

Government of India  
Ministry of Water Resources, River Development and Ganga Rejuvenation  
Central Ground Water Board

e-Tender Inquiry for  
**“Supply, Installation, Commissioning of 584 Digital Water Level Recorders( DWLR)  
and telemetry, including Protection box, fencing and security arrangements,  
establishment of Data Acquisition system and its maintenance for Real Time Ground  
Water Level monitoring” in 13 states namely Andhra Pradesh, Delhi, Gujarat,  
Haryana,Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan,  
Tamil Nadu, Telangana and Uttar Pradesh**

e-Tender Inquiry Number : **NIET No.19/2016-17/MMS**

Bhujal Bhawan, NH-IV, Faridabad – 121 001

# TENDER DOCUMENT

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## SECTION I

# NOTICE INVITING e-TENDERS (NIT)

Government of India  
 Ministry of Water Resources, River Development and Ganga Rejuvenation  
 Central Ground Water Board  
 Bhujal Bhawan, NH-IV, Faridabad – 121 001  
 Phone: 0129-2477180/ 2477175  
 Email: [seop-cgwb@nic.in](mailto:seop-cgwb@nic.in)

**e-Tender Inquiry No. NIET-19/2016-17/MMS**

**NOTICE INVITING TENDERS  
 (National Competitive Bidding)**

- 1 For and on behalf of President of India, Chairman, Central Ground Water Board, invites online bids under two-bid system (technical bid and price bid) at CPP portal <http://eprocure.gov.in/eprocure/app> from eligible and qualified bidders for **“Supply, Installation, Commissioning of 584 Digital Water Level Recorders( DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring”** in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh.

Package Number	Name of Region	Estimated Cost (INR)	Amount of EMD/ Bid Security (INR)
1	As mentioned in Tender	8,76,00,000/-	17,52,000/-

Critical Dates		Date	Time
1	Dates of Online Publication of Tender Documents in CPP portal	22.12.2016	1600 Hrs.
2	Dates of Tender Document Download	Start 22.12.2016	1600 Hrs.
3		End 12.01.2017	1600 Hrs.
4	Deadline for seeking further information/ clarifications through email	02.01.2017	1600 Hrs.
5	Date of Pre-Bid Meeting	<b>03.01.2017</b>	<b>1100Hrs.</b>
6	Dates of Online Submission of Tender	Start 06.01.2017	1700 Hrs.
7		End 12.01.2017	1200 Hrs.
8	Deadline for Physical Submission of Cost of Tender Documents and EMD/ Bid Security	12.01.2017	1700 Hrs.
9	Time and Date for Opening of Technical Bid	<b>13.01.2017</b>	<b>1200 Hrs.</b>
10	Time and Date for Opening of Financial Bid	Will be communicated online after technical evaluation	

- 2 Interested tenderer may obtain further information about these requirements from the above office during working hours or through email and/or from the websites <http://cgwb.gov.in> and <https://eprocure.gov.in/eprocure/app>
- 3 Tender documents may be downloaded from the above websites. The bidders must pay non-refundable fee of Rs. 1500 (One Thousand and Five Hundred) only in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee, from any of the commercial bank in India, in favour of Drawing & Disbursing Officer, Central Ground Water Board, payable at Faridabad on or before the deadline fixed.
- 4 All tenders must be accompanied with EMD/ Bid Security as mentioned in Para 1 in favour of Drawing & Disbursing Officer, Central Ground Water Board, payable at Faridabad, in the manner prescribed in bidding documents, on or before the deadline fixed.
- 5 In the event of any of the above mentioned tender opening date being declared as a holiday/ closed day for the purchase organization, the tenders will be opened on the next working day at the appointed time.
- 6 Bids shall be received online only at the website of CPP portal <https://eprocure.gov.in/eprocure/app>
- 7 Aspiring bidders who have not enrolled/ registered in CPP portal are advised to enroll/ register before participating through the portal. The portal enrolment is free of cost. The bidders are advised to go through the instructions provided at Section XVI: 'Instructions for online bid submission'.
- 8 The bidders will be at liberty to be present either in person or through an authorised representative, who must carry 'Bid Acknowledgement Receipt', at the time of opening of bid or can view the bid opening event online at their remote end.

Superintending Engineer (MMS-I)

SECTION II

INSTRUCTIONS  
TO  
BIDDERS  
(ITB)

## SECTION II

### INSTRUCTIONS TO BIDDERS (ITB)

#### 1. General

The Tendering authority wishes to receive bids for the **“Supply, Installation, Commissioning of 584 Digital Water Level Recorders( DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring”** in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh. Throughout these bidding documents, the terms bid and tender and their derivatives (bidder/tenderer, bid/tender, bidding/tendering, etc.) are synonymous.

- 1.1 The Tendering authority has issued these tender enquiry documents for the “Supply, Installation, Commissioning of 584 Digital Water Level Recorders( DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring” in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh, and related services as mentioned in Section-V: “Scope of Work and Technical Specifications”, which also indicates, *interalia*, the Region-wise Distribution of Works and Tentative List of Locations.
- 1.2 This section (Section II: “Instructions to Bidders”) provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the Tendering authority for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 1.3 Before formulating the tender and submitting the same to the Tendering authority, the tenderer should read and examine all the terms, conditions, instructions etcetera contained in the tender documents. Failure to provide and/ or comply with the required information, instructions etcetera incorporated in these tender documents may result in rejection of its tender.

#### 2 Eligibility Criteria of Bidder

- 2.1 This invitation to bid is open to bidders meeting the following requirements :
  - (a) A bidder shall be qualified for the contract as notified by the Employer in subsequent clauses.

- 2.2**
- a. Any tenderer, (proprietorship firms, partnerships firms, companies, corporations, joint ventures) registered with Central or State Government or the Central Ground Water Authority (CGWA) are eligible to participate in the tender. A self attested copy in respect of valid registration/enlistment with the respective authorities is to be submitted.
  - b. Bidders are permitted to form consortium. The clauses as given below shall be applicable for consortium.
    - (i) In case of a consortium, certified copy of the agreement between various partners shall be submitted with the tender.
    - (ii) The consortium will identify a lead partner who will be authorised to execute the contract with the department. All financial transactions and liabilities shall rest with the lead partner.
    - (iii) In the case of a JV or Consortium, all members of the group shall be jointly and severally liable for the performance of whole contract.
    - (iv) A tenderer shall submit only one bid in the same tendering process, either individually as a tenderer or as a partner of a JV/Consortia.
    - (v) For different packages One firm/ Individual can not be a party in more than one consortium.
    - (vi) For different packages, same consortium with different lead partners are not eligible to bid.
  - c. Bidders will be required to employ at least one ground water professional with minimum qualification of graduate degree in engineering/master's degree in geosciences with experience in "Supply, installation & commissioning of DWLR/Telemetry" and similar works. The undertaking for employment of these ground water professional be given.

- 2.3** Average annual financial turnover during the last three years, ending 31<sup>st</sup> March of the previous financial year (2012-13, 2013-14 & 2014-15) should be at least 30% of the estimated cost.



## 2.4

The bidder should have experience of having successfully installed similar works during last seven years ending last day of month previous to the one in which tenders are invited:

- (a) Three similar completed works costing not less than the amount equal to 40% of the estimated cost.  
or,
- (b) Two similar completed works costing not less than the amount equal to 50% of the estimated cost.  
or,
- (c) One similar completed work costing not less than the amount equal to 80% of the estimated cost.  
or,
- (d) Sum total of similar completed works costing not less than the amount equal to 100% of the estimated cost in a single financial year.
- (e) Similar works are defined as “Supply, Installation, including protection box & Commissioning of DWLR/Telemetry including Data Acquisition and Maintenance of DWLR/Telemetry for Real Time monitoring”.
- (f) The value of the executed work shall be brought to the current costing level by enhancing the actual value of works at simple rate of 7% per annum calculated from the date of completion to last date of submission of bid.
- (g) The tenderer shall submit details of works executed by them in last 7 years for qualification of work experiences criteria, documentary proof such as completion certificate & other documents from client clearly indicating the nature/scope of work, contract number, contract amount, and actual date of completion of such works. Copy of work order cannot be considered as work completion. Work completion certificate or part completion certificate is to be submitted. ***Part completion certificate should clearly indicate the details of works completed in all respects, e.g. if in a contract 100 wells are to be dug and the bidder has completed 20 wells, the part completion should clearly indicate that 20 wells have been completed. Receipt of payment for work executed will not be treated as part completion, e.g. if bidder has received payment, say 50% of the value of contract that will not be taken as 50% completion of working, unless part completion certificate clearly indicating the works completed is submitted. Part completion certificate should clearly indicate contract number, date of commencement of the work, details of works completed in all respect, value of the works completed in all respect.***
- (h) In case the work is done for private/Government clients, details as per table at Sl. No.3(b) of Section XII are to be submitted. Documents establishing receipt of payment for such works are to be submitted. For this purpose TDS certificate or Form 26 AS of Income Tax department or copy of Bank statement or any other document clearly indicating name of organisation making payment, amount of payment, date of payment etc. shall be submitted.

## 2.5 Experience

Bidders applying for this tender:

- (a) Must have previously installed and maintained at least 60 DWLR / ground water data acquisition and reporting stations to any Government department / Government agency including data acquisition and reporting systems for operational purpose in India

- 2.6
  - a. Detailed Technical documentation/technical brochures of the sensors proposed showing the technical details like range, accuracy, resolution etc. should be provided.
  - b. The bidder shall demonstrate the solution offered to the members of Technical committee if requested, by installing the solution offered at a place identified by CGWB for a period of 1 month or as decided appropriate by the technical committee constituted by Government for evaluation at his cost.
  - c. The Bidder shall submit the certificate in testing of instrument (DWLR) issued by any government authorized agency/Government Authorised Laboratory.
  - d. The bidder shall provide the details of proposed local office setup for offering services during the contract period.

## 2.7 Deleted

- 2.8
  - (a) Each member of the consortium should fulfil the eligibility criteria under Clause 2.1, 2.2(a) & 2.2(b)
  - (b) Criteria under Clause 2.3, 2.4, 2.5 & 2.6 should be fulfilled by any/some/all the members of the consortium in individual/combined capacity. **Illustration with Example:**  
Suppose the estimated cost of package is Rs.18,00,00,000/- & bidder has executed three works  
40% of Rs.18,00,00,000/- = Rs.7,20,00,000/-, then: to be considered responsive/qualifying  
atleast One work done by A, B, C each should be more than Rs.7,20,00,000/-  
Or,  
One Work done by A, Two works done by B should be more than Rs.7,20,00,000/- each even if no work is done by C it is ok  
Or,  
Three works done by A each costing more than Rs.7,20,00,000/- & no work by B & C

- 2.9** Tenderers are required to submit **duly self attested** following documents:-
- (a) Copy of valid registration/enlistment with the respective authorities (Reference : clause 2.2 of eligibility criteria). **(Sl.No.1 of Section XII)**
  - (b) In case of a consortium, certified copy of the agreement between various partners. (Reference : Clause 2.2 of eligibility criteria)
  - (c) Scanned copy of undertaking of having employed the ground water professional during execution of work. (Reference : Clause 2.2 of eligibility criteria)
  - (d) Turnover for last three years **duly certified by Chartered Accountant**. (Reference : Clause 2.3 of eligibility criteria). **(Sl.No.2 of Section XII)**
  - (e) Details of works completed as per table at **Sl. No.3 (a) of Section XII**.(Reference : Clause 2.4 of eligibility criteria)
  - (f) Details of payment received from private/Government clients as per table at **Sl. No.3 (b) of Section XII** (Reference : Clause 2.4 of eligibility criteria)
  - (g) Details of "Supply, installation & commissioning of DWLR/Telemetry" completed as per table at **Sl. No.4 of Section XII**.(Reference : Clause 2.5 & 2.6 of eligibility criteria)
  - (h) Scanned copy of the certificate in testing of Instrument(DWLR) issued by any government authorized agency/Government authorised Laboratory.
  - (i) Scanned copy of EMD
  - (j) Scanned copy of tender fee
  - (k) Scanned copy of Tender Acceptance letter: As per format in Section XV

**2.10 SUPPORTING DOCUMENTS**

- (a) Copy of completion certificate and other documents indicating the contract number, amount of the contract and the date of completion in support of details of work submitted by the bidder, duly certified by the competent authority of the respective organisation be submitted. (Reference : Clause 2.4 of eligibility criteria)
- (b) Documents establishing receipt of payment in respect of details of works submitted by bidder. Form 26 AS of Income Tax returns, bank statement or any other documentary proof clearly indicating the name of the firm/organisations, payment received be submitted. (Reference : Clause 2.4 of eligibility criteria)
- (c) Following documents duly certified by the organisation under whom the work has been executed shall be submitted (Reference : Clause 2.4 of eligibility criteria)
  - (i) Documents in support of quantity for "Supply, installation & commissioning of DWLR/Telemetry"

**Note : Documents listed above at Clause 2.9 & 2.10 are to be mandatorily submitted online along with the bid .**

- 2.11** Non-submission of any document listed in clause 2.9 & 2.10 above, will lead to rejection of the bid of the bidder
- 2.12** The eligibility of the bidder shall be decided only as per Section-II Clause 2 Eligibility Criteria of Bidder **(Clause 2.1 to 2.11)**, irrespective of whatsoever elsewhere is mentioned in the tender document.
- 2.13** The Financial bid will be evaluated taken into account all components mentioned in the BOQ including AMCs.

### **3 Cost of Bidding Document/ Tendering Expense**

- 3.1** The tenderer shall bear all costs and expenditure incurred and/ or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The Tendering authority will, in no case be responsible or liable for any such cost, expenditure regardless of the conduct or outcome of the tendering process.

### **4 One Bid per Bidder**

- 4.1** Each bidder shall submit only one bid either by himself or as a partner in a Joint Venture

### **5 Site Visit**

- 5.1** The bidder is advised to visit and examine the site of work and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract. The costs of visiting the site shall be at the bidder's own expense.

### **6 Contents of Bidding Documents**

- 6.1** In addition to Section I: "Notice inviting Tender" (NIT) the tender enquiry documents include:

Section II:	Instructions to Bidders (ITB)
Section III:	General Conditions of Contract (GCC)
Section IV:	Special Conditions of Contract (SCC)
Section V:	Scope of Work and Technical Specifications
Section VI:	Region-wise Distribution of Work
Section VII:	Bill of Quantities
Section VIII:	Tentative List of Locations
Section IX:	Formats for Submission of Data
Section X:	Drawings
Section XI:	Bidding Data
Section XII:	Formats for Qualification Information
Section XIII:	Bank Guarantee Form for EMD
Section XIV:	Bank Guarantee Form for Performance Security
Section XV:	Tender Acceptance Form
Section XVI:	Instructions for Online Submission of Tenders
Section XVII:	Safety Code
Section XVIII:	Model Rules for the Protection of Health and Sanitary Arrangement for Workers
Section XIX:	Contractor's Labour Regulations
Section XX:	Checklist

## **7 Pre-Bid Meeting and Clarification of Bidding Documents**

- 7.1** The bidder or his official representative is invited to attend a pre-bid meeting which will take place at the office of Central Ground Water Board, Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India, Bhujal Bhawan, NH-IV, Faridabad-121001 on **03.01.2017 at 1100 hours**.
- 7.2** The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.3** The bidder is requested to submit any questions in writing/ FAX/ e-mail to reach the Tendering authority not later than 02.01.2017.
- 7.4** Any modification of the bidding documents listed in Clause 6.1 which may become necessary as a result of the pre-bid meeting shall be made by the Tendering authority exclusively through the issue of an Addendum/ Corrigendum and the same will be available in the web site and not through the minutes of the pre-bid meeting.
- 7.5** A tenderer requiring any clarification or elucidation on any issue of the tender enquiry documents may take up the same with the Tendering authority in writing or by fax/ e-mail provided that such request is received by the critical date mentioned in Para 1 of Section I (Notice Inviting Tenders). The Tendering authority will publish the response to such queries on CPP portal prior to the prescribed date of submission of tender.
- 7.6** To assist in the examination, evaluation and comparison of bids, the Tendering authority may at its discretion, ask any bidder for clarification of its bid, including breakdown of unit, rate. The request for clarification and the response shall be in writing, but no change in the price or substance of the bid shall be sought or offered or permitted.

## **8 Amendments to Bidding Documents**

- 8.1** At any time prior to the deadline for submission of tenders, the Tendering authority may, for any reason deemed fit by it, modify the tender enquiry documents by issuing suitable amendment(s) to it.
- 8.2** Such an amendment will be notified through websites <http://cgwb.gov.in> and <https://eprocure.gov.in/eprocure/app> and will be binding on them. The tenderers are advised to visit these websites from time to time till the bid submission end date and take note of amendment(s) before uploading their tender.
- 8.3** In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the Tendering authority may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

## **9 Language of the Bid**

- 9.1** The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the Tendering authority, shall be written in the English language.

**9.2** The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the Tendering authority, may also be written in the Hindi language, provided that the same are accompanied by English translation, in which case, for purpose of interpretation of the tender, the English translations shall prevail.

## **10 Bid Prices**

**10.1** Unless stated otherwise in the bidding document, the contract shall be for the whole Work based on the unit rates and prices in the Bill of Quantities submitted by the bidder. The bidder shall fill in rates for all items of the Work described in the Bill of Quantities.

**10.2** Prices payable to the Contractor as stated in the contract are firm and not subject to adjustment during the performance of the contract. Prices quoted shall be inclusive of all taxes, duties , Service charges etc. *Service tax will be reimbursed to the contractor on production of documentary evidence to that effect clearly establishing the fact that the taxes have been paid to the appropriate Government authority. CGWB will reimburse Service Tax payable if any on the bill by the contractor to the authorities concerned and it will be the responsibility of the contractor to pay such an amount only if he is liable to pay service tax under relevant act/rules/orders of Government of India/State Government.*

## **11 Currency of Bid and Payment**

**11.1** The tenderer shall quote only in Indian Rupees.

## **12 Bid Validity**

**12.1** If not mentioned otherwise in the ITB, the tenders shall remain valid for acceptance for a period of 120 days (one hundred and twenty days) from the last date of bid submission. In case last date of submission of bid has been extended, 120 days shall be counted from extended date. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

**12.2** If any tenderer withdraws his tender before the said period, then the Tendering authority shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money.

**12.3** In exceptional cases, the tenderers may be requested by the Tendering authority to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by post or by fax/ email followed by post. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, however, may not agree to extend its tender validity without forfeiting its EMD.

**12.4** In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the Tendering authority, the tender validity shall automatically be extended up to the next working day.

## **13 Bid Security/ Earnest Money Deposit (EMD)**

**13.1** Pursuant to ITB clauses 6.1 the tenderer shall furnish along with its tender, earnest money for amount as shown in the NIT. The earnest money is required to protect the Tendering authority against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 13.7 below.

**13.2** The earnest money shall be denominated in Indian Rupees.

**13.3** The earnest money shall be furnished in one of the following forms:

- (a) Account Payee Demand Draft
- (b) Bank Guarantee
- (c) Fixed Deposit Receipt
- (d) Banker's Cheque

The demand draft shall be drawn on any commercial bank in India, in favour of the authority specified in the Para 4 of NIT. In case of bank guarantee, the same is to be provided from any commercial bank in India as per the format specified under Section XIII in these documents.

**13.5** The earnest money shall be valid for a period of 60 (sixty) days beyond the validity period of the tender.

**13.6** Unsuccessful tenderers' earnest moneys will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.

**13.7** Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect, withdraws its tender, or fails to sign the contract within the period of validity of its tender. The successful tenderer's earnest money will be forfeited if it fails to furnish the required performance security within the specified period.

#### **14 Bid Submission**

**14.1** Tenders shall be received online only at the website of CPP portal <http://eprocure.gov.in/eprocure/app>. All the scanned copies of documents comprising the bid shall be serially numbered and mentioned in the checklist provided in section XX which should be the first document of the bid.

**14.2** The hard copy of the technical bid with all documents uploaded online shall be sent through registered post/ courier/ by hand so as to reach the Tendering authority within 5 days from the date of opening of technical bid to facilitate tender evaluation process as sometimes the scanned copies of documents are not legible. In case any discrepancy is observed between the text of the original copy uploaded online and that in the hard copy of the same tender set submitted by registered/ speed post/ courier/ by hand, the text of the uploaded copy shall prevail.

**14.3** The tenderer, after submitting its tender, is permitted to alter/ modify its tender within the deadline for submission of tenders.

**14.4** No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

**14.5 Documents Comprising the Tender**

The tender to be submitted by tenderer shall contain the following documents, duly filled in, as required:

Cover 1 (Technical Bid)

- (a) Scanned copy of Tender Fee and EMD
  - (b) Tender Acceptance Letter
  - (c) Scanned copy of VAT/ CST Registration/ TIN/ TAN/ PAN
- And other documents as per eligibility criteria.

Cover 2

- (a) Financial Bid

- 14.6** A tender, which does not fulfil any of the above requirements and/ or gives evasive information/ reply against any such requirement, shall be liable to be ignored and rejected.
- 14.7** The tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized.
- 14.8** All the required documents/annexures including printed literature in the tender document shall be duly signed at the appropriate places by the same person(s) signing the tender.

**15 Bid Opening**

- 15.1** The Tendering authority will open the tenders at the specified date and time and at the specified place as indicated in the Para 1 of NIT (Section I).  
In case the specified date of tender opening falls on/ is subsequently declared a holiday or closed day for the Tendering authority, the tenders will be opened at the appointed time and place on the next working day.
- 15.2** The bidders will be at liberty to be present either in person or through an authorised representative, who must carry 'Bid Acknowledgement Receipt', at the time of opening of bid or can view the bid opening event online at their remote end.  
The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names and signatures and corresponding tenderers' names and addresses.
- 15.3** The technical bids shall be opened in the first instance, at the prescribed time and date. These bids shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the tender document. Thereafter, in the second stage, the financial bids of only the technically acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation.

**16 Examination of Bids and Determination of Responsiveness**

**16.1 Scrutiny and Evaluation of Tenders**

Tenders will be evaluated on the basis of the terms and conditions already incorporated in the tender enquiry document, based on which tenders have been received and the terms, conditions mentioned by the tenderers in their tenders.



**16.2 Preliminary Scrutiny of Tenders**

The tenders will first be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions as prescribed in the tender enquiry document. The tenders that do not meet the basic requirements are liable to be treated as unresponsive and ignored.

The following are some of the important aspects, for which a tender may be declared unresponsive and ignored:

- (a) Required document in Tender is unsigned.
- (b) Tenderer is not eligible.
- (c) Tender validity is shorter than the required period.
- (d) Required Tender Fee and EMD have not been provided.
- (e) Tenderer has not agreed to give the required performance security.
- (f) Tenderer has not agreed to essential condition(s) specially incorporated in the tender enquiry.

**16.3 Documents Establishing Tenderer's Eligibility and Qualifications**

The documentary evidence needed to establish the tenderer's qualifications shall fulfil the requirements as per tender.

**16.4 Tenderer's Capability to Perform the Contract**

The Tendering authority, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily.

**16.5** The above mentioned determination will, interalia, take into account the tenderer's financial, technical and execution capabilities for satisfying all the requirements of the Tendering authority as incorporated in the tender document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the Tendering authority.

**16.6 Contacting the Tendering authority**

From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the Tendering authority for any reason relating to this tender enquiry and/ or its tender, it should do so only in writing.

**16.7** In case a tenderer attempts to influence the Tendering authority in the Tendering authority's decision on scrutiny, comparison and evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the Tendering authority.

**17 Award Criteria**

**17.1** The contract will be awarded to the lowest evaluated responsive tenderer decided by the Tendering authority.

**17.2 Tendering authority's Right to Accept Any Tender and to Reject Any or All Tenders**

The Tendering authority reserves the right to accept in part or in full any tender or reject any tender without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

**17.3 Variation of Quantities at the Time of Award**

At the time of awarding the contract, the Tendering authority reserves the right to increase or decrease, the quantities of works up to a maximum of 20% without any change in the unit price and other terms and conditions quoted by the tenderer.

**18 Notification of Award and Signing of Agreement**

**18.1** Before expiry of the tender validity period, the Tendering authority will notify the successful tenderer(s) in writing, by registered/ speed post or by email/ fax (to be confirmed by registered/ speed post) that its tender for works, also briefly indicating therein the essential details like description, specification and quantity of the works and related services and corresponding prices are accepted. The successful tenderer must furnish to the Tendering authority the required performance security within twenty-one days from the date of this notification. Relevant details about the performance security have been provided under GCC Clause 3 under Section III.

**18.2 Issue of Contract**

Promptly after notification of award, the Tendering authority will mail the contract form duly completed and signed, in duplicate, to the successful tenderer by registered/ speed post.

**18.3** Within 21 (twenty-one) days from the date of the contract, the successful tenderer will return the original copy of the contract, duly signed and dated, to the Tendering authority by registered/ speed post.

**18.4 Non-Receipt of Performance Security and Contract by the Tendering authority**

Failure of the successful tenderer in providing performance security and/ or returning contract copy duly signed in terms of ITB clause 18.1, 18.2 and 18.3 above shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Tendering authority against it.

**18.5** Failure of the successful Tenderer to furnish the performance Security shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security, in which event the tendering authority may make the award to the next lowest evaluated Tenderer or call for new tenders.

**18.6 Return of E M D**

The earnest money of the successful tenderer and the unsuccessful tenderers shall be returned to them without any interest, whatsoever, in terms of ITB Clause 13.6.

**18.7 Publication of Tender Result**

The result of technical evaluation, financial evaluation and award of contract shall be uploaded on CPP portal.

**19 Dispute Resolution Mechanism**

**19.1** The method of dispute resolution is as indicated in the bidding document.

**20 Corrupt and Fraudulent Practices**

**20.1** It is expected that bidders/suppliers/contractors under this contract observe the highest standard of ethics during the procurement and execution of this contract. In pursuance of this policy, the tendering authority

(a) Defines for purpose of these provisions, the terms set forth below as follows:

- i. 'Corrupt practice' means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution, and
- ii. 'Fraudulent practice' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the tendering authority, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid process at artificial non-competition levels and to deprive the tendering authority of the benefits of free and open competition.

(b) Will reject a proposal for award of work if he determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for contract in question.

Bidders shall be aware of the provision stated in clause 4.3 of the general condition of the contract.

SECTION III  
GENERAL CONDITIONS  
OF  
CONTRACT  
(GCC)

	<b>SECTION III</b>
	<b>GENERAL CONDITIONS OF CONTRACT</b>
<b>1</b>	<b>Definition and Interpretation</b>
<b>1.1</b>	<p><b>Definition</b></p> <p>In this Contract, unless the context requires otherwise, the following terms shall have the meaning ascribed to them hereunder:</p> <ul style="list-style-type: none"> <li>(i) <b>Works or work</b> means the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.</li> <li>(ii) <b>Site</b> means the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.</li> <li>(iii) The <b>Contractor</b> means the individual, firm or company, whether incorporated or not, undertaking the works and includes the legal representative of such individual, or the successors of such firm or company and the permitted assignees of such individual, firm or company.</li> <li>(iv) The expression <b>President</b>, Government or Government of India means the President of India and his successors in office.</li> <li>(v) The <b>Tendering authority</b> means the Officer who is authorized and signs the contract on behalf of the President of India and shall be in-charge of the work.</li> <li>(vi) The <b>Engineer</b> means the officer who shall supervise the work on behalf of the Tendering authority.</li> <li>(vii) <b>Accepting Authority</b> means the authority mentioned in Bidding Data.</li> <li>(viii) <b>Accepted Risks</b> are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, any acts of Government, damage from aircraft, acts of God such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Tendering authority's faulty design of works.</li> <li>(ix) <b>Market Rate</b> shall be the rate as decided by the Tendering authority on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Bidding Data to cover all overheads and profits.</li> <li>(x) <b>Schedule(s)</b> referred to in these conditions shall mean the relevant schedule(s) annexed to the bid papers or the standard Schedule of Rates of the Government mentioned in Bidding Data hereunder, with the amendments thereto issued up to the date of receipt of the bid.</li> <li>(xi) <b>Bid Amount</b> means the value of the entire work as stipulated in the letter of award.</li> </ul>
<b>1.2</b>	<p><b>Interpretation</b></p> <ul style="list-style-type: none"> <li>(i) The <b>Contract</b> means and includes the documents forming the bids and acceptance thereof and the formal agreement executed between the competent authority on behalf of the President of India and the bidders, together with the documents referred to therein including these conditions, the specifications, designs, drawings</li> </ul>

	<p>and instructions issued from time to time by the Tendering authority and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.</p> <p>(ii) Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.</p> <p>(iii) Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.</p> <p>(iv) The original Contract shall remain with the Tendering authority. The contractor shall be furnished, free of cost one certified copy of the contract documents together with all drawings as may be forming part of the bidding documents except standard specifications, Schedule of Rates and similar other printed and published documents. None of these documents shall be used for any purpose other than that of this contract.</p>
<b>1.3</b>	<b>Discrepancies &amp; Adjustment of Errors</b>
	<p>The several documents forming Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions. In the case of discrepancy between the schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed:</p> <p>(i) Description of Schedule of Quantities.  (ii) Particular Specification and Special Condition, if any.  (iii) Drawings.  (iv) Technical Specifications.  (v) Indian Standard Specifications of B.I.S.</p> <p>If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the Contractor.  Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.</p>
<b>1.4</b>	<b>Sufficiency of Tender</b>
	<p>The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender information for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.</p>
<b>1.5</b>	<b>Signing of Contract</b>
	<p>The successful bidder, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign and execute the Contract consisting of:</p> <p>(i) the invitation for bids, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto, and</p>

	<p>(ii) Standard Form as mentioned in Bidding Data consisting of:</p> <p>a) Various standard clauses with corrections up to the date along with annexures thereto.</p> <p>b) Safety Code.</p> <p>c) Model Rules for the protection of health, sanitary arrangements for workers employed; and</p> <p>d) Contractor's Labour Regulations.</p>
<b>1.6</b>	<p><b>Works to be carried out</b></p> <p>The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good industry practice and recognized principles.</p>
<b>2</b>	<p><b>General Obligations</b></p>
<b>2.1</b>	<p><b>Work not to be Sublet and Action in Case of Insolvency or Attempt to influence contract:</b></p> <p>The contract shall not be assigned or sublet without the prior written approval of the Tendering authority. If the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, before or after the execution of the contract be given, promised or offered by the contractor, or any of his servants or agent or associate to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Tendering authority shall have power to adopt the course specified in Clause 8.3 hereof in the interest of Government and in the event of such course being adopted, the consequences specified in the said Clause shall ensue.</p>
<b>2.2</b>	<p><b>Changes in Contractor's organization to be approved:</b></p> <p>Where the contractor is a partnership firm, the previous approval in writing of the Tendering authority shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement where-under the partnership firm would have the right to carry out the works undertaken by the Contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 2.1 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause.</p>
<b>2.3</b>	<p><b>Contractor to Indemnify Government Against Patent Rights:</b></p> <p>The Contractor shall fully indemnify and keep indemnified the Tendering authority against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights or Intellectual Property Rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Tendering authority, in respect of any such matters as aforesaid, the contractor shall be notified thereof and the contractor</p>

	<p>shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise therefrom, provided that the contractor shall not be liable to indemnify the Tendering authority if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Tendering authority in this behalf.</p>
<p><b>2.4</b></p>	<p><b>Withholding and Lien in Respect of Sums Due from Contractor:</b></p> <p>(i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Tendering authority or the Government shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Tendering authority or the Government shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Tendering authority or the Government shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Tendering authority or the Government or any contracting person through the Tendering authority pending finalization of adjudication of any such claim.</p> <p>It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Tendering authority or Government will be kept withheld or retained as such by the Tendering authority or Government till the claim arising out of or under the contract is determined by the arbitrator (if the contract is governed by the arbitration clause) or by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Tendering authority or the Government shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.</p> <p>(ii) Government shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for Government to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the contractor, without any interest thereon whatsoever.</p> <p>Provided that the Government shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between Engineer on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Tendering authority.</p>



	<p>Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Tendering authority or the Government or any other contracting person or persons through Tendering authority against any claim of the Tendering authority or Government or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Tendering authority or the Government or with such other person or persons.</p> <p>It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Tendering authority or the Government will be kept withheld or retained as such by the Tendering authority or the Government or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.</p>
<p><b>2.5</b></p>	<p><b>Levy/ Taxes Payable By The Contractor:</b></p> <p>(i) Sales Tax or any other tax on materials in respect of this contract shall be payable by the Contractor and the Tendering authority shall not entertain any claim whatsoever in this respect.</p> <p>(ii) The Contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. and other materials from local authorities.</p> <p>(iii) If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Tendering authority and does not any time become payable by the contractor to the State Government or Local authorities in respect of any material used by the contractor in the works then in such a case, it shall be lawful to the Tendering authority and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from the dues of the contractor.</p>
<p><b>2.6</b></p>	<p><b>Conditions for Reimbursement of Levy/Taxes, if Levied after Receipt of Tenders</b></p> <p>All tendered rates shall be inclusive of all taxes and levies payable under respective statutes. However, pursuant to the Constitution (46th Amendment) Act, 1982, if any further tax or levy is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pays such taxes/levies, the contractor shall be reimbursed the amount so paid, provided such payment, if any, is not, in the opinion of the Tendering authority (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor.</p> <p>The contractor shall keep books of accounts and other documents for the purpose of this condition as may be necessary to clearly arrive at such amounts and shall allow inspection of the same by a duly authorized representative of the Tendering authority and further shall furnish such other information/ document as the Tendering authority may require from time to time.</p>
<p><b>2.7</b></p>	<p><b>If the Relation Working in the Department:</b></p> <p>The Contractor shall not be permitted to tender for works with the Tendering authority office in which his near relative is posted as Divisional Accountant or as an officer in any capacity as Engineer. He shall also intimate the names of persons who are near relatives to any Gazetted Officer in the department or in the Ministry who are working with him in any capacity or are subsequently employed by him. Any breach of this condition by the Contractor shall render</p>

	<p>him liable to be removed from the approved list of contractors of the Department. If, however, the contractor is registered in any other department, he shall be debarred from tendering for any breach of this condition.</p> <p>NOTE: By the term “near relatives” is meant wife, husband, parents and grand parents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.</p>
<b>2.8</b>	<p><b>Prohibition to Work as Contractor</b></p> <p>No engineer of gazetted rank or other gazetted officer employed in engineering or administrative duties in an engineering department of the Government of India shall work as a Contractor or employee of a Contractor for a period of two years after his retirement from government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the Contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.</p>
<b>2.9</b>	<p><b>Provisions of the Apprentices Act to be Complied with</b></p> <p>The Contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Engineer may, in his discretion, cancel the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.</p>
<b>3.0</b>	<p><b>Security for performance:</b></p>
<b>3.1</b>	<p><b>Performance Guarantee:</b></p> <p>(i) The Contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the contract price in addition to other deposits mentioned elsewhere in the contract for his proper performance and due fulfilment of the terms and conditions of the Contract, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Bid Data from the date of issue of letter of acceptance. This period can be further extended by the Tendering authority up to a maximum period as specified in bidding data on written request of the contractor stating the reason for delays in procuring the Bank Guarantee, to the satisfaction of the Tendering authority. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque/Demand Draft/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank in accordance with the form annexed hereto. In case a fixed deposit receipt is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt when demanded, the loss caused thereby shall fall on the contractor and on demand the contractor shall forthwith furnish additional acceptable security to the Government to make good the deficit.</p> <p>(ii) The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days thereafter. In case the time for completion of work gets enlarged, the Contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the Contractor, without any interest.</p>

	<p>(iii) The Tendering authority shall not make a claim under the performance guarantee except for amounts to which the Tendering authority is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the Contract) in the event of:</p> <p>a) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Tendering authority may claim the full amount of the Performance Guarantee.</p> <p>b) Failure by the Contractor to pay the Tendering authority any amount due, either as agreed by the contractor or determined under any of the Clauses/ Conditions of the Contract, within 30 days of the service of notice to this effect by Tendering authority.</p> <p>(iv) In the event of the Contract being determined or rescinded under provision of any of the Clause/ Condition of the Contract, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Tendering authority. All compensations or the other sums of money payable by the Contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due to or may become due to the Contractor by the Tendering authority on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the Contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favour of the Tendering authority, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills of the Contractor at the rates mentioned above and the Earnest money if deposited in cash at the time of tenders will be treated a part of the Security Deposit.</p> <p>Note-1: Government papers tendered as security will be taken at 5% (five per cent) below its market price or at its face value, whichever is less. The market price of Government paper would be ascertained by the Tendering authority at the time of collection of interest and the amount of interest to the extent of deficiency in value of the Government paper will be withheld if necessary.</p> <p>Note-2: Government Securities will include all forms of Securities mentioned in rule No. 275 of the G.F. Rules except fidelity bond. This will be subject to the observance of the condition mentioned under the rule against each form of security.</p> <p>(v) The performance Guarantee shall be continuous and revolving for the whole of the warranty period. In case, the Bank Guarantee is invoked during the warranty period, the Bank Guarantee shall be replenished by an equal amount within 15 days by the contractor.</p>
<b>3.2</b>	<p><b>Recovery of Security Deposit:</b></p> <p>In the alternative to deposit of Performance Guarantee under clause 3.1, the Tendering authority may, in its discretion which is final, agree to deduct a sum at the rate of 10% of the gross amount of each running bill of the Contractor till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the bid value of the work. Such deductions will be made and held by Government by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in cash or in the form of Government Securities or fixed deposit receipts.</p>
<b>4</b>	<b>Execution of Work</b>
<b>4.1</b>	<b>Works To Be Executed In Accordance With Specifications, Drawings, Orders Etc.:</b>

	<p>The Contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The Contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Tendering authority and the Contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications specified in Bidding Data or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract.</p> <p>The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.</p>
<p><b>4.2</b></p>	<p><b>Deviations/Variations Extent and Pricing:</b></p> <p>The Tendering authority shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the Contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Tendering authority and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the Contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the Contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.</p> <p>The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the Contractor, as follows:</p> <ul style="list-style-type: none"> <li>(i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus</li> <li>(ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Tendering authority.</li> </ul> <p>In the case of extra item(s) the Contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Tendering authority shall within one month of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the Contractor, determine the rates on the basis of the market rates and the Contractor shall be paid in accordance with the rates so determined.</p> <p>In the case of substituted items, the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the aforesaid para.</p> <ul style="list-style-type: none"> <li>(i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted) the rate payable to the Contractor for the substituted item shall be the rate for the agreement item (to be substituted) so</li> </ul>

	<p>increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</p> <p>(ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</p> <p>In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in Bidding Data, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis, for the work in excess of the abovementioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities the Tendering authority shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.</p> <p>The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Bidding Data, and the Tendering authority shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.</p> <p>The Contractor shall send to the Tendering authority once every three months an up to date account giving complete details of all claims for additional payments to which the Contractor may consider himself entitled and of all additional work ordered by the Tendering authority which he has executed during the preceding quarter failing which the Contractor shall be deemed to have waived his right. However, the Tendering authority may authorize consideration of such claims on merits.</p> <p>(i) For the purpose of operation deviation limit as provided in the Bidding Data, the following works shall be treated as works relating to foundation:</p> <p>(ii) For buildings, compound walls plinth level or 1.2 meters (4 feet) above ground level whichever is lower excluding items of flooring and D.P.C. but including base concrete below the floors.</p> <p>(iii) For abutments, piers, retaining walls of culverts and bridges, walls of water reservoirs the bed of floor level.</p> <p>(iv) For retaining walls where floor level is not determinate 1.2 meters above the average ground level or bed level.</p> <p>For Roads all items of excavation and filling including treatment of sub-base. Any operation incidental to or necessarily has to be in contemplation of tenderer while filing tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.</p>
<p><b>4.3</b></p>	<p><b>Action in Case Work not Done as per Specifications:</b></p> <p>All works under or in course of execution or executed in pursuance of the contract shall at all times be open and accessible to the inspection and supervision of the Tendering authority, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Control Organization of the Department and of the Chief Technical Examiner's Office, and the Contractor shall, at all times, during the usual working hours and at all other times at</p>

	<p>which reasonable notice of the visit of such officers has been given to the Contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor’s agent shall be considered to have the same force as if they had been given to the Contractor himself.</p> <p>If it shall appear to the Tendering authority or his authorized subordinates in-charge of the work or to the Engineer in charge of Quality Control or his subordinate officers or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract the Contractor shall, on demand in writing which shall be made within six months of the completion of the work from the Tendering authority specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Tendering authority in his demand aforesaid, then the Contractor shall be liable to pay compensation at the same rate as under clause 8.2 of the contract (for non-completion of the work in time) for this default.</p> <p>In such case the Tendering authority may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the competent authority may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the Contractor. Decision of the Tendering authority to be conveyed in writing in respect of the same will be final and binding on the Contractor.</p>
<p><b>4.4</b></p>	<p><b>Contractor Liable For Damages, Defects During Defects liability period:</b></p> <p>If the Contractor or his working staff or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within the period as specified in the Bidding Document after a certificate final or otherwise of its completion shall have been given by the Tendering authority as aforesaid arising out of defect or improper materials or workmanship the Contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the Contractor, or <b>from his security deposit or the proceeds of sale thereof</b> or of a sufficient portion thereof. The security deposit of the Contractor shall not be refunded before the expiry defects liability period after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. In case of Maintenance and Operation works of E&amp;M services, the security deposit deducted from Contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract whichever is earlier.</p>
<p><b>4.5</b></p>	<p><b>Contractor Shall Supply Tools &amp; Plants, etc:</b></p> <p>The Contractor shall provide at his own cost all materials , plant, tools, appliances , implements, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included</p>

	<p>in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Tendering authority as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage thereof to and from the work. The Contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Tendering authority at the expense of the Contractor and the expenses may be deducted, from any money due to the Contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.</p>
<p><b>4.6</b></p>	<p><b>Employment of Technical Staff and Employees:</b></p> <p>Contractors Superintendence, Supervision, Technical Staff &amp; Employees</p> <p>(i) The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract. The contractor shall immediately after receiving letter of acceptance of the Bid and before commencement of the work, intimate in writing to the Tendering authority the name(s), qualifications, experience, age, address(s) and other particulars along with certificates of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Bidding Document. The Tendering authority shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the bid accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Tendering authority and shall be available at site before start of work. All the provisions applicable to the principal technical representative under the clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Tendering authority and/or his designated representative to take instructions. Instructions given to the technical representative(s) shall be deemed to have the same post as if these have been given to the contractor. The principal technical representative(s) shall be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurement of works and whenever so required by the Tendering authority and shall also note down instructions conveyed by the Tendering authority or his designated representative(s) in the Site Order Book and shall affix his/their signature(s) in token of noting down the instructions and in token of acceptance of measurements/checked measurements/test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Tendering authority of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days. If the Tendering authority, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or/is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified in</p>

	<p>Bidding Data and the decision of the Tendering authority as recorded in the Site Order Book and measurements recorded, checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint a suitable principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Tendering authority shall have full powers to suspend the execution of the work until such date as a suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) along with every on account bill/final bill and shall produce evidence if at any time so required by the Tendering authority.</p> <p>(ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work. The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work. The minimum strength of trained and certified workers shall be 5 % of the total strength employed. The accepted certification shall be granted by government authorize organizations.</p> <p>(iii) The Tendering authority shall be at liberty to object to and require the Contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Tendering authority to be undesirable. Such person shall not be employed again at works site without the written permission of the Tendering authority and the persons so removed shall be replaced as soon as possible by competent substitutes.</p>
<p><b>5.0</b></p>	<p><b>Materials and Machineries</b></p>
<p><b>5.1</b></p>	<p><b>Materials to be Provided by the Contractor :</b></p> <p>The Contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Tendering authority.</p> <p>The Contractor shall, at his own expense and without delay, supply to the Tendering authority samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The Contractor shall, if requested by the Tendering authority furnish proof, to the satisfaction of the Tendering authority that the materials so comply. The Tendering authority shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Tendering authority for his approval fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Tendering authority shall be issued after the test results are received.</p> <p>The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Tendering authority. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.</p> <p>The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Tendering authority may require for collecting, and preparing the required number of</p>



	<p>samples for such tests at such time and to such place or places as may be directed by the Tendering authority and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Tendering authority or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the Contractor shall afford every facility and every assistance in obtaining the right to such access.</p> <p>The Tendering authority shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Tendering authority shall be at liberty to employ at the expense of the Contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Tendering authority shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Tendering authority because the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor.</p>
<p><b>5.2</b></p>	<p><b>Dismantled Material Government Property:</b></p> <p>The Contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as Government's property and such materials shall be disposed off to the best advantage of Government according to the instructions in writing issued by the Tendering authority.</p>
<p><b>5.3</b></p>	<p><b>Arrangement for Water for Construction:</b></p> <p>The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions:</p> <ul style="list-style-type: none"> <li>(i) That the water used by the Contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer.</li> <li>(ii) The Engineer shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer, unsatisfactory.</li> </ul> <p>Water if available may be supplied to the contractor by the Tendering authority subject to the following conditions:</p> <ul style="list-style-type: none"> <li>(i) The water charges @ 1% shall be recovered on gross amount of the work done.</li> <li>(ii) The contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main source of supply.</li> <li>(iii) The Department do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the contractor(s) to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the Government water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down. Where there is no piped water supply arrangement and the water is taken by the Contractor from the wells or hand pump constructed by the Government, no charge shall be recovered from the Contractor on that account except the costs of pumping out such water, power, diesel, water pumps etc. The Contractor shall, however, draw water at such hours of the day that it does not interfere with the normal use for which the hand pumps and wells are intended. He will also be responsible for all damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from him. The Tendering authority shall be the final authority to determine the cost recoverable from the Contractor on this account and his decision shall be binding on the Contractor. The Contractor shall be allowed to construct temporary wells in Government land for taking water for</li> </ul>

	<p>construction purposes only after he has got permission of the Tendering authority in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.</p>
<p><b>5.4</b></p>	<p><b>Use of Asphaltic Material:</b></p> <p>(i) The Contractor agrees and undertakes to make arrangement for the supervision of the work by the firm supplying the tar or bitumen used.</p> <p>(ii) The Contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Tendering authority. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution for reasons other than authorized changes of specifications and abandonment of portion of work, a corresponding deduction equivalent to the cost of unused materials as determined by the Tendering authority shall be made and the material return to the Contractors. Although the materials are hypothecated to Government, the Contractor agrees and undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Tendering authority in writing.</p> <p>(iii) The Contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating to asphaltic work shall be refunded after the expiry of this period.</p>
<p><b>6.0</b></p>	<p><b>Measurement and Payment</b></p>
<p><b>6.1</b></p>	<p><b>Measurements of Work Done:</b></p> <p>Engineer shall, except as otherwise provided, ascertain and determine by measurement the value in accordance with the contract of work done.</p> <p>All measurement of all items having financial value shall be entered in Measurement Book and/or level field book so that a complete record is obtained of all works performed under the contract.</p> <p>All measurements and levels shall be taken jointly by the Engineer or his authorized representative and by the contractor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.</p> <p>If for any reason the contractor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer or his representative, the Engineer shall not entertain any claim from contractor for any loss or damages on this account. If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer or his representative shall be deemed to be accepted by the Contractor.</p> <p>The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.</p> <p>Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by</p>

	<p>specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.</p> <p>The Contractor shall give not less than seven days' notice to the Tendering authority or his authorized representative in-charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Tendering authority or his authorized representative in-charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Tendering authority's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.</p> <p>Tendering authority or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.</p> <p>It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the Contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.</p>
<p><b>6.2</b></p>	<p><b>Intermediate Payment: NOT APPLICABLE</b></p>

<p><b>6.3</b></p>	<p><b>Completion Certificate And Completion Plans:</b></p> <p>Within ten days of the completion of the work, the Contractor shall give notice of such completion to the Tendering authority and within thirty days of the receipt of such notice the Tendering authority shall inspect the work and if there is no defect in the work, shall furnish the Contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution thereof, and not until the work shall have been measured by the Tendering authority. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Tendering authority may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.</p> <p>When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing, colour washing, painting etc., on walls, floor, windows, etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done without waiting for the actual completion of all the other items of work in the contract. In case the Contractor fails to comply with the requirements of this clause, the Tendering authority shall have the right to get this work done at the cost of the Contractor either departmentally or through any other agency. Before taking such action, the Tendering authority shall give ten days notice in writing to the contractor.</p>
<p><b>6.4</b></p>	<p><b>Payment of Final Bill:</b></p> <p>The final bill shall be submitted by the Contractor in the same manner as specified in interim bills within one months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Tendering authority whichever is earlier. No further claims shall be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Tendering authority, will, as far as possible be made within a period of three months, the period being reckoned from the date of receipt of the bill by the Engineer, complete with account of dismantled materials.</p>
<p><b>6.5</b></p>	<p><b>Release of Security Deposit after Labour Clearance:</b></p>

	<p>Security Deposit of the work shall not be refunded till the Contractor produces a clearance certificate from the Labour Officer. As soon as the work is virtually complete the Contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Tendering authority. The Tendering authority, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the Contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.</p>
<p><b>6.6</b></p>	<p><b>Secured Advance on non-Perishable Materials:</b></p> <p>The Contractor, on signing an indenture in the form to be specified by the Tendering authority, shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials which are in the opinion of the Tendering authority non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/ deducted from the next payment made under any of the clause or clauses of this contract.</p> <p>Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Tendering authority provided the Contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Tendering authority shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.</p>
<p><b>6.7</b></p>	<p><b>Compensation During Warlike Situation:</b></p> <p>The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the Contractor until the work has been delivered to the Tendering authority and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation (i.e. war, border skirmishes, invasion, act of foreign enemies, rebellion, revolution, insurrection of military or usurped powers, or civil war, action against terrorist/ militants), the Contractor shall, when ordered (in writing) by the Tendering authority to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Tendering authority, such payments being in addition to compensation up to the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Tendering authority. The Contractor shall be paid for the damages/destruction suffered and for the restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Tendering authority regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.</p> <p>Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officers or the Tendering authority (b) for any material etc. not on the site of the work or for any tools, plant, machinery,</p>

	<p>scaffolding, temporary building and other things not intended for the work.</p> <p>In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Tendering authority.</p>
<b>7.0</b>	<b>Observance of Labour Regulation</b>
<b>7.1</b>	<p><b>Recovery Of Compensation Paid To Workmen:</b></p> <p>In every case in which by virtue of the provisions sub-section (1) of Section 12, of the Workmen's Compensation Act, 1923, Government is obliged to pay compensation to a workman employed by the contractor, in execution of the works, Government will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the Government under sub-section (2) of Section 12, of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise. Government shall not be bound to contest any claim made against it under sub-section (1) Section 12, of the said Act, except on the written request of the contractor and upon his giving to Government full security for all costs for which Government might become liable in consequence of contesting such claim.</p>
<b>7.2</b>	<p><b>Ensuring Payment and Amenities To Workman, If Contractor Fails:</b></p> <p>In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, Government is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 7.10 or under the Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by Contractors, Government will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the Government under sub-section(2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise Government shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the Government full security for all costs for which Government might become liable in contesting such claim.</p>
<b>7.3</b>	<p><b>Labour Laws to be Complied</b></p> <p>The Contractor shall obtain a valid licence under the Contract Labour (R&amp;A) Act 1970, and the Contract Labour (Regulation and Abolition) Central Rules 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.</p> <p>The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment &amp; Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.</p> <p>Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.</p> <p>No labour below the age of fourteen years shall be employed on the work.</p>

<p><b>7.4</b></p>	<p><b>Payment of Wages:</b></p> <p>(i) The Contractor shall pay to labour employed by him either directly or through sub-contractors, wages not less than fair wages as defined in Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.</p> <p>(ii) The Contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his subcontractors in connection with the said work, as if the labour had been immediately employed by him.</p> <p>(iii) In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the Contractor shall comply with or cause to be complied with the contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorisedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.</p> <p>(iv) (a) The Tendering authority concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract forth benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.</p> <p>(b) Under the provision of Minimum Wages (Central) Rules 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Tendering authority shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Tendering authority concerned.</p> <p>(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, <b>Minimum Wages Act, 1948</b>, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the <b>Contractor's Labour (Regulation and Abolition) Act 1970</b>, or the modifications thereof or any other laws relating thereto and the rules made thereunder from time to time.</p> <p>(vi) The contractor shall indemnify and keep indemnified Government against payments to be made under and for the observance of the laws aforesaid and the Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.</p> <p>(vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.</p> <p>(viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the Contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.</p>
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	(ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.
<b>7.5</b>	<p><b>Arrangement for Safety Provisions</b></p> <p>In respect of all labour directly or indirectly employed in the work for the performance of the Contractor's part of this contract, the Contractor shall at his own expense arrange for the safety provisions as per. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the Contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.500/- for each default and in addition the Tendering authority shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the Contractor.</p>
<b>7.6</b>	<p><b>Submission Of Labour Return</b></p> <p>The contractor shall submit by the 4th and 19th of every month, to the Engineer a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:</p> <ol style="list-style-type: none"> <li>(1) the number of labourers employed by him on the work,</li> <li>(2) their working hours,</li> <li>(3) the wages paid to them,</li> <li>(4) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and</li> <li>(5) the number of female workers who have been allowed maternity benefit according to Clause 7.8 and the amount paid to them.</li> </ol> <p>Failing which the Contractor shall be liable to pay to Government, a sum not exceeding Rs.500/- for each default or materially incorrect statement. The decision of the Tendering authority shall be final in deducting from any bill due to the Contractor the amount levied as fine and be binding on the contractor.</p>
<b>7.7</b>	<p><b>Rules Framed By Govt. To Be Complied</b></p> <p>In respect of all labour directly or indirectly employed in the works for the performance of the Contractor's part of this contract, the Contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the contractors.</p>
<b>7.8</b>	<p><b>Leave And Pay Regulations</b></p> <p>Leave and pay during leave shall be regulated as follows:</p> <ol style="list-style-type: none"> <li>1. Leave: <ol style="list-style-type: none"> <li>(i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day,</li> <li>(ii) in the case of miscarriage – up to 3 weeks from the date of miscarriage.</li> </ol> </li> <li>2. Pay: <ol style="list-style-type: none"> <li>(i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.</li> <li>(ii) in the case of miscarriage - leave pay at the rate of average daily earning</li> </ol> </li> </ol>



	<p>calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.</p> <p>3. Conditions for the grant of Maternity Leave: No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave.</p> <p>4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form , and the same shall be kept at the place of work.</p>
<b>7.9</b>	<p><b>Default of any of the Provisions of Contractors' Labour Regulations</b></p> <p>In the event of the contractor(s) committing a default or breach of any of the provisions , Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Govt. a sum not exceeding Rs500/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Tendering authority shall be final and binding on the parties. Should it appear to the Engineer that the contractor(s) is/ are not properly observing and complying with the provisions of the Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour ( R&amp; A) Central Rules 1971, for the protection of health and sanitary arrangements for work-people employed by the contractor(s) (hereinafter referred as "the said Rules") the Tendering authority shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/ observe the said Rules and to provide the amenities to the work-people as aforesaid, the Tendering authority shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor(s). The contractor(s) shall erect, make and maintain at his/their own expense and to approved standards all necessary tents and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Tendering authority shall have power to give notice in writing to the contractor(s) requiring that the said tents and sanitary arrangements be remodelled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Tendering authority shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).</p>
<b>7.10</b>	<p><b>Provision Of Tents, Water Supply to the Labourer</b></p> <p>The contractor(s) shall at his/their own cost provide his/their labour with following facilities</p> <ol style="list-style-type: none"> <li>a) Sufficient numbers of tents.</li> <li>b) Sufficient numbers of latrines and urinals covered by tents.</li> <li>c) Sufficient quantity of water for drinking and other purposes.</li> <li>d) Proper drainage and sanitation.</li> </ol>
<b>7.11</b>	<p><b>Removal of Contractor's Employee</b></p> <p>The Tendering authority may require the contractor to dismiss or remove from the site of the</p>

	work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements.
<b>8.0</b>	<b>Operation of contract</b>
<b>8.1</b>	<p><b>Time and Extension for Delay</b></p> <p>The time allowed for execution of the Works as specified in the Bidding data or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in letter of acceptance or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money &amp; performance guarantee absolutely.</p> <p>As soon as possible after the Contract is concluded the Contractor shall submit a Time and Progress Chart and get it approved by the Tendering authority. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Tendering authority and the Contractor and further to ensure good progress during the execution of the work, the contractor shall in all cases complete the work as per the schedule.</p> <p>If the work(s) be delayed by:</p> <ul style="list-style-type: none"> <li>(i) force majeure events, or</li> <li>(ii) abnormally bad weather, or</li> <li>(iii) serious loss or damage by fire, or</li> <li>(iv) civil commotion, local commotion of workmen, strike (excluding by Party's employees) or lockout (excluding by Party's employees), affecting any of the trades employed on the work, or</li> <li>(v) delay on the part of other contractors or tradesmen engaged by Tendering authority in executing work not forming part of the Contract, or</li> <li>(vi) any other cause which, in the absolute discretion of the authority mentioned in Bidding Data is beyond the Contractor's control and not brought about at the instance of the Contractor claiming to be affected by such event.</li> </ul> <p>then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Tendering authority but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Tendering authority to proceed with the works. Request for rescheduling of work and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.</p> <p>In any such case the authority mentioned in Bidding Data may give a fair and reasonable extension of time. Such extension shall be communicated to the Contractor by the Tendering authority in writing, within 2 months of the date of receipt of such request. Non application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Tendering authority and this shall be binding on the contractor.</p>
<b>8.2</b>	<p><b>Compensation For Delay</b></p> <p>If the contractor fails to maintain the required progress in terms of clause 8.1 or to complete</p>

	<p>the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the competent authority (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/ week (as applicable) that the progress remains below that specified in Clause 8.1 or that the work remains incomplete.</p> <p>This will also apply to items or group of items for which a separate period of completion has been specified.</p> <p>Compensation @ 1.0 % per week of delay for delay of work to be computed on per day basis for repairs work up to Rs. 10 Lakh and for all other works 0.5% of the contract value per week of delay subject to maximum of 10% of contract value.</p> <p>Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Bid Value of work or of the Bid Value of the item or group of items of work for which a separate period of completion is originally given.</p> <p>The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government.</p>
<p><b>8.3</b></p>	<p><b>When Contract Can Be Determined</b></p> <p>Subject to other provisions contained in this clause, the Tendering authority may, without prejudice to his any other rights or remedy against the Contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:</p> <ul style="list-style-type: none"> <li>(i) If the contractor having been given by the Tendering authority a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workmanlike manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.</li> <li>(ii) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.</li> <li>(iii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Tendering authority (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Tendering authority.</li> <li>(iv) If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Tendering authority.</li> <li>(v) If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Tendering authority.</li> <li>(vi) If the contractor commits any acts mentioned in Clause 2.1 hereof; or</li> <li>(vii) If the work is not started by the contractor within 1/8th of the stipulated time. When the contractor has made himself liable for action under any one or more of the cases aforesaid, the Tendering authority on behalf of the President of India shall have powers:</li> </ul>

	<p>a) To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of the Tendering authority shall be conclusive evidence). Upon such determination or rescission, the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government/ the Tendering authority.</p> <p>b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined or rescinded as above, shall not be allowed to participate in the tendering process for the balance work.</p> <p>In the event of above courses being adopted by the Tendering authority, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Tendering authority has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.</p>
<p><b>8.4</b></p>	<p><b>Foreclosure of Contract due to Abandonment or Reduction In Scope of Work</b></p> <p>If at any time after acceptance of the bid, the Tendering authority/ Government shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Tendering authority shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.</p> <p>The contractor shall be paid at contract rates full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer for the items hereunder mentioned which could not be utilised on the work to the full extent in view of the foreclosure:</p> <ul style="list-style-type: none"> <li>(i) Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.</li> <li>(ii) Government shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however, Government shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by Government, cost of such materials as detailed by Engineer shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.</li> <li>(iii) Reasonable compensation for transfer of T &amp; P from site to contractor's permanent</li> </ul>

	<p>stores or to his other works, whichever is less. If T &amp; P are not transported to either of the said places, no cost of transportation shall be payable.</p> <p>(iv) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.</p> <p>The contractor shall, if required by the Engineer furnish to him books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.</p> <p>The reasonable amount of items on (i), (iii) and (iv) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted bid less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Government as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Tendering authority shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Government from the contractor under the terms of the contract.</p>
<p><b>8.5</b></p>	<p><b>Cancellation Of Contract In Full Or Part</b></p> <p>If Contractor:</p> <p>(i) at any time makes default in proceeding with the works or any part of the work with the due diligence and continues to do so after a notice in writing of 7 days from the Tendering authority; or</p> <p>(ii) commits default to complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Tendering authority; or</p> <p>(iii) fails to complete the works or items of work with individual dates of completion, on or before the date(s) of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Tendering authority; or</p> <p>(iv) shall offer or give or agree to give to any person in Government service or to any other person of his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government; or</p> <p>(v) shall enter into a contract with Government in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Accepting Authority/Tendering authority; or</p> <p>(vi) shall obtain a contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering; or</p> <p>(vii) being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or</p> <p>(viii) being a company, shall pass a resolution or the Court shall make an order for the winding up of the company, or a receiver or manager on behalf of the debenture holders or otherwise shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager; or</p>

	<p>(ix) shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days; or</p> <p>(x) assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Accepting Authority;</p> <p>The Accepting Authority may, without prejudice to any other right or remedy which shall have accrued or shall accrue hereafter to Government, by a notice in writing to cancel the contract as a whole or only such item of work in default from the Contract.</p> <p>The Tendering authority shall on such cancellation by the Accepting Authority have powers to:</p> <p>(i) take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or</p> <p>(ii) carry out the incomplete work by any means at the risk and cost of the contractor.</p> <p>On cancellation of the contract in full or in part, the Tendering authority shall determine what amount, if any, is recoverable from the contractor for completion of the works or part of the works or in case the works or part of the works is not to be completed, the loss or damage suffered by Government. In determining the amount, credit shall be given to the contractor for the value of the work executed by him up to the time of cancellation, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor.</p> <p>Any excess expenditure incurred or to be incurred by Government in completing the works or part of the works or the excess loss or damages suffered or may be suffered by Government as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Government in law be recovered from any moneys due to the contractor on any account, and if such moneys are not sufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.</p> <p>If the contractor shall fail to pay the required sum within the aforesaid period of 30 days, the Tendering authority shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale thereof towards the satisfaction of any sums due from the contractor under the contract and if thereafter there be any balance outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract.</p> <p>Any sums in excess of the amounts due to Government and unsold materials, constructional plant, etc., shall be returned to the contractor, provided always that if cost or anticipated cost of completion by Government of the works or part of the works is less than the amount which the contractor would have been paid had he completed the works or part of the works, such benefit shall not accrue to the contractor.</p>
<p><b>8.6</b></p>	<p><b>Termination Of Contract After Death Of Contractor</b></p> <p>Without prejudice to any of the rights or remedies under this contract if the Contractor dies, the Divisional Officer on behalf of the President of India shall have the option of terminating the contract without compensation to the Contractor.</p>
<p><b>9.0</b></p>	<p><b>Dispute Resolution Mechanism</b></p> <p>Except where otherwise provided in the contract, all questions and disputes relating to the</p>

	<p>meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:</p>
<p><b>9.1</b></p>	<p><b>Dispute Resolution Board</b></p> <p>If any dispute arises between the Tendering authority and the Contractor in connection with, or arising out of, the Contract or the execution of the Works, whether during the execution of the Works or after their completion and whether before or after the repudiation or other termination of the Contract, including any disagreement by either party with any action, inaction, opinion, instruction, determination, certificate or valuation of the Engineer, the matter in dispute shall, in the first place, be referred to the dispute resolution board here in after called "the board."</p> <p>The board shall comprise of members as defined in the bidding data. The board at its discretion may co-opt any other officer if in its opinion it may help in resolving the dispute. Either party may refer a dispute to the Board. The board shall give a decision in writing within 30 days of reference of dispute.</p> <p>Either party may refer a written decision of the board. If neither party refers the disputes to arbitration within 30 days, the board's decision will be final and binding.</p> <p>Tendering authority at its discretion may change any of the member of the board.</p>
<p><b>9.2</b></p>	<p><b>Arbitration</b></p> <p>Any dispute in respect of which the recommendation, if any, of the dispute resolution board has not become final and binding shall be finally settled in accordance with the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modifications or re-enactment thereof and the rules made there under and for the time being in force. The arbitrator shall have full power to open up, review and revise any decision, and any recommendation of the conciliator related to the dispute.</p> <p>A Sole Arbitrator shall be appointed by the appointing authority as defined in contract data within 30 days of receipt of request from either party. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with same reference from the stage at which it was left by his predecessor.</p> <p>It is a term of this contract that the arbitrator shall adjudicate only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases the arbitrator shall give reasons for the award. If any fees is payable to the arbitrator, these shall be paid equally by both the parties.</p> <p>It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counterstatement of claims. The venue of the arbitration shall be such place in India as may be fixed by the arbitrator in his sole discretion.</p> <p>Neither party shall be limited in the proceedings before such arbitrator to the evidence or arguments put before the conciliator for the purpose of obtaining its recommendation/decision. No recommendation shall disqualify conciliator or Tendering authority from being called as a witness and giving evidence before the arbitrator on any</p>

	matter whatsoever relevant to the dispute.
<b>10</b>	<p><b>Miscellaneous provisions</b></p> <p>(i) “Nothing contained in this Contract shall be construed as establishing or creating between the Parties, a relationship of master and servant or principal and agent.</p> <p>(ii) Any failure or delay on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.</p> <p>(iii) The Contractor/Consultant shall notify the Tendering authority/ the Government of India of any material change in their status, in particular, where such change would impact on performance of obligations under this Contract.</p> <p>(iv) Each member/constituent of the Contractor/Consultant, in case of a consortium, shall be jointly and severally liable to and responsible for all obligations towards the Tendering authority/Government for performance of works/services including that of its Associates/Sub Contractors under the Contract.</p> <p>(v) The Contractor/Consultant shall at all times indemnify and keep indemnified the Tendering authority/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under the Project.</p> <p>(vi) The Contractor/Consultant shall at all times indemnify and keep indemnified the Tendering authority/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its (the Contractor’s/Consultant’s) employees or agents or by any other third Party resulting from or by any action, omission or operation conducted by or on behalf of the Contractor/Consultant.</p> <p>(vii) The Contractor/ Consultant shall at all times indemnify and keep indemnified the Tendering authority/Government of India against any and all claims by Employees, Workman, Contractors, sub-contractors, suppliers, agent(s), employed engaged or otherwise working for the Contractor, in respect of wages, salaries, remuneration, compensation or the like.</p> <p>(viii) All claims regarding indemnity shall survive the termination or expiry of the Contract.</p> <p>(ix) It is acknowledged and agreed by all Parties that there is no representation of any type, implied or otherwise, of any absorption, regularization, continued engagement or concession or preference for employment of persons engaged by the (Contractor/Consultant) for any engagement, service or employment in any capacity in any office or establishment of the Government of India or the Tendering authority.</p>
<b>11</b>	<p><b>Laws Governing the Contract:</b></p> <p>This contract shall be governed by the Laws of India for the time being in force.</p>



SECTION IV  
SPECIAL CONDITIONS  
OF  
CONTRACT  
(SCC)

## SECTION IV

### SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special conditions of contract shall apply for this Contract. These special conditions will modify/ substitute/ supplement the corresponding General Conditions of Contract (GCC) incorporated in Section III. The corresponding GCC clause numbers have also been indicated.

In case of any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

S. No.	GCC Clause Number	Subject Matter	SCC Provision
1.	1.1	Definition	The definition of 'Works' includes <b>“Supply, Installation, Commissioning of 584 Digital Water Level Recorders (DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring”</b> as per formats prescribed under Section V: Scope of Work and Technical Specifications. The definition of 'Contractor' includes Consortium/ Joint Venture of maximum six legal entities.
2.	1.5	Signing of Contract	In addition to safety code as provided , the guidelines issued by Honourable Supreme Court in case No. WP(C) 36/2009 on 11.02.2010 shall be applicable for this contract.
3.	3.1	Performance Guarantee	The Performance Security/Guarantee shall be 10% of the Contract Price. The Performance Security shall be valid up to the stipulated date of completion plus Eighty Four months thereafter.
4.	3.2	Recovery of Security Deposit	Not applicable for this contract
5.	4.3	Action in Case Work Not Done as per Specification	Read 'twelve months' in place of 'six months'
6.	4.6	Employment of Technical Staff and Employees	The contractor will have to employ at least one Software professional with adequate experience in the related field.  In the event if contractor fails to comply as above, the recovery at the rate of Rs 2000 per day will be made from the bills submitted. In the event if contractor fails to employ the technical staff the contract is also liable to be terminated.
7.	5.1	Materials to be Provided by the Contractor	Not applicable

<b>S. No.</b>	<b>GCC Clause Number</b>	<b>Subject Matter</b>	<b>SCC Provision</b>
8.	5.3	Arrangement for Water for Construction	Not applicable
9.	5.4	Use of Asphaltic Material	Not applicable
10.	6	Measurement and Payment	May be read as under other terms and conditions.
11.	6.6	Secured Advance on Non-perishable Materials	Not applicable
12.	6.7	Compensation During Warlike Situation	Not applicable
13.	7.6	Submission of Labour Returns	Not applicable
14.	8.2	Compensation for Delay	In case the contractor does not achieve a particular milestone mentioned above the percentage/ amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of extension of time. Withholding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in the subsequent milestone(s), percentage/amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.
15.	8.4	Foreclosure of Contract Due to Abandonment or Reduction in Scope of Work	The decision of tendering authority shall be final
16.	9.1	Dispute Resolution Board	The Dispute Resolution Board shall comprise i) The concerned Member, CGWB under whose jurisdiction the work is being executed ii) The FAO, CGWB iii) The Regional Director, CGWB where work is being executed

17.	9.2	Arbitration	The Chairman, CGWB shall appoint the Arbitrator.
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**Other terms and conditions for this contract are as under:**

**1. Payment terms:**

Payment for Goods and Services to the Supplier under this contract shall be made as follows:

S.N.	Percentage of Payment	Description
1.		No Advance payment shall be made. The payment will be released by respective Regional Director concerned monitoring the project status at the locations specified in tender document.
2.	36% of total contract price	After complete supply and installation of goods at specified locations and upon receipt of uninterrupted data at desired interval for 15 days.
3.	4% of total contract price	After acceptance of proper installation and commissioning of DWLR with telemetry as per contract
4	8% of total contract price	After completion of second year of warranty.
5	8% of total contract price	After completion of third year of warranty.
6	12% of total contract price	After completion of first year of AMC.
7	12% of total contract price	After completion of second year of AMC.
8	20% of total contract price	After completion of third year of AMC.

Payment of instalments at Sl. No. 4 to 8 above shall be released upon submission of proof of having attended preventive maintenance activities including annual validation/calibration of pressure sensors as defined in Scope of Work to the satisfaction of CGWB after deducting the penalties, if any, mentioned in tender document.

**2. Delivery and Completion Schedules**

The delivery and installation schedules are described in Section VII Bill of Quantities. The bidder must adhere to the delivery schedule, installation and commissioning.

**3. Inspection of goods:**

- a. The insurance shall be obtained by the Supplier on "All Risks" basis including War Risks, Strikes, fire, theft, natural calamities like floods, cyclones etc., for all the Goods supplied under the Contract during the periods of supply, transportation, storage, delivery, installation, warranty and annual maintenance periods. The supplier himself is responsible for making claims,

correspond with the insurance agency in support of the loss. The replacement of the part due to theft / damage or any reasons should be done immediately without waiting for the settlement of claim by the insurance agency.

- b. The inspection of the goods shall be carried out to check whether the Goods are in conformity with the technical specifications.
- c. The inspections and tests shall be conducted on the premises of the Supplier or its manufacturer, at the point of delivery. The final destinations of goods are as per the list of locations provided in Section VIII of tender document.

#### **4. Warranty & Maintenance Services**

- a. The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- b. The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- c. The warranty shall remain valid for thirty six (36) months after the installation.
- d. The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- e. Upon receipt of such notice, the Supplier shall, within the period 72 hours, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser. Failure to arrange for repair / replacement attracts penalty of Rs.500/- per day per sensor per station and the penalty starts counting from the date of non-reporting. There is no limit of deduction in maintenance contract and such penalty will be recovered from either from the maintenance charges due to the supplier or from the BG available.
- f. If having been notified, the Supplier fails to remedy the defect within the period of 72 hours, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- g. Free maintenance service shall be provided by the supplier during the warranty. After **3** years warranty period, annual maintenance and repairs of entire system including supply of spares etc., for the next **36** months (**3** years) will be done by the supplier.
- h. The Maximum response time for a maintenance complaint from any of the destination specified shall not exceed 72 hours.
- i. Any defective equipment/part will have to be replaced with an operational equipment/part in case a defect is not rectified within 72 Hours.

- j. The supplier will accomplish preventive and breakdown maintenance activities to ensure that all hardware execute without defect or interruption for at least 98% uptime for 24 hours a day, 7 days a week operation of machine worked on quarterly basis.
- k. The Supplier shall employ a minimum one (1) field maintenance engineer for every 20 DWLR/Telemetry for attending repairs /maintenance on 24 x 7 basis with requisite qualification

**5. Liquidated Damages-** If the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% per week or part thereof of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10% of contract price. Once the maximum is reached, the Purchaser may terminate the Contract.

**6. Installation Arrangements**

Field Visit: For installation and subsequently for maintenance of the stations, the bidder must have team of technical staff to meet the requirement and equipped for field visit. As back up, the system must be designed in such a way and the training component must be strong enough that equipment installation at remote stations can also be done by the purchaser's, if required.

Civil Works: All Civil works during the period of contract ie., six years will be the bidder's responsibility. Bidders shall furnish details and standard drawings of equipment mounting arrangements and installation to the purchaser. Bidders shall also provide the requirements for lightning protection and power supply needed for systems and sensors.

**7. Bidder's Responsibilities**

The real time ground water level data acquisition system described here is considered as a whole and will always include all materials and services required to ensure smooth and sustainable operation, even though they may not be expressly described in the various sections of this document. The Bidder is responsible for offering all works including civil works required for establishment of DWLR/Telemetry and supplying all accessories to ensure that all network components are complete and ready for operation.

The bidder's services will include the following among other elements:

- i. Design, configuration, integration and programming of DWLR/Telemetry shall be according to the technical specifications.
- ii. Provision of detailed instructions and standard designs, drawings for the civil works required for installation of DWLR/Telemetry.
- iii. Testing of all the elements of the real time data acquisition system /network prior to installation.

- iv. Supply and installation of GSM communication devices.
- v. Commissioning of the entire system/network after installation.
- vi. Supply, installation and configuration of the software required for the configuration and operation of each network component, including data loggers.
- vii. Provide hardware and software to be used in the data center. The software shall store data collected by remote stations using GSM protocol and capable of configuring the same to the existing SMPP port for smooth reception of data at datacenter. A non-proprietary software solution such as Post GreSQL is recommended for archival of data at data center to reduce out-year operating costs. The software system will include data quality control that shall allow for the flagging and/or removal of data using threshold analysis. Easy to use interface allowing sensor by sensor quality control for threshold and rate of change data screening is required. Software shall be capable of generating reports both in tabular as well as graph format. The software shall also be capable of generating reports on maintenance activities.
- viii. To provide the data from DWLR/Telemetry in formats that can be directly fed to the existing GWD's application software i.e. eGEMS
- ix. Delivery of full documentation related to all components of the network, including operation and maintenance manuals in English, system integration diagrams and wiring diagrams.
- x. A guarantee by the manufacturer that all equipments being provided will be supported for a minimum of ten years after the commissioning of the real time data acquisition system.
- xi. Supply detailed operation and maintenance manual for each component in the system.
- xii. Providing right and workable telemetry solution that operates in remote low power areas using solar powered technology as per choice of technology and specification given in the Technical specification. All such equipment must comply with requirements of the GSM provider and regulating agencies.
- xiii. Provision of full operation of the system, including Warranty and O & M services including civil works for six years after the Final Acceptance of real time data acquisition system.
- xiv. Provide operation maintenance services for a three (3) years period to commence immediately after the warranty period to include all components at the remote stations under an Annual Maintenance Contract including repair or replace of sensors not working, quarterly preventive maintenance, calibration of sensors once in a year, insurance etc.,
- xv. The Bidder will be responsible for the execution of the civil works and for safe and secure site installation of all the equipment. Bidder is responsible for providing sufficient civil works and installation, including site-specific features such as lightning protection and power supply to the satisfaction of purchaser.
- xvi. The bidder shall be obtain insurance on "All Risks" basis including War Risks, Strikes, fire, theft, natural calamities like floods, cyclones etc., for all the Goods supplied under the Contract during the periods of supply, transportation, storage, delivery,

installation, warranty and annual maintenance periods. The supplier himself is responsible for making claims, correspond with the insurance agency in support of the loss. The replacement of the part due to theft / damage or any reasons should be done immediately without waiting for the settlement of claim by the insurance agency.

- xvii. Employing a minimum one field engineer for every 20 DWLR/Telemetry for repairs/maintenance of DWLR/Telemetry installed at specified locations and one Project Manager to co-ordinate all these related activities.
- xviii. The Bidder shall submit the certificate in testing of Instrument(DWLR) issued by any government authorized agency/Authorised Laboratory.

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## SECTION V

# SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

## SECTION V

### SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

#### **Scope of Work:**

The supplier shall be required to provide all of the following material / services for implementation of Real time ground water level data monitoring System to be installed in the Piezometers of CGWB (as per the state wise list of locations) in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh. The scope of the work would essentially involve

1. “Supply, Installation and Commissioning of about 584 Digital Water Level Recorders (DWLR) and telemetry system in the identified piezometers including arrangements for Protection box of prescribed size, fencing and security arrangements.
2. Establishment of Data Acquisition and transmission system including provision of data card and its maintenance for Real Time Ground Water Level monitoring”
3. Testing the data acquisition and data communication system using GSM/GPRS between the remote stations and the data center / central facility at NIC / CGWB. The SIM card shall be supplied by the bidder and the availability of network shall be the responsibility of the supplier. (For a period of 5 years)
4. Supply of required hardware (except server at Data Centre) and web based software for data handling and storage as well as publishing keeping in view the proposed hosting at NIC Cloud.
5. The data would be measured four times a day with an interval of 6 hours and would be transmitted immediately after necessary processing to the storage centre facility.
6. The data received at the NIC Cloud /CGWB data centre need to be archived in a database in required format after required quality checks and necessary reports be generated (both tabular and graphical) for dissemination. Also the data archived in the database shall be provided

in required formats as specified by CGWB from time to time on real time basis for further use.

7. Security of the equipment's installed at remote locations shall be responsibility of the bidder. The bidder has to provide elaborate arrangements for security and the same to be included in the bid document
8. Supply a detailed operation and maintenance manual for each appropriate unit of supplied Goods.
9. Provide formal and on the job training. This should include operation and maintenance procedures to be carried out at the field stations.
10. Provide operation, maintenance and warranty services for the equipment's and transmission system for one year after the final acceptance test and annual maintenance support for another four years after warranty period.
11. Provide operation maintenance services for a four (4) years period to commence immediately after the warranty period to include all components at the remote stations under an Annual Maintenance Contract including repair or replace of sensors not working, quarterly preventive maintenance, calibration of sensors once in a year, insurance etc.

**Technical Specifications  
for Digital Water Level Recorder with Telemetry System Pressure Type (GW)**

Sr. No.	Feature	Tender Specification
1	<b>Pressure Sensor</b>	
	Sensor Type	Non Vented Gauge Pressure Sensor
	Water Fluctuation measuring Range	The full scale water fluctuation measuring range will be specified by the implementing Agency depending upon their local requirements 0-5/10/20/30/50 m
	Installation Depth	The installation depth will be specified by the implementing Agency depending upon their requirements 0-10/20/50/100/150/200/300m as specified
	Overall Accuracy	0.1% full scale or better
	Temperature Coefficient	<0.01% Full scale/degree centigrade for water temperatures between 10°C and 40°C
	Reproducibility	0.05% full scale
	Long Term Stability	0.1% Full scale and should ensure long term stability without any field calibration requirements except barometric compensation
	Temperature Measuring Range	0 to 50°C
	Accuracy	Better than 0.1°C
	Burst Pressure	>=3 Time Full scale
	Overload Pressure	2 Time full scale without effect on calibration
	Over voltage protection on supply & sensor wires	Over voltage protection should be provided on power supply lines
2	<b>Data Logger</b>	
	Atmospheric Pressure correction	Should be applied automatically
	Resolution of Measurement	1mm or better
	Measuring interval and measuring modes	Should be programmed to store data from 1 minute one reading to 24 hours one reading with future start option. Liner or compressed sampling mode
	Settling up Time	<30minutes after submersion
	Recording Capacity	Non-Volatile flash data storage of more than 100000 data points (at least)
	Memory Type	Non-Volatile memory
	Power Supply	Should be equipped with lithium or alkaline battery pack, giving at least 5 years operation. Battery must be replaceable in the field or in local offices of the implementing Agency or supplier. Replacement batteries must be readily available in India.
	Communication Interface	The Logger must be capable of connection to a computer via USB 2.0 and supply should include the necessary interface cables. The Logger must be capable of connection to a telemetry system
	Operation Temperature	Up to 60°C
	Operating Humidity	Up to 100%
	Built in clock	Accurate to = ±1 min/ year
	Displayed Time Resolution	1 second
	Over-voltage Protection	Should include lightening, over-voltage and surge protection
3	<b>Enclosure for Pressure sensor and Data Logger</b>	Data Logger should be concealed into a single tubular enclosure which is waterproof and corrosion proof.

	Dimension	Outer diameter: <50mm, length less than or equal to 600mm (for sensor & logger only)
	Material	Stainless Steel or superior metal alloy
	Installation	The Data Logger should be provided with a suspension bracket or Well Cap allowing secure installation within the Piezometers' headwork, including appropriate cable mounting to allow the sensor to be adjusted to the required depth, in a stable and reproducible manner
	Ambient Conditions	Up to 60°C and 100% humidity
	Direct Read Cable	The cable shall have following features. <ul style="list-style-type: none"> <li>• Diameter of cable should be less than 30mm</li> <li>• Strength members for good longitudinal stability of cable</li> </ul> The cable and contacts should be fixed or quick connect
4	Telemetry System	GPRS/edge based data transmission system with at least one month power backup (see supplementary Specification)
5	Data Receiving System	Suitable Web based software for data and publishing on website portal to be provided for the display and storage of received data at a Central data Receiving facility at NIC/CGWB.

#### **Supplementary Specification for Data Transmission System**

1. The transmission data system should be tightly integrated with the DWLR along with compact remote/ field mounted systems consisting of data logger, modem and antenna in one single metal cast housing (Die Cast).
2. The system should be watertight (IP67) and impact resistant.
3. The system should allow easy access into the well for control measurements without removing the complete system.
4. The system must be power-supplied by standard lithium/alkaline batteries for operation time at least one year by one set of batteries (Four transmission per day, 4 measurements per day) and must be placed in a separate water resistant (IP67) cylindrical container in the pipe below the main unit or on the surface.
5. The system must have integrated energy management system using free programmable time slots for measurement and transmission to minimize power consumption.
6. The connectors should be water-tight (IP67).
7. An Alarm notification must be sent by the system via SMS to four mobile phone number through suitable means of communication in case of station component failure. This includes battery performance (battery voltage) and life expectancy.
8. A standard USB communication interface should be available for set up and configuration and must be easily accessible.

9. All measurement and setup options, data download and programming of data logger shall also be done by online session similar to all functions at site by direct connection to a PC or PDA without any difference.
10. Option for Bluetooth/IR/Wi-Fi interface should be available.
11. Option for data download/retrieval from remote PC via GSM/GPRS network. Output of this software shall be in standard ASCII/CSV/XML format.
12. The software should be provided to allow download of data from the data logger on to a laptop in the field.

SECTION VI

REGIONWISE  
DISTRIBUTION OF WORK

	SECTION VI
	REGIONWISE DISTRIBUTION OF WORK

**State wise list of Piezometers for Installation of DWLR's**

Sr. No.	Name of the CGWB Consignees	State	DWLR with telemetry Qty. (in Nos.)	DEPTH RANGE (in m)		WATER LEVEL (in mbgl)	
				from	To	Min	Max
1	SR Hyderabad	Andhra Pradesh	6	31	44	6	28
2	NWR Chandigarh	Delhi	23	32	129	4.45	71.79
3	WCR Ahmedabad	Gujarat	40	22	434	0.84	178.37
4	NWR Chandigarh	Haryana	52	40	143	1.6	63.05
5	MER Patna	Jharkhand	3	78	199.92	15.2	48
6	SWR Bangalore	Karnataka	87	40.65	200	0	101.5
7	NCR Bhopal	Madhya Pradesh	23	30.48	179.05	4.85	29.26
8	CR Nagpur	Maharashtra	8	40.6	50.5	1.5	14.6
9	NWR Chandigarh	Punjab	78	30	168	3.44	37.97
10	WR Jaipur	Rajasthan	140	50	250	0.35	106.32
11	SECR Chennai	Tamil Nadu	71	22.75	200	1.3	40.55
12	SR Hyderabad	Telangana	47	30	99	5	60
13	NR Lucknow	Uttar Pradesh	14	40	60	9.33	35
<b>Total Quantity (in Nos.)</b>			<b>592</b>				



SECTION VII  
BILL OF QUANTITIES

## SECTION VII

### BILL OF QUANTITIES

#### BILL OF QUANTITIES

FINANCIAL TENDER FORMAT FOR THIS E-TENDER HAS BEEN UPLOADED IN THE BOQ SECTION IN THE E-TENDERING SYSTEM WHICH IS AN INTEGRAL PART OF THIS TENDER DOCUMENT. THE FINANCIAL TENDER FORMAT FOR THIS E-TENDER MAY BE SEEN IN THE BOQ SECTION ON CPP PORTAL.

#### SCHEDULES OF REQUIREMENTS

Item	Description of Goods	Quantity	Unit	Rate per unit including all taxes	Amount including all taxes
<b>I</b>	“Supply, Installation, Commissioning of 584 Digital Water Level Recorders (DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring” in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh <i>with three years onsite warranty from the date of commissioning, insurance (upto completion of AMC period), all incidental services etc., as mentioned in Section V Scope of Work.</i>	<b>584</b>	<b>Nos</b>		
<b>II.</b>	<i>AMC and other related services as specified in scope of the work after completion of 3 years warranty period.</i>				
1	<i>1<sup>st</sup> year AMC</i>	<b>584</b>	<b>Nos</b>		
2	<i>2<sup>nd</sup> year AMC</i>	<b>584</b>	<b>Nos</b>		
3	<i>3<sup>rd</sup> year AMC</i>	<b>584</b>	<b>Nos</b>		

**Final destination** - As per the list of locations given in Section VIII of tender document.

**Delivery Schedule and installation Date** – 45 days for supply & installation of Digital Ground Water Level Recorders (DWLR) from the date of award of contract.

**Note for BOQ:**

- 1 The evaluation of tender shall be done including all applicable taxes.
- 2 Rates quoted are inclusive of all taxes, duties for the related supplies and services and including service tax which will be paid directly by contractor to concerned tax authorities. The proof for depositing tax whenever requested has to be submitted to CGWB.
- 3 Unit rates and prices shall be quoted by the bidder in Indian rupee.
- 4 Rate should be quoted for DWLRs and AMC for each year separately.
- 5 While quoting the rates unit cost should be given for all the items. The items of work in BOQ deemed to be cover all kind of works/ items involved in Supply, installation & commissioning of Digital Ground Water Level Recorders (DWLR) even though if any specific item is not mentioned in the BOQ. Hence no payment will made for works/items not mentioned in the BOQ separately.
- 6 Bidders have to quote **for all items of work** otherwise will be treated as non-responsive.
- 7 Where there is a discrepancy between the rate in figures and words, the rates in words will govern.
- 8 Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern.

## SECTION VIII

### TENTATIVE LIST OF LOCATIONS

	<b>SECTION VIII</b>
	<b>TENTATIVE LIST OF LOCATIONS</b>

Sl No.	Number of PZ in State	Satate	District	Block	Village	Lat	Long	Depth construct ed	water level	FLUCTU ATION
1	1	A P	ANANTAPUR	Amarapuram	Amarapuram	76.9752	14.1224	40.00	27.80	0.2
2	2	A P	ANANTAPUR	Hindupur	Tumukunta(b h)	78.4763	14.0771	43.90	5.90	1.6
3	3	A P	ANANTAPUR	Madakasira	Madakasira-pz	77.2683	13.9455	42.50	19.60	4
4	4	A P	ANANTAPUR	Rolla	Rolla1	77.1108	13.8510	26.90	20.47	0.27
5	5	A P	ANANTAPUR	Tadipatri	Tadipatri-pz	78.0083	14.9083	31.00	14.65	0.05
6	6	A P	ANANTAPUR	Yadiki	Yadiki-pz	77.8724	15.0698	31.00	12.91	0.51
7	1	UT Delhi	East	Preet Vihar	Gazipur crossing	28.6281	77.3181	33.00	17.66	-0.59
8	2	UT Delhi	East	Preet Vihar	Mayur Vihar, Phase-II	28.6164	77.3044	35.00	6.46	0.06
9	3	UT Delhi	East	Preet Vihar	Chilla Regulator	28.5872	77.3014	83.00	8.19	0.54
10	4	UT Delhi	New Delhi	Connaught Place	India Gate	28.6125	77.2250	35.00	7.46	-0.71
11	5	UT Delhi	New Delhi	Chanakyapuri	Lodhi Garden	28.5903	77.2164	63.00	10.25	-0.2
12	6	UT Delhi	New Delhi	Chanakyapuri	Mahavir Vanasthali	28.6042	77.1750	87.00	25.92	0.25
13	7	UT Delhi	North	Civil Lines	Kingsway Camp	28.6847	77.1994	40.00	6.64	0.61
14	8	UT Delhi	North East	Seelampur	Gokulpuri Deep	28.7042	77.2744	66.00	7.95	-0.72
15	9	UT Delhi	North East	Seelampur	RAF, Wazirabad	28.7158	77.2567	32.00	4.45	-0.37
16	10	UT Delhi	North West	Narela	Singhola	28.8433	77.1294	45.00	14.14	0.12
17	11	UT Delhi	North West	Narela	Barwala	28.7583	77.0625	54.00	5.62	0.95
18	12	UT Delhi	North West	Narela	BBMB Narela	28.8578	77.1183	32.00	17.03	-0.54
19	13	UT Delhi	North West	Narela	Bakoli (Deep)-1	28.8153	77.1517	38.00	9.29	-1.01
20	14	UT Delhi	South		Fatehpur Beri			70.00	50.63	Dry
21	15	UT Delhi	South	Hauz Khas	Hauz Khas	28.5453	77.2022	80.00	35.15	-0.05
22	16	UT Delhi	South	Defence Colony	Sunder Nursery	28.5961	77.2450	62.00	7.75	-0.14
23	17	UT Delhi	South West	Cantonment	Kabul Line	28.5922	77.1275	48.00	26.90	-0.2
24	18	UT Delhi	South West	Najafgarh	Najafgarh	28.6147	77.0006	37.00	19.78	0.98
25	19	UT Delhi	South West	Cantonment	CVD Deep	28.6033	77.1111	129.00	20.50	-0.05
26	20	UT Delhi	South West		Kapashera 1			80.00	71.79	Dry
27	21	UT Delhi	South West	Cantonment	PUSA (WTC)	28.6319	77.1594	39.00	20.65	-0.29
28	22	UT Delhi	West	Patel Nagar	Tagore Garden	28.5786	77.1081	34.00	9.82	-0.38

29	23	UT Delhi	West	Patel Nagar	Vikashpuri	28.6322	77.0742	40.00	12.78	1.09
30	1	Gujarat	Ahmedabad	DASKROI	Ghuma_Pz_I	24°11'20"	72°45'55"	183.00	100.65	5.25
31	2	Gujarat	Ahmedabad	DASKROI	Ghuma_Pz_II	23°03'19"	72°28'33"	34.00	0.84	1.5
32	3	Gujarat	Ahmedabad	DASKROI	Sola_Pz_III	21°45'45"	72°38'20"	64.00	13.48	0.65
33	4	Gujarat	Banaskantha	DEESA	Balodhar_Pz-I	23°10'30"	72°33'30"	193.00	145.21	0.33
34	5	Gujarat	Banaskantha	VADGAM	Jalotra_Pz_I	23°23'23"	72°18'24"	73.00	19.21	6.87
35	6	Gujarat	Banaskantha	THARAD	Mangrol - II	24°31'50"	71°41'50"	120.00	18.42	0.37
36	7	Gujarat	Banaskantha	THARAD	Naroli I	24°36'59"	71°38'19"	156.00	9.01	0.69
37	8	Gujarat	Banaskantha	THARAD	Naroli II	24°36'59"	71°38'19"	94.00	8.12	0.02
38	9	Gujarat	Banaskantha	THARAD	Naroli III	24°36'59"	71°38'19"	35.00	9.25	2.15
39	10	Gujarat	Banaskantha	DHANERA	Rah Pz_I	22°50'00"	72°45'30"	192.00	48.18	0.21
40	11	Gujarat	Banaskantha	DHANERA	Rah Pz_II	23°02'19"	72°27'28"	150.00	41.78	0.41
41	12	Gujarat	Banaskantha	DHANERA	Rah Pz_III	23°02'19"	72°27'28"	53.00	40.73	0.04
42	13	Gujarat	Banaskantha	VADGAM	Rupal_Pz_I	22°02'40"	71°12'50"	83.00	31.05	1.43
43	14	Gujarat	Banaskantha	THARAD	Tharad I	24°23'06"	71°37'10"	121.00	14.81	4.12
44	15	Gujarat	Banaskantha	THARAD	Tharad II	24°23'06"	71°37'10"	65.00	14.72	4.09
45	16	Gujarat	Banaskantha	THARAD	Tharad III	24°23'06"	71°37'10"	30.00	14.34	3.92
46	17	Gujarat	Gandhinagar	MANSA	Amrapur Pz II	21°32'05"	71°22'45"	147.00	84.33	4.01
47	18	Gujarat	Gandhinagar	MANSA	Amrapur Pz I	21°32'05"	71°22'45"	201.00	114.84	12.72
48	19	Gujarat	Gandhinagar	MANSA	Charada_I	23°42'00"	72°43'00"	239.00	185.34	6.97
49	20	Gujarat	Gandhinagar	GANDINAGAR	Chiloda Pz_II	22°59'15"	72°12'15"	151.00	109.84	3.66
50	21	Gujarat	Gandhinagar	GANDHINAGAR	Sardhav_(Rep ) I	24°05'58"	71°46'41"	390.00	115.78	4.02
51	22	Gujarat	Gandhinagar	GANDHINAGAR	Sardhav_(Rep ) II	24°05'58"	71°46'41"	266.00	134.56	3.35
52	23	Gujarat	Kachchh	MANDVI	Asambia mota_Pz	22°36'40"	72°37'15"	25.00	16.45	0
53	24	Gujarat	Mahesana	MAHESANA	Jotana Pz-III	24°00'06"	72°18'21"	136.00	14.60	0.28
54	25	Gujarat	Mahesana	KADI	Kalyanpur	22°36'40"	72°37'15"	30.00	4.96	0.76
55	26	Gujarat	Mahesana	KHERALU	Kheralu (deep)	22°17'40"	72°47'25"	111.00	48.06	4.07
56	27	Gujarat	Mahesana	KHERALU	Kheralu(shallow)	21°28'30"	72°14'10"	30.00	5.69	3.74
57	28	Gujarat	Mahesana	MAHESANA	Mehsana I	24°01'45"	72°00'15"	284.00	151.60	7.91
58	29	Gujarat	Mahesana	MAHESANA	Mehsana II	24°01'45"	72°00'15"	229.00	150.71	7.92

59	30	Gujarat	Mahesana	MAHESANA	Mehsana III	72°00'15"	72°00'15"	165.00	101.56	4.68
60	31	Gujarat	Mahesana	VIJAPUR	Motipura_Pz_I	21°03'15"	70°16'45"	80.00	51.62	5.13
61	32	Gujarat	Mahesana	KADI	Thol_I	24°03'00"	71°56'20"	434.00	66.64	0.34
62	33	Gujarat	Mahesana	KADI	Thol_IV	24°03'00"	71°56'20"	38.00	17.30	0.62
63	34	Gujarat	Mahesana	VISNAGAR	Visnagar iv	23°46'00"	72°05'50"	22.00	2.55	0.15
64	35	Gujarat	Patan	SIDHPUR	Biliya(Temple)_Pz_II	23°53'18"	72°23'55"	285.00	44.70	1.8
65	36	Gujarat	Patan	SIDHPUR	Kakosi_Pz_I	23°25'12"	72°03'41"	187.00	137.95	1.19
66	37	Gujarat	Patan	SIDHPUR	Kakosi_Pz_II	23°25'12"	72°03'41"	83.00	38.46	3.90
67	38	Gujarat	Patan	CHANASMA	Lanwa Pz-I	23°48'05"	72°45'45"	187.00	130.10	56.90
68	39	Gujarat	Patan	PATAN	Matarwadi I	23°28'00"	72°17'50"	194.00	102.52	14.45
69	40	Gujarat	Patan	PATAN	Matarwadi II	23°28'00"	72°17'50"	139.00	69.35	25.45
70	1	Haryana	BHIWANI	KAIRU	JUI KALAN	28°38'09" N	75°56'36" E	103.00	29.27	
71	2	Haryana	BHIWANI	BADHRA	GOPI	28°33'10" N	75°57'20" E	110.00	58.20	
72	3	Haryana	FATEHABAD	RATIA	AHARWAN	29°36'28" N	75°32'30" E	104.00	49.10	
73	4	Haryana	GURGAON	FARUKHNAGAR	FAZILPUR BADLI	28°25'30" N	76°51'30" E	107.00	24.30	-0.59
74	5	Haryana	GURGAON	PATAUDI	SIWARI	28°28'10" N	76°43'25" E	79.00	17.00	0.03
75	6	Haryana	GURGAON	GURGAON	SECTOR 32 - GWC	28°27'50" N	77°02'15" E	60.00	39.89	
76	7	Haryana	GURGAON	SOHANA	MANESAR	28°21'09" N	76°57'17" E	143.00	28.74	
77	8	Haryana	HISAR	HISAR - I	HISSAR	29°08'24" N	75°43'20" E	102.00	7.30	-10.36
78	9	Haryana	HISAR	HISSAR - II	BALSMAND	29°20'20" N	75°30'00" E	108.00	15.59	
79	10	Haryana	HISAR	NARNAUD	NARNAUD	29°07'00" N	75°34'00" E	100.00	12.56	
80	11	Haryana	JIND	NARWANA	MOHAL KHERA	29°38'10" N	76°07'50" E	80.00	4.87	-1.34
81	12	Haryana	KAITHAL	KAITHAL	PEODA	29°44'50" N	76°25'00" E	94.00	12.72	-2.2
82	13	Haryana	KAITHAL	KALAYAT	GUHNA	29°45'57" N	76°15'38" E	109.00	25.09	0.14
83	14	Haryana	KAITHAL	PUNDRI	PUNDRI	29°46'40" N	76°34'30" E	97.00	23.39	-0.32
84	15	Haryana	KAITHAL	RAJOUND	KATHANA	29°32'45" N	76°23'35" E	97.00	14.28	0.22
85	16	Haryana	KAITHAL	SIWAN	KHANPUR	29°51'03" N	76°22'12" E	92.00	35.73	-2.26
86	17	Haryana	KARNAL	ASSANDH	MOUND S	29°31'05" N	76°32'50" E	73.00	24.14	-2.32
87	18	Haryana	KARNAL	GHARAUNDA	DHINGER MAJRA	29°30'10" N	76°55'15" E	92.00		
88	19	Haryana	KARNAL	INDRI	NANHERA/	29°52'10" N	77°05'30" E	65.00	7.75	

89	20	Haryana	KARNAL	KARNAL	Kairiwali	29°37'20" N	77°02'3 0" E	100.00		-2.03
90	21	Haryana	KARNAL	NISSANG	RORAN MAJRA	29°47'15" N	76°43'4 5" E	57.00	21.93	
91	22	Haryana	KARNAL	NILOKHERI	DADUPUR	29°45'57" N	76°58'2 0" E	75.00	16.00	
92	23	Haryana	KURUKSHETR A	ISMAILABAD	MALIKPUR- SINGHPUR	30°00'00" N	76°45'0 5" E	89.00	31.35	3.2
93	24	Haryana	KURUKSHETR A	PEHOWA	BODHNI	30°03'15" N	76°33'3 0" E	67.00	32.23	-2.21
94	25	Haryana	KURUKSHETR A	LADWA	DABKHERA	30°00'02" N	76°45'1 3" E	80.00	33.30	-0.06
95	26	Haryana	KURUKSHETR A	SHAHBAD	SMALKHI	30°14'06" N	76°49'4 0" E	83.00	46.01	-1.02
96	27	Haryana	KURUKSHETR A	THANESAR	Kaulapur	30°01'30" N	76°53'4 5" E	73.00	2.65	35.73
97	28	Haryana	PALWAL	HASSANPUR	PIRGARHI	28°02'40" N	77°28'2 0" E	102.00	9.69	-2.45
98	29	Haryana	PALWAL	HODEL	DIGHOUT	27°58'15" N	77°25'0 0" E	40.00	9.34	-35.86
99	30	Haryana	PALWAL	PIRTHLA	JAWAN	28°13'40" N	77°25'0 0" E	76.00	17.52	0.27
100	31	Haryana	PANIPAT	ISRANA	PUTHER	29°14'00" N	76°52'4 0" E	48.00	8.92	0
101	32	Haryana	PANIPAT	MADLAUDA	ETOLA	29°20'50" N	76°44'3 0" E	50.00	11.02	-1.98
102	33	Haryana	PANIPAT	PANIPAT	BABAIL	29°25'45" N	77°03'0 0" E	75.00	17.12	0.45
103	34	Haryana	PANIPAT	BAPOLI	SANAULI KHURD	29°22'50" N	77°07'2 5" E	67.00	12.50	-5.4
104	35	Haryana	PANIPAT	SAMALKHA	HATHWALA	29°13'35" N	77°07'0 5" E	84.00	5.95	-2.7
105	36	Haryana	REWARI	KHOL	MANDOLA	28°13'40" N	76°21'2 0" E	119.00	63.05	
106	37	Haryana	SIRSA	BARAGUDHA	PHAGGU	29°37'20" N	75°01'2 0" E	90.00	5.50	-1.88
107	38	Haryana	SIRSA	DABWALI	CHOTALA	29°46'25" N	74°31'3 0" E	85.00	10.11	46.01
108	39	Haryana	SIRSA	ODHAN	KALAN WALI MANDI	29°50'20" N	74°59'2 0" E	89.00	7.40	-20.97
109	40	Haryana	SIRSA	ELLENABAD	BHURTWALA	29°25'30" N	74°46'1 5" E	103.00	10.56	
110	41	Haryana	SIRSA	RANIA	MUMMERKHE RA	29°40'20" N	74°39'2 5" E	105.00	19.43	
111	42	Haryana	SIRSA	NS CHOPRA	DARBAKALAN	29°23'30" N	75°05'2 0" E	102.00	1.60	0.17
112	43	Haryana	SIRSA	SIRSA	SIRSA	29°32'09" N	75°02'5 8" E	112.00	32.54	-2.3
113	44	Haryana	SONIPAT	GANAUR	DATAULI	29°09'35" N	77°04'5 0" E	78.00	23.43	
114	45	Haryana	SONIPAT	GOHANA	KHANPUR KALAN	29°09'35" N	76°49'4 0" E	60.00	3.95	-1.69
115	46	Haryana	SONIPAT	RAI	JAYANTI KHURD	28°50'45" N	77°09'3 0" E	57.00	12.79	
116	47	Haryana	SONIPAT	SONEPAT	MURTHAL	29°02'26" N	77°05'2 8" E	76.00	36.20	-0.95
117	48	Haryana	YAMUNA NAGAR	JAGADHRI	BAMBAULI	30°10'00" N	77°12'0 0" E	50.00	22.51	-1.98
118	49	Haryana	YAMUNA NAGAR	MUSTAFABAD	JHIWAR HERI	30°07'30" N	77°05'1 0" E	63.00	31.25	-1.07



119	50	Haryana	YAMUNA NAGAR	RADAUR	DHAURANG	30°04'00" N	77°11'30" E	55.00	14.82	-1
120	51	Haryana	YAMUNA NAGAR	CHACHHRAULI	CHACHHRAULI	30°15'00" N	77°22'00" E	93.00	15.16	-0.6
121	52	Haryana	YAMUNA NAGAR	SADHURA	SADHURA	30°03'07" N	77°07'18" E	47.00	5.00	
122	1	Jharkhand	Ranchi	Kanke	Harmu (SE housing board)	23°21'20"	85°17'40"	199.12	48.00	-1.25
123	2	Jharkhand	Ranchi	Kanke	Kanke, S +2 High school	23°26'20"	85°20'10"	192.30	26.00	
124	3	Jharkhand	East Singhbume	Golmuri-cum Jugsalai	Jasmaha, Automatic mineral division	23°32'12"	84°49'12"	196.00	20.00	
125	1	Karnataka	RAMANAGAR A	KANAKAPURA	Harohalli	12.6800	77.4700	60.00	16.18	0.44
126	2	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Bang Uni Ars Ls	12.7500	77.5100	50.00	26.51	1.08
127	3	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Gsi Pz	12.9100	77.5700	200.00	13.21	-0.67
128	4	Karnataka	MYSORE	TIRUMAKUDAL NARSIPUR	Bannur	12.3200	76.8500	45.00	5.20	-0.37
129	5	Karnataka	MANDYA	PANDAVAPURA	Melukote	12.6600	76.6500	40.00	16.72	0.09
130	6	Karnataka	TUMKUR	TUMKUR	Hebbur Pz	13.1600	77.0300	60.00	19.10	0.00
131	7	Karnataka	TUMKUR	TIPTUR	Tiptur1	13.2600	76.4800	50.00	27.90	-4.62
132	8	Karnataka	TUMKUR	TIPTUR	Kibbanahalli1	13.3100	76.6600	60.00	40.10	-3.27
133	9	Karnataka	MYSORE	PIRIYAPATNA	Bettapura	12.4700	76.1100	53.00	22.75	
134	10	Karnataka	KOLAR	BANGARAPET	Lakkenahalli1	12.8800	78.2700	90.00	-	1.09
135	11	Karnataka	KOLAR	BANGARAPET	Bangarapet	13.0200	78.1600	60.00	-	-5.21
136	12	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Cubbon Park	12.9700	77.5900	116.00	-	2.83
137	13	Karnataka	BANGALORE URBAN	ANEKAL	Anekal	12.7100	77.7000	54.00	26.31	4.49
138	14	Karnataka	BANGALORE URBAN	ANEKAL	Cgwb Workshop	12.8100	77.6700	200.00	2.60	-2.03
139	15	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Jayanagar	12.8700	77.5800	45.00	9.43	0.14
140	16	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Singasandra	12.8700	77.6500	73.70	25.87	1.86
141	17	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	IIM Bannerughatta	12.8900	77.6000	109.00	-	-1.41
142	18	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Varathur	12.9300	77.7400	54.00	31.13	0.26
143	19	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Nimhans	12.9400	77.5900	101.00	-	3.45
144	20	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Adugodi	12.9400	77.7000	58.00	3.08	1.02
145	21	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Lalbagh garden	12.9500	77.5900	60.00	3.30	0.94
146	22	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Indiranagar	12.9700	77.6400	80.00	7.70	1.44
147	23	Karnataka	BANGALORE URBAN	BANGALORE SOUTH	Kannamangal a pz	13.0200	77.7600	60.00	45.37	3.08

148	24	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Indian Institute Of Science	13.0300	77.5700	162.50	30.59	11.34
149	25	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Hebbal2	13.0400	77.5700	77.00	26.10	7.40
150	26	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Jakkur Pz	13.1000	77.6100	139.08	1.32	2.51
151	27	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Rachenahalli	13.1000	77.6100	100.80	10.92	30.70
152	28	Karnataka	BANGALORE URBAN	BANGALORE NORTH	Yelahanka	13.1100	77.6000	65.00	25.20	2.10
153	29	Karnataka	BANGALORE RURAL	HOSKOTE	Hosakote	13.0700	77.7800	66.00	29.49	3.11
154	30	Karnataka	BANGALORE RURAL	DEVANHALLI	Devanhalli	13.2500	77.7200	60.00	23.90	0.43
155	31	Karnataka	KOLAR	BANGARAPET	Kgf	12.9800	78.2600	90.00	-	1.13
156	32	Karnataka	KOLAR	MULBAGAL	Mulbagal	13.1500	78.4000	60.00	-	2.12
157	33	Karnataka	KOLAR	BANGARAPET	Hudukula	13.0700	78.1600	90.00	28.56	1.71
158	34	Karnataka	KOLAR	KOLAR	Kolar	13.1300	78.1300	80.00	-	6.09
159	35	Karnataka	KOLAR	SRINIVASAPURA	Lakshmisagara	13.2400	78.2800	65.00	29.35	3.31
160	36	Karnataka	KOLAR	KOLAR	Dalasanur	13.2700	78.0000	60.00	-	6.88
161	37	Karnataka	CHIK BALLAPUR	CHINTAMANI	Kuruburu	13.3100	78.1000	71.00	41.37	2.17
162	38	Karnataka	CHIK BALLAPUR	CHINTAMANI	Chintamani	13.4000	78.0600	90.00	-	0.36
163	39	Karnataka	CHIK BALLAPUR	SIDLAGHATTA	Madivala	13.5100	77.9600	60.00	-	1.91
164	40	Karnataka	CHIK BALLAPUR	SIDLAGHATTA	Dibburahalli PZ	13.5600	77.9100	50.00	33.90	6.53
165	41	Karnataka	CHIK BALLAPUR	BAGEPALLI	Mittemari	13.7100	77.8700	50.00	40.75	7.61
166	42	Karnataka	CHIK BALLAPUR	GAURIBIDANUR	Gauribidanur	13.6300	77.5700	90.00	-	1.99
167	43	Karnataka	CHIK BALLAPUR	GAURIBIDANUR	Manchenahalli	13.5000	77.5300	30.00	-	0.34
168	44	Karnataka	CHIK BALLAPUR	GAURIBIDANUR	Vidhuraswath	13.6700	77.5000	50.00	43.61	10.94
169	45	Karnataka	KOPPAL	GANGAWATI	Musalpur	15.5400	76.3200	50.00	5.54	4.03
170	46	Karnataka	DAVANGERE	JAGALUR	Bidarakere	14.4300	76.3000	50.00	28.13	23.24
171	47	Karnataka	CHITRADURGA	CHITRADURGA	Pandarahalli pz	14.1500	76.3300	60.00	27.02	3.76
172	48	Karnataka	CHITRADURGA	CHITRADURGA	Holalkere PZ	14.1500	76.3300	60.00	7.20	5.47
173	49	Karnataka	TUMKUR	GUBBI	Hagalavadi1	13.5000	76.7700	50.00	46.50	6.95
174	50	Karnataka	TUMKUR	TIPTUR	Bommanahalli Thanda Pz	13.3800	76.4500	200.00	28.58	1.55
175	51	Karnataka	TUMKUR	TIPTUR	Huchanahatti Pz	13.2900	76.4800	190.00	54.50	
176	52	Karnataka	TUMKUR	TIPTUR	Adinayakanahalli Pz	13.3200	76.5000	200.00	40.66	10.44
177	53	Karnataka	TUMKUR	TIPTUR	Sarathvalli Pz	13.3300	76.4600	200.00	57.23	12.27
178	54	Karnataka	TUMKUR	CHIKNAYAKANHALLI	Sasalu Pz	13.3600	76.5700	181.00	28.67	2.98
179	55	Karnataka	TUMKUR	CHIKNAYAKANHALLI	T.B.Colony Pz	13.3700	76.6300	200.00	37.73	4.53

180	56	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Settikere Pz	13.3800	76.5600	200.00	33.82	0.60
181	57	Karnataka	TUMKUR	TIPTUR	Balavanerlu Pz	13.3800	76.4200	200.00	20.15	2.98
182	58	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Madihalli Pz	13.3900	76.5300	200.00	20.76	2.76
183	59	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Bharanapura Pz	13.4200	76.4800	200.00	21.15	2.92
184	60	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Hosur Pz	13.4200	76.4400	200.00	6.90	3.54
185	61	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Navule Pz	13.4300	76.5700	200.00	71.05	13.29
186	62	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Madapurahat ti Thanda Pz	13.4400	76.5000	200.00	22.32	1.39
187	63	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Ankasandra Pz	13.4600	76.5400	200.00	19.50	38.26
188	64	Karnataka	TUMKUR	CHIKNAYAKANH ALLI	Huliyar1	13.5800	76.5300	60.00	12.09	2.34
189	65	Karnataka	CHIKMAGALU R	TARIKERE	Ajjampur	13.7300	76.0100	60.00	8.95	2.31
190	66	Karnataka	DAVANGERE	DAVANGERE	Hebbalu	14.3800	76.1000	60.00	4.80	4.51
191	67	Karnataka	DAVANGERE	HARIHAR	Harihara Pz	14.5200	75.8100	60.00	8.30	1.94
192	68	Karnataka	DAVANGERE	HARPANAHALLI	Teligi1	14.6500	75.9000	60.00	12.00	4.68
193	69	Karnataka	DAVANGERE	HARPANAHALLI	Halavagal	14.7100	75.7800	90.00	17.30	6.28
194	70	Karnataka	DAVANGERE	HARPANAHALLI	Harakanalu	14.7600	75.7700	65.00	9.70	4.36
195	71	Karnataka	CHITRADURG A	HOLALKERE	Muthugaduru	14.2200	76.1200	67.00	9.02	2.82
196	72	Karnataka	BIJAPUR	INDI	Chadchan pz	17.3100	75.6700	44.50	14.82	5.42
197	73	Karnataka	BIJAPUR	BASAVANA BAGEVADI	Mulawad	16.6600	75.7300	40.00	14.59	3.29
198	74	Karnataka	BELGAUM	BAILAHONGAL	Saundathi	15.8100	74.8600	40.65	40.10	4.54
199	75	Karnataka	BIDAR	HOMNABAD	Homnabad	17.7700	77.1300	46.75	17.60	3.69
200	76	Karnataka	DAKSHINA KANNADA	BANTVAL	Vittal	12.7700	75.1100	90.00	18.10	4.53
201	77	Karnataka	MYSORE	HUNSUR	Karimuddana halli	12.1800	76.3700	47.00	14.85	2.76
202	78	Karnataka	BAGALKOT	BADAMI	Kulageri	15.9200	75.5100	40.00	23.87	-
203	79	Karnataka	BELGAUM	RAMDURG	Ramdurg	15.9300	75.3000	28.45	-	2.21
204	80	Karnataka	TUMKUR	KORATAGERE	Koratagere2	13.5200	77.2300	50.00	2.80	4.04
205	81	Karnataka	TUMKUR	MADHUGIRI	Muddenahalli 1	13.7200	77.2600	55.00	54.70	3.85
206	82	Karnataka	CHITRADURG A	CHALLAKERE	Naikanahatti	14.4700	76.5500	67.00	20.56	1.56
207	83	Karnataka	CHITRADURG A	HIRIYUR	Vanivilasapur a	13.9000	76.4900	80.00	-	5.14
208	84	Karnataka	BELLARY	HADAGALLI	Ittigi	14.9400	76.0900	90.00	31.77	0.15
209	85	Karnataka	GADAG	GADAG	Narayanapura	15.5200	75.7600	65.00	-	-
210	86	Karnataka	BELGAUM	CHIKODI	Sondalaga	16.4800	74.6000	50.40	49.85	6.39
211	87	Karnataka	BELGAUM	CHIKODI	Sadalga	16.5700	74.5400	56.50	11.60	0.30
212	1	M P	DEWAS	DEWAS	Dewas(S)	22°57'2" N	76°3'6" E	30.48	8.74	21.74
213	2	M P	DEWAS	SONKATCH	Sonkutch(D)	22°58'23" N	76°21'8" E	106.68	25.93	80.75
214	3	M P	DHAR	BADNAWAR	Badnawar(D)	23°0'45"	75°15'7"	90.00	13.46	76.54

						N	E			
215	4	M P	DHAR	DHAR	Dhar (D)	22°33'52" N	75°17'3 0" E	120.00	23.21	96.79
216	5	M P	DHAR	DHARAMPURI	Dharampuri Npz	22°9'15" N	75°20'0" E	50.00	11.57	38.43
217	6	M P	DHAR	NALCHHA	Nalchha Npz	22°27'20" N	75°23'4 0" E	50.00	15.02	34.98
218	7	M P	INDORE	DEPALPUR	Depalpur Block	22°50'51" N	75°32'1 2" E	50.00	23.53	26.47
219	8	M P	INDORE	INDORE	Indore(D)	22°42'12" N	75°53'2 2" E	96.00	22.28	73.72
220	9	M P	INDORE	SANWER	Sanwer Block	22°58'46" N	75°49'5 5" E	50.00	22.18	27.82
221	10	M P	MANDSAUR	MANDSAUR	Mandsaur(D)	24°3'27" N	75°5'58" E	78.17	16.14	62.03
222	11	M P	MANDSAUR	SITAMAU	Sitamau(D)	24°0'48" N	75°20'5 2" E	99.60	15.22	84.38
223	12	M P	RATLAM	ALOT	Alot1	23°45'10" N	75°39'0" E	179.05	37.72	141.34
224	13	M P	RATLAM	JAORA	Jaora (d)	23°37'24" N	75°6'30" E	120.00	50.15	69.85
225	14	M P	RATLAM	PIPLODA	Piploda (d)	23°36'26" N	74°56'5 5" E	70.10	27.40	42.70
226	15	M P	RATLAM	RATLAM	Ratlam (d)	23°18'8" N	75°4'12" E	106.50	29.09	77.41
227	16	M P	SATNA	RAMPUR BAGHELAN	Rampur(D)	24°30'40" N	81°3'23" E	30.55	4.85	25.70
228	17	M P	SHAJAPUR	NALKHEDA	*Nalkheda(de ep)	23°50'13" N	76°13'5 0" E	91.43	7.77	83.66
229	18	M P	SHAJAPUR	SUSNER	Soyat	24°8'50" N	76°9'37" E	94.48	10.66	83.82
230	19	M P	SHAJAPUR	MOMAN BADODIA	Jamner(deep)	23°19'28" N	76°45'3" E	120.00	8.50	111.51
231	20	M P	SHAJAPUR	SHUJALPUR	Moman Barodia(S)	23°36'21" N	76°20'2 8" E	101.80	9.46	92.34
232	21	M P	UJJAIN	BADNAGAR	Badnagar(dee p)	23°5'42" N	75°25'3 2" E	91.00	29.26	61.74
233	22	M P	UJJAIN	GHATIA	Nimanwasa Npz	23°22'49" N	75°51'4 3" E	41.00	16.95	24.06
234	23	M P	UJJAIN	UJJAIN	Ujjain(deep)	23°9'52" N	75°48'4 2" E	90.00	6.82	83.18
235	1	Maharastra	Ahmednagar	RAHATA	Rajuri	19.6083	74.5458	50.50	8.30	4.13
236	2	Maharastra	Amravati	DARYAPUR	Landi_pz	21.0292	77.4669	100.50		
237	3	Maharastra	Amravati	DARYAPUR	Karajgaon_Pz	21.4069	78.2022	40.60	5.20	-2.73
238	4	Maharastra	Amravati	MORSHI	Kapus-Talni	21.1536	77.9300	200.50	20.00	
239	5	Maharastra	Amravati	MORSHI	Kolwahir_Pz	21.2717	77.8514	40.60	6.10	1.25
240	6	Maharastra	Amravati	MORSHI	Shirkhed-Pz	21.2181	77.9439	200.50	1.50	
241	7	Maharastra	Amravati	MORSHI	Talni-pz	21.2856	77.9881	200.50		
242	8	Maharastra	Amravati	MORSHI	Yavali_Pz	21.4056	78.0403	40.60	9.5	1.86
243	1	Punjab	Amritsar	Ajnala	Gago Mahal	31°54'00" N	74°40'0 0" E	69.00	5.23	63.77

244	2	Punjab	Amritsar	Chogawan	Chogawan	31°43'00" N	74°40'0 0" E	67.00	10.27	56.73
245	3	Punjab	Amritsar	Jandiala	Jandiala	31°34'00" N	75°02'0 0" E	69.01	18.95	50.06
246	4	Punjab	Amritsar	Tarsika	Nawan Tandel	31°40'00" N	75°09'5 0" E	70.00	10.85	59.15
247	5	Punjab	Barnala	Barnala	Barnala	30°21'45" N	75°31'3 0" E	86.00	34.28	51.72
248	6	Punjab	Barnala	Mahal Kalan	Mahal Kalan	30°31'22" N	75°33'3 3" E	67.45		67.45
249	7	Punjab	Barnala	Sehna	Bhadaur	30°28'30" N	75°19'1 8" E	74.45		74.45
250	8	Punjab	Bathinda	Bathinda	Ganga	30°21'43" N	74°50'0 5" E	55.45	14.15	41.3
251	9	Punjab	Bathinda	Phul	Dhapali	30°21'45" N	75°14'3 0" E	60.61	21.42	39.19
252	10	Punjab	Bathinda	Bhagta Bhai Ke*	Kothaguru	30°26'01" N	75°05'5 9" E	45.52		45.52
253	11	Punjab	Faridkot	Faridkot	Sher Singh Wala	30°40'14" N	74°37'2 3" E	48.45	3.44	45.01
254	12	Punjab	Faridkot	Kot Kapura	Beed Sikhanwala	30°36'30" N	74°51'5 6" E	56.45	9.01	47.44
255	13	Punjab	Fatehgarh Sahib	Bassi Pathana	Bassi Pathana	30°42'45" N	76°22'4 0" E	38.00	18.10	19.9
256	14	Punjab	Fatehgarh Sahib	Khera	Badali Ala Singh	30°38'30" N	76°31'0 0" E	55.00	33.56	21.44
257	15	Punjab	Fatehgarh Sahib	Sirhind	Nalini	30°30'00" N	76°25'3 0" E	71.00	19.64	51.36
258	16	Punjab	Fazilka	Fazilka	Dipulana	30°27'10" N	74°05'5 5" E	46.45	5.62	40.83
259	17	Punjab	Fazilka	Guru Har Sahai	Swahwala	30°37'39" N	74°18'3 7" E	54.45	8.80	45.65
260	18	Punjab	Ferozepur	Ferozpur	Mohre Wala	30°51'26" N	74°34'4 1" E	52.45	6.70	45.75
261	19	Punjab	Ferozepur	Mamdot	Malsian	30°49'00" N	74°22'5 0" E	39.43	12.25	27.18
262	20	Punjab	Ferozepur	Zira	Lauhke Kalan	31°03'47" N	74°50'4 5" E	61.64	16.96	44.68
263	21	Punjab	Gurdaspur	Kahnuwan	Sathial Nanokot	31°54'00" N	75°26'0 0" E	68.00	11.87	56.13
264	22	Punjab	Gurdaspur	Kalanaur	Kalanaur	32°01'00" N	75°08'0 0" E	56.00	5.37	50.63
265	23	Punjab	Gurdaspur	Sri Hargobindpur	Dekoha	31°39'00" N	75°23'0 0" E	69.95	13.30	56.65
266	24	Punjab	Hoshiarpur	Dasuya	Dasuya	31°48'00" N	75°40'0 0" E	95.00	7.55	87.45
267	25	Punjab	Hoshiarpur	Garhsahnkar	Simbli	31°08'35" N	76°10'4 2" E	97.00	15.60	81.4
268	26	Punjab	Jalandhar	Adampur	Adampur	31°25'20" N	75°42'3 0" E	127.00	22.27	104.73
269	27	Punjab	Jalandhar	Bhogpur	Kheral Kalan	31°36'12" N	75°39'0 0" E	40.00	10.12	29.88
270	28	Punjab	Jalandhar	Jalandhar-East	Jalandhar	31°19'30" N	75°35'2 0" E	168.00	32.75	135.25
271	29	Punjab	Jalandhar	Jalandhar-West	Kartarpur	31°26'10" N	75°29'5 5" E	80.00	19.03	60.97
272	30	Punjab	Jalandhar	Nakodar	Nakodar	31°08'00" N	75°29'0 6" E	123.00	28.04	94.96
273	31	Punjab	Jalandhar	Nur Mahal	Sarih	31°07'45" N	75°33'0 0" E	125.00	26.83	98.17

274	32	Punjab	Jalandhar	Phillaur	Phillaur	31°01'45" N	75°47'3 5" E	132.00	15.48	116.52
275	33	Punjab	Jalandhar	Rurka Kalan	Goraya	31°07'20" N	75°45'2 5" E	115.00	20.09	94.91
276	34	Punjab	Jalandhar	Shahkot	shahkot	31°04'46" N	75°19'4 9" E	125.00	27.70	97.3
277	35	Punjab	Kapurthala	Dhilwan	Bolath	31°32'05" N	75°30'2 0" E	65.00	6.46	58.54
278	36	Punjab	Kapurthala	Kapurthala	Kapurthala	31°22'10" N	75°22'5 6" E	56.00	19.77	36.23
279	37	Punjab	Kapurthala	Nadala	Bhatnura Khurd	31°36'15" N	75°35'1 6" E	100.00	13.77	86.23
280	38	Punjab	Kapurthala	Phagwara	Phagwara	31°13'45" N	75°46'4 5" E	81.00	23.51	57.49
281	39	Punjab	Kapurthala	Sultanpur Lodhi	Sultanpur Lodhi	31°13'10" N	75°12'0 0" E	103.00	11.11	91.89
282	40	Punjab	Ludhiana	Dehlon	Gopalpur	30°44'15" N	75°50'3 0" E	65.00	17.12	47.88
283	41	Punjab	Ludhiana	Doraha	Doraha	30°48'00" N	76°01'1 5" E	61.00	6.75	54.25
284	42	Punjab	Ludhiana	Jagraon	Jagraon	30°46'30" N	75°28'1 5" E	84.00	18.26	65.74
285	43	Punjab	Ludhiana	Khanna	Ikloha	30°42'07" N	76°13'0 7" E	67.00	21.25	45.75
286	44	Punjab	Ludhiana	Ludhiana	Pb. Agri. Uni. campus	30°54'10" N	75°48'4 0" E	77.00	31.67	45.33
287	45	Punjab	Ludhiana	Samrala	Samrala	30°53'00" N	76°12'0 0" E	74.35	14.18	60.17
288	46	Punjab	Ludhiana	Sidhwan Bet	Sidhwan Bet	30°55'24" N	75°26'2 4" E	64.00	8.62	55.38
289	47	Punjab	Mansa	Bhikhi	Bhikhi	30°04'00" N	75°32'1 5" E	57.00	14.63	42.37
290	48	Punjab	Mansa	Budhlada	Budhlada	29°55'42" N	75°33'4 2" E	74.45	13.25	61.2
291	49	Punjab	Mansa	Jhunir	Raipur	29°41'40" N	75°13'4 5" E	53.45	7.35	46.1
292	50	Punjab	Moga	Bagha Purana	Budh Singh Wala	30°37'04" N	75°04'3 8" E	51.08	20.45	30.63
293	51	Punjab	Moga	Dharamkot (Kot Isa Khan)	Baje Ke	31°00'00" N	75°09'0 2" E	79.08	14.35	64.73
294	52	Punjab	Moga	Moga I	Chogawan	30°50'09" N	75°16'0 8" E	69.07	29.87	39.2
295	53	Punjab	Moga	Moga li	Dagru	30°49'26" N	75°01'3 5" E	61.60	30.52	31.08
296	54	Punjab	Moga	Nihal Singh Wala	Nihal Singh Wala	30°36'39" N	75°10'5 9" E	54.07	30.05	24.02
297	55	Punjab	Mohali	Dera Bassi	Handesra	30°25'30" N	76°40'0 0" E	50.00	13.80	36.2
298	56	Punjab	Mohali	Kharar	Landran	30°41'38" N	76°39'4 0" E	58.50		58.5
299	57	Punjab	Nawan Shahr	Aur	Raipur Dhaba	31°04'00" N	76°00'1 0" E	67.99	14.23	53.76
300	58	Punjab	Nawan Shahr	Nawan Shahr	Bahloor Kallan	31°01'00" N	76°09'5 0" E	57.00	5.01	51.99
301	59	Punjab	Patiala	Ghanaur	Kami Kalan	30°22'40" N	76°40'4 5" E	30.00	12.52	17.48
302	60	Punjab	Patiala	Nabha	Sangatpur	30°21'22" N	76°14'3 5" E	78.00	26.18	51.82
303	61	Punjab	Patiala	Patiala	Lachkani	30°24'30" N	76°20'1 5" E	82.00	19.40	62.6

304	62	Punjab	Patiala	Patran	Patran	29°57'24" N	76°03'2 4" E	69.48	37.97	31.51
305	63	Punjab	Patiala	Rajpura	Rajpura	30°29'00" N	76°36'1 5" E	50.00	30.77	19.23
306	64	Punjab	Patiala	Samana	Samana	30°08'42" N	76°11'5 3" E	68.45	33.70	34.75
307	65	Punjab	Ropar	Chamkaur Sahib	Rurkee Heeran	30°51'00" N	76°25'4 0" E	58.00	19.60	38.4
308	66	Punjab	Ropar	Morinda	Chatamali	30°48'42" N	76°32'1 8" E	64.00	37.48	26.52
309	67	Punjab	Sangrur	Amargarh	Manvi	30°32'51" N	76°01'0 1" E	152.00	21.43	130.57
310	68	Punjab	Sangrur	Dhuri	Ladda	30°22'24" N	75°51'2 0" E	48.45	30.10	18.35
311	69	Punjab	Sangrur	Lehraghaga	Chural Kalan	29°49'10" N	75°48'0 0" E		25.61	-25.61
312	70	Punjab	Sangrur	Maler Kotla	Maler Kotla	30°31'00" N	75°53'1 5" E	92.00	32.32	59.68
313	71	Punjab	Sangrur	Sangrur	Longowal	30°11'30" N	75°40'3 0" E	46.45	25.99	20.46
314	72	Punjab	Sangrur	Sunam	Sunam	30°07'24" N	75°48'5 3" E	78.45	32.31	46.14
315	73	Punjab	Tarn Taran	Bhikhiwind	Bhikhiwind	31°20'30" N	74°41'3 0" E	54.00	15.03	38.97
316	74	Punjab	Tarn Taran	Chola Sahib	Chola Sahib	31°15'00" N	74°50'3 0" E	64.00	16.98	47.02
317	75	Punjab	Tarn Taran	Gandiwind	Gandiwind	31°31'00" N	74°42'0 0" E	68.00	10.75	57.25
318	76	Punjab	Tarn Taran	Khadur Sahib	Khadur Sahib	31°26'00" N	75°07'5 0" E	65.00	18.15	46.85
319	77	Punjab	Tarn Taran	Naushehra Panuan	Sahebpura	31°23'30" N	74°55'5 0" E	65.00	19.37	45.63
320	78	Punjab	Tarn Taran	Valtoha	Ratoke	31°09'00" N	74°38'0 0" E	75.00		
321	1	Rajasthan	AJMER	Arain	Arain	75.0324	26.4525	200.00	14.00	
322	2	Rajasthan	AJMER	Jawaja	Jawaja	74.1970	25.9280	200.00	9.00	
323	3	Rajasthan	AJMER	Kekri	Kekri	75.1497	25.9778	180.00	1.00	
324	4	Rajasthan	AJMER	Kishangarh	Kishangarh (Silora)	74.8568	26.5663	180.00	21.00	
325	5	Rajasthan	AJMER	Bhinay	Bhinay	74.7609	26.0537	180.00	11.00	
326	6	Rajasthan	AJMER	Peesangan	Pisangan I	74.3928	26.4013	100.00	29.00	
327	7	Rajasthan	AJMER	Peesangan	Pisangan II	74.7302	26.3018	180.00	3.00	
328	8	Rajasthan	ALWAR	Rajgarh	Rajgarh	76.6255	27.2314	50.00	42.00	
329	9	Rajasthan	ALWAR	Reni	Reni	76.7243	27.1667	70.00	40.00	
330	10	Rajasthan	ALWAR	Reni	Reni II	76.7312	27.2530	70.00	45.00	
331	11	Rajasthan	BANSWARA	Anandpuri	Anandpuri	74.0381	23.3778	150.00	10.00	
332	12	Rajasthan	BANSWARA	Chhoti Sarwan	Chhoti Sarwan	74.6372	23.5275	100.00	8.00	
333	13	Rajasthan	BANSWARA	Garhi	Garhi	74.1450	23.5900	150.00	14.00	
334	14	Rajasthan	BANSWARA	Ghatol	Ghatol	74.4197	23.7496	50.00	5.00	
335	15	Rajasthan	BANSWARA	Kushalgarh	Kushalgarh	74.4515	23.1995	100.00	7.00	
336	16	Rajasthan	BANSWARA	Sajjangarh	Sajjangarh	74.3049	23.2587	150.00	6.00	
337	17	Rajasthan	BARAN	Antah	Anta	76.3067	25.1565	150.00	7.00	

338	18	Rajasthan	BARAN	Atru	Atru	76.6508	24.8704	150.00	5.00	
339	19	Rajasthan	BARAN	Chhabra	Chhabra	76.8601	24.6628	150.00	10.00	
340	20	Rajasthan	BARAN	Chhipabarod	Chhipabarod	76.7136	24.6148	100.00	9.00	
341	21	Rajasthan	BARAN	Kishanganj	Kishanganj	76.6465	25.1145	150.00	10.00	
342	22	Rajasthan	BARAN	Shahbad	Shahbad	77.1674	25.2474	160.00	6.00	
343	23	Rajasthan	BARMER	Baytoo	Baitu	71.7935	25.9062	200.00	31.00	
344	24	Rajasthan	BARMER	Balotra	Balotra	72.2264	25.8238	220.00	11.00	
345	25	Rajasthan	BARMER	Siwana	Siwana	72.4136	25.6535	100.00	28.00	
346	26	Rajasthan	JODHPUR	Osian	Osian	72.9169	26.7166	70.00	8.00	
347	27	Rajasthan	NAGAU	Jayal	Jayal	74.1954	27.2212	250.00	29.00	
348	28	Rajasthan	NAGAU	Kuchaman City	Kuchamn City	74.8528	27.1464	240.00	45.00	
349	29	Rajasthan	NAGAU	Ladnu	Ladnu	74.3699	27.5968	170.00	30.00	
350	30	Rajasthan	NAGAU	Makrana	Makrana	74.7172	27.0356	250.00	32.00	
351	31	Rajasthan	NAGAU	Parbatsar	Parbatsar	74.7599	26.8866	100.00	27.00	
352	32	Rajasthan	BIKANER	Dungargarh	Dungargarh	74.0053	28.1015	250.00	60.00	
353	33	Rajasthan	GANGANAGAR	Gharsana	Gharsana	73.0613	28.9616	200.00	12.00	
354	34	Rajasthan	GANGANAGAR	Karanpur	Karanpur	73.4534	29.8431	170.00	5.00	
355	35	Rajasthan	GANGANAGAR	Raisinghnagar	Raisinghnagar	73.4498	29.5358	170.00	11.00	
356	36	Rajasthan	HANUMANGARH	Bhadra	Bhadra	75.1715	29.1008	150.00	14.00	
357	37	Rajasthan	HANUMANGARH	Pilibanga	Pilibanga	74.0947	29.4872	200.00	23.00	
358	38	Rajasthan	HANUMANGARH	Sangaria	Sangaria	74.4597	29.7935	200.00	0.00	
359	39	Rajasthan	HANUMANGARH	Tibi	Tibi	74.5067	29.5539	200.00	16.00	
360	40	Rajasthan	CHURU	Sujangarh	Sujangarh	74.4678	27.7141	120.00	12.00	
361	41	Rajasthan	BHARATPUR	Kaman	Kaman	77.2772	27.6584	170.00	12.00	
362	42	Rajasthan	BHARATPUR	Rupbas	Rupbas I	77.5758	26.9877	110.00	3.00	
363	43	Rajasthan	SAWAI MADHOPUR	Bonli	Bonli	76.2582	26.3124	150.00	8.00	
364	44	Rajasthan	SAWAI MADHOPUR	Khandar	Khander	76.5943	26.0119	170.00	14.00	
365	45	Rajasthan	TONK	Deoli	Deoli	75.3964	25.7838	110.00	4.00	
366	46	Rajasthan	TONK	Malpura	Malpura	75.3892	26.2803	120.00	2.00	
367	47	Rajasthan	TONK	Niwai	Niwai	75.9303	26.3533	100.00	36.00	
368	48	Rajasthan	TONK	Todaraisingh	Toda Raisingh	75.5094	26.0400	100.00	1.00	
369	49	Rajasthan	TONK	Uniara	Uniara	76.0532	25.9105	160.00	20.00	
370	50	Rajasthan	JAIPUR	Chaksu	Chaksu	75.9384	26.6072	70.00	16.00	
371	51	Rajasthan	JAIPUR	Dudu	Dudu	75.2377	26.6803	100.00	7.00	
372	52	Rajasthan	JAIPUR	Shahpura	Shahpura	75.9690	27.4018	90.00	35.00	
373	53	Rajasthan	JAIPUR	Viratnagar	Viratnagar	76.1800	27.4393	80.00	27.00	
374	54	Rajasthan	SIKAR	Neem Ka Thana	Neem-Ka-Thana	75.7938	27.7354	110.00	11.00	



375	55	Rajasthan	SIKAR	Neem Ka Thana	Neem Ka Thana	75.8740	27.6290	100.00	16.00	
376	56	Rajasthan	JHUNJHUNUN	Khetri	Khetri	75.7917	27.9948	110.00	48.00	
377	57	Rajasthan	KOTA	Itawa	Itwa	76.3953	25.5407	120.00	9.00	
378	58	Rajasthan	KOTA	Khairabad	Khairabad	75.9183	24.6730	100.00	6.00	
379	59	Rajasthan	KOTA	Ladpura	Ladpura (Kota)	75.8656	25.1787	100.00	4.00	
380	60	Rajasthan	KOTA	Sangod	Sangod	76.3130	24.9137	110.00	8.00	
381	61	Rajasthan	KOTA	Sultanpura	Sultanpur	76.2201	25.3149	130.00	10.00	
382	62	Rajasthan	BHILWARA	Asind	Asnind	74.3418	25.7236	100.00	10.00	
383	63	Rajasthan	BHILWARA	Banera	Banera	74.6795	25.4978	100.00	17.00	
384	64	Rajasthan	BHILWARA	Hurda	Hurda	74.6900	25.8846	100.00	7.00	
385	65	Rajasthan	BHILWARA	Jahazpur	Jahazpur	75.2746	25.6029	90.00	4.00	
386	66	Rajasthan	BHILWARA	Kotri	Kotari	74.8990	25.3985	100.00	9.00	
387	67	Rajasthan	BHILWARA	Mandal	Mandal	74.5634	25.4334	90.00	17.00	
388	68	Rajasthan	BHILWARA	Mandalgarh	Mandalgarh	75.0952	25.1974	100.00	4.00	
389	69	Rajasthan	BHILWARA	Raipur	Raipur	74.1603	25.3954	90.00	13.00	
390	70	Rajasthan	BHILWARA	Sahara	Sahara	74.2341	25.1840	100.00	18.00	
391	71	Rajasthan	BHILWARA	Shahpura	Shahpura	74.9222	25.6124	100.00	10.00	
392	72	Rajasthan	BHILWARA	Suwana	Suwana	74.7048	25.3440	100.00	14.00	
393	73	Rajasthan	CHITTAURGA RH	Bari Sadri	Chittaurgarh	74.4790	24.4130	100.00	13.00	
394	74	Rajasthan	CHITTAURGA RH	Begun	Begun	75.0193	24.9861	120.00	5.00	
395	75	Rajasthan	CHITTAURGA RH	Bhadesar	Bhadesar	74.5127	24.6777	130.00	18.00	
396	76	Rajasthan	CHITTAURGA RH	Bhainsrorgarh	Bhainsorgarh	75.5553	24.9632	100.00	0.00	
397	77	Rajasthan	CHITTAURGA RH	Bhopalsagar	Bhopal Sagar	74.2151	24.8547	120.00	9.00	
398	78	Rajasthan	CHITTAURGA RH	Chittaurgarh	Chittaurgarh	74.6267	24.8814	150.00	17.00	
399	79	Rajasthan	CHITTAURGA RH	Dungla	Dungla	74.3354	24.5025	150.00	11.00	
400	80	Rajasthan	CHITTAURGA RH	Gangrar	Gangrar	74.6288	25.0489	150.00	18.00	
401	81	Rajasthan	CHITTAURGA RH	Kapasan	Kapasan	74.3186	24.8890	150.00	7.00	
402	82	Rajasthan	CHITTAURGA RH	Nimbahera	Nimbahera	74.6900	24.6129	130.00	24.00	
403	83	Rajasthan	CHITTAURGA RH	Rashmi	Rashmi	74.3650	25.0603	150.00	9.00	
404	84	Rajasthan	PRATAPGARH	Chhoti Sadri	Chhoti Sadari	74.6921	24.3654	150.00	22.00	
405	85	Rajasthan	PRATAPGARH	Dhariawad	Dhariawad	74.4452	24.1135	100.00	5.00	
406	86	Rajasthan	PRATAPGARH	Peepalkhoont	Peepal Khoont	74.5824	23.8057	90.00	10.00	
407	87	Rajasthan	PRATAPGARH	Pratapgarh	Pratapgarh	74.7765	24.0228	80.00	8.00	
408	88	Rajasthan	RAJSAMAND	Amet	Amet	73.9301	25.3141	110.00	15.00	
409	89	Rajasthan	RAJSAMAND	Bhim	Bhim	74.0695	25.7323	100.00	11.00	
410	90	Rajasthan	RAJSAMAND	Deogarh	Deogarh	73.8996	25.5317	100.00	12.00	

411	91	Rajasthan	RAJSAMAND	Khamnor	Khamnor	73.7269	24.9123	90.00	14.00	
412	92	Rajasthan	RAJSAMAND	Kumbhalgarh	Kumbalgarh	73.5873	25.1538	100.00	9.00	
413	93	Rajasthan	RAJSAMAND	Railmagra	Railmagra	74.1054	25.0249	110.00	11.00	
414	94	Rajasthan	RAJSAMAND	Rajsamand	Rajsamand	73.8564	25.0622	100.00	18.00	
415	95	Rajasthan	UDAIPUR	Bargaon	Bargaon	73.6894	24.6333	170.00	13.00	
416	96	Rajasthan	UDAIPUR	Bhindar	Bhindar	74.1772	24.4877	170.00	16.00	
417	97	Rajasthan	UDAIPUR	Girwa	Udaipur	73.7276	24.5529	160.00	5.00	
418	98	Rajasthan	UDAIPUR	Gogunda	Gogunda	73.5334	24.7562	180.00	10.00	
419	99	Rajasthan	UDAIPUR	Jhadol	Jharol	73.5000	24.4137	180.00	5.00	
420	100	Rajasthan	UDAIPUR	Kherwara	Kherwara	73.6031	24.0044	190.00	11.00	
421	101	Rajasthan	UDAIPUR	Kotra	Kotra	73.1544	24.3645	180.00	0.00	
422	102	Rajasthan	UDAIPUR	Lasadiya	Lasadiya	74.2501	24.2631	170.00	7.00	
423	103	Rajasthan	UDAIPUR	Mavli	Mavli	73.9872	24.7812	150.00	22.00	
424	104	Rajasthan	UDAIPUR	Salubar	Salumber	74.0463	24.1387	180.00	5.00	
425	105	Rajasthan	UDAIPUR	Sarada	Sarara	73.8289	24.1425	190.00	9.00	
426	106	Rajasthan	SIROHI	Abu Road	Abu Road	72.7766	24.4861	100.00	16.00	
427	107	Rajasthan	SIROHI	Pindwara	Pindwara	73.0538	24.7979	110.00	12.00	
428	108	Rajasthan	SIROHI	Reodar	Reodar	72.5325	24.6180	120.00	17.00	
429	109	Rajasthan	SIROHI	Sirohi	Sirohi	72.8597	24.8860	100.00	8.00	
430	110	Rajasthan	PALI	Pali	Pali	73.3409	25.7760	110.00	6.00	
431	111	Rajasthan	PALI	Desuri	Desuri	73.5582	25.2841	100.00	8.00	
432	112	Rajasthan	PALI	Jaitaran	Jaitaran	73.9402	26.2181	90.00	17.00	
433	113	Rajasthan	PALI	Marwar Junctio	Marwar Jn. (Kharchi	73.6110	25.7224	90.00	9.00	
434	114	Rajasthan	PALI	Pali	Pali	73.3345	25.7798	100.00	6.00	
435	115	Rajasthan	PALI	Raipur	Raipur	74.0183	26.0401	110.00	16.00	
436	116	Rajasthan	PALI	Rani	Rani	73.3155	25.3607	100.00	17.00	
437	117	Rajasthan	PALI	Sojat	Sojat	73.6722	25.9310	110.00	18.00	
438	118	Rajasthan	PALI	Sumerpur	Sumerpur	73.0939	25.1520	150.00	14.00	
439	119	Rajasthan	PALI	Bali	Bali	73.2726	25.1788	110.00	19.00	
440	120	Rajasthan	JHALAWAR	Bakani	Bakani	76.2423	24.2883	80.00	11.00	
441	121	Rajasthan	JHALAWAR	Dag	Dag	75.8334	23.9364	80.00	10.00	
442	122	Rajasthan	JHALAWAR	Jhalrapatan	Jhalarpatan	76.1687	24.5415	90.00	10.00	
443	123	Rajasthan	JHALAWAR	Manohar Thana	Manohar Thana	76.8076	24.2448	100.00	14.00	
444	124	Rajasthan	JHALAWAR	Pirawa	Pirawa	76.0439	24.1510	90.00	11.00	
445	125	Rajasthan	DUNGARPUR	Bichhiwara	Dungarpur	73.7253	23.8524	150.00	9.00	
446	126	Rajasthan	DUNGARPUR	Sagwara	Sagwara	74.0257	23.6744	150.00	8.00	
447	127	Rajasthan	DUNGARPUR	Simalwara	Simalwar	73.7422	23.5538	150.00	8.00	
448	128	Rajasthan	BUNDI	Bundi	Bundi	75.6356	25.4181	120.00	10.00	
449	129	Rajasthan	BUNDI	Hindoli	Hindoli	75.4967	25.5674	150.00	11.00	
450	130	Rajasthan	BUNDI	Keshoraipatan	Keshoraipatan	75.9487	25.3090	150.00	2.00	

451	131	Rajasthan	BUNDI	Nainwa	Nainwa	75.8471	25.7722	150.00	6.00	
452	132	Rajasthan	BUNDI	Talera	Talera	75.7392	25.3109	130.00	5.00	
453	133	Rajasthan	KARAU LI	Hindaun	Hindaun	77.0403	26.7292	50.00	4.00	
454	134	Rajasthan	KARAU LI	Nadoti	Nadoti	76.7103	26.7024	70.00	5.00	
455	135	Rajasthan	KARAU LI	Sapotra	Sapotra	76.7547	26.2794	100.00	15.00	
456	136	Rajasthan	GANGANAGA R	Suratgarh	Suratgarh	73.9146	29.2931	0.00	8.00	
457	137	Rajasthan	HANUMANGA RH	Rawatsar	Ravatsar	74.4133	29.2983	0.00	3.00	
458	138	Rajasthan	JALORE	Chitalwana		71.6599	24.9094	90.00	8.00	
459	139	Rajasthan	JALORE	Sayla		72.1964	25.2572	90.00	47.00	
460	140	Rajasthan	JALORE	Jaswantpura		72.4598	24.8020	100.00	17.00	
461	1	Tamil Nadu	Chennai	MAMBALAM - GUINDY-II	Guindy(CLRI)	13.0222	80.225	22.75	4.04	2.64648
462	2	Tamil Nadu	Coimbatore	Annur(N)	Annur pz	11.2250	77.1083	48.80	21	5.942
463	3	Tamil Nadu	Coimbatore	Avinashi(E)	Avinasi pz	11.1978	77.2853	60.00	13.65	2.45333
464	4	Tamil Nadu	Coimbatore	COIMBATORE SOUTH	Cbe Stock Exchange pz	10.9964	77.005	60.00	6.9	-1.5175
465	5	Tamil Nadu	Coimbatore	Karumathampat ti	Samalapuram	11.0875	77.1792	39.00	1.72	0.855
466	6	Tamil Nadu	Coimbatore	KINATHUKATAV U	Kinathukadav u pz	10.8167	77.0167	56.65	7.02	0.80444 5
467	7	Tamil Nadu	Coimbatore	Palladam	Palladam2	10.9917	77.2806	49.00	5.6	0.908
468	8	Tamil Nadu	Coimbatore	PERUR	Kuniyamuthur	10.9667	76.9167	64.05	6.68	1.90822
469	9	Tamil Nadu	Coimbatore	POLLACHI(N)	Pollachi pz	10.6583	76.9917	51.05	2.85	2.13167
470	10	Tamil Nadu	Coimbatore	SINGANALLUR	Cwc Campus pz	11.0414	77.0006	60.00	3.85	-1.7725
471	11	Tamil Nadu	Coimbatore	THUDIALUR	Ghs Ganapathi pz	11.0419	76.9419	60.00	1.71	-0.4775
472	12	Tamil Nadu	Coimbatore	Tiruppur (S)	Tirupur	11.0972	77.3528	70.00	6.03	0.36922 2
473	13	Tamil Nadu	Cuddalore	Virudhachalam (S)	Virudachalam 1	11.5167	79.3375	49.15	37.13	-2.34
474	14	Tamil Nadu	Dharmapuri	PALACODE	Palacode1	12.3042	78.075	68.50	15.53	0.619
475	15	Tamil Nadu	Dharmapuri	PALAYAM(D)	Thoppur	11.9500	78.05	94.00	13.6	2.51889
476	16	Tamil Nadu	Dindigul	Kottanatham	Servaikaranpa tti	10.7472	78.0917	56.20	7.61	3.42967
477	17	Tamil Nadu	Dindigul	Kovilur	Kovilur (Ramanathap uram)	10.5917	78.0861	45.30	3.18	1.563
478	18	Tamil Nadu	Dindigul	Oddanchathram	Oddanchatra m1	10.4908	77.7528	70.50	15.82	1.57089
479	19	Tamil Nadu	Dindigul	Reddiarchatram	Reddiarchatra m	10.4278	77.8833	54.25	5.8	2.24233
480	20	Tamil Nadu	Dindigul	Shanarpatti	Sanarpatti	10.2583	78.1	69.40	25.71	2.99425
481	21	Tamil Nadu	Erode	Chennimalai	Chennimalai1	11.1583	77.5917	60.00	7.96	3.519

482	22	Tamil Nadu	Erode	Erode east	Erode pz	11.3661	77.7169	195.10	4.4	0.6625
483	23	Tamil Nadu	Erode	Kangeyam	Kangayam1	10.9917	77.5583	60.90	6.6	1.736
484	24	Tamil Nadu	Erode	Kannivadi	Puduppai pz	10.9586	77.7225	60.00	4.5	1.354
485	25	Tamil Nadu	Erode	Kunnathur	Chengapalli	11.2250	77.4436	64.60	16.05	2.20333
486	26	Tamil Nadu	Erode	Mulanur	Mulanur1	10.7972	77.7222	55.40	3.8	1.42111
487	27	Tamil Nadu	Erode	Nambiyur	Getticheviyur	11.3333	77.4139	51.00	14.25	5.89267
488	28	Tamil Nadu	Erode	Perundurai	Vijayamangalam pz	11.2444	77.5028	164.60	11.2	-1.5625
489	29	Tamil Nadu	Erode	Ponnapuram	Govindhapuram pz	10.7133	77.4225	200.00	13.5	34.5708
490	30	Tamil Nadu	Erode	Sankarandampalayam	Sangarandampalayam pz	10.8306	77.5864	200.00	9.95	5.6525
491	31	Tamil Nadu	Erode	Uthukuli	Karumancheripz	11.1578	77.4444	200.00	25.5	8.41667
492	32	Tamil Nadu	Erode	Vellode	Ingur pz	11.2261	77.5817	195.10	3.9	2.2475
493	33	Tamil Nadu	Karur	Mailampatti	Tarangampatti	10.7306	78.2478	46.00	11.66	4.49825
494	34	Tamil Nadu	Krishnagiri	BARGUR	Bargur1	12.5417	78.3583	47.20	40.55	13.4653
495	35	Tamil Nadu	Krishnagiri	KRISHNAGIRI	Megalachinnapalli	12.6250	78.2542	54.80	50.8	8.164
496	36	Tamil Nadu	Krishnagiri	MATHUR	Mattur2	12.3833	78.4167	46.20	10.9	1.39944
497	37	Tamil Nadu	Madurai	PALAMEDU	Palamedu pz	10.1100	78.1131	60.00	15.3	2.1025
498	38	Tamil Nadu	Madurai	USILAMPATTI	Jothilnaickanur pz	9.8758	77.755	200.00	10.93	-0.5025
499	39	Tamil Nadu	Namakkal	Mohanur	Mohanur	11.0611	78.1417	56.65	0.7	1.581
500	40	Tamil Nadu	Namakkal	Namakkal	Namakkal1	11.2200	78.1667	49.50	4	1.944
501	41	Tamil Nadu	Namakkal	Paramathi	Nallurgaundampalayam	11.2667	77.975	65.00	9.7	2.07
502	42	Tamil Nadu	Perambalur	Chettikulam	Padalur Pz	11.0961	78.8253	49.40	4.31	3.37333
503	43	Tamil Nadu	Perambalur	Perambalur	Perambalur1	11.2342	78.8911	52.50	6.68	2.021
504	44	Tamil Nadu	Salem	Attur	Athur	11.5917	78.5861	59.00	11.24	7.26625
505	45	Tamil Nadu	Salem	Kadayampatti	Kadayampatti	11.8542	78.0833	62.35	5.27	4.79278
506	46	Tamil Nadu	Salem	Konganapuram	Konganapuram	11.5667	77.9	46.20	7	1.0554
507	47	Tamil Nadu	Salem	Nangavalli	Nangavalli	11.7583	77.8958	65.80	8.83	1.506
508	48	Tamil Nadu	Salem	Pethanaickanpalayam	P.N.Palayam1	11.6472	78.5125	59.00	22.6	4.47111
509	49	Tamil Nadu	Theni	Kandamanur	Erasakkanaayakanur	9.9250	77.5417	52.70	9	1.433
510	50	Tamil Nadu	Theni	Kodivilarpatti	Koduvilarpattipz	9.9719	77.4919	60.00	7.58	0.205
511	51	Tamil Nadu	Theni	Thevaram	Thevaram	9.8847	77.2847	43.00	31.1	0.0525

512	52	Tamil Nadu	Thiruvannamalai	MELPALLIPATTU	Melravandavadi	12.2083	78.7083	49.60	8.12	2.66989
513	53	Tamil Nadu	Thiruvannamalai	THANDARAMPAT	Pudupalayam	12.3611	78.8792	49.40	12.6	2.39954
514	54	Tamil Nadu	Tirunelveli	Kallurani	Kilpaur	8.9167	77.3833	39.05	9.15	2.92222
515	55	Tamil Nadu	Tirunelveli	PAZHAVOOR	Kudankulam	8.2250	77.575	50.60	11.22	4.45922
516	56	Tamil Nadu	Tirunelveli	RADHAPURAM	Tiruvembalapuram	8.2542	77.7583	46.61	4.6	1.494
517	57	Tamil Nadu	Tirunelveli	Sankarankoil	Sankarankoil1	9.2083	77.5583	39.05	1.3	1.959
518	58	Tamil Nadu	Trichy	Manapparai	Manapparai1	10.6139	78.425	45.20	2.23	1.79222
519	59	Tamil Nadu	Trichy	THURAIYUR	Thurayur1	11.1444	78.6	43.00	7.5	1.55445
520	60	Tamil Nadu	Tuticorin	Sattankulam	Satankulam	8.4333	77.9028	50.20	2.23	0.761111
521	61	Tamil Nadu	Vellore	K.V.Kuppam	Kv Kuppam	12.9611	78.98	49.50	18.73	4.23045
522	62	Tamil Nadu	Vellore	PALLIKONDA	Palligonda	12.9000	78.9458	52.20	12.88	2.417
523	63	Tamil Nadu	Vellore	Pudupadi	Mecheri	12.8111	79.3972	48.90	9.37	1.59029
524	64	Tamil Nadu	Vellore	Timiri	Timiri	12.8278	79.3028	37.20	17.67	3.895
525	65	Tamil Nadu	Villupuram	Brammadesam	Brammadesam	12.1958	79.7667	46.00	2.40	2.45
526	66	Tamil Nadu	Villupuram	Gingee	Gingee1	12.2500	79.4167	40.00	5.52	1.63367
527	67	Tamil Nadu	Villupuram	Thiyagadurgam	Tyagadurgam	11.7306	79.0917	41.70	5.97	1.639
528	68	Tamil Nadu	Villupuram	Vallam(V)	Vallam1	12.2528	79.5125	52.00	8.99	3.17811
529	69	Tamil Nadu	Villupuram	Vikkiravandi	Vikravandi	12.0375	79.5625	39.70	4.23	1.754
530	70	Tamil Nadu	Virudhunagar	Cholapuram(V)	Choolapuram	9.3833	77.5583	22.30	7.7	2.29667
531	71	Tamil Nadu	Virudhunagar	Nathampatti	Sundarapandyan	9.6083	77.6667	39.05	15.5	-0.019365
532	1	Telaangan a	KARIMNAGAR	1.Bheemadevarpalle	Kothakondapz	79.3020	18.0480	70.00	13.22	56.78
533	2	Telaangan a	KARIMNAGAR		Muluknur pz	79.3567	18.0838	70.00	10.60	59.4
534	3	Telaangan a	KARIMNAGAR	2.Chigurmamidi	Chigurumamidi-pz	79.2036	18.2393	43.00	18.72	24.28
535	4	Telaangan a	KARIMNAGAR	3.Gangadhara	Burugupalli	79.0266	18.6340	70.00	16.36	53.64
536	5	Telaangan a	KARIMNAGAR	4.Husnabad	Gandipalli pz	79.1583	18.0167	64.00	26.02	37.98
537	6	Telaangan a	KARIMNAGAR		Husnabad pz	79.2069	18.1407	70.00	10.00	60
538	7	Telaangan a	KARIMNAGAR		Katkur pz	79.2417	18.0375	70.00	11.75	58.25
539	8	Telaangan a	KARIMNAGAR	5.Kathlapur	Gandipalle	18.0200	79.1600	70.00	26.02	43.98
540	9	Telaangan a	KARIMNAGAR	6.Kodimial	Thirumalapur pz	78.8757	18.6525	70.00	15.57	54.43

541	10	Telaangan a	KARIMNAGAR	7.Mallial	Tatipalli pz	78.9882	18.6849	70.00	5.83	64.17
542	11	Telaangan a	KARIMNAGAR	8.Medipalle	Mannegudem	78.7525	18.7351	70.00	16.95	53.05
543	12	Telaangan a	KARIMNAGAR		Medipally pz	78.8133	18.8045	70.00	8.13	61.87
544	13	Telaangan a	KARIMNAGAR	10.Ramadugu	Ramadugu-pz	79.0617	18.5793	42.10	8.89	33.21
545	14	Telaangan a	MEDAK	3.Hathnura	Chintala cheruvu-pz	78.2382	17.6542	70.00	24.60	45.4
546	15	Telaangan a	MEDAK		Hatnoor	78.1632	17.7438	32.10	18.10	14
547	16	Telaangan a	MEDAK	9.Narsapur	Reddypalli	17.7700	78.4500	50.00	30.85	
548	17	Telaangan a	MEDAK		Rajapet	17.8200	78.2600	50.00	30.65	
549	18	Telaangan a	MEDAK	10.Nyalkal	Tatipally	77.8047	17.7523	70.00	11.55	0.88
550	19	Telaangan a	MEDAK		Chalki	77.6732	17.9111	70.00	8.94	61.06
551	20	Telaangan a	MEDAK	11.Raikode	Raikod-pz	77.7453	17.8462	50.80	14.90	35.9
552	21	Telaangan a	MEDAK	12.Siddipet	Siddipet-pz	78.8583	18.1047	51.00	11.60	39.4
553	22	Telaangan a	NALGONDA	1.Munugode	Munugodu-pz	17.0773	79.0837	20.30	10.00	10.3
554	23	Telaangan a	NIZAMABAD	1.Kamareddy	Kamareddy	18.3300	78.3300	30.00	15.72	14.28
555	24	Telaangan a	NIZAMABAD	3.Velpoor	Mothe	18.7459	78.4153	35.00	27.87	
556	25	Telaangan a	HYDERABAD	Amberpet	Amberpet	17.3900	78.5100	70.10	8.70	61.4
557	26	Telaangan a	HYDERABAD	Khiratabad	Erragadda	17.4444	78.4361	70.10	50.00	20.1
558	27	Telaangan a	HYDERABAD	Khairatabad	Erramanzil	17.4194	78.4528	70.10	6.40	63.7
559	28	Telaangan a	HYDERABAD	Nampally	Shanti Nagar	17.3972	78.4625	70.01	16.70	53.31
560	29	Telaangan a	HYDERABAD	Bandlaguda	Falaknama	17.3306	78.4700	70.01	14.30	55.71
561	30	Telaangan a	HYDERABAD	Golkonda	Langar House	17.3806	78.4222	70.01	34.07	0.44
562	31	Telaangan a	HYDERABAD	Asifnagar	Gudimalkapur	17.3833	78.4333	70.10	22.00	7.7
563	32	Telaangan a	HYDERABAD	Tirumalagiri	Tirumalagiri	17.4736	78.5125	70.10	5.08	65.02
564	33	Telaangan a	HYDERABAD	Tirumalagiri	Bowenpalley	17.4744	78.4750	70.10	52.00	18.1
565	34	Telaangan a	HYDERABAD	Himayatnagar	Bagh Lingampally	17.4000	78.5003	70.10	6.19	0.86
566	35	Telaangan a	HYDERABAD	Musheerabad	Musheerabad	17.4239	78.5056	70.10	FLD	
567	36	Telaangan a	HYDERABAD	Nampally	Koti	17.3861	78.4861	70.10	7.99	1.77
568	37	Telaangan a	HYDERABAD	Nampally	Nampally	17.3917	78.4750	70.10	16.85	2.95
569	38	Telaangan a	HYDERABAD	Bandlaguda	Phool BAGH chaman	78.4739	17.3429	72.00	8.43	63.57
570	39	Telaangan a	HYDERABAD	Ameerpet	Begampet(Bal kampet)	78.4520	17.4450	71.00	60.00	11

571	40	Telaangan a	HYDERABAD	Maredpally	West Maredpally	78.5012	17.4452	71.00	25.28	45.72
572	41	Telaangan a	HYDERABAD	Ameerpet	Begampet- IMD	78.4739	17.4467	99.00	11.38	87.62
573	42	Telaangan a	WARANGAL	Bachannapet	P.kesavapur- pz	78.9370	17.8466	70.10	23.87	46.23
574	43	Telaangan a	WARANGAL	Chennaraopet	Gurzala	79.8193	17.9069	30.00	14.00	16
575	44	Telaangan a	WARANGAL	Jangaon	Chitakoduru	79.1735	17.7444	70.10	FLD	
576	45	Telaangan a	WARANGAL	Wardhannapet	Kakirallapalli	79.5698	17.8383	70.00	17.49	
577	46	Telaangan a	WARANGAL	Wardhannapet	Inoli pz	79.5528	17.8833	70.00	16.12	
578	47	Telaangan a	WARANGAL	Wardhannapet	Panthini	79.6041	17.8452	70.00	9.75	60.25
579	1	U P	Hapur	Hapur	Hapur	28°43'24"	78°34'1 5	51.00	16.28	0.46
580	2	U P	Hapur	Garh Mukteshwar	Garh Mukteshwar	28°47'09"	78°04'4 5"	40.00	13.71	
581	3	U P	G.B.Nagar	Bisarakha	Sect-62A	28°31'12"	77°23'2 4"	50.00	----	-0.29
582	4	U P	G.B.Nagar	Jewar	Jewar	28°07'25"	77°33'4 0"	50.00	14.10	-0.32
583	5	U P	J.P.Nagar	Amroha	Amroha	29°00'00"	78°36'1 2"	54.00	12.44	0.73
584	6	U P	J.P.Nagar	Dhanaura	Dhanaura	28°57'24"	78°15'5 6"	48.05	11.18	-0.07
585	7	U P	Lucknow	Chinhat	Vikasnagar	26°53'40"		54.70	33.53	0.05
586	8	U P	Sambhal	Baniyakhera	Chandausi	28°31'00"	78°47'0 0"	50.00	14.40	
587	9	U P	Sambhal	Sambhal	Sambhal	28°35'00"	78°34'1 5"	50.00	16.18	-0.59
588	10	U P	Shamli	Unn	Unn	29°35'12"	77°10'0 0"	51.00	21.76	0.06
589	11	U P	Shamli	Unn	Kamlapur	29°37'30"	77°08'4 8"	52.03	11.46	2.55
590	12	U P	Muzaffar Nagar	Baghra	Baghra	29°27'50"	77°34'3 0"	53.00	14.25	0.98
591	13	U P	Muzaffar Nagar	Charthawal	Charthawal	29°33'05"	77°35'0 5"	59.00	9.33	
592	14	U P	Baghpat	Pilana	Pilana	28°57'05"	77°25'0 5"	59.25	25.47	0

## SECTION IX

### FORMATS FOR SUBMISSION OF DATA



The data received at the NIC Cloud /CGWB data centre need to be archived in a database in required format after required quality checks and necessary reports be generated (both tabular and graphical) for dissemination. Also the data archived in the database shall be provided in required formats as specified by CGWB from time to time on real time basis for further use.

SECTION X

DRAWINGS

**1. Specifications of protection box and fencing arrangements to be provided at the site**

- **Protection Box**

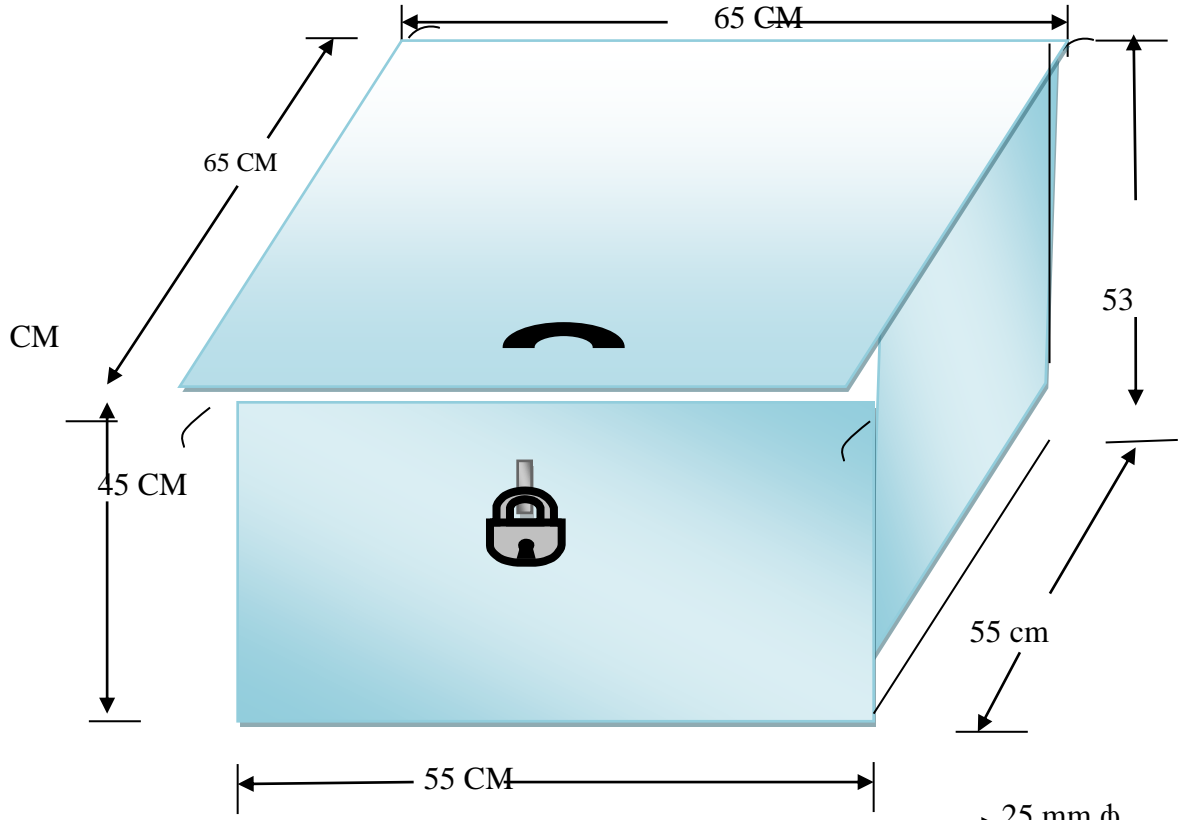
The design of protection boxes finalized by CGWB, CHQ, is being commonly adopted throughout the country and the design particulars are given.

- **Fencing Arrangements**

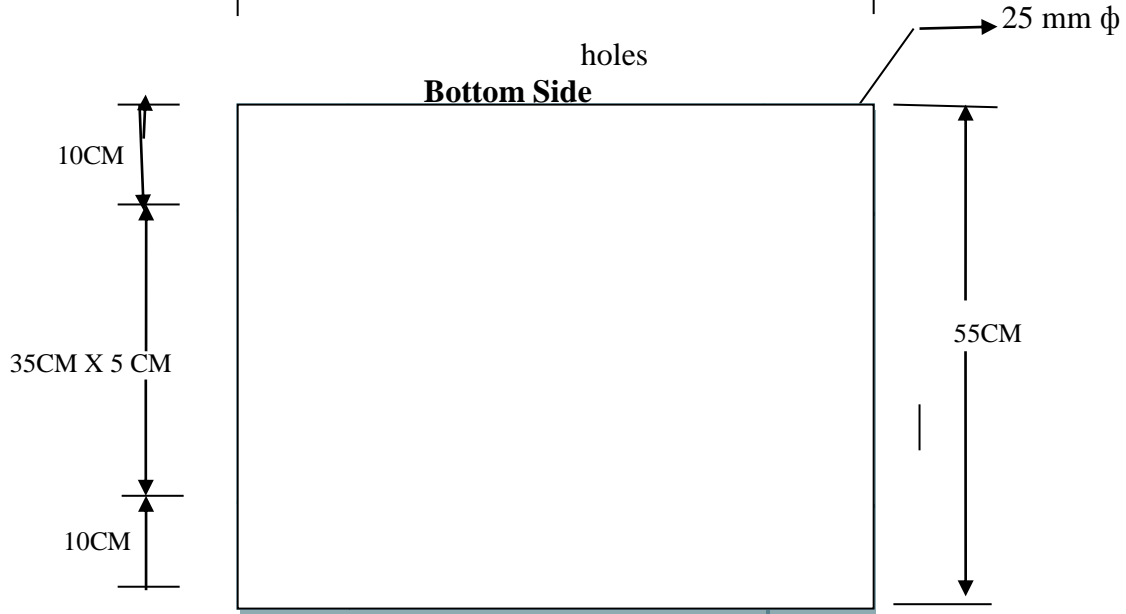
The necessity of fence around the piezometers depends on the position of piezometer within the secured premises and availability of space for fence. The requirement of fencing arrangements may be made optional and to be finalized by the Regional office. However, the bidder may be advised to provide unit rate for running peripheral length and standard height of 4'.

The fence should be of barbed wire with 6" gap in between two wires and of 4' height. The fence should have a suitable gate of non-corrosive metal sheet of 2' width for entry. The peripheral length of fence would be decided by the concerned regional office depending on the availability of space.

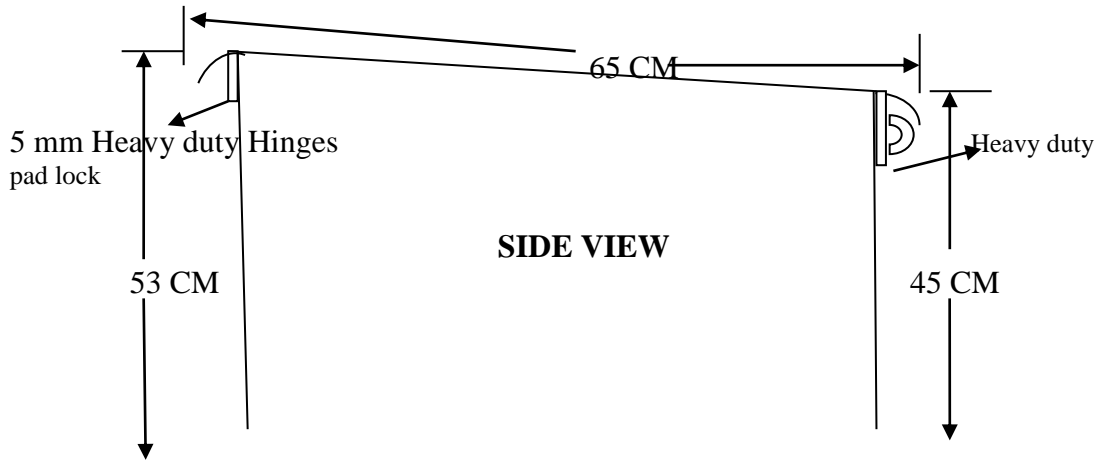
**Protection Box (Plate thickness – 4 mm)**

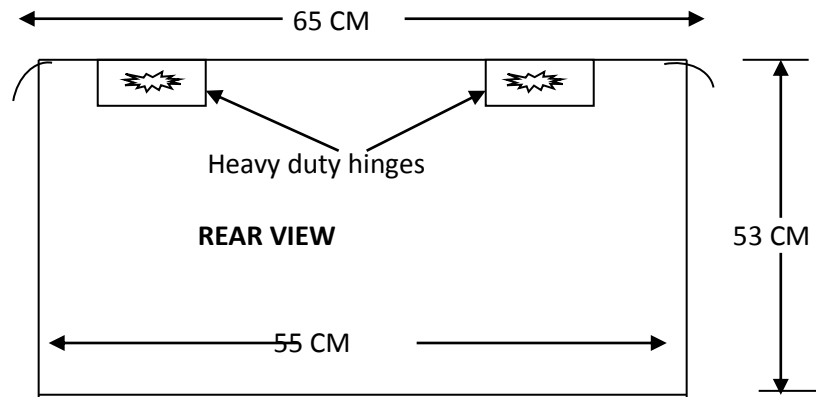
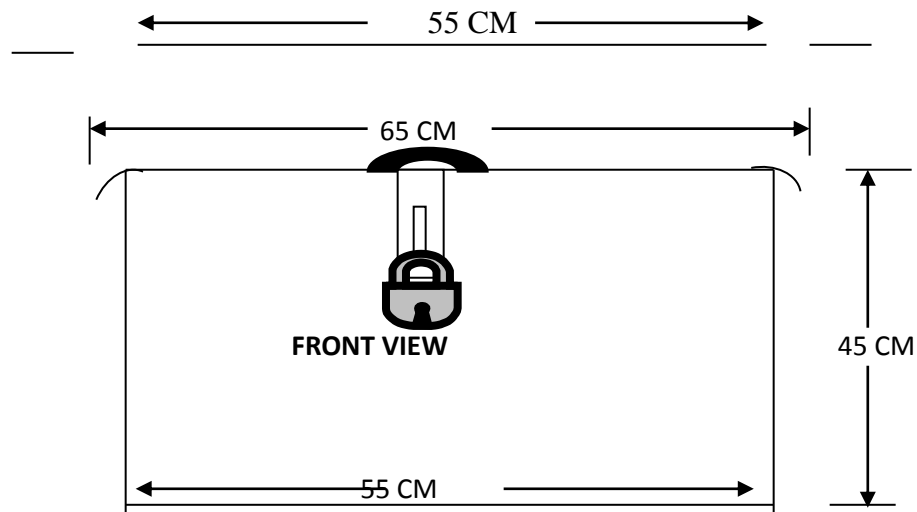


**Bottom Side**



**SIDE VIEW**





**COVER PLATE OF SIZE:**

**65 CM X 65 CM (with HANDLE and LOCK).**

**The cover plate should have minimum 5 CM extra projection on all sides of box for safeguarding the box and lock against rainfall.**

**The edges of sheet should not be sharp but should be rounded off.**

**The thickness of the plate should be made of 4 mm GI sheet.**

## SECTION XI

### BIDDING DATA

## SECTION XI BIDDING DATA

### Summary of Works :

**“Supply, Installation, Commissioning of 584 Digital Water Level Recorders( DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring”** in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh..

Name and address of the employer- **Chairman, Central Ground Water Board, Bhujal Bhawan, NH-IV Faridabad-121001 (Haryana)**

Period of bid validity- **120 Days**

Amount of earnest money

Name of Package	Region	Estimated Cost in INR	EMD in INR
<b>1</b>	<b>As mentioned in Tender</b>	<b>8,76,00,000/-</b>	<b>17,52,000/-</b>

Deadline for submission of bids.**12.01.2017 1700Hrs.**

Venue, time and date of bid opening- **Central Ground Water Board, Bhujal Bhawan, Faridabad (Haryana), 13.01.2017 at 1200Hrs.**

Standard form and amount of performance guarantee acceptable to the employer-**Section-XIV and 10% of the Bid Price**

Security Deposit : **Not applicable**

Bill of Quantities (as per standard form)-

**The Bill of quantities has been provided in Section-VII (Bill of Quantities). The detailed Bill of Quantities may be seen in the BOQ section uploaded in the e-tendering system which is an integral part of this tender document.**

#### **Clause 3.1**

- i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance. - **15 days**
- ii) Maximum allowable extension beyond the period provided in i) above- **No extension allowed**

#### **Clause 4.1**

Specifications to be followed for execution of work – **As defined in following sections:  
Section-V Scope of work and Technical Specifications  
Section-VII Bill of Quantities**

#### **Clause 4.2**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in

accordance with Clauses –4.2.

Deviation Limit  
shall apply for building work **Not applicable**

Deviation Limit  
shall apply for foundation work **Not applicable**

**Clause 4.3** Competent Authority for deciding reduced rates **Not applicable**

**Clause 4.4** Defects Liability Period **365 days**

**Clause 4.6**

**Requirement of Technical Representative(s) and Recovery Rate**

S.No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 4.6	
						Figures	Words
1	Graduate Degree in Engineering/ Master's Degree in Geosciences	Engineering/ Geosciences	Groundwater Professional	Minimum 3 three years experience in "Supply, installation & commissioning of DWLR/Telemetry" and similar works.	Minimum one	Rs.2000/- per day	Rupees Two Thousand per day

**Retired Government Officer served at minimum level of Assistant Engineer or equivalent with Diploma qualification will be treated at par with Graduate Engineers.**



**Clause 8.1**

Number of days from the date of issue of letter of acceptance for reckoning date of start

**15 days**

Time allowed for execution of work

**45 days for supply & installation of Digital Ground Water Level Recorders (DWLR) without Electrical Conductivity sensor from the date of award of contract.**

Authority to give fair and reasonable extension of time for completion of work

S.N.	Authority	Extension of time
1	Regional Director, CGWB	30 days
2	Member, CGWB	60 days
3	Chairman, CGWB	90 days
4	Secretary, MoWR, RD&GR	120 days

**Clause 8.2**

Competent authority for fixing compensation **Chairman CGWB**

**Clause 9.1**

Dispute resolution board shall consists of following members  
i) **The concerned Member, CGWB under whose jurisdiction the work is being executed**  
ii) **The FAO, CGWB**  
iii) **The Regional Director, CGWB where work is being executed**

**Clause 9.2**

Appointing authority for Arbitrator

**Chairman, CGWB**

## SECTION XII

# FORMATS FOR QUALIFICATION INFORMATION

## SECTION XII

### FORMATS FOR QUALIFICATION INFORMATION

- 1 The information to be filled in by the Bidder in the following pages will be used to ascertain responsiveness of the bidder as per eligibility criteria provided for in Clause 2 of the Instructions to Bidders. This information will not be incorporated in the Contract.

**1.1 For Individual Bidders**

(Refer Clause 2.2 of ITB)

Constitution or legal status of Bidder:

*[Attach copy]*

Place of registration:

*[Attach copy of Registration Certificate]*

Principal place of business:

Power of attorney of signatory of Bid:

*[Attach copy]*

**2 Annual turnover for last three financial years**

(Refer Clause 2.3 of ITB)

Financial Year	Turnover (INR)
2012-13	
2013-14	
2014-15	

**3 (a) Details of similar works successfully completed during last seven years**

(Refer Clause 2.4 of ITB)

Financial Year	S. No.	Employer	Acceptance of Tender/ Notice of Award/ Contract Details	Description of Work	Date of Completion	Value of Contract
2009-10						
2010-11						
2011-12						
2012-13						
2013-14						

2014-15						
2015-16						

**(b) Detail for proof of payment in case of work executed for private/Government clients:**

S.N.	Name of client	Details of payment viz. cheque, RTGS etc. Amount with date

**4. Details of “Supply, installation & commissioning of DWLR/Telemetry” by the bidder during last seven years**  
(Refer Clause 2.5 & 2.6 of ITB)

**Format for 2.5**

S. No.	Details of location in India	Installation Depth	No. of DWLR with Telemetry

**Format for 2.6 (a)**

S.No	Type of Brochure	Technical Specifications as mentioned in Section V Scope of Works and Technical Specifications	Technical Specifications offered by the Bidder	Compatibility with the specifications mentioned in Section V Scope of Works and Technical Specifications <b>YES OR NO</b>

**Format for 2.6 (b)**

I/We ..... here by undertake to demonstrate the solution offered to the members of Technical committee if requested, by installing the solution offered at a place identified by CGWB for a period of 1 month or as decided appropriate by the technical committee constituted by Government for evaluation at our cost.

**Signature****Format for 2.6 (c)**

S.No.	Type of Certificate	Issuing Authority with Date

**Format for 2.6 (d)**

S.No	Name, address of office with contact no.	Contact Person	Email ID	Phone no.

**Note: The final decision in respect of above shall be of CGWB and shall be binding to the bidders.**

- 5 In case of a consortium, attach certified copy of the agreement between various partners identifying the parts and components of the system for which the concerned partner is responsible for execution. Furnish the information as required under Clause 1 to 4 above for each partner individually. (Refer Clause 2.2 of ITB)
- 6 Please provide a complete plan of operation for executing the work of packages bid for in the timeframe prescribed for completion of work, including information about availability of resources (owned/ hired/ leased/ to be procured).

**7. Checklist for EMD**

S.N.	Name of item	EMD in INR	Form of EMD (Account Payee Demand Draft/Fixed Deposit Receipt/Banker's Cheque/Bank Guarantee)	Amount of EMD (Amount shouldn't be less than the amount mentioned in Col.3)	Date of issue of EMD	EMD Expiry Date (EMD shall be valid for a period of (120 + 60) = 180 days from the last date of submission of bid*)
1	2	3	4	5	6	7

**\*In case last date of submission of bid has been extended, 180 days shall be counted from extended date.**

## SECTION XIII

### BANK GUARANTEE FORM FOR EMD

## SECTION XIII

### BANK GUARANTEE FORM FOR EMD

To

The President of India  
Acting through  
Drawing & Disbursing Officer, Central Ground Water Board, Faridabad

WHEREAS {Name and Address of Tenderer} (hereinafter called "the tenderer") has submitted its quotation (hereinafter called the "tender") dated {} for supply of {Short Description of Goods and Services} against the Tendering authority's tender inquiry No. {} dated {}

Know all persons by these presents that we {Name of Bank} (hereinafter called the "Bank") having our registered office at {Address of Bank} are bound unto {Name of Tendering authority} (hereinafter called the "Tendering authority") in the sum of {Amount} for which payment will and truly to be made to the said Tendering authority, the Bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said Bank this {Specify Day} day of {Specify Month and Year}.

The conditions of this obligation are:

- (a) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (b) If the Tenderer having been notified of the acceptance of his tender by the Tendering authority during the period of its validity:
  - (i) fails or refuses to furnish the performance security for the due performance of the contract.
  - (ii) fails or refuses to accept/execute the contract.

We undertake to pay the Tendering authority up to the above amount upon receipt of its first written demand, without the Tendering authority having to substantiate its demand, provided that in its demand the Tendering authority will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of 60 (sixty) days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

{Signature of the Authorised Officer of the Bank}  
{Name and Designation of the Officer}  
{Seal, Name & Address of the Branch of the Bank}

## SECTION XIV

# BANK GUARANTEE FORM FOR PERFORMANCE SECURITY



## SECTION XIV

### BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

To  
The President of India  
Acting through  
Drawing & Disbursing Officer, Central Ground Water Board, Faridabad

WHEREAS {Name and Address of Supplier} (hereinafter called "the supplier") has undertaken, in pursuance of Contract No {} dated {} to supply {Short Description of Goods and Services} (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of {amount of the guarantee in words and figures}, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of {amount of the guarantee }, as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to and including the {Specify Day} day of {Specify Month and Year}.

{Signature of the Authorised Officer of the Bank}  
{Name and Designation of the Officer}  
{Seal, Name & Address of the Branch of the Bank}

## SECTION XV

### TENDER ACCEPTANCE LETTER

## SECTION XV

### TENDER ACCEPTANCE LETTER

From  
{Name and Address of Tenderer}

Date

To  
The Chairman  
Central Ground Water Board  
'Bhujal Bhawan'  
NH – IV  
Faridabad - 121001

Subject: "Supply, Installation, Commissioning of 584 Digital Water Level Recorders( DWLR) and telemetry, including Protection box, fencing and security arrangements, establishment of Data Acquisition system and its maintenance for Real Time Ground Water Level monitoring" in 13 states namely Andhra Pradesh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana and Uttar Pradesh.

Reference: Your Tender Enquiry Document No.{Number} dated {Date}

Dear sir,

1. I/ We have downloaded/ obtained the tender document(s) for the above mentioned 'Goods/Work' from <http://cgwb.gov.in> or the Central Public Procurement portal of Government of India <http://eprocure.gov.in/eprocure/app> as per your advertisement, given in the above mentioned websites.
2. I/ We hereby certify that I/ we have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_\_ to \_\_\_\_\_ {including all documents like annexure(s), schedule(s), etcetera}, which form part of the contract agreement and I/ we shall abide by the terms/ conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.
4. I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ corrigendum(s) in its totality / entirety.
5. I/ We hereby declare that our firm have never been under a declaration of non-ineligibility for corrupt and fraudulent practices issued by any Court or Government Department or Public Sector Undertaking and not blacklisted for non-compliance of any contract by any Government Department or Public Sector Undertaking.
6. I / We certify that all information furnished by us is true and correct and in the event that the information is found to be untrue/ incorrect or found violated, then your department/ organization shall, without giving any notice or reason thereof, summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the earnest money deposited by us.

Yours faithfully,

(Signature of the Tenderer, with Official Seal)

SECTION XVI  
INSTRUCTIONS  
FOR  
ONLINE SUBMISSION OF BID

## SECTION XVI

### INSTRUCTIONS FOR ONLINE SUBMISSION OF BIDS

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

#### REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

#### SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

#### **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered /given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will

be rejected.

- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message and a bid summary will be displayed with the bid no. and the date and time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

#### **ASSISTANCE TO BIDDERS**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is Toll Free No. 1800 3070 2232 and Mobile Nos 91 7878007972 and 91 7878007973.

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## SECTION XVII

## SAFETY CODE



## SECTION XVII

### SAFETY CODE

1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to  $1\frac{1}{4}$  horizontal and 1 vertical.)
2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.)
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11½") for ladder upto and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least  $\frac{1}{4}$ " for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.
6. Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are  
1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within  
1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.
7. Demolition - Before any demolition work is commenced and also during the progress of the work,
  - i) All roads and open areas adjacent to the work site shall either be closed or suitably protected

- ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
  - ii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
8. All necessary personal safety equipment as considered adequate by the Employer should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned:- The following safety equipment shall invariably be provided.
- i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
  - ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
  - iii) Those engaged in welding works shall be provided with welder's protective eye-shields.
  - iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to :-
    - a) Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.
    - b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
    - c) Before entry presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
    - d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.
    - e) Safety belt with rope should be provided to the workers. While working inside the manholes such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
    - f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
    - g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
    - h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
    - i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Employer may decide the time up to which a worker may be allowed to work continuously inside the manhole.
    - j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
    - k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any

inflammable gas that might be present.

- l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
  - m) The workers shall be provided with Gumboots or non sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
  - n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
  - o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
  - p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Employer regarding the steps to be taken in this regard in an individual case will be final.
  - vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-
    - a) No paint containing lead or lead products shall be used except in the form of paste or ready made paint.
    - b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scraped.
    - c) Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.
- 9 The Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form. wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use :
- (i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
  - ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.
  - iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
  - iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
  - v) Overall shall be worn by working painters during the whole of working period.
  - vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
  - vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by the Employer.
  - viii) The Employer may require, when necessary medical examination of workers.
  - ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.
11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall

conform to the following standards or conditions :-

- i) (a) These shall be of good mechanical construction, sound materials and adequate strength and  
free from patent defects and shall be kept repaired and in good working order.
  - (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
  - ii) Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
  - iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
  - iv) In case of departmental machines, the safe working load shall be notified by the Electrical Employer. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Employer whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.
12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
  13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
  14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
  15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Employer of the department or their representatives.
    1. Notwithstanding the above clauses from (1) to (15) there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

WP(C) 36/2009

ITEM NO.11

COURT NO.1

SECTION PIL

S U P R E M E C O U R T O F I N D I A  
RECORD OF PROCEEDINGS

WRIT PETITION (CIVIL) NO(s). 36 OF 2009

IN RE: MEASURES FOR PREVENTION OF FATAL  
ACCIDENTS OF SMALL CHILDREN DUE TO THEIR  
FALLING INTO ABANDONED BORE WELLS AND TUBE WELLS

Petitioner(s)

VERSUS

UNION OF INDIA & ORS.

Respondent(s)

(With office report)

Date: 11/02/2010 This Petition was called on for hearing today.

CORAM :

HON'BLE THE CHIEF JUSTICE  
HON'BLE DR. JUSTICE B.S. CHAUHAN  
HON'BLE MR. JUSTICE C.K. PRASAD

Mr. Paramjit Singh Patwalia, Sr. Adv.

(A.C.)

For Petitioner(s)

For Respondent(s)

Ms. Indira JaiSing, ASG  
Mr. Ashok Bhan, Adv.  
Ms. Sadhna Sandhu, Adv.  
Mr. C.K. Sharma, Adv.  
Mr. D.S. Mahra, Adv.

For State of Haryana

Mr. Manjit Singh, AAG for Haryana  
Mr. Kamal Mohan Gupta, Adv.  
Ms.Reeta Chaudhary, Adv.  
Mr. Gaurav Teotia, Adv.

For State of Punjab

Mrs. Jayshree Anand, AAG for Punjab  
Mr. K.K. Mahalik, Adv.  
Mrs. Noor Jahan, Adv.  
Mr. Kuldip Singh, Adv.

For State of Raj.

Dr. Manish Singhvi, AAG for Rajasthan  
Mr. Devanshu Kumar Devesh, Adv.  
Mr. Milind Kumar, Adv.  
Mr. T. Harish Kumar, Adv.

For State of U.P.                      Mr. Shail Kumar Dwivedi, AAG for U.P.  
   Mr. Manoj Kr. Dwivedi, adv.  
   Ms. Vandana Mishra, Adv.  
   Mr. Ashutosh Kr. Sharma, Adv.  
   Mr. Gunnam Venkateswara Rao, Adv.

For State of T.N.                        Ms. Promila, adv.  
   Mr. S. Thananjayan, Adv.

UPON hearing counsel the Court made the following O R D E R

Certain safety measures/guidelines have been given in the signed order which are to be observed by all the States. The guidelines given in the signed order shall be given wide publicity through the national television channels. A copy of this order be sent to the Chief Secretaries of all the States/Union Territories who shall forward the same to the District Collectors of all Districts of their respective State.

For further directions post this matter after 12 weeks.

Ajay Kr. Jain)  
Court Master

(Veera Verma)  
Court Master

(Signed order is placed on the file)

IN THE SUPREME COURT OF INDIA  
CIVIL ORIGINAL JURISDICTION

WRIT PETITION(C)NO.36 OF 2009

In Re: Measures for Prevention of Fatal Accidents of Small Children Due to Their Falling Into Abandoned Bore Wells and Tube Wells

.... Petitioner

Versus

Union of India & Ors.

.... Respondents

**O R D E R**

Heard the learned Amicus Curiae and the learned Addl. Solicitor General appearing for the Union of India.

It has been brought to the notice of this Court that in a number of cases children had been trapped and fallen into bore wells and tube wells or abandoned wells. These reports have been coming from various States. Accordingly, we took suo motu initiative and issued notice to the various States to take immediate measures to prevent such kind of incidents.

The Union of India has filed its counter affidavit giving certain guidelines to be followed by the States.

We have perused the affidavit and the guidelines suggested by the Union of India.

Having regard to the number of incidents that have taken place during the recent past and immediate need for preventing such incidents in future, we direct that the following safety measures/guidelines are to be observed by all the States :-

(i)"The owner of the land/premises, before taking any steps for constructing bore well/ tube well must inform in writing at least 15 days in advance to the concerned authorities in the area, i.e., District Collector/ District Magistrate/Sarpanch of the Gram Panchayat/ concerned officers of the Department of Ground Water/ Public Health/ Municipal Corporation, as the case may be, about the construction of bore well/tube well.

(ii)Registration of all the drilling agencies,viz., Govt./Semi Govt./Private etc. should be mandatory with the district administration.

(iii)Erection of signboard at the time of construction near the well with the following details :-

- (a) Complete address of the drilling agency at the time of construction/ rehabilitation of well.
- (b) Complete address of the user agency/ owner of the well.
- (iv) Erection of barbed wire fencing or any other suitable barrier around the well during construction.
- (v) Construction of cement/concrete platform measuring 0.50 x 0.50 x 0.60 meter (0.30 meter above ground level and 0.30 meter below ground level) around the well casing.
- (vi) Capping of well assembly by welding steel plate or by providing a strong cap to be fixed to the casing pipe with bolts & nuts.
- (vii) In case of pump repair, the tube well should not be left uncovered.
- (viii) Filling of mud pits and channels after completion of works.
- (ix) Filling up abandoned borewells by clay/sand /boulders/pebbles/drill cuttings etc. from bottom to ground level.
- (x) On completion of the drilling operations at a particular location, the ground conditions are to be restored as before the start of drilling.
- (xi) District Collector should be empowered to verify that the above guidelines are being followed and proper monitoring check about the status of boreholes/tubewells are being taken care through the concerned State/Central Government agencies.
- (xii) District/Block/Village wise status of bore wells/tubewells drilled viz. No. of wells in use, No. of abandoned bore wells/tube wells found open, No. of abandoned borewells/tubewells properly filled up to ground level and balance number of abandoned borewells/tubewells to be filled up to ground level is to be maintained at District Level.
- In rural areas, the monitoring of the above is to be done through Village Sarpanch and the Executive from the Agriculture Department.
- In case of urban areas, the monitoring of the above is to be done through Junior Engineer and the Executive from the concerned Department of Ground Water/Public Health/ Municipal Corporation etc.
- (xiii) If a borewell/tubewell is 'Abandoned' at any stage, a certificate from the concerned department of Ground Water/Public health/Municipal Corporation/Private contractor etc. must be obtained by the aforesaid agencies that the 'Abandoned' borewell/tubewell is properly filled upto the ground level. Random inspection of the abandoned wells is also to be done by the Executive of the concern agency/department. Information on all such data on the above are to be maintained in the District Collector/ Block Development Office of the State.

The guidelines abovementioned shall be given wide publicity through the national television channels. A copy of this order be sent to the Chief Secretaries of all the States/Union Territories who shall forward the



same to the District Collectors of all Districts of their respective State.

For further directions post this matter after 12 weeks.

.....CJI.

.....J.  
(Dr. B.S. CHAUHAN)

.....J.  
(C.K. PRASAD)

NEW DELHI;  
FEBRUARY 11, 2010

## SECTION XVIII

# MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS

## SECTION XVIII

### MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS

#### 1. APPLICATION

These rules shall apply to all buildings and construction works in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

#### 2. DEFINITION

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.

#### 3. FIRST-AID FACILITIES

i) At every work place there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.

ii) The first-aid box shall be distinctly marked with a red cross on white back ground and shall contain the following equipment:-

a) For work places in which the number of contract labour employed does not exceed

50-Each first-aid box shall contain the following equipments :-

1. 6 small sterilized dressings.
2. 3 medium size sterilized dressings.
3. 3 large size sterilized dressings.
4. 3 large sterilized burn dressings.
5. 1 (30 ml.) bottle containing a two per cent alcoholic solution of iodine.
6. 1 (30 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.
7. 1 snakebite lancet.
8. 1 (30 gms.) bottle of potassium permanganate crystals.
9. 1 pair scissors.
10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institutes, Government of India.
11. 1 bottle containing 100 tablets (each of 5 gms.) of aspirin.
12. Ointment for burns.
13. A bottle of suitable surgical antiseptic solution.

b) For work places in which the number of contract labour exceed

50. Each first-aid box shall contain the following equipments.

1. 12 small sterilized dressings.
2. 6 medium size sterilized dressings.
3. 6 large size sterilized dressings.
4. (15 gms.) packets sterilized cotton wool.

5. 1 (60 ml.) bottle containing a two per cent alcoholic solution iodine.
  6. 1 (60 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.
  7. 1 roll of adhesive plaster.
  8. 1 snake bite lancet.
  9. 1 (30 gms.) bottle of potassium permanganate crystals.
  10. 1 pair scissors.
  11. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /Government of India.
  12. A bottle containing 100 tablets (each of 5 gms.) of aspirin.
  13. Ointment for burns.
  14. A bottle of suitable surgical antiseptic solution.
- iii) Adequate arrangements shall be made for immediate recoument of the equipment when necessary.
  - iv) Nothing except the prescribed contents shall be kept in the First-aid box.
  - v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
  - vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment, in the work places where the number of contract labour employed is 150 or more.
  - vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
  - viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

#### **4. DRINKING WATER**

- i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.
- ii) Where drinking water is obtained from an Intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn form it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.
- iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

#### **5. WASHING FACILITIES**

- i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

#### **6. LATRINES AND URINALS**

- i) Latrines shall be provided in every work place on the following scale namely :-
  - a) Where female are employed there shall be at least one latrine for every 25 females.

b) Where males are employed, there shall be at least one latrine for every 25 males.

Provided that where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be up to the first 100, and one for every 50 thereafter.

- ii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- iii) Construction of latrines : The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- iv) a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.  
b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- v) There shall be at least one urinal for male workers up to 50 and one for female workers up to fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females up to the first 500 and one for every 100 or part thereafter.
- vi) a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.  
b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- vii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- viii) Disposal of excreta :- Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- (ix) The contractor shall at his own expense, carry out all instructions issued to him by the Employer to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

## **7. PROVISION OF SHELTER DURING REST**

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head.

Provided that the Employer may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

## **8. CRECHES**

- i) At every work place, at which 20 or more women worker are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom.
- ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.
- iv) The contractor shall provide one ayaa to look after the children in the creche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.

- v) The use of the rooms earmarked as creches shall be restricted to children, their attendants and mothers of the children.

## 9. CANTEENS

- i) In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- ii) The canteen shall be maintained by the contractor in an efficient manner.
- iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- v) The floor shall be made of smooth and impervious materials and inside walls shall be lime-washed or colour washed at least once in each year.  
Provided that the inside walls of the kitchen shall be lime-washed every four months.
- vi) The premises of the canteen shall be maintained in a clean and sanitary condition.
- vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square meter (10 sft) per diner to be accommodated as prescribed in sub-Rule 9.
- xi) a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.  
b) Washing places for women shall be separate and screened to secure privacy.
- xii) Sufficient tables stools, chair or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule 9.
- xiii) a)
  1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipments necessary for the efficient running of the canteen.
  2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.  
b)
  1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.
  2. A service counter, if provided, shall have top of smooth and impervious material.
  3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipments.
- xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit, No loss' and shall be conspicuously displayed in the canteen.
- xvi) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely:-
  - a) The rent of land and building.

- b) The depreciation and maintenance charges for the building and equipments provided for the canteen.
  - c) The cost of purchase, repairs and replacement of equipments including furniture, crockery, cutlery and utensils.
  - d) The water charges and other charges incurred for lighting and ventilation.
  - e) The interest and amounts spent on the provision and maintenance of equipments provided for the canteen.
- xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

**10. ANTI-MALARIAL PRECAUTIONS**

The contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Employer including the filling up of any borrow pits which may have been dug by him.

- 11.** The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contracts.

**12. AMENDMENTS**

Government may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

## SECTION XIX

# CONTRACTOR'S LABOUR REGULATIONS



## SECTION XIX

### CONTRACTOR'S LABOUR REGULATIONS

#### 1. SHORT TITLE

These regulations may be called Contractors Labour Regulations.

#### 2. DEFINITIONS

- i) **Workman** means any person employed by contractor directly or indirectly through a subcontractor to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person :-
- a) Who is employed mainly in a managerial or administrative capacity : or
  - b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature : or
  - c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.

No person below the age of 14 years shall be employed to act as a workman.

- ii) **Fair Wages** means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.
- iii) **Contractors** shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.
- iv) **Wages** shall have the same meaning as defined in the Payment of Wages Act.
3. i) Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- ii) When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.
- iii) a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
- b) Where the minimum wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.
- c) Where a contractor is permitted by the Employer to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

#### **4. DISPLAY OF NOTICE REGARDING WAGES ETC.**

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information..

#### **5. PAYMENT OF WAGES**

- i) The contractor shall fix wage periods in respect of which wages shall be payable.
- ii) No wage period shall exceed one month.
- iii) The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- iv) Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- v) All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- vi) Wages due to every worker shall be paid to him direct or to other person authorized by him in this behalf.
- vii) All wages shall be paid in current coin or currency or in both.
- viii) Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- ix) A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Employer under acknowledgment.
- x) It shall be the duty of the contractor to ensure the disbursement of wages in the presence of the Engineer or any other authorized representative of the Employer who will be required to be present at the place and time of disbursement of wages by the contractor to workmen.
- xi) The contractor shall obtain from the Junior Engineer or any other authorized representative of the Employer as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form:-  
"Certified that the amount shown in column No..... has been paid to the workman concerned in my presence on ..... at ....."

#### **6. FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES**

- (i) The wages of a worker shall be paid to him without any deduction of any kind except the following :-
  - (a) Fines
  - (b) Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
  - (c) Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
  - (d) Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
  - (e) Any other deduction which the Central Government may from time to time allow.

- (ii) No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.  
**Note :-** An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-I
- (iii) No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- (iv) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
- (v) No fine imposed on any worker shall be recovered from him by instalment, or after the expiry of sixty days from the date on which it was imposed.
- (vi) Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

## 7. LABOUR RECORDS

- (i) The contractor shall maintain a **Register of persons employed** on work on contract in Form XIII of the CL (R&A) Central Rules 1971
- (ii) The contractor shall maintain a **Mustar Roll** register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 .
- (iii) The contractor shall maintain a **Wage Register** in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971
- (iv) **Register of accident** - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:
  - a) Full particulars of the labourers who met with accident.
  - b) Rate of Wages.
  - c) Sex
  - d) Age
  - e) Nature of accident and cause of accident.
  - f) Time and date of accident.
  - g) Date and time when admitted in Hospital.
  - h) Date of discharge from the Hospital.
  - i) Period of treatment and result of treatment.
  - j) Percentage of loss of earning capacity and disability as assessed by Medical Officer.
  - k) Claim required to be paid under Workmen's Compensation Act.
  - l) Date of payment of compensation.
  - m) Amount paid with details of the person to whom the same was paid.
  - n) Authority by whom the compensation was assessed.
  - o) Remarks
- v) The contractor shall maintain a **Register of Fines** in the Form XII of the CL (R&A) Rules 1971  
The contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed
- vi) The contractor shall maintain a **Register of deductions for damage or loss** in Form XX of the CL (R&A) Rules 1971.
- vii) The contractor shall maintain a **Register of Advances** in Form XXIII of the CL (R&A) Rules 1971.
- viii) The contractor shall maintain a **Register of Overtime** in Form XXIII of the CL (R&A) Rules 1971.

**8. ATTENDANCE CARD-CUM-WAGE SLIP**

- i) The contractor shall issue an **Attendance card-cum-wage slip** to each workman employed by him.
- ii) The card shall be valid for each wage period.
- iii) The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
- iv) The card shall remain in possession of the worker during the wage period under reference.
- v) The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- vi) The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

**9. EMPLOYMENT CARD**

The contractor shall issue an **Employment Card** in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker.

**10. SERVICE CERTIFICATE**

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a **Service certificate** in Form XV of the CL (R&A) Central Rules 1971.

**11. PRESERVATION OF LABOUR RECORDS**

All records required to be maintained under Regulations Nos. 6&7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Employer or Labour Officer.

**12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY**

The Labour Officer or any person authorized by Central Government on their behalf shall have power to make enquires with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

**13. REPORT OF LABOUR OFFICER**

The Labour Officer or other persons authorized as aforesaid shall submit a report of result of his investigation or enquiry to the Employer indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Engineer after the Employer has given his decision on such appeal.

- i) The Engineer shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the Employer as the case may be.

**14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER**

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Employer within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the Engineer concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

**15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER**

- i) A workman shall be entitled to be represented in any investigation or enquiry under these regulations by:-
  - a) An officer of a registered trade union of which he is a member.
  - b) An officer of a federation of trade unions to which the trade union referred to in clause (a) is affiliated.
  - c) Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.

- ii) An employer shall be entitled to be represented in any investigation or enquiry under these regulations by :-
  - a) An officer of an association of employers of which he is a member.
  - b) An officer of a federation of associations of employers to which association referred to in clause (a) is affiliated.
  - c) Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.
- (iii) No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

#### **16. INSPECTION OF BOOKS AND SLIPS**

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorized by the Central Government on his behalf.

#### **17. SUBMISSIONS OF RETURNS**

The contractor shall submit periodical returns as may be specified from time to time.

#### **18. AMENDMENTS**

The Central Government may from time to time add to or amend the regulations and on any question as to the application/Interpretation or effect of those regulations the decision of the Employer shall be final.

(Note: Necessary Formats in which records are to be maintained and returns to be submitted shall be provided by the Employer.)

SECTION XX

CHECKLIST

SECTION XX		
<b><u>CHECKLIST MUST BE FILLED &amp; SUBMITTED BY THE BIDDER</u></b>		
(Please ensure that you have serially numbered each and every page of scanned documents forming your bid and furnished following documents in the manner prescribed mentioning the page number(s) of your bid in appropriate box) <b>This Checklist should be the first document of your bid numbered as page 1.</b>		
A.	<b><u>Cover 1 (Technical Bid)</u></b>	Reference Page No(s) where the documents are uploaded
Clause No.	Duly Self Attested following documents:	
<b>Section II (ITB Clause 2.9)</b>	(a) Copy of valid registration/enlistment with the respective authorities (Reference : clause 2.2 of eligibility criteria). <b>(Sl.No.1 of Section XII)</b>	
	(b) In case of a consortium, certified copy of the agreement between various partners. (Reference : Clause 2.2 of eligibility criteria)	
	(c) Scanned copy of undertaking of having employed the ground water professional during execution of work. (Reference : Clause 2.2 of eligibility criteria)	
	(d) Turnover for last three years <b>duly certified by Chartered Accountant.</b> (Reference : Clause 2.3 of eligibility criteria). <b>(Sl.No.2 of Section XII)</b>	
	(e) Details of works completed as per table at <b>Sl. No.3 (a) of Section XII.</b> (Reference : Clause 2.4 of eligibility criteria)	
	(f) Details of payment received from private clients as per table at <b>Sl. No.3 (b) of Section XII</b> (Reference : Clause 2.4 of eligibility criteria)	
	(g) Details of "Supply, installation & commissioning of DWLR/Telemetry" constructed as per table at <b>Sl. No.4 of Section XII.</b> (Reference : Clause 2.5 & 2.6 of eligibility criteria)	
	(h) Scanned copy of the certificate in testing of instrument (DWLR) issued by any government authorized agency/Government Authorized Laboratory	
	(i) Scanned copy of EMD	
	(j) Scanned copy of tender fee	
	(k) Scanned copy of Tender Acceptance letter: As per format in Section XV	
<b>Section II (ITB Clause 2.10)</b>	(a) Copy of completion certificate and other documents indicating the contract number, amount of the contract and the date of completion in support of details of work submitted by the bidder, duly certified by the competent authority of the respective organisation be submitted. (Reference : Clause 2.4 of eligibility criteria)	
	(b) Documents establishing receipt of payment in respect of details of works submitted by bidder. Form 26 AS of Income Tax returns, bank statement or any other documentary proof clearly indicating the name of the firm/organisations, payment received be submitted. (Reference : Clause 2.4 of eligibility criteria)	
	(c) Following documents duly certified by the organisation under whom the work has been executed shall be submitted (Reference : Clause 2.4 of eligibility criteria)	
	(i) Documents in support of quantity for "Supply, installation & commissioning of DWLR/Telemetry"	
	<b>(ii) Deleted</b>	
<b>(iii) Deleted</b>		
B.	<b>Cover 2 (Price Bid)</b>	In the BOQ template online.

**NOTE: THE BIDDERS SHALL PUT SERIAL NUMBER ON ALL THE PAGES AS PER CHECKLIST BEFORE UPLOADING ON THE PORTAL. BIDDERS WILL BE RESPONSIBLE IF THEIR BIDS BECOME NON RESPONSIVE DUE TO SUBMISSION WITHOUT PAGE NUMBER AND AS PER CHECKLIST.**

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