.0 To know more about PDIL, please visit our website <http://www.pdilin.com>.

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.

ANNEXURE-III

General Conditions Of Contract (GCC)

1.0 Scope of Contract

The Scope of Contract/ Purchase Order (P.O), shall be as per 'Scope of Work' (**Annexure-VIII**) along with Price Schedule/SOR (**Annexure-V**) attached to the ITB, unless & otherwise it is modified, at subsequent stages of bidding.

2.0 Firm Price

Price to be quoted shall be firm and subject to no escalation whatsoever during the contractual completion period including extended period, if any, except for any statutory variations i.e. change in the rate of tax & duty and/or inclusion of any new tax & duty.

Bid with variable price will not be accepted.

3.0 Price Basis

Duly executed at PDIL, Noida.

4.0 Taxes and duties

4.1 Goods & Service Tax (GST): GST shall be paid EXTRA as applicable as per GST law. Bidder shall clearly indicate the present applicable rate of GST in Percentage (%). However, Bidder shall indicate corresponding HSN / SAC Code in the check list and shall also enclose a copy of GST registration certificate along with the unpriced offer.

4.2 GST Rate as quoted by the bidder(s) in the "Price Schedule" (Annexure-V) shall be considered for price evaluation purpose. However, for ordering, GST Rate corresponding to the exact HSN/SAC code for the enquired item shall be considered. In case, the Lowest (L1) bidder has quoted lower rate of GST, same shall be adjusted in their quoted basic price in the Order. In no case, basic quoted price shall be increased.

4.3 Statutory variation in taxes and duties including imposition of any new tax & duty, within the scheduled Completion period, as per P.O, shall be paid at actual on production of documentary evidence.

5.0 Effective date of Contract/ P.O. Shall be date of Award of LOI/PO.

6.0 Period of Contract/Completion Time

The Contract period shall be valid for a period of (06) six weeks from the effective date.

6.1 Contact Person/Operation of Contract The contract shall be operated by CE (CIVIL), PDIL, NOIDA or his authorized representative at the following address.

Shri R N Satyarth
CE(Civil)
Projects & Development India Ltd. A-14, Sector-1, Noida-201301
Tel:0120-2529842- 353 (Extn), Fax:0120-2529801
E mail : msatyarth@pdilin.com , ganeshch@pdilin.com

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7.0 Payment Terms

Payment for survey work shall be made on area basis as per Schedule of Rates, payment for grid pillars, boundary pillars and bench mark pillars shall be made on the unit basis as per Schedule of Rates. All connected works including supply of drawings and documents shall be considered as a part of total work. No other payment shall be made on any account.

All payments will be made by account payee cheque or direct transfer in bank account through RTGS against receipt of Invoices certified by the Contract Operator or his authorized representative.

7.1 It may be noted that Government of India has implemented Trade Receivable Discounting System (TReDS) to address challenges faced by MSMEs in delayed payments (after receipt/acceptance of Material/Services) from Government buyers leading to shortfall of Working Capital. TReDS is an online electronic institutional mechanism for facilitating the financing of trade receivables of MSMEs through multiple financiers. PDIL has already been registered on the below mentioned TReDS platform :

- M/s Receivable Exchange of India (RXIL), Mumbai

MSME vendors are requested to get themselves registered on the TReDS platform to avail the payment benefit in the event of order.

7.2 Tax deduction at source

Income tax, as applicable as per income tax act, shall be deducted at source from the Contractor's bills and a certificate towards this deduction shall be issued to the Contractor.

8.0 Security Deposit

Security Deposit for an amount equivalent to 3% of P.O. value shall be submitted within 15 days of issuance of P.O., in the form of Demand Draft (DD)/Banker's Cheque/Bank guarantee. The same shall be valid to cover delivery/ completion period plus warranty/guarantee period, if any.

In the absence of submission of Security deposit, the equivalent amount after adjustment of EMD amt., if any, shall be adjusted from the bills

9.0. Price reduction clause

In the event of delay in completion beyond contractual completion period, price reduction @ 0.5% per week or part thereof subject to maximum 5% of total P.O value shall be recovered from Contractor's bill(€

10.0 Termination

If the contractor breaches any terms of the contract including failure to perform service in time, it will amount to failure on the part of contractor. In this situation, PDIL reserves the right to terminate the contract at any time by giving 15 days notice.

In the event of termination, the service provider shall refund the existing part of the insurance premium on pro-rata basis.

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.

11.0 Force Majeure

The act of God, epidemic, wars, revolution, and official strike shall be treated as force majeure condition. In event of occurrence of such condition neither party shall be responsible for delay in performance provided that it is notified within 07 days of its occurrence. The Contractor shall provide justification by documentation countersigned by the local chamber of commerce.

12.0 Arbitration

All cases of dispute arising during execution of contract shall be resolved by mutual discussion of parties operating the Contract. In the event of failure to do so, matter will be settled as per Arbitration and Conciliation Act, 1996, as amended from time to time.

However, wherever applicable, in case of settlement of commercial disputes between PSEs inter SE and PSE(s) and Government Department(s), the same shall be settled through Permanent Machinery of Arbitrators (PMA) setup in the Department of Public Enterprises (DPEs) as per the following Clause:

“In the event of any dispute or difference relating to the Interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary/Additional Secretary, when so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator”.

The performance under this contract, shall not stop for any reason, whatsoever, during the said dispute / proceedings, unless the service provider is specifically directed by PDIL to desist from working in this behalf.

13.0 Jurisdiction

The Contract shall be deemed to have been entered into at Noida and all cases of action in relation to the Contract shall, therefore, be deemed to have been assigned within its jurisdiction for respective Unit/location.

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.**ANNEXURE –IV****Check List**

(Bidder must confirm point by point and strike out whichever is not applicable)

Name of Bidder:

Offer No.:

SL. NO.	DESCRIPTION	ITB REQUIREMENT	BIDDER'S CONFIRMATION/ ACCEPTANCE/ COMMENTS
1.0	Price Basis: Firm. Duly executed at PDIL, Noida	TO CONFIRM	
2.0	Present applicable rate of GST (in %) is indicated separately in the Price Schedule (SOR), in the space provided for.	TO CONFIRM	
3.0	Completion Period: As per Clause 6.0 of GCC.	TO ACCEPT	
4.0	Validity: Shall be 90 days from date of opening of Technical Bid.	TO CONFIRM	
5.0	DOCUMENTS (DULY SIGNED BY AUTHORISED SIGNATORY & STAMPED) TO BE FURNISHED WITH ENVELOPE-1:		
5.1	Relevant documents (copy duly signed and stamped) in support of Bidder's Pre-Qualification Criteria (PQC) indicated in Annexure-I of ITB.	To Furnish	
5.2	Complete ITB documents duly signed & stamped on each page as a token of acceptance of all terms and conditions of ITB.	To Furnish	
5.3	Price Confirmation Copy: A copy of Priced offer (as uploaded by Bidder in the Portal), keeping price blank (hiding the price) and in place indicating "Quoted" or "√", as a confirmation of price quoted against the enquired item and GST.	To Furnish along with technical Bid.	
6.0	Photocopy of PAN Card	To Furnish	
7.0	Format of Details for payment, all the details duly filled in (Annexure-VI).	To Furnish	
8.0	Copy of GST Registration Certificate	To Furnish	
9.0	Name, Designation, Telephone Nos., Fax No. & e-mail of Contact Person for this Enquiry.		
10	Whether the Company is registered as M S E (Micro & Small Enterprises) if 'Yes', indicate the registration No. and enclose a copy of Registration Certificate. (YES / NO.)		
10 a.	Whether the M S E Company is owned by SC / ST (YES / NO.)		
10 b.	Whether the M S E Company is owned by Woman (YES / NO.)		
11.	HSN/SAC Code (Bidder to indicate)	
12.	Confirmation of Acceptance to all Terms and Conditions of the Tender Document in totality.		
It is confirmed that in case any of the terms and conditions mentioned in this summary are at variance with those indicated anywhere else in our offer, the condition indicated in this summary shall prevail.			

Note: Bidder must ensure that all the above information and documents (duly signed and stamped) are furnished along with the Technical Bid.

Signature of Bidder:

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.

Annexure-V

SCHEDULE OF RATES FOR TOPOGRAPHICAL & CONTOUR SURVEY WORK

I	II	III	IV	V	VI	VII = V x VI
Sl. No.	Code No.	Description of Items	Unit	Qty.	Unit Rate	Total Price (Rs.)
1	LS - 01	Conducting topographical survey in the specified area and plotting the same in a scale of 1 : 1000, indicating all permanent features like Railway lines, Highways, Roads, Rivers, nallahs, lakes, ponds, culverts, existing plant structures, transmission lines, telegraphs, telephones and electric poles, cross drainage works etc. and plotting the same in a scale of 1 : 1000 showing true North including establishing survey reference stations including supply of all equipments, instruments, personnel, labours, etc., required to complete the work in all respects as per enclosed tender drawings, scope of work, specifications and direction of Engineer - in - Charge.	Acre	250		
2	LS - 02	Carrying out spot leveling with respect to known reference such as Survey of India / PWD Bench Mark etc. for giving spot levels in a grid of 20 meters both ways and plotting / developing contour maps in scale of 1 : 1000 with contour lines at a contour interval of 0.500 meter, showing true North including establishing survey reference stations and supply of equipments, instruments, personnel, labours, etc., required to complete the work in all respects as per drawings, specifications and directions of Engineer - in - Charge.	Acre	250		
3	LS - 03	Providing and constructing Grid Pillars using 200 mm dia x 1000 mm long RCC Hume pipe with 400 mm dia x 500 mm thick foundation of plain cement concrete of nominal mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) embedding 500 mm below ground level and 500 mm above ground including filling the Hume pipe with plain cement concrete of nominal mix 1:2:4 and fixing mild steel plate of size 150 mm x 150 mm x 10 mm on top of the pillar by two nos. 10 mm dia Torr. M.S. Anchor bars of total length 250 mm each, welded to the above plate for marking the permanent reference points, including shuttering, tamping, ramming, vibrating, curing, finishing the top and sides rough or smooth as directed or specified, supply of all labours and materials, etc., complete in all respect as per drawings, specifications and directions of Engineer - in -Charge.	Nos.	45		

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.

4	LS - 04	Similar to LS-03 without foundation.	Nos.	30		
5	LS - 07	Providing and constructing Permanent Bench Mark Pillars of size 1000 mm x 1000 mm x 1500 mm in plain cement concrete of nominal mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregates of 20 mm nominal size) with 500 mm below ground level and 1000 mm above ground including embedding steel plate of size 150 mm x 150mm x 10 mm on top of the pillar by two nos.10 mm dia Torr. M.S. Anchor Bars of total length 250 mm each, welded to the above plate for marking the permanent reference points, including shuttering, tamping, ramming, vibrating, curing, finishing the top and sides rough or smooth as directed or specified, supply of all labours and materials, etc., complete in all respect as per drawings specifications and directions of Engineer-in - Charge.	Nos.	2		
6	LS - 08	Transferring Bench Mark at the proposed site from existing permanent Bench Mark of the nearby area.	Lump - sum			
Grand Total Price (i.e. Sum Total Price of 1,2,3,4,5 & 6)						
In words						
GST% (to fill)						Extra
<p>Name :</p> <p>Signature of Tenderer :</p> <p>Place / Date :</p>						

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.**ANNEXURE-VI****Format of Details for payment**

Bidders are required to submit the following details on the company's **letter head** for online transfer to amount to their account:

1.0		Contractor Name / Company Name	
		Address:	
		Phone No.	
		E-mail ID	
2.0	a.	Name of the Bank	
	b.	Address of the Branch	
	c.	Telephone No.	
	d.	9 Digit Code number of the Bank and Branch appearing on the MICR Cheque issued by the Bank	
	e.	11 Digit NEFT/IFSC Code of the Bank Branch	
	f.	Account Type (SB/CC/CA)	
	g.	Bank Account No.(as appearing on the Cheque)	
	h.	Permanent Account Number (PAN) Under Income Tax Act.	
	i.	GST Registration Number	
	j.	Name of Authorized Signatory	
	k.	Contact Person Name	

We hereby declare that the particulars given above are correct and complete

Authorized signatory of the bidder

Title:

Designation:

Date:

Topographical survey work for proposed Coal to Methanol project at Bahadurpur Raniganj Coalfield on Build Own Operate (BOO) basis for Eastern Coalfield Ltd.

ANNEXURE-VII

DECLARATION

To,

Projects and Development India Ltd.

Noida – 201301

Subject : ITB No.Dt.

Sir,



We hereby declare that M/s is neither put on Holiday nor Black-listed by any Government / PSU / Private firm or Financial Institution .

Signature

Name:

Designation:

Seal of the Bidder

	TOPOGRAPHICAL & CONTOUR SURVEY WORK	PC276-PNCV-TD-201	0	 ECL
		DOCUMENT. NO.	REV.	
		SHEET 0 OF 24		

Annexure-VIII (Scope of work)

TOPOGRAPHICAL & CONTOUR SURVEY WORK



**PROJECT: COAL TO METHANOL (C2M) PROJECT AT BAHADURPUR
RANIGANJ COALFIELD, WEST BENGAL ON BUILD OWN
OPERATE (BOO) BASIS FOR EASTERN COALFIELD LTD
WEST BENGAL, INDIA**

**CLIENT: ESTERN COALFIELD LIMITED
(A subsidiary of Coal India Limited)
BILASHPUR, CHHATTISHGARH**

**CONSULTANT: PROJECTS & DEVELOPMENT INDIA LTD
NOIDA**

0	24-02-22	ISSUED FOR TENDER	AR	GC	RNS
REV	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED



	GENERAL SPECIFICATIONS FOR TOPOGRAPHICAL & CONTOUR SURVEY WORK	PC276-PNCV-GS-201	0	
		DOCUMENT. NO.	REV.	
		SHEET 1 OF 6		

GENERAL SPECIFICATIONS

FOR

TOPOGRAPHICAL & CONTOUR SURVEY WORK





	GENERAL SPECIFICATIONS FOR TOPOGRAPHICAL & CONTOUR SURVEY WORK	PC276-PNCV-GS-201	0	 ECL
		DOCUMENT. NO.	REV.	
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	GENERAL SPECIFICATIONS FOR TOPOGRAPHICAL & CONTOUR SURVEY WORK	PC276-PNCV-GS-201	0	
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1.00 GENERAL

- 1.01 This section of tender document deals mainly with the Scope and Technical Specifications needed for the execution of Topographical & Contour Survey Works on item Rate basis. The work which shall have to be carried out is associated with the Proposed Coal to Methanol (C2M) Project at Bahadurpur Raniganj Coalfield, West Bengal on Build Own Operate (BOO) Basis for Eastern Coalfield Ltd(ECL), West Bengal, India
- 1.02 In the event of conflict between the requirements of two or more clauses of the Specifications / Documents, the more stringent requirement as per the interpretation of the Owner / Consultant shall prevail.
- 1.03 The Bidder shall inspect and examine the site and its surroundings and shall satisfy himself before submitting his bid as, the form and nature of the site, the quantum and nature of work and material necessary for successful completion of the works and the means of access to site and in general, shall himself obtain all necessary information as to risks, contingencies and other circumstances, which may influence or affect his tender. Under no circumstances, extra payment consequent on any misunderstanding or otherwise on the part of the Bidder shall be allowed.
- 1.04 Works covered herein below may have to be executed also near existing buildings, if required. The Bidder shall have to take all necessary precaution to protect all existing structures, facilities and buildings etc. from damage. In case, any damage occurs due to the activities of the Contractor on account of negligence, ignorance, accidental or any other reasons whatsoever, the damage shall be made good by the Bidder at his own cost to the satisfaction of the Owner / Consultant. The Bidder shall also take all necessary safety measure, at his own cost, to avoid any harm / injury to his workers and staffs and existing facilities.
- 1.05 All works related to access and site clearance, like cutting of trees and bushes for line of sight is included in scope. No extra payment shall be paid for this works.

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2.00 SCOPE OF WORK

- 2.01 The Scope of Work consists of carrying out Topographical & Contour Survey Works for the proposed site area associated with the Proposed Coal to Methanol (C2M) Project at Bahadurpur Raniganj Coalfield, West Bengal on Build Own Operate (BOO) Basis for Eastern Coalfield Ltd(ECL), West Bengal, India
- 2.02 The contractor shall submit all the required information as mentioned in technical specification attached with the Tender such as High Flood Level, Rain-Fall Intensity, Size of Coal / Ash heap, Approx. number of trees in the plot plan etc.
- 2.03 The work consist of supplying & providing of all labour, material except if indicated in Schedule of Rates, supervision, scaffolding, construction equipments, tools, tackles and plants, supplies & transportation of all incidental items though not indicated or specified, but reasonably implied or necessary for successful completion of the work including Specifications" and Schedule of Rates" of this Tender on item Rate basis. The nature of work shall generally involve carrying out Topographical as well Spot Leveling by TOTAL STATION system of the proposed site area. The Tender Drawings attached with these specifications provides a general idea about the work to be performed under the scope of this Contract. The enclosed Drawings are preliminary Drawings which are for bidding purposes only and are by no means the final Drawings or show the full range of the work under the scope.

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3.00 TOPOGRAPHICAL & CONTOUR SURVEY WORKS



The Topographical & Contour Survey Works shall be carried out at the desired locations, as shown in Tender Drawing enclosed with this document. The work consists of mobilization of all relevant and adequate equipment, plants, tools, machineries etc. and providing necessary engineering supervision through qualified and technical personnel, skilled and unskilled labour etc., required to match the work schedule and to carry out the complete work in all respects as per direction of Engineer-in-Charge.:

- a) Preparation and submission of Interim Report in 2 copies and Final Report in 5 – copies for the Topographical & Contour Survey Work, all readings with all documents as mentioned in the Technical Specification enclosed.

All the above work shall be carried out in accordance with the "Technical Specifications" Preamble to SOR "Schedule of Rates" and Tender Drawing enclosed with this document.

4.00 PROJECT LOCATION & CONNECTIVITY

The proposed project is located at Bahadurpur in the eastern part of Raniganj Coalfield in Asansol sub-division of Paschim-Bardhaman district of West Bengal. Andal Airport (Durgapur) is the nearest Airport to the proposed project site which is about 40 km.



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TECHNICAL SPECIFICATIONS

FOR



TOPOGRAPHICAL & CONTOUR SURVEY WORK

0	24.02.2022	ISSUED FOR TENDER	AR	GC	RNS
REV	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED

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1.0 GENERAL

1.1 Coal India Limited intend for setting up a grass root **Coal to Methanol (C2M) Plant** at its existing premises of **Bahadurpur Raniganj Coalfield, West Bengal on Build Own Operate (BOO) Basis for Eastern Coalfield Ltd(ECL), West Bengal, India** utilizing Coal as a basic raw material for the production of Methanol.

For the selection of contractors for the above work, it is proposed to conduct Topographical Survey for the **Raniganj Coalfield Complex** inside the existing plant premises.

The Land survey shall have to be conducted in the proposed as well as existing plant area as indicated in the Drg. No. PC276-0000-0001.

1.2 The intent of this specification is to cover the basic requirements for conducting the land survey to generate requisite topographical information's for the design and field engineering activities.

1.3 The work shall be executed as per specifications to fulfill the objectives of the survey work, strictly in accordance with the direction of the Engineer-in-Charge at site.

1.4 This specification shall be read in conjunction with the description of items in the Schedule of Rates. The contractor shall refer to the Client / Consultant any discrepancy which may exist between the drawings, specifications and corresponding items of Schedule of Rates for clarification before submission of quotation and the Clients / Consultants decision as to clarification of the points raised shall be final binding to the Contractor.

2.0 SCOPE OF WORK

This scope of work will include but not limited to the following works:

- 2.1 All survey work shall be carried out using approved methodology & equipment-TOTAL STATION.
- 2.2 Establishment of permanent bench marks at site with reference to approved existing permanent bench mark.
- 2.3 Development of topographical information's as per site survey plan.
- 2.4 Establishment of basic line, zero line and grid system for defining co-ordinates of various areas.
- 2.5 Carrying out all the field work for contour surveying of the entire area and taking spot levels at every specified interval both ways & calculate reduced level for all the location surveyed at site.
- 2.6 Establishment of Highest Flood Level (HFL) of the site or near by streams.
- 2.7 Collection of data for latitude and longitude of the site from Survey of India Map.
- 2.8 Preparation of survey and contour drawings.



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- 2.9 Provision of personnel, materials, labour, license, facilities, equipments and everything required for the complete performance of the work.
- 2.10 Submission of Technical Report and Drawings.
- 2.11 Construction of Grid Pillars and Permanent Bench Mark at Site.

3.0 KEY ACTIVITIES

The Key activities to be covered by this specification are as follows:

- 3.1 Undertake the field work.
- 3.2 Supervise the field work including continuous reporting.
- 3.3 Determination of levels and coordinates of all survey points.
- 3.4 The contractor shall provide one representative who will be a qualified surveyor. This representative shall be made available full time at site to oversee all aspects of the work for the entire duration of the field work.



4.0 ENGINEERING OBJECTIVES

The primary objective of the work is to establish the followings:

- 4.1 The detailed location of existing interesting items, e.g. buildings, structures, roads, nallah, trees, poles, tube wells, ponds, falling within the plot boundary, etc.
- 4.2 Horizontal and vertical variation in terrain, profile and characteristics across the site.
- 4.3 Establishing bench mark at the site in relation with the existing approved permanent bench mark.

5.0 FIELD WORK PROGRAMME

- 5.1 The Contractor shall identify the existing permanent bench mark and transfer the reduced levels to the site for establishing new bench mark at site.
- 5.2 The contractor shall furnish the following information for each bench marks installed:
- Identification number
 - Reduced level
 - Co-ordinates of bench mark.
- 5.3 The contractor shall develop topographical information within the limits of the site by establishing a grid system for survey points.

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- 5.3.1 The grid system shall be established by constructing grid pillars at specified intervals in square pattern.
- 5.3.2 The above grid system shall be further subdivided into smaller intervals for taking spot levels.
- 5.4 The contractor shall determine the location, co-ordinates and elevation of the nearby existing roads, compound walls, railway lines etc.
- 5.5 The contractor shall record the High Flood Level (H.F.L) of site and nearby rivers / streams.

6.0 DOCUMENTATION

6.1 DRAWINGS



The contractor shall prepare the following maps, plans and drawings to be submitted with the report.

6.1.1 Key Plans:

- a) Key Plan of the surveyed area with reference to the nearest railway station and / or State Highway / National Highway.
- b) Key Plan of the survey area showing relative location of different areas within the limits of the survey area.

6.1.2 All survey information will be shown in the drawing using the guidelines listed below:

- a) Project Title Block with all information's.
- b) Project Name and Location.
- c) Client / Consultations / Contractor's Name.
- d) Date.
- e) Maximum Drawing size 1189 x 850 mm (A0 Size).
- f) Scale for survey map 1:1000 for 20 m x 20 m grids.
- g) Surface contours at 0.50 m intervals.
- h) Existing bench mark, and monuments and over ground features.
- i) Horizontal control system shall use the grid pattern.
- j) Location of base, zero and grid lines on survey drawings.
- k) Co-ordinates and levels of grid pillars, other survey stations and bench marks corrected up to three decimals.
- l) Relationship between true North and grid North.

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- m) Established benchmark & reference.
- n) Annual Wind Rose Diagram

6.1.3 Following survey drawings shall be submitted by the Contractor.

- a) Drawing showing spot levels of existing ground at 20 m interval both ways.
- b) Drawing showing 0.50 m contours and all existing over ground features.



However, base; zero and grid lines, bench marks and grid pillars established at site shall be shown on both the types of drawings.

6.2 REPORTS

6.2.1 The Contour Surveying Report shall include but not limited to the following:

- a) A plot plan showing all the grid locations.
- b) General physical observations, all existing structures & Buildings, roads, nallah, trees, poles, tube wells, ponds, coal heaps, ash heaps etc of the site.
- c) Method adopted & procedure for surveying.
- d) Sketch /Drawing showing:
 - i) Reduced Levels at corners
 - ii) Contour lines with reduced levels marked along with them.
 - iii) Difference of angle between plant north & magnetic north.
 - iv) Nearby existing structures such roads, compounds walls, nallah etc.
- e) Sketch/Drawing shall have descriptive Notes of following:
 - i) Grid Interval
 - ii) Contour Interval
 - iii) GTS benchmark & their reference
- f) Method adopted & procedure for plotting of contours.
- g) Total Station level readings taken at the surveyed locations & hence.
- h) No of trees in the area
- i) Annual Rainfall Intensity

6.2.2 Two sets of Interim Report along with complete drawings & documents as stated above shall be submitted by the contractor to the consultant.

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- 6.2.3 On approval of check prints, Final Report, drawings /documents as stated in sec 6.2.1, after incorporating consultants/ Engineer-In-Charge's comments shall be submitted in 5 sets within 1 week, after receipt of comments.

In addition the contractor shall also submit CD of the drawings on latest revision of Auto-CAD along with the Report.

7.0 PERFORMANCE RQUIRMENTS

7.1 UNITS

The survey work shall be carried out in metric system and distances, levels, contours etc., shall be recorded in meters and its decimals.

7.2 BASE, ZERO AND GRID LINES

The base and zero lines shall be established with an accuracy of 1:10,000 and grid lines shall be established with an accuracy of 1:5000 minimum.

7.3 ANGULAR MEASUREMENT

The error for angular measurement shall not exceed six (6) seconds per station.



7.4 LEVELLING

- 7.4.1 The levels shall be established with reference to the nearest existing permanent bench mark or as directed.

- 7.4.2 Sub- Grid points for establishing spot levels shall be spaced at 20 meter intervals in both directions with permissible tolerance of 0.5%. The spot levels shall be so obtained to get a contour interval of 0.50 m. Pointed wooden pegs with identification marking shall be fixed at each and every sub-grid points. The bench mark levels shall be established to an accuracy of 12 mm per Kilometer of the distance covered for leveling. The spot levels shall be established by fly leveling with reference to the bench mark and corrected up to three decimals of a meter. Each days work shall be checked by the Contractor by closing the levels at the 'end' of the day.

7.5 GRID PILLARS

Grid Pillars (With foundation and without foundation) of Hume pipe filled with concrete shall be constructed at an interval of 200 meters in both directions and also along land acquisition limits at all corners. These shall be provided with mild steel plate at top embedded in the concrete through lugs. The plates shall carry central punch lines and shall be painted with anti-corrosive paint. All grid pillars shall be numbered for easy identification and future reference.

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7.6 PERMANENT BENCH MARK PILLAR

Permanent Bench Mark Pillar of plain cement concrete shall be constructed at the location indicated in the tender drawing / land or as directed. Intersecting point, alignment marks, co-ordinates, level and date of installation shall be marked on the top surface of the pillar, which shall be used in future as reference bench marks. Mild steel plates shall be fixed on the top of the pillar through lugs. These plates shall carry central punch lines and shall be painted with anti-corrosive paint.

8.0 AUTHORITY

Maps prepared by the contractor based on the survey work carried out under this scope of work shall be the sole property of the client. The contractor shall have no right to use, reproduce or pass on to the third party without prior written permission of the Client.

9.0 PAYMENTS

Payment for survey work shall be made on area basis as per Schedule of Rates, payment for grid pillars, boundary pillars and bench mark pillars shall be made on the unit basis as per Schedule of Rates. All connected works including supply of drawings and documents shall be considered as a part of total work. No other payment shall be made on any account.

10.0 WORK SCHEDULE

- a. Completion of all field works related to Topographical Survey as stated above including Submission of interim report with all Drawings / Documents. - Within 04 weeks from the date of issue of LOI.
- b. Submission of final Report, Drawings, CD etc – 1 week after receipt of consultant's comments.



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REV	REV DATE	PURPOSE	PREPD	REVWD	APPD

FORM NO: 02-0000-0021F1 REV4

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NOTES

1. The Tenderer shall refer to the "Technical Specifications" before quoting their Rates. The rates quoted shall be inclusive of all the works specified therein, for the successful completion of the work, including submission of Initial as well as Final reports, after incorporating client's/owner's comments., complete, as specified in the tender document.
2. The Tenderer shall note that the supply of Manpower, arranging precise instruments, cutting of wild bushes etc. required for proper execution of the work, shall be their responsibility.
3. The Tenderer shall note that the supply /procurement of all the materials, required for the job, shall be their responsibility
4. The Tenderers are specially advised to visit the site prior to quoting rates, as no change in rates and amount will be accepted later on for any reason whatsoever.
5. The tenderer shall note that the quantities of different items as given below are tentative based on available drawings/ informations collected from site and are subject to variation and they shall not be entitled to claim anything extra or compensation on this account. Owner / consultant do not guarantee the work under each item of the "Schedule of rates". Quotation of individual item may vary up to any extent. The total quantum of work may vary upto 25% on either side of the total awarded contract value and on this account, no variation of quoted rates of item will be permitted.



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1.0 GENERAL

- 1.01 The plans have been evolved tentatively based on information available with Owner / Consultant but the dimensions and details etc. are liable to changes. The Tenderers shall not be entitled to claim any higher rate or compensation on this account. The tender drawings are intended mainly to give an indication of the probable type of works. The successful Tenderers will, however, be required to execute the work as per detailed approved drawings issued to them from time to time. Owner reserves the right to add / delete any of works mentioned in the N.I.T., during the currency of the contract.
- 1.02 The Tenderers shall note that the quantities of the different Items, as given in the "Schedule of Rates" are tentative based on tentative tender drawings and are subject to variation and they shall not be entitled to claim any higher rate or compensation on this account. Owner / Consultant reserves the right to change / modify the size and type of sections at any time. Owner / Consultant does not guarantee work under each item of the Schedule of Quantities. The total quantum of work may vary up to **25%** on either side and nothing extra will be paid on this account. Quantum of individual item may vary to any extent.
- 1.03 The Tenderers shall be fully responsible for the correct setting out and execution of the work in accordance with approved drawings which will be supplied to them progressively. All tools, tackles, construction equipments etc., required for the successful execution / construction of the complete work, shall be responsibility of the Tenderers.
- 1.04 The quantities given in the "Schedule of Rates" are approximate and are given only for the guidance for quoting rates. Payments on bills shall, however, be made on actual measurements of quantities of work done as per approved drawings. Unless otherwise specified, measurements of quantities shall be taken as per Indian Standards IS: 1200.
- 1.05 The rates to be inserted in the "Schedule of Rates" are to be inclusive of the value of the work described under several items including all costs and expenses which may be required for the construction of the work described together with all taxes, general risks, liabilities and obligations such as temporary buildings / hutments, fencing, watching, lighting, insurance, labour regulations, indemnity, maintenance and the like. The prices shall be inclusive of all labours, materials, tools, plants, equipment, hoists, tackles, scaffoldings, the sundries, etc., as may be necessary for the completion of the work in all respects.

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- 1.06 No work shall be undertaken at site until detailed approved drawings have been issued by the Owner / Consultant in writing. Subsequent revision in the drawings which become necessary shall be incorporated and revised drawings issued to the Contractor who shall execute the work as per the latest revised drawings. Nothing extra will be paid on this account and no claim whatsoever will be entertained on this account. The Owner / Consultant reserves to themselves the right to modify / revise / alter etc. in any drawing supplied to the Contractor.
- 1.07 Any fabrication / construction done before final approval of the drawings shall be the Contractor's responsibility.
- 1.08 In case of any discrepancy between the description of items given in the "Schedule of Rates" and Specifications, drawings and other documents, the decision of the Owner / Consultant in writing shall be final, binding and conclusive for the purpose of this contract.
- 1.09 The term "Design and drawings" mentioned in the description of Items in the "Schedule of Rates" means the detailed approved design drawings marked "Good for Construction".
- 1.10 The work "As described", "As shown", "As directed" or "As approved", "As mentioned" in the description of Items shall mean as directed in design or detailed drawings and as directed by the Engineer-in-Charge.
- 1.11 The Owner shall furnish the Contractor with only reference points of the job site and the Contractor shall at his own cost and initiative, set out the works to the satisfaction of the Engineer-in-Charge but shall solely be responsible for the accuracy of such setting up not withstanding satisfaction as aforesaid of the Engineer-in-Charge or any other assistance rendered by the Engineer-in-Charge for the purpose.
- 1.12 The Contractor shall provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and the like and shall take all precautions necessary to prevent their removal or disturbance, and shall be responsible for the consequence of such removal or disturbance and for their efficient and timely reinstatement. The Contractor shall also be responsible for the maintenance of all survey marks, boundary marks, distance marks and centre line marks, whether existing or supplied / fixed by the Contractor.
- 1.13 Before commencing the work, the Contractor shall at his own cost and initiative provide all necessary references, level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the work in accordance with the

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scheme for fixing bench marks acceptable to the Engineer-in-Charge. The centre of longitudinal or face line and cross line shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the center to enable a theodolite to be set over it. No work shall be started until all these points are approved by the Engineer-in-Charge in writing.

But such approval shall not relieve the Contractor of any of his responsibilities in respect of the adequacy or accuracy, thereof. The Contractor shall also provide all labour, material and other facilities necessary for the proper checking of layout and inspection of the points during construction.

- 1.14 Pillars bearing geodetic marks located at the site / unit of works under construction should be protected and fenced by the Contractor.
- 1.15 On completion of works, the Contractor must submit to the Engineer-in-Charge the geodetic documents according to which the work was carried out.
- 1.16 The Contractor shall be exclusively responsible for the provision and maintenance of horizontal and vertical alignments and levels and for the correctness of every part of the work in accordance there with and shall at his own cost rectify any errors or imperfections therein.
- 1.17 The Contractor shall at all times during the progress and continuance of the works be responsible for and effectively maintain and uphold in good, substantial, sound and perfect condition of all / and every part of works and shall make good from time to time and at all times as often as the Engineer-in-Charge shall require any damage or defect that may during the above period arise in or be any way connected with works.
- 1.18 The portion which is under HOLD shown in the approved drawing or the portion which would be brought under HOLD during execution on account of coordinating different activities of other working agencies shall be taken up by the Contractor to execution only after the said HOLD is withdrawn. The Contractor on this account shall not be entitled to claim for any compensation.
- 1.19 The Contractor shall maintain adequate drainage facilities at the work site at all times during the execution of the work.
- 1.20 No compensation shall be made by the Owner / Consultant for any damage done by rain or traffic during the execution of the work.
- 1.21 The Contractor shall afford all reasonable facilities such as scaffolding etc., and cooperation to the various other agencies and Contractors, for services not

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included in this contract, who may be working on the site simultaneously so that entire work can proceed smoothly and simultaneously to a successful completion. The Tenderer must take all the aforesaid factors into consideration while quoting his rates. Nothing extra shall be paid on any ground out of or relating to the aforesaid factors.

1.22 For details of works, materials and workmanship, attention is invited to the "Schedule of Rates", Scope Drawings, Special Conditions of Contract, Materials and Job Specifications, this section, etc. and the Tenderers must quote the rates keeping in full view the requirement of the said documents.

1.23 Except otherwise clearly stated, CPWD Specifications with Correction Slips (latest) shall be followed in all Civil, Structural and other allied Works and in absence of CPWD Specifications for any work, relevant Indian Standard codes of practices (latest) shall be followed. Where there are no Specifications available for any work either in CPWD Specifications or in IS Codes of practices, the work shall be carried out as per the direction of Engineer-in-Charge.

1.24 The following notations have been used throughout the "Schedule of Rates" and Materials and job Specifications:

1.	Cu.M	Cubic Metre
2.	Sq.M	Square Metre
3.	m.	Metre
4.	mm	Millimeter
5.	Cm. / Cms.	Centimeter / Centimeters
6.	No. / Nos.	Number / Numbers
7.	Tonne / Te.	Metric Tonne
8.	Kg.	Kilogram
9.	RCC	Reinforced Cement Concrete
10.	PCC	Plain Cement Concrete

1.25 The quoted rates shall be applicable for all heights, depths etc. except otherwise clearly stated in the description of items and nothing extra shall be paid to the contractor on this account.

1.26 Description of items and mode of measurement for payment indicated herein shall override those given elsewhere if these are at variance.