



WAPCOS LIMITED
(A Government of India Undertaking)
Ministry of Jal Shakti, Department of River Development & Ganga
Rejuvenation, Government of India

e-TENDER FOR

**DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS &
OBSERVATION WELLS IN DHOLERA BLOCK OF AHMEDABAD, GUJARAT
FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT**

NIT NO: WAP/WR&WS/GW-EW/GUJARAT/2026/01

(VOLUME-I: TECHNICAL BID)

(VOLUME-II: FINANCIAL BID)

WAPCOS LTD.

76-C, Institutional Area,
Sector-18, Gurugram,
Haryana – 122015
E-mail: wrp@wapcos.co.in;
rps@wapcos.co.in
Website: www.wapcos.gov.in

Sep, 2026

**DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELLS IN
DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER
QUALITY ASSESSMENT**

VOLUME - I
CONTENTS OF TENDER DOCUMENTS

CHAPTER NO.	CONTENTS	PAGE NO.
	Notice Inviting e-Tender	3-4
Chapter-I	Instruction for Bidders	5-21
Chapter-II	General Conditions of Contract	22-57
Chapter-III	Additional Conditions of Contract	58-61
Chapter-IV	Technical Specifications	62-93
	Forms	94-98
	Annexures	99-113
	Check List	114-117

ACRONYMS	
ACC	Additional Condition of Contract
AMC	Annual Maintenance Contract
BDS	BID DATA SHEET
CIF	Cost, Insurance and Freight
CIP	Carriage and Insurance Paid to (named place of destination)
CPM	Critical Path Method
DDP	Delivered Duty Paid (named place of destination)
EDI	Electronic Data Interchange
EXW	Ex-factory, Ex Works or Ex Warehouse
FCA	Free Carrier
FOB	Free on Board
GCC	General Conditions of Contract
IFB	Invitation for Bids
ITB	Instructions to Bidder
SCC	Special Condition of Contract

WAPCOS LIMITED
(A Government of India Undertaking)
Ministry of Jal Shakti, Department of River Development & Ganga Rejuvenation,
Government of India
76-C, Institutional Area, Sector-18, Gurugram, Haryana – 122015

NOTICE INVITING e- TENDER

For and on behalf of WAPCOS Limited, Dy. Chief Geologist (WR&WS) invites online item rate tender two bid system (Technical bid and financial bid) at Central Public Procurement Portal (CPPP) at <https://etenders.gov.in/eprocure/app> from approved and eligible, experienced, reputed, technically competent and financially sound registered contractors of C.P.W.D (B&R/Civil/Drilling)/State P.W.D (Buildings and Roads wing)/Railways/M.E.S or any other Government Department/ Organisation for the under mentioned work:

PROJECT NAME: DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELLS IN DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT.

Scope of Work for: Drilling, logging, lowering, gravel packing, compressor development & over pumping development, Pumping test (APT), Water Quality, construction of platform, preparation & installation Cap & Clamp and Basic Data Reports.

Table-I

Table 1					
Description		Estimated Cost (INR) excluding GST	EMD (INR)	Time Period for completion of work	Tender Fees
DRILLING AND CONSTRUCTION OF 45 WELLS (15 EWs + 30 OWs) IN DHOLERA (GUJARAT) FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT		95,00,000/-	1,90,000/-	60 days	Nil/-
Time Frame for Submission of Tender Document			Date	Time	
1	Dates of Online Publication of Tender Documents in CPP portal		11.09.2026	1000 Hrs.	
2	Dates of Tender Document Download		Start	11.09.2026	1200 Hrs.
			End	30.09.2026	1500 Hrs.
3	Deadline for seeking further information/clarifications through email		16.09.2026	1700 Hrs.	
4	Date of Pre-Bid Meeting		17.09.2026	1430 Hrs.	
5	Dates of Online Submission of Tender		Start	11.09.2026	1700 Hrs.
			End	30.09.2026	1200 Hrs.
6	Deadline for Physical Submission of Power of Attorney (PoA), Solvency Certificate, EMD in Original Hard Copy		30.09.2026	1500 Hrs.	
7	Time and Date for Opening of Technical Bid*		01.10.2026	1205 Hrs.	
8	Time and Date for Opening of Financial Bid		Will be communicated online after technical evaluation.		

*** Above schedule is tentative and may be changed.**

1. A complete set of Tender documents may be downloaded by interested bidders from the <https://etenders.gov.in/eprocure/app> and <https://www.wapcos.co.in/english/currenttender/> websites.
2. W A P C O S Bank Account details are as under:
 Invoice Reference Beneficiary : WAPCOS Limited
 Account Number : 193502000000405
 Bank Name : Indian Overseas Bank
 IFSC Code : IOBA0001935
 Bank Contact Number : 0124-2342323
3. Bidding will be conducted online competitive bidding procedures two bid system (Technical bid and Financial bid) specified in the Guidelines. The Bidder shall have satisfactory experience and position as stipulated in bidding documents under clause of eligibility and qualification requirements.
4. Interested eligible bidders may obtain further information and inspect the bidding documents at the same address.
5. Joint Venture/Consortium is not allowed to participate in the bidding process.
6. WAPCOS Ltd. will award contract to the bidder on the lowest rates, whose bid has been determined to be substantially responsive to the Bidding Documents.
7. Accepting Authority reserves the right to accept or reject any or all of tender documents without assigning any reason whatsoever
8. 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.
9. Bids shall be received online only at the website of CPP portal <https://etenders.gov.in/eprocure/app>.
10. Aspiring bidders who have not enrolled/ registered in CPP portal are advised to enrol/register before participating through the portal. The bidders are advised to go through the instructions provided Under ITB clause 1.17 'Instructions for online bid submission'.
11. The bidders will be at liberty to be present either in person or through an authorized 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.
12. The above particulars may be changed due to Administrative or any other reason and shall be available at CPP Portal and <https://www.wapcos.co.in/english/currenttender/> website. Therefore, bidders are requested to visit CPP Portal and <https://www.wapcos.co.in/english/currenttender/> websites frequently for any change above.
13. For any assistance during bid submission, system settings etc. bidders may contact at CPP Portal help desk.

Postal Address/ Physical Address:

Deputy Chief Geologist (WR&WS),

WAPCOS Limited

A – 23, 76-C,

Institutional Area,

Sector-18, Gurugram,

Haryana – 122015

E-mail: [wrd@wapcos.co.in/](mailto:wrd@wapcos.co.in)

rps@wapcos.co.in

Website: www.wapcos.gov.in

**For and on behalf of WAPCOS Limited
CED (WR&WS)**

Instruction to Bidders

CHAPTER – I

INSTRUCTION TO BIDDERS

TABLE OF CONTENTS

CLAUSE NO	TITLE OF CLAUSE
1.1	Invitation to Bid
1.2	Eligibility and Qualification Requirements (EQR)
1.3	Cost of Bidding
1.4	Site Visit
1.5	Contents of Bidding Documents
1.6	Clarification of Bidding Documents
1.7	Amendment of Bidding Documents
1.8	Language of Bid
1.9	Documents Comprising the Bid
1.10	Bid Prices
1.11	Currencies of bid and Payment
1.12	Bid Validity Period
1.13	Earnest Money Deposit
1.14	Bidding Condition
1.15	Pre-bid Meeting
1.16	Preparation of Bids
1.17	Instruction for Online Bid submission
1.18	Deadline for Submission of Bids
1.19	Modifications and Withdrawal of Bids
1.20	Bid Opening
1.21	Process to be Confidential
1.22	Clarification of Bids
1.23	Determination of Responsiveness
1.24	Correction of Errors
1.25	Evaluation and Comparison of Tender
1.26	Award Criteria
1.27	WAPCOS's Right to Accept any Bid and to Reject any or all Bids
1.28	Notification of Award
1.29	Signing of Agreement
1.30	Performance Security
1.31	Time Period
1.32	Mobilization
1.33	Signing of Contract
1.34	Integrity Pact (IP)

CHAPTER – I INSTRUCTION TO BIDDERS

A. GENERAL	
1.1 Invitation to Bid	For and on behalf of WAPCOS Limited, Deputy Chief Geologist (WR&WS) invites online item rate tender two bid system (Technical bid and financial bid) at Central Public Procurement Portal (CPPP) at https://etenders.gov.in/eprocure/app from approved and eligible, experienced, reputed, technically competent and financially sound registered contractors of C.P.W.D (B&R/Civil/Drilling)/State P.W.D (Buildings and Roads wing)/Railways/M.E.S or any other Government Department/Organisation for the under mentioned work: “DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELLS IN DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT.” 1.1.1 Scope of Work: Drilling, logging, lowering, gravel packing, compressor development & over pumping development, Pumping test (APT), Water Quality, construction of platform, preparation & installation Cap & Clamp and Basic Data Report. All materials provided by contractor, should be as per technical specifications and BOQ given in the tender documents. Transportation of all men, machinery & material to construction works at site, necessary for accomplishing all the features of the works detailed above shall also be provided by the Contractor. All the materials will be inspected as per the direction of WAPCOS Eng-in-charge and shall be stored in the store of contractor. The quantities will be verified by WAPCOS representatives/officers before utilization for construction of wells. Bidder has to facilitate the WAPCOS officials for onetime verification of Pipes and Gravels before its shifting to sites. Note: Bidder shall have to provide appropriate safety measures at all locations throughout the drilling, bore-well development and pumping-test activities, including necessary barricading, signage and site safety arrangements.
1.2 Eligibility and Qualification Requirements (EQR)	➤ Bidders are advised to carefully read and adhere to all instructions, terms and conditions stipulated in the tender documents. ➤ All submissions in the support of EQR, must strictly conform to the prescribed formats and clauses as specified therein. If the submitted bid documents by the bidder does not comply or fulfil to the requirements as per tender, his tender will be liable to be rejected. ➤ WAPCOS reserves its right to, but without any obligation to do so, seek any shortfall information/documents only in case of historical documents that pre-existed at the time of the bid opening, and which have not undergone change since then and does not grant any undue advantage to any bidder. ➤ Queries /Clarifications received from any bidder after due clarification date shall not be entertained. ➤ All submitted Undertakings/ BGs/ Notaries/ Forms/ Annexures etc. as per this tender requirement shall be of date between the publication of NIT and closing date of NIT, documents prepared before or beyond this time frames will not be considered in evaluation and treated as rejected. Authority to Sign the Tender a) In case of proprietary firm, the Proprietor shall sign with full name, current

address OR by the authorized person holding Notarized Power of Attorney issued by the Proprietor for signing of business proposal. The Power of Attorney shall be submitted in original and shall be specific to this Bid submission only and mentioning the name of the work/project.

- b) In case of a Limited Company or Corporation, the Application shall be signed by an authorized person holding the Power of Attorney for signing of business proposal. A certified copy of the Power of Attorney shall accompany the Application.

Note:

Powers of Attorney duly notarized and on a stamp paper of appropriate value, issued for signing the tender documents, make corrections/modifications, to interact with the Employer and act as the contact person, shall be submitted in Original, as per due date & time of submission mentioned in the NIT.

This invitation to bid is open to any bidder meeting the following requirements and the bidder shall be qualified for the contract as notified by the Employer in subsequent clauses:

1.2.1 Bidder should have registered for GST (Goods & Service Tax) and provide GSTIN certificate for the State where work is to be executed and PAN Card. If not registered till date of submission of bid, bidder will give an undertaking on bidder letter head stating that they will get registered in GST as per Govt. norms before submitting of 1st bill of executed works.

1.2.2 The Bidder should be approved and eligible registered contractors of C.P.W.D(B&R/ Civil/ Drilling)/ State P.W.D (Buildings and Roads wing)/ Railways /M.E.S or any other Government Department/ Organisation and tendering limit of bidder should be more than the estimated cost of bid for execution of Drilling works. Copy of Certificate of Incorporation/ Registration/ Partnership Deed Registration or any other relevant document, as applicable, should be submitted along with a copy of address proof.

The bidder will submit Name, address, details of the organization, Name(s) of the Owner/partners/promoters and Directors of the firm/company as prescribed in Form-B1.

Note: The bidder should have EPF registration.

1.2.3 The work completion certificate should mention the details of work executed and the date of completion of the work in the last seven year and in hand should be certified by an officer not below the rank of First-class officers or equivalent. The work completion certificate should be as per standard format (On Office Letter Head). The work experience certificate should carry official working e-mail ID and postal address of the issuing authority. (The submitted completion certificates will be verified from issuing authorities from WAPCOS side before it's consideration in EQR)

1.2.1 The applicant should have successfully completed or substantially completed similar works during last seven years ending last day of month previous to the one in which applications are invited should be either of the following:

- a. Three (03) similar completed works each costing not less than the amount equal to 40% of the estimated cost put to tender.

Or

- b. Two (02) similar completed works each costing not less than the amount equal to 50% of the estimated cost put to tender.
- Or
- One (01) similar completed work costing not less than the amount equal to 80% of the estimated cost put to tender
- “Substantially completed works “means an ongoing work in which payment equal to or more than 90% of the present contract value has been made to the contractor in that ongoing contract, and the work or a major part of it is in a usable condition for its intended purpose. No proceedings for termination on account of the contractor’s default should be pending in such cases. The Engineer-in-Charge or the Employer shall issue a certificate of substantial completion containing two parts. Part -I shall contain both the financial value of the work executed and certified for payment as a percentage of total current contract value, and part-II shall contain ‘certificate of functional completion of the work or a major part of it’. To remain valid for prequalification or tender evaluation, such certificates should have been issued within sixty days prior to the date of invitation of the tender.
- Definition of Similar Nature of Work: Works related to Drilling & Construction of Wells for Groundwater Development.
- The value of the work done declared is to be without GST/Taxes. For the works, where the Taxes or GST is not clearly defined, the value of works shall be considered as including GST and GST @12% shall be deducted for the works completed up to 31.12.2021 and GST @18% shall be deducted for the works completed after 01.01.2022 to establish the value of work done.
- The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 07% per annum; calculated from the date of completion to previous day of last date of submission of tenders.
- The past experience in similar nature of work should be supported by certificates issued by the Client’s Department/Organization. In case, the works/certificates are not verified by the issuing authority, WAPCOS reserves the right to not consider for the award of works.
- Verification should be done from the official email id of issuing Authorities. The bidder will provide official e-mail, Landline number of the Issuing Authorities in prescribed **Form-C(c)** with undertaking. Bidder will ensure the email ids and landline are in working condition. If certificates are not verified by the issuing authority, then it may not be considered for technical evaluation.
- 1.2.5 The average annual financial turnover of the bidder from Drilling construction works during the immediate last consecutive three years shall not be less than 50% of the estimated cost ending 31st March 2026. Year in which no turnover is shown would also be considered for working out the average. The turnover, profit, net worth (positive during the last financial year 2025-26) certificates for last five financial years (2021-22 to 2025-26) are to be submitted and must be certified by the Chartered Accountant doing Statutory Audit. Any such certificate must carry the UDIN (Unique Document Identification Number).

1.2.6 The bidder should not have incurred any loss (profit after tax should be positive) in more than two year during available last five consecutive Balance Sheets, duly certified and audited by the chartered accountant. Bidder shall attach balance sheet and profit & loss statement in support of **Form-A1**

Note:

This certificates will be verified through ICAI Portal using UDIN number mentioned in **Form-A1**

1.2.7 **Note:** There is no need to upload entire voluminous balance sheet. However, summarized balance sheet (audited) and summarized profit & loss account (audited) for last 05 years shall be uploaded.

1.2.8 The bidder should not be insolvent, in receivership, bankrupt or being wound up, not have had their business activities suspended. Accordingly, Bidder shall submit Bank Solvency Certificate issued from a Nationalized/Scheduled Commercial Bank approved by Reserve Bank of India (RBI) for a sum of at least 40% of the estimated cost of the work. The Certificate should be issued between the publishing of NIT & last date of submission of Bids, including extensions if any and shall be addressed to WAPCOS Limited, 76-C, Institutional Area, Sector-18, Gurugram, Haryana specific to this Bid submission only and mentioning the name of the work/project. The certificate shall be submitted in original and the colour/b&w copy/scanned copy shall not be accepted. The certificate should carry name, designation of the bank official, who has the authority to issue Solvency Certificate.

In case of MSME bidders, a Banker's Certificate indicating general worthiness or Credit Line/ Sanction Letter from Scheduled/ Nationalized Bank as applicable may be provided.

Verification should be done from the official email id of issuing Authorities. The bidder will provide official e-mail, Landline number of the Issuing Authorities in prescribed Form with undertaking. Bidder will ensure the email ids and landline are in working condition. If Certificate is not verified by the issuing authority, then it may not be considered for technical evaluation.

1.2.9 The bidder shall have sufficient construction equipment's, field testing equipment/machinery and skilled manpower to carry out the works and shall submit details along with documentary proof of such machinery and manpower, which bidder proposes to deploy.

Table-II

Equipments/ Machineries (own)	Minimum Required Nos.	Manpower (Regular)	Minimum Required Nos.
Drilling Rigs	2	Geologist (Post Graduate - minimum 05 years of experience)	1
Air Compressor	1	Site Supervisor (Drilling-in-Charge- minimum 10 years of experience)	2

		Geophysical Logger	1	Pumping Unit	2
		Minimum Manpower and Machinery as stated above should be arranged by the bidder and in addition to above, the bidder shall, as and when required, deploy additional manpower, machinery, equipment, and other resources at the site to meet the project requirements and ensure completion of the work within the stipulated contract period. The bidder will submit “undertaking for manpower and machineries/equipments deployment” as prescribed in Form-E. If bidder failed to deploy manpower and machineries/equipments within mobilisation period as mentioned in the tender documents, WAPCOS is free to terminate the contract at any time & forfeit the Bank Guarantee and blacklist the bidder. 1.2.9 The blacklisting policy of the company is available on official website of WAPCOS Limited. The bidder/tenderer/consultant/contractors have to mandatorily furnish an undertaking addressing the same to Engineer-in-Charge in the form of certificate to abide the contents of blacklisting policy. The format of undertaking is provided at Form-H. Any action in violation of the blacklisting policy or to the certificate furnished shall result in cancellation of tender at the stage before or after the award of work. 1.2.10 Bid Capacity as prescribed in Form-D. The bidder should possess the bidding capacity as calculated by the specified formula. The formula generally used is: Available bid capacity = $A \times 1.5 \times N - B$, where A=Maximum value of Drilling (similar nature of work as defined and relevant to work being procured) works executed in any one year during the last five years (updated at the current price level), taking into account the completed as well as works in progress. N=Number of years prescribed for completion of the work in question. B=Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years 1.2.11 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder: - directly or indirectly controls, is controlled by or is under common control with another Bidder; or - receives or has received any direct or indirect subsidy from any other Bidder;or - has the same legal representative as another Bidder; or - has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process			

1.3 Cost of Bidding	The bidder shall bear all costs associated with preparation and submission of his bid and WAPCOS shall in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. Note - In the event that the bid quoted is exceptionally lower—specifically, less than 10% of the estimated cost—the bidder shall be required to furnish an additional Bank Guarantee equivalent to the differential amount. This additional guarantee shall form part of the Performance Security.
1.4 Site Visit	The Bidder, at the bidder's own responsibility and risk is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the works. The cost of visiting the site shall be at the bidder's own expense.

B. THE BIDDING DOCUMENTS																																					
1.5 Contents of Bidding Documents	1.5.1 The bidding documents together with any addenda thereto, issued in accordance with Para 1.7 and any Minutes of pre-bid Meeting issued in accordance with Para 1.15 will include the following: Technical Bid <table> <tr> <th>S.No.</th><th>Chapter</th></tr> <tr> <td>1</td><td>Instruction to Bidders (ITB)</td></tr> <tr> <td>2</td><td>General Condition of Contract (GCC)</td></tr> <tr> <td>3</td><td>Additional Condition of Contract (ACC)</td></tr> <tr> <td>4</td><td>Technical Specifications (TS)</td></tr> </table> <table> <tr> <th>Form</th><th>Contents</th></tr> <tr> <td>Form-A</td><td>Financial Strength (Sub-Form A1 (Turn over) & A2 (Solvency certificate)</td></tr> <tr> <td>Form-B</td><td>Personnel and Equipments (Sub-Form B1, B2& B3)</td></tr> <tr> <td>Form – C</td><td>Format for Exploratory wells/ Deep Tubewell Works Presently under Construction</td></tr> </table> Annexures: <table> <tr> <td>Annex-I</td><td>Proforma for bank guarantee for Earnest Money Deposit</td></tr> <tr> <td>Annex-II</td><td>Proforma for Bid (To be enclosed with Price Bid)</td></tr> <tr> <td>Annex-III</td><td>Proforma of Agreement</td></tr> <tr> <td>Annex-IV</td><td>Proforma for Bank Guarantee for Performance Security</td></tr> <tr> <td>Annex – V</td><td>Tender Form</td></tr> <tr> <td>Annexure – VI</td><td>Undertaking for non Corrupt/ Fraudulent Practices</td></tr> <tr> <td>Annexure – VII</td><td>Litigation History</td></tr> <tr> <td>Annexure – VIII</td><td>Integrity Pact</td></tr> <tr> <td>Annexure – IX</td><td>Checklist</td></tr> </table> 1.5.2 The bidder is expected to examine carefully all instructions, conditions, proforma, terms & specifications and drawings in the Bidding Documents. Failure to comply with the requirement of bid submission will be at the bidder's own risk. Pursuant to Para 1.24, bids which are not substantially responsive to the requirements of the bidding document will be rejected.	S.No.	Chapter	1	Instruction to Bidders (ITB)	2	General Condition of Contract (GCC)	3	Additional Condition of Contract (ACC)	4	Technical Specifications (TS)	Form	Contents	Form-A	Financial Strength (Sub-Form A1 (Turn over) & A2 (Solvency certificate)	Form-B	Personnel and Equipments (Sub-Form B1, B2& B3)	Form – C	Format for Exploratory wells/ Deep Tubewell Works Presently under Construction	Annex-I	Proforma for bank guarantee for Earnest Money Deposit	Annex-II	Proforma for Bid (To be enclosed with Price Bid)	Annex-III	Proforma of Agreement	Annex-IV	Proforma for Bank Guarantee for Performance Security	Annex – V	Tender Form	Annexure – VI	Undertaking for non Corrupt/ Fraudulent Practices	Annexure – VII	Litigation History	Annexure – VIII	Integrity Pact	Annexure – IX	Checklist
S.No.	Chapter																																				
1	Instruction to Bidders (ITB)																																				
2	General Condition of Contract (GCC)																																				
3	Additional Condition of Contract (ACC)																																				
4	Technical Specifications (TS)																																				
Form	Contents																																				
Form-A	Financial Strength (Sub-Form A1 (Turn over) & A2 (Solvency certificate)																																				
Form-B	Personnel and Equipments (Sub-Form B1, B2& B3)																																				
Form – C	Format for Exploratory wells/ Deep Tubewell Works Presently under Construction																																				
Annex-I	Proforma for bank guarantee for Earnest Money Deposit																																				
Annex-II	Proforma for Bid (To be enclosed with Price Bid)																																				
Annex-III	Proforma of Agreement																																				
Annex-IV	Proforma for Bank Guarantee for Performance Security																																				
Annex – V	Tender Form																																				
Annexure – VI	Undertaking for non Corrupt/ Fraudulent Practices																																				
Annexure – VII	Litigation History																																				
Annexure – VIII	Integrity Pact																																				
Annexure – IX	Checklist																																				
1.6 Clarification	A prospective bidder requiring any clarification of the Bidding Documents may																																				

of Bidding Documents	notify in writing to the Dy. Chief Geologist, A – 23, O/ o WR&WS, WAPCOS, 76-C, Institutional Area, Sector-18, Gurugram, Haryana – 122015 E-mail: wrd@wapcos.co.in/ rps@wapcos.co.in
1.7 Amendment of Bidding Documents	1.7.1 At any time prior to the deadline for submission of bids, WAPCOS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by the issuance of an Addendum. 1.7.2 The corrigendum if any will be uploaded on CPP portal. 1.7.3 In order to afford prospective bidders reasonable time in which to take an corrigendum into account in preparing their bids, WAPCOS may, at its discretion, extend the deadline for the submission of bids in accordance with Para 1.19. A minimum period of 5 days will be provided to enable bidders to assess the implications of the corrigendum.
C. PREPARATION OF BIDS	
1.8 Language of Bid	The bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and WAPCOS shall be written in the English language.
1.9 Documents Comprising the Bid	The bid to be prepared by the bidder shall be on two bid system (Technical bid and financial bid) basis and shall comprise of the following: 1. Technical Bid (Marked as Volume-1 on CPP Portal) i. Scan copy of completed tender documents with required Certificates, Forms and Annexures used thereto duly filled in and signed wherever required without altering the formats. ii. Scanned copy of tender fee in shape of Demand draft from any scheduled bank in favour of WAPCOS Ltd., payable at New Delhi. iii. Scanned copy of Earnest Money Deposit either in the Demand Draft or Bank Guarantee as per Annexure – 1. NOTE: The original payment instrument like EMD, as specified in this tender document has to be sent to the address To: A-23, WAPCOS Limited, 76C, Sarhaul Abadi Village Road, Near State Bank Academy, Sector 18, Pin - 122015 by post/speed post/courier/by hand on or before the due date & time as mentioned in NIT. Otherwise the tender will be summarily rejected without assigning any reason. 2. Financial Bid (marked as Volume-2 on CPP Portal). i. Bill of Quantities with rates filled in figures and correctly calculated amount, in appropriate columns. NOTE: i) Volume-2 will be opened only after satisfying that the bidder meets the eligibility requirements after technical evaluation. Any lapse in providing documentary evidence towards meeting the eligibility requirement may lead to non-opening of Volume -2 of the bidder and thus rejection of his/ her bid. ii) Unit rate/ Item rate quoted under financial bid should not be abnormal. iii) The sequence/ order of the documents should be followed as per

	checklist enclosed (Annexure – IX) in the tender document.
1.10 Bid Price	1.10.1 The contract shall be for whole work based on the unit rates/ prices submitted by the bidder. 1.10.2 The bidder shall fill in rates and prices for all items of Works described in the Bill of Quantities including all duties, levies etc. (except GST). GST amount will be reimbursed as per Government of India prevailing rate. 1.10.3 Any bid, which proposes any alteration in the work specified in the said form of bidding document, or in the time allowed for carrying out the work or which contains any other conditions of any sort including conditional rebates, will be summarily rejected. 1.10.4 In event no rate has been quoted for any item (s), leaving space both in figure (s), word (s) and amount blank, it will be presumed that the contractor has included the cost of this/ these item (s) in other items and rate for such item (s) will be considered as zero and work will be required to be executed accordingly. 1.10.5 In respect of GST, same shall be paid by the contractor to the concerned department and it will be reimbursed to him by Engineer – in- charge after satisfying that it has been actually and genuinely paid by the contractor only if contractor submit proof of payment of GST within 15 Days of Payment. The contractor shall furnish return on GST portal from time to time and WAPCOS will have the right to withhold the payment if GST returns are not covering the bill raised to WAPCOS.
1.11 Currencies of bid and Payment	1.11.1 The unit rates and prices shall be quoted by the bidder entirely in Indian Rupees only.
1.12 Bid Validity Period	1.12.1 Bids shall remain valid for acceptance for a period of 120 days (one hundred twenty days) from the date of opening of bids prescribed in Para 1.21 hereof. 1.12.2 In exceptional circumstances, prior to expiry of the original bid validity period, WAPCOS may request the bidder for a specified extension in the period of validity. A bidder agreeing to the request will be required to extend the validity of his Earnest Money Deposit correspondingly. The provisions of Para 1.13 regarding discharge and forfeiture of Earnest Money Deposit shall continue to apply during the extended period of bid validity.

1.13 Earnest Money Deposit	1.13.1 The bidder shall furnish, as part of his bid, an earnest money deposit for an amount as listed in Table-I of tender document. 1.13.2 The Earnest Money Deposit shall at the bidder's option be in any one of the following alternative forms: (a) Crossed bank draft or fixed deposit receipt from any Scheduled Indian Bank in favour WAPCOS Limited payable at New Delhi. (b) Irrevocable bank guarantee issued by any scheduled bank in India, and pledged in favour of WAPCOS Ltd. The Proforma for the bank guarantee shall be in accordance with Annexure-I. 1.13.3 The earnest money deposit shall be made payable to WAPCOS Ltd. without any condition (s) or reservations in respect of bank drafts. Earnest money deposit shall remain valid for 60 days beyond the period of validity of the bid. 1.13.4 a. The bid can only be submitted after deposition of EMD in favour of WAPCOS Ltd. in the form prescribed in tender documents and upload the mandatory scanned documents such as receipt for deposition of EMD and other documents specified. b. Any bid not accompanied by an acceptable earnest money deposit will be rejected by WAPCOS as non-responsive. 1.13.5 The Earnest Money Deposit of unsuccessful bidders will be discharged /returned as promptly as possible, but not later than sixty days after expiration of the period of bid validity prescribed by WAPCOS. The Earnest money will be returned to the bidder without any interest if his bid is not accepted without any interest. EMD exempted for MSMEs. 1.13.6 The Earnest Money Deposit of the successful bidder will be discharged when the bidder has signed the agreement and furnished the required performance security. 1.13.7 No interest shall be paid by WAPCOS on the Earnest Money Deposit. 1.13.8 The Earnest Money Deposit may be forfeited; (i) If a bidder withdraws his bid during the period of bid validity (ii) In case of successful bidder, if he fails within the specified time limit to: - sign the Agreement, or furnish the required performance security
1.14 Bidding Condition	The bidder shall submit offers which comply fully with the requirements of the Bidding Documents.
Pre-1.15 Pre-Bid Meeting	1.15.1 A pre-bid meeting, open to all prospective bidders who have purchased the Bidding documents is contemplated to be convened in WAPCOS office at Pre-bid meeting: As per the date mentioned in the NIT at the address A – 23, O/ o WR&WS, WAPCOS, 76-C, Institutional Area, Sector-18, Gurugram, Haryana – 122015. Any change in the time and date of the pre-bid meeting shall be notified to the bidders 3 (three) days in advance. 1.15.2 The purpose of this meeting will be to issue clarifications and to answer queries on any matter that may be raised on the bidding document. 1.15.3 The bidder is requested to submit queries, in writing/ e-mail (wrd@wapcos.co.in/ rps@wapcos.co.in) not later than 1 day before the meeting.
1.16 Preparation of Bids	1.16.1 Bidder should take into account any corrigendum/ addendum published on the tender document before submitting their bids.

	1.16.2 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.
D. SUBMISSION OF BIDS	
1.17 Instruction for Online Bid Submission	1. Bids must be received by the Employer at the address specified under ITB Sub-Clause no later than the time and date stated in the BDS. 2. The Employer may, at its discretion, extend this deadline for submission of bids by amending the bidding documents in accordance with ITB Sub-Clause in which case all rights and obligations of Employer and bidders will thereafter be subject to the deadline as extended. 3. In cases where the manufacturer has submitted the bid, the bids of its authorized dealer will not be considered and EMD will be returned. 4. 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. 5. Use Internet Explorer to go to https://etenders.gov.in/eprocure/app?page=Home&service=page <u>INSTRUCTIONS FOR ONLINE SUBMISSION OF BIDS</u> 6. 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. 7. More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app?page=Home&service=page <u>REGISTRATION</u> 8. 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. 9. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. 10. 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. 11. 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. 12. 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. 13. 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

14. 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.
15. 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.
16. 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

17. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
18. 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.
19. 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.
20. 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

21. 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.
22. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
23. Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
24. 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.

	25. 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. 26. 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. 27. 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. 28. The uploaded tender documents become readable only after the tender opening by the authorized bid openers. 29. 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. 30. 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. <u>ASSISTANCE TO BIDDERS</u> 31. 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. 32. 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 numbers for the 24 X 7 helpdesk are 0120-4001 002/ 0120-4001 005/ 0120- 4493395 EMail Support: Technical - support-eproc(at)nic(dot)in Policy Related - cppp-doe(at)nic(dot)in
1.18 Sealing and Marking 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 & time 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 Financial 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 coloured (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.
8	The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9	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 & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10	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.
11	The Bidder should submit Original copies of Tender Fee & EMD/Bank Guarantee put in one envelope, before the due date & Time of opening online Bids or as indicted in the tender documents.
12	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.
13	Any queries relating to the process of online bid submission or queries relating to CPP Portal. Portal in general may be directed to the 24x7 Helpdesk. The contact number for the helpdesk is 0120-4001 002/ 0120-4001 005/ 0120- 4493395
14	The scanned copies of following documents must be submitted with the online bid in two volumes:

	The Volume-1 should contain documents as per Checklist (Annexure – IX) The Volume-2 should contain Price Bid/ BOQ The bidders should put serial numbers on all the pages as per checklist (Annexure – XI) before uploading on the portal.
1.19 Deadline for Submission of e-Bids	1.19.1 The e-bids must be submitted, not later than <i>the date and time as per NIT</i> 1.19.2 WAPCOS may, at its discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Para 1.7 in which case all rights and obligations of WAPCOS and the bidder previously subject to the original deadline shall thereafter be subject to the new deadline as extended.
1.20 Modifications and Withdrawal of Bids	1.20.1 The bidder may modify or withdraw his submitted bid, through CPPportal before the last date and time of submission of bid.
E. BID OPENING AND EVALUATION	
1.21 Bid Opening	1.21.1 The bid will be opened online at the time of opening of bids, the tenderer can view the bid opening event online at their remote end also. 1.21.2 In the event of any of the above mentioned tender opening date being declared as a holiday/ closed day for WAPCOS Ltd., the tenders will be opened on the next working day at the appointed time.
1.22 Process to be Confidential	1.22.1 After the opening of bids, information relating to the examination, clarification, evaluation and comparison of bids and recommendation concerning the award of Contract shall not be disclosed to bidders or other person not officially concerned with such process. 1.22.2 Any effort by a bidder to influence WAPCOS in the process of examination, clarification, evaluation and comparison of bids, and in decisions concerning award of Contract, may result in the rejection of his bid. 1.22.3 The Contractor shall not communicate or use in advertising, publicity or in any other medium, photograph or other reproduction of the Works under this Contract, or description of the site, dimensions, quantity, quality or other information, concerning the Works unless prior written permission has been obtained from the Engineer-in-charge, WR&WS, WAPCOS, Gurugram. 1.22.4 All documents, correspondence, decisions and other matters concerning the Contract shall be considered confidential and of restricted nature by the Contractor and he shall not divulge or allow access thereto by any unauthorized persons.

1.23 Clarification of Bids	During technical evaluation of tenders, the department may, at its discretion, ask the bidder for a clarification of its tender, for which no charges shall be paid to the bidder. The request for clarification and the response shall be in writing and no change in prices or substance of the Tender shall be sought, offered or permitted. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the tenderer who resort to canvassing will be liable to rejection.
1.24 Determination of Responsiveness	1.24.1 The bidder has to quote his rates as indicated in Instruction to bidders. 1.24.2 Prior to the detailed evaluation of bids, WAPCOS will determine whether each technical bid is techno-commercially substantially responsive to the requirements of the Bidding Documents. 1.24.3 For the purpose of the Para.1.24 a substantially responsive bid is one which fulfills the Eligibility and Qualification Requirements in accordance with Para 1.2 and conforms to all the terms, conditions and specifications of the Bidding Documents without material deviation or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality, or performance of the Works, or which limits in any substantial way, inconsistent with the Bidding Documents, WAPCOS' has rights or the bidder's obligations under the Contract and the rectification of which deviation or reservation would affect unfairly the comparative position of other bidders presenting substantially responsive bids. 1.24.4 The technical evaluation shall be made for the bidder's proposed method of Construction, Construction programme, order / sequence of the Work and proposed resources assigned to do the Work to determine his capability. 1.24.5 If the technical bid is not substantially responsive to the requirements of the Bidding Documents, or the proposed construction methods are clearly impracticable, it will be rejected by WAPCOS and may not subsequently be made responsive by the bidder having corrected or withdrawn the non-conforming deviation or reservation. 1.24.6 The price bids of only those bidders will be considered whose Techno-Commercial bids have been found to be substantially responsive to the requirements of the Bidding Documents. The date and venue for the opening of the price bid shall be notified separately and communicated to the eligible and technically qualified bidders .The price bids along with bid securities of the bidders whose Techno- Commercial bids have been declared non- responsive, shall be returned unopened to the bidders. The price bid of qualified bidders shall be opened in the presence of the intending bidders or their authorized representatives who wish to be present, on notified date by WAPCOS.
1.25 Correction of Errors	The price bid shall be checked by WAPCOS for any arithmetic errors in computation and summation. Errors will be corrected by WAPCOS as follows: (i) Where there is a discrepancy between the rate/ amount in figures (ii) Where there is a discrepancy between the unit rate and the total amount derived from the multiplication or addition of the unit rate and the quantity, the unit rate as quoted will govern.

1.26 Evaluation and Comparison of Tenders	1.26.1 WAPCOS will evaluate tenders and award the Contract to the techno-commercially acceptable responsive contractors offering the lowest Evaluated Tender Price. 1.26.2 WAPCOS reserves the right to accept or reject any variation, deviation or alternative offers. Variations, deviations, alternative offers and other factors which are in excess of the requirements of the Tender Document or otherwise result in the accrual of unsolicited benefits to WAPCOS shall not be taken into account in tender evaluation.
F. AWARD OF CONTRACT	
1.27 Award Criteria	The Employer will award the contract to the successful Bidder whose bid has been determined to be substantially responsive to be bidding documents and who has offered Lowest Bid Price.
1.28 WAPCOS's Right to Accept any Bid and to Reject any or all Bids	The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all' bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action.
1.29 Notification of Award	1.29.1 Prior to the expiration of the period of bid validity prescribed by WAPCOS or any extension thereof, WAPCOS will notify the successful bidder in writing by registered letter, that his bid has been accepted. 1.29.2 The notification of award will constitute the formation of the Contract. 1.29.3 Upon the furnishing by the successful bidder of a Performance Security in accordance with the provisions of para 1.31, WAPCOS will promptly notify the unsuccessful bidders that their bids have been unsuccessful.
1.30 Signing of Agreement	1.30.1 Within 7 (Seven) days of issue of the Letter of Acceptance, on a date and time mutually agreed upon, the successful bidder or his authorized representative shall attend the office of the CED, WR&WS, for signing of the Agreement. The Performa for Agreement is as at Annex – III. 1.30.2 Failure of the successful bidder to comply with the requirement of Para 1.30.1 will constitute sufficient grounds for the annulment of the award and forfeiture of the Earnest Money Deposit.
1.31 Performance Security	1.31.1 Within 7 (Seven) working days of the receipt of the notification of award (issue of letter of acceptance) from WAPCOS but not later than the date of the signing of the agreement, the successful bidder shall furnish to WAPCOS A performance security in the form of a bank guarantee for an amount of 3 % (Three percent) of the contract price in accordance with the conditions of the contract and should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of contractor including maintenance period. The performance security shall be refunded to the contractor after completion of the work, duly issue of completion certificate by WAPCOS's authorities and handed over of completed work and after expiry of maintenance period which ever is later. 1.31.2 The performance security provided by the successful bidder in the form of Bank Guarantee shall be in favour of WAPCOS issued by the any scheduled Indian Bank. The Bank Guarantee shall be on the Performa attached at Annex-IV. 1.31.3 Failure of the successful bidder to comply with the requirement of Para 1.30 and 1.31 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Earnest Money Deposit.

	1.31.4 Should the contract period, for whatever reasons be extended, the contractor On the receipt of written request from the Engineer-in-Charge, shall at his own cost get the validity period of Bank Guarantee in respect of Performance Security furnished by him extended and shall furnish the extended/ revised Bank Guarantee to the Engineer-in-Charge, one month before the expiry date of the Bank Guarantee originally furnished.
1.32 Time Period	The time period for completion of the works is 60 days. The time period is inclusive of mobilization of men and equipment.
1.33 Mobilization	The Contractor will be fully responsible for transportation/mobilization, including insurance, of his men and equipment to site. The Contractor has to ensure safe and timely delivery of its equipment to site so as to complete the works within stipulated time period.
1.34 Pin-point of site selection	The pinpoint of site for each well shall be provided by WAPCOS.

General Conditions of Contract

CHAPTER – II
GENERAL CONDITIONS OF CONTRACT
TABLE OF CONTENTS

CLAUSE NO.	TITLE OF CLAUSE
1	Definitions
2	Interpretation
3	Priority of Contract Document
4	Duties and powers of Engineer-in-Charge and Engineer-in-Charge's Representative(s)
5	Assignment
6	Sub-letting
	CONTRACT DOCUMENTS
7	Language and Law
8	Drawings
9	Further Drawings and Instructions
10	Contractor's General Responsibilities
11	Contract Agreement
12	Performance Security
13	Inspection of Site
14	Sufficiency of Bid
15	Works to be to the Satisfaction of Engineer-in-Charge
16	Programme to be Furnished
17	Contractor's Superintendence
18	Contractor's Employees
19	Setting out
20	Site Report
21	Watching and Lighting
22	Care of Works
23	Insurance of Plant & Equipment
24	Damage to persons and Property
25	Third Party Insurance
26	Accident or Injury to Workmen
27	Patent Rights and Royalties
28	Interference with traffic and adjoining Properties
29	Extraordinary Traffic
30	Contractor to keep Site clear
31	Clearance of Site on Completion
32	Labour
33	Material and Workmanship
34	Inspection of Operations
35	Examination of Work Before covering up
36	Removal of Improper Work and Materials
37	Suspension of Work
38	Commencement of Works
39	Possession of Site
40	Time for Completion

41	Extension of Time for Completion
42	Shift Works
43	Rate of Progress
44	Liquidated Damages for Delay
45	Certification of Completion of Works
46	Maintenance and Defects
47	Contractor to Search
	ALTERNATIONS, ADDITIONS, OMISSIONS AND EXTRA ITEMS
48	Variations
49	Extra Items
	PLANT, EQUIPMENT, TEMPORARY WORKS AND MATERIALS
50	Equipment, Temporary Works and Materials
51	Approval of Materials etc. not implied
	MEASUREMENT
52	Quantities
53	Works to be Measured
54	Method of Measurement
55	Key Personnel
56	Certificates and Payment
57	Security Deposit
58	Approval only by Maintenance Certificate
59	Maintenance Certificate
60	Remedies and Powers
61	Urgent Repairs
62	Special Risks/Termination of Contract
	FRUSTRATION
63	Payment in Event of Frustration
64	Solvency Certificate
65	Notices
66	Default of WAPCOS
	CHANGES IN COSTS AND LEGISLATION
67	Increase or Decrease of Costs
68	Taxation
69	Bribery and Collusion
70	Termination of Contract for WAPCOS's Convenience
71	Contractor's near Relatives Employed on the Project
72	Retired Officers Taking up Contract
73	Settlement of Disputes

CHAPTER – II
GENERAL CONDITIONS OF CONTRACT

Definitions	
Clause –1	In the Contract, as hereinafter defined, the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires: i) "WAPCOS" means WAPCOS Ltd. who will employ the Contractor. ii) "Contractor" means the person or persons, firm or company whose bid has been accepted by WAPCOS and includes the Contractor's personal representatives, successors and permitted assigns. iii) "Engineer-in-Charge" means the Geologist/ Geophysisit/ Engineer-in-Charge appointed from time to time by WAPCOS and notified in writing to the Contractor to act as the Engineer-in-Charge for the purposes of the Contract. iv) "Engineer-in-Charge's Representative" means any Resident Engineer or assistant of the Engineer-in-Charge appointed from time to time by WAPCOS or the Engineer-in-Charge to perform the duties mentioned in Clause-2 hereof, whose authority shall be notified in writing to the Contractor by the Engineer-in-Charge. v) "Works" shall include both Permanent Works and Temporary Works. vi) "Temporary works" means all temporary works of every kind required in or about the execution or maintenance of Works. vii) "Permanent Works" means the permanent works to be executed and maintained in accordance with the Contract. viii) "Contract" means the Conditions Governing the Contract, Technical Specifications, Drawings, priced Bill of Quantities, Letter of Acceptance and the Contract Agreement. ix) "Contract Price" or "Contract Value" means the sum indicated in the Letter of Acceptance. x) "GST" means Goods and Service Tax xi) "Plant and Equipment" or "Machinery" means and include plant, equipment, machinery, tools, appliances, other implements of all description or things of whatsoever nature required in or about the execution, or maintenance of the Works but does not include materials or other things intended to form or forming part of the Permanent Works. xii) "Specifications" means the Technical specifications and other

	Specifications referred to in the Bidding Documents and any modification thereof or addition thereto or deduction there from as may from time to time be furnished or approved in writing by the Engineer- in-Charge.
xiii)	"Drawings" means the drawings referred to in the Specifications and any modification of such drawings approved in writing by the Engineer-in-Charge and such drawings, as may, from time to time, be furnished or approved in writing by the Engineer-in-Charge.
xiv)	"Site" means the land and other places on, under, in or through which the Permanent Works or Temporary Works, designed by the Engineer-in-Charge are to be executed and any other lands and places provided by WAPCOS for the purposes of working space or any other purpose as may be specifically designated in the Contract or subsequently approved as forming part of site.
xv)	"Approved" means approved in writing, including subsequent written confirmation of previous verbal approval and "approval" means approval in writing including as aforesaid.
xvi)	"Dy. Chief Geologist" means the Dy. Chief Geologist-in-Charge of the Works or his successor and to whom the Engineer-in-Charge reports.
xvii)	"GoI" means Government of India.
xviii)	"Sub-Contractor" means the party or parties having direct contract with the Contractor and to whom any part of the Contract has been sublet by the Contractor with the consent, in writing, of the Engineer-in-Charge.
xix)	"Manufacturer" means the party proposing to manufacture the equipment and materials as specified complete or in part.
xx)	"Letter of Acceptance" means the letter from WAPCOS conveying acceptance of the bid subject to such reservations as may have been stated therein.
xxi)	"Tonne or Metric Tonne" means 1,000 kgs (one thousand kilograms). Metric system shall be followed in all interpretation and execution of Works under this Contract. Any conversion found necessary shall be in accordance with the figures given in 'Indian Standard'; IS 786-1967 and subsequent revision(s) of this Standard.
xxii)	"B.I.S." means Bureau of Indian Standard specifications with latest amendments or revisions as currently in force at the time of execution of the Works.
xxiii)	"Day" means a day from midnight to midnight.

	xxiv) "Month" means from the beginning of a given date of a calendar month to the end of the preceding date of the next calendar month. xxv) "Week" means seven consecutive days. xxvi) "Shift" means total number of hours which each group of workers have to operate for the day. xxvii) "Quarter" means a period of three consecutive months starting from January, April, July and October i.e. January to March, April to June, July to September and October to December. xxviii) "Near Relative" means wife/husband, parents and grandparents, children, first cousins, brothers-in-law, sisters-in-law and parents-in-law. xxix) "Words in singular number shall include the plural number and vice-versa where the context so requires. "He" shall include "She" and vice-versa. xxx) "Cost" mean all expenditure properly incurred or to be incurred whether on or off the site including overhead and other charges allocable thereto but does not include any allowance for profit. The headings in these conditions of the Contract shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the Contract.
Clause – 2	Interpretation Where the context so requires words imparting the singular or masculine term also include plural or feminine and vice versa. Headings have no significance. Words have their normal meaning under the language of the Contract unless especially defined. If the Contractor discovers any ambiguity, omission, error, faults and other defect in the Contract Documents, he shall immediately notify the same in writing to the Engineer, who will resolve the ambiguity or correct the error and will notify the Contractor of the interpretation to be adopted.
Clause – 3	Priority of Contract Document The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence: - the Contract Agreement - the Letter of Acceptance - the Letter of Tender with priced Bill of Quantities, - these Conditions of Contract

	e) the Specification, f) the Drawings, and g) the Schedules and any other documents forming part of the Contract.
Clause – 4	Duties and powers of Engineer-in-Charge and Engineer-in-Charge's Representative(s). i) The Engineer-in-Charge shall carry out such duties in issuing decisions, certificates and orders as are specified in the Contract. ii) The Engineer-in-charge's representative(s) shall be responsible to the Engineer-in- Charge, and his duties are to watch and supervise the Works and to test and examine any materials to be used or workmen employed in connection with the Works. He shall have no authority to relieve the Contractor of any of his duties or obligations under the Contract nor, except as expressly provided hereunder or elsewhere in the Contract, to order any Work involving delay or any extra payment by the Engineer-in-Charge, nor to make any variation of or in the Works. iii) The Engineer-in-Charge may, from time to time in writing, delegate to the Engineer-in-Charge's Representative(s) any of the powers and authorities vested in the Engineer-in-Charge and shall furnish to the Contractor a copy of all such written delegations of Powers and authorities. Any written instructions or approval given by the Engineer-in- Charge's Representative(s) to the Contractor within the terms of such delegation, but not otherwise, shall bind the Contractor as though it had been given by the Engineer-in-Charge. Provided always as follows: a) Failure of the Engineer-in-Charge's Representative(s) to disapprove any Work or materials shall not prejudice the powers of the Engineer-in-Charge thereafter to disapprove such Work or materials and to order the pulling down, removal or breaking up thereof. b) If the Contractor shall be dissatisfied by reason of any decision of the Engineer-in-Charge's Representative(s), he shall be entitled to refer the matter to the Engineer-in-Charge, who shall there upon confirm, reverse or vary such decision.
Clause –5	Assignment The Contractor shall not assign the Contract or any part thereof, or any benefit or interest therein of there under, otherwise than by a charge in favour of the Contractor's bankers of any money due or to become due under this Contract, without the prior written consent of WAPCOS.
Clause – 6	Sub-letting The Contractor shall not sub-let the whole/part of the Works. Except where otherwise provided by the Contract, the Contractor shall not sub-let any part of the Works without the prior written consent of the Engineer-in-Charge.
CONTRACT DOCUMENTS	
Clause –7	Language and Law

	i) a) The Contract documents shall be drawn up in English. All correspondence and documents relating to the bid, exchanged by the bidder and WAPCOS, shall be submitted in the prescribed form in English. All supporting documents and printed literature in connection with the bid shall be in English. b) The Law, which shall apply to the contract, is to be subject and according to which the contract is to be construed shall be the law for the time being in force in India within the jurisdiction of Delhi High Courts, New Delhi. ii) Documents Mutually Explanatory Several documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies, the documents shall take precedence in the order in which they are set out in the Performa of Agreement (Annex III).
Clause – 8	Drawings i) Custody of Drawings The drawings shall remain in the sole custody of the Engineer-in-Charge, but two copies thereof shall be furnished to the Contractor free of charge. The Contractor shall provide and make, at his own expense, any further copies required by him. At the completion of the Contract, the Contractor shall return to the Engineer-in-Charge all drawings provided under the contract. One copy of the drawings, furnished to the Contractor as aforesaid, shall be kept by the Contractor on the Site.
Clause – 9	Further Drawings and Instructions The Engineer-in-Charge shall have full power and authority to supply to the Contractor from time to time, during the progress of the Works, such further drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and maintenance of the Works. The Contractor shall carry out and be bound by the same.
Clause – 10	Contractor's General Responsibilities i) The Contractor shall, subject to the provisions of the Contract, and with due care and diligence, execute and maintain the Works and provide all labour, including the supervision thereof, materials, equipment and all other things, whether of a temporary or permanent nature, required in and for such execution and maintenance, so far as the necessity for providing the same is specified in or is reasonably to be inferred from the Contract. ii) The Contractor shall take full responsibility for the adequacy, stability and safety of all site operations and methods of construction, provided that the Contractor shall not be responsible, except as may be expressly provided in the Contract, for the design or specification of the Permanent Works, or for the design or specification of any Temporary Works prepared by the Engineer-in-Charge. iii) The Contractor shall promptly inform the Engineer-in-Charge of any

	error, omission, fault and other defect in the design of or specifications for the Works which are discovered when reviewing the Bidding Documents or in the process of execution of the Works. iv) Where no specifications have been laid down, the materials used and the Work done shall confirm to the relevant B.I.S. Code or any Internationally accepted Standards or as directed by the Engineer-in-Charge. v) All instructions and orders given by the Engineer-in-Charge at site are to be maintained in the Site Instruction Book and shall be taken to have been conveyed to the Contractor for his compliance. vi) The Contractor must have arrangements to receive normal correspondence on working days and urgent correspondence on all days.
Clause-11	Contract Agreement The Contractor shall, when called upon so to do, enter into and execute a Contract Agreement, to be prepared and completed at the cost of Contractor in the Proforma annexed with such modification as may be necessary.
Clause-12	Performance Security i) For the due performance of the contract, the Bid shall contain an undertaking by the contractor to obtain, when required, a guarantee of bank to be jointly and severally bound with the Contractor to WAPCOS in a sum not exceeding that stated in the Letter of Acceptance for such guarantee, the said bank and the terms of the said guarantee shall be such as shall be approved by WAPCOS. The obtaining of such guarantee and the cost of the guarantee to be so entered into shall be at the expense in all respects of the contractor, unless the Contractor otherwise provides. ii) Within 10 (Ten) days of the receipt of the notification of award (issue of letter of acceptance) from WAPCOS but not later than the date of the signing of the agreement, the successful bidder shall furnish to WAPCOS a performance security for component of drilling of Piezometer in the form of a bank guarantee for an amount of 3% (Three percent) of the contract price in accordance with the conditions of the contract and should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of contractor including maintenance period. The performance security shall be refunded to the contractor after completion of the work, duly issue of completion certificate by WAPCOS's authorities and handing over of completed work and after expiry of maintenance period which ever is later. iii) The performance Security will be released by WAPCOS, after the issue of the Maintenance Certificate and Completion Certificate both which ever is later.

Clause-13	Inspection of Site i) The Contractor shall be responsible for his own interpretation. ii) The Contractor shall also be deemed to have been fully aware of the Site and its surroundings and information available in connection therewith and to have satisfied himself, so far as is practicable, before submitting his bid, as to the form and nature thereof, including the subsurface conditions, the hydrological and climatic conditions, the extent and nature of work, and materials necessary for the completion of the Works, means of access to the Site and the accommodation he may require and in general, shall be deemed to have obtained all necessary information, subject as above mentioned, as to risk contingencies and all other circumstances which may influence or affect his Bid.
Clause –14	Sufficiency of Bid The Contractor shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of his Bid for the Works and of the rates and prices stated in the priced Bill of Quantities and the Schedule of Rates and Prices, if any, which Bid rates and prices shall, except in-so-far as it is otherwise provided in the Contract, which shall cover all his obligations under the Contract, and all matters and things necessary for the proper execution and maintenance of the Works.
Clause –15	Works to be to the Satisfaction of Engineer-in-Charge Save in-so-far as it is legally or physically impossible the Contractor shall execute and maintain the Works in strict accordance with the Contract to the satisfaction of the Engineer-in-Charge and shall comply with and adhere strictly to the Engineer-in- Charge's instructions and directions on any matter whether mentioned in the Contract or not, touching or concerning the Works. The Contractor shall take instructions and directions only from the Engineer-in-Charge.
Clause – 16	Programme to be furnished i) Within a period of seven days of issue of letter of acceptance by WAPCOS, the Contractor shall submit to the Engineer-in-Charge for his approval, two copies of a construction programme showing the order of procedure in which he proposes to carry out the Works. ii) The detailed construction programme submitted by the Contractor for orderly completion of the Works, shall show planned sequence of operations and the dates for commencement and completion of all salient feature of the Works so as to complete the works in scheduled time. iii) The programme shall cover activities on the Site and procurement and delivery activities.
Clause –17	Contractor's Superintendence The Contractor shall give or provide all necessary superintendence during the execution of the Works and as long thereafter as the Engineer-in-Charge may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract. The Contractor, or a competent and

	authorized agent or representative approved of in writing by the Engineer-in-Charge, which approval may at any time be withdrawn, is to be constantly on the Works and shall give his whole time to the superintendence of the same. If such approval shall be withdrawn by the Engineer-in-Charge, the Contractor shall, as soon as is practicable, having regard to the requirement of replacing him as hereinafter mentioned, after receiving written notice of such withdrawal, remove the agent from the Works and shall not thereafter employ him again on the Works in any capacity and shall replace him by another agent approved by the Engineer-in-Charge. Such authorized agent or representative shall receive, on behalf of the Contractor, directions and instructions from the Engineer-in-Charge.
Clause –18	Contractor's Employees i) The Contractor shall provide and employ on the Site in connection with the execution and maintenance of the Works: a) Only such technical assistants as are skilled and experienced in their respective trades and such sub-agents, foremen and leading hands as are competent to give proper supervision to the work they are required to supervise, and b) Such skilled, semi-skilled and unskilled labour as is necessary for the proper and timely execution and maintenance of the Works. ii) The Engineer-in-Charge shall be at liberty to object to and require the Contractor to remove forthwith from the Works any person employed by the Contractor in or about the execution or maintenance of the Works who, in the opinion of the Engineer-in-Charge, misconducts himself or is incompetent or negligent in the proper performance of his duties, or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable and such persons shall not be again employed upon the Works without the written permission of the Engineer-in-Charge. Any person so removed from the Works shall be replaced as soon as possible by a competent substitute approved by the Engineer-in-Charge.

Clause – 19	Setting out The Contractor shall be responsible for properly locating the deepwells in relation to report given by the Engineer-in-Charge in writing and for the correctness, of the position, levels, dimensions of all parts of the Works and for the provision of all necessary instruments, appliances and labour in connection therewith. If, at any time during the progress of Works, any error shall appear or arise in the position, levels, dimensions of the Works, the Contractor, on being required so to do by the Engineer-in-Charge or the Engineer-in-Charge's Representative, shall at his own cost, rectify such error to the satisfaction of the Engineer-in- Charge or the Engineer-in-Charge Representative, unless such error is based on incorrect data supplied in writing by the Engineer-in-Charge or the Engineer-in-Charge's Representative, in which case the expense of rectifying the same shall be borne by WAPCOS. The checking of any setting out of deep well regarding location, dimensions or level by the Engineer-in-Charge or the Engineer-in-Charge's Representative shall not in any way relieve the Contractor or his responsibility for the correctness thereof and the Contractor shall carefully protect and preserve all control points and other things used in locating the deep well.
Clause –20	Site Report The Contractor, in preparing the bid, shall rely on any site investigation reports referred to in contract data, supplemented by any information available to the bidder.
Clause – 21	Watching and Lighting i) The Contractor shall, in connection with the Works, provide and maintain at his own cost, all lights, guards, fencing and watching when and where necessary or required by the Engineer-in-Charge or the Engineer-in-Charge's Representative, or by any duly constituted authority, for the protection of the Works, or for the safety and convenience of the public or others. ii) The Contractor shall also be responsible for temporary roadways, footways, guards, fences, caution notices etc. as far as the same may be rendered necessary by reason of the Work for the pedestrians or other traffic and owners and occupiers of the adjacent property and of the public and shall remain responsible for any accidents that may occur on account of his failure to take proper and timely precautions. In default thereof, the Engineer-in-Charge may provide such fencing, lights, ventilation and watchmen as he may deem necessary and charge the cost thereof to the Contractor.
Clause – 22	Care of Works i) The Contractor shall take full responsibility for the care of the Works from the date of Commencement of Works until the date of issue of the maintenance Certificate for the whole/part of the Works. ii) In the event of any loss or damage to the Works or any part

	thereof; during the period for which the Contractor is responsible for the care thereof, from any cause whatsoever, other than the risks defined in Sub-Clauses (v) & (vi) of this Clause, the Contractor, at his own cost, shall rectify such loss or damage so that the Permanent Works conform in every respect with the provisions of the Contract to the satisfaction of the Engineer-in-Charge. The Contractor shall also be liable for any loss or damage to the Works occasioned by him in the course of any operation carried out by him for the purpose of complying with his obligations. iii) In the event of any loss or damage to the Permanent Works which may occur or arise out of any of the Risks defined in Sub-Clause (v) of this Clause, the same shall be made good/rectified by the Contractor, if and to the extent required by the Engineer-in-Charge, at the cost of WAPCOS which sum shall be determined by the Engineer-in-Charge. iv) In the event of any loss or damage which may occur or arise out of any of the risks defined in Sub-Clause (vi) of this Clause, neither party to the Contract shall be liable to the other for any such loss or damage. However, in the event of any loss or damage to the Permanent Works arising as a consequence of the risk(s) defined in Sub-Clause (vi) of this Clause the same shall be made good/rectified by the Contractor at the cost of WAPCOS which sum shall be determined by the Engineer-in-Charge under the provisions of the Contract. v) WAPCOS 's risks are as under: a) loss or damage due to the use or occupation by WAPCOS of any section or part of the Permanent Works except as may be provided for in the Contract. b) loss or damage to the extent that it is due to the design of the Works other than any part of the design provided by the Contractor. vi) Force Majeure / Excepted risks are as under: a) war, hostilities whether war be declared or not, invasion, act of foreign enemies, act of public enemies. b) ionizing, radiation or contamination by radio activity from any nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly. c) Pressure waves caused by aerial devices traveling at supersonic speeds. d) Riot, commotion or disorder unless solely restricted to employees of the Contractor and arising from the conduct of the Works. e) Any operation of the forces of nature against which an experienced Contractor could not reasonably have been expected to take precautions.
--	---

Clause – 23	Insurance of Plant & Equipment The Contractor shall take insurance cover to the replacement value, for the equipment and other things brought on to the site by him.
Clause – 24	Damage to persons and Property The Contractor shall, except if and so far as the Contract provides otherwise, indemnify WAPCOS against all losses and claims in respect of injuries or damage to any persons or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the Works and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation or damages for or with respect to injuries or damage to persons or property resulting from any act or neglect of WAPCOS, servants, or other Contractors, not being employed by the Contractor, or for or in respect to any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the Contractor, his servants or agents, such part of the compensation as may be just and equitable having regard to the extent of the responsibility of WAPCOS, its servants or agents or other Contractors for the damage or injury.
Clause– 25	Third Party Insurance i) Before commencing the execution of the works the Contractor, but without limiting his obligation and responsibilities under Clause – 24 hereof, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property, including any employee of WAPCOS, by or arising out of the execution of the Works or in the carrying out of the Contract , otherwise , than due to the matters referred to in the provision to Clause-24 hereof. The contractor shall, whenever required, produce to the Engineer-in-charge or the Engineer-in-charge’s Representative the original policy or policies of insurance and the receipts for payment of the current premiums and furnish attested copies thereof. ii) Provision to Indemnify WAPCOS, The terms shall include a provision whereby, in the event of any claim in respect of which the Contractor would be entitled to receive indemnity under the policy being brought or made against WAPCOS, the insurer will indemnify WAPCOS against such claims and any costs, charges and expenses in respect thereof.
Clause – 26	Accident or Injury to Workmen i) WAPCOS shall not be liable for or in respect of any damages or compensation payable according to law in respect or in consequence of any accident or injury to any workman or other person in the employment of the Contractor or any sub-Contractor,

	save and except an accident or injury resulting from any act or default of WAPCOS, or servants. The Contractor shall indemnify and keep indemnified WAPCOS against all such damages and compensation, save and except as aforesaid, and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto. ii) On the occurrence of accident arising out of the Works which result in death, or which is so serious as to be likely to result in death, the Contractor shall, within twenty four hours of such accident, report in writing to the Engineer-in-Charge and other statutory bodies of the Government the facts stating clearly and in sufficient details the circumstances of such accident and the subsequent action. All other accidents of the Works involving injuries to persons or damage to property other than that of the Contractor shall be promptly reported to the Engineer-in-Charge and other statutory bodies of the Government stating clearly and in sufficient details of the facts and circumstances of the accidents and the action taken. In all cases the Contractor shall indemnify WAPCOS against all loss or damage resulting directly or indirectly from the Contractor's failure to report in the manner aforesaid. This includes penalties or fines, if any, payable by WAPCOS as a consequence of failure to give notice or failure to conform to the provisions of any Act in regard to such accidents. iii) Insurance against Accident, etc., to Workmen The Contractor shall insure against such liability with an insurer approved by WAPCOS, which approval shall not be unreasonably withheld, and shall continue such insurance during the whole of the time that any persons are employed by him on the Works and shall, when required, produce to the Engineer-in-Charge or the Engineer-in-Charge's Representative such policy of insurance and the receipt for payment of the current premium. Provided always that, in respect of any persons employed by any sub-Contractor, the Contractor's obligation to insure as aforesaid under this sub-clause shall be satisfied if the sub-Contractor shall have insured against the liability in respect of such persons in such manner that WAPCOS is indemnified under the policy, but the Contractor shall require such sub-Contractor to produce to the Engineer-in-Charge or the Engineer-in-Charge's Representative, when required, such policy of insurance and the receipt for the payment of the current premium.
Clause – 27	Patent Rights and Royalties i) The Contractor shall save harmless and indemnify WAPCOS from and against all claims and proceedings for or on account of infringement of any patent rights, designs, trademark or name or other protected rights in respect of any machine, work, or material used for or in connection with the Works or any of them and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Except where otherwise specified, the Contractor shall pay all

	tonnage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay, timber or other construction materials required from the Project. ii) In the event of any claims made under or action brought against WAPCOS in respect of any such matters as aforesaid, the Contractor shall be immediately, notified thereof and the Contractor shall be at liberty, at his own expense, to settle any disputes or to conduct any litigation that may arise there from. Provided that the Contractor shall not be liable to indemnify WAPCOS 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 Engineer-in-Charge in this behalf.
Clause-28	Interference with Traffic and Adjoining Properties: All operation necessary for the execution of the Works shall, so far as compliance with the requirements of the Contract permits, be carried on so as not to interfere unnecessarily or improperly with the convenience of the public, or the access to, use and occupation of public or private roads and foot paths to or of properties whether in the possession of WAPCOS or of any person. The Contractor shall save harmless and indemnify WAPCOS in respect of all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of, or in relation to, any such matters in-so far as the contractor is responsible therefore.
Clause-29	Extraordinary Traffic: i) Protection of Highways and Bridges The Contractor shall use every reasonable means to prevent any of the highways or bridges communicating with or the routes to the Site from being damaged or injury by any traffic of the Contractor or any of his Sub-Contractors and, in particular, shall select routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic, as will inevitably arise from the moving of plant and material from and to Site, shall be limited, as far as reasonably possible, and so that no unnecessary damage or injury may be occasioned to such highways and bridges.
Clause – 30	Contractor to keep Site clear i) During the progress of the Works, the Contractor shall keep the site reasonably free from all unnecessary obstructions and shall store or dispose of any Constructional plant and surplus materials and clear away and remove from the site any wreckage, rubbish or Temporary Works no longer required. ii) In case the Contractor does not keep the area clean and if found necessary to get the area cleaned, the Engineer-in-Charge shall issue a notice of forty eight hours, and in the event of non-compliance by the Contractor, get the area cleaned by some other agency. The cost of such cleaning shall be borne by the Contractor.
Clause – 31	Clearance of Site on Completion On the completion of the Works, the Contractor shall clear away and remove from the Site all Constructional Plant, surplus materials, rubbish and Temporary Works of every kind, and leave the whole of the site and Works clean and in a workman like

	condition to the satisfaction of the Engineer-in-Charge.
LABOUR	
Clause - 32	(i) Engagement of Labour The Contractor shall make his own arrangements for the engagement of all labour local or otherwise, and, save in-so-far as' the Contract otherwise provides, for the transport, housing, feeding and payment thereof. The Contractor shall not employ in connection with the Works any person who has not completed 18 years of age. No female labour shall be employed. (ii) Supply of Water The Contractor shall, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer-in-Charge or his Representative, an adequate supply of drinking and other water for the use of the Contractor's staff and workmen. (iii) Alcoholic Liquor & Drugs. The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor, or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his sub-Contractors, agents or employees. (iv) Disorderly Conduct, etc. The Contractor shall, at all times, take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst his employees and for the preservation of peace and protection, of persons and property in the neighbourhood of the Works against the same. (v) Contractor to Follow Labour Laws and wage laws of INDIA The Contractor shall, in respect of labour employed by him, comply with the provision of the various labour laws, Minimum Wages issued by Government of India and shall indemnify WAPCOS in respect of all claims that may be made against WAPCOS for non-compliance thereof by the Contractor, Notwithstanding anything contained herein, the Engineer-in-Charge may take such actions as may be necessary for compliance of the various labour laws and recover the costs thereof from the Contractor. (vi) Observance by Sub-Contractors

	The Contractor shall be responsible for observance by his sub-Contractors of the foregoing provisions.
MATERIALS AND WORKMANSHIP	
Clause – 33	Material and Workmanship Material and Workmanship a) The Contractor shall be responsible for arranging all the materials (except the materials to be supplied by WAPCOS) required for the construction of the Works from the source(s) acceptable to WAPCOS. He shall also be responsible for proper transportation and storage of these materials to the satisfaction of the Engineer-in-Charge and shall bear all related costs. b) The Engineer-in-Charge shall be entitled at any reasonable time, to inspect or examine all such materials. The Contractor shall provide reasonable assistance for such inspection or examination as may be required. c) The contractor shall initiate timely action to procure the materials well in advance so as to ensure that the progress of works does not suffer for want of materials at site at least seven days before these are intended to be used on works. Any setback to the progress of the works and consequent delay in completion of the works on account of non availability of materials at site shall be the sole responsibility of the contractor. d) Any assistance that the Engineer-in-Charge can give to the Contractor for arranging the materials shall be provided on a "no responsibility basis". (ii) Quality of materials and Workmanship and Tests (a) The Contractor shall, provide the materials of the quality, kind and specifications as provided in the Contract. The Contractor shall produce to the Engineer-in- Charge, certified quality test reports in respect of the materials procured by him. (b) In case the materials procured by the Contractor are not to the satisfaction of the Engineer-in-Charge and do not conform to the specifications laid in the Contract, such materials shall be rejected by the Engineer-in-Charge and the cost incurred on such procurement shall be the responsibility of the Contractor. (c) The workmanship shall be of the kind described in the Contract and in accordance with the Engineer-in-Charge's instructions. (d) All the materials and the workmanship shall be subjected, from time to time, to such tests as the Engineer-in-Charge may

	require at the place of manufacture, fabrication or preparations, or on the Site or at such other or places as may be specified in the Contract, or at all or any of such places. The Contractor shall provide such assistance, instruments, machines, labour and materials as are required for examining, measuring and testing any material and shall supply samples of materials, before incorporation in the Works, for testing, as may be selected and required by the Engineer-in-Charge. (iii) Cost of Samples All samples shall be supplied by the Contractor at his own cost. (iv) Cost of Tests The cost of making any test intended by or provided for in the Contract shall be borne by the Contractor.
Clause-34	Inspection of Operations The Engineer-in-Charge or any person authorized by him shall, at all times, have access to the Works and to all workshops and places where the 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 for and every assistance in or in obtaining the right to such access.
Clause - 35	Examination of Work before covering up i) No Work shall be covered up or put out of view without the approval of the Engineer-in-Charge or his Representative and the Contractor shall afford full opportunity for the Engineer-in-Charge or the Engineer-in-Charge's Representative to examine and measure any work which is about to be covered up or put out of view. The Contractor shall give due notice whenever any such work is or are ready or about to be ready for examination and the Engineer-in-Charge or the Engineer-in-Charge's Representative shall, without unreasonable delay, unless he considers it unnecessary and advises the Contractor accordingly, attend for the purpose of examining and measuring such work.
Clause- 36	Removal of Improper Work and Materials i) The Engineer-in-Charge shall have power to issue instructions from time to time for; a) the removal from the Site, within such time or times as may be specified in the instructions, of any materials which, in the opinion of the Engineer-in-Charge, are not in accordance with the Contract, b) the substitution of proper and suitable materials, and c) The removal and proper re-execution, notwithstanding any previous test thereof or interim payment therefore, of any work which in respect of materials or workmanship is not, in the opinion of the Engineer-in-Charge, in accordance with the Contract. ii) Default of Contractor in Compliance In case of default on the part of the Contractor in carrying out such

	instruction, as specified in subclause (i) of this clause, the Engineer-in-Charge shall be entitled to employ and pay other persons to carry out the same and all expenses consequent thereon or incidental thereto shall be recoverable from the Contractor by the Engineer-in-Charge or may be deducted from any money due or which may become due to the Contractor.
Clause-37	Suspension of Work i) The Contractor shall, on the written order of the Engineer-in-Charge, suspend the progress of the Works or any part thereof for such time or times and in such manner as the Engineer-in-Charge may consider necessary and shall, during such suspension, properly protect and secure the Works, or such part thereof, so far as is necessary in the opinion of the Engineer-in-Charge. The extra cost incurred by the Contractor in giving effect to the instructions of the Engineer-in-Charge under this Clause shall be borne and paid by WAPCOS unless such suspension is : a) otherwise provided for in the Contract, or b) necessary by reason of some default of or breach of Contract by the Contractor, or c) necessary by reasons of climatic conditions on the Site, or d) necessary for the proper execution of the Works or for the safety of the Works or any part thereof in so far as such necessity does not arise from any act or default by the Engineer-in-Charge or from any of the risks defined in Sub-Clause-20(vi) hereof, Provided that the Contractor shall not be entitled to recover any such extra cost unless he gives written notice of his intention to claim to the Engineer-in-Charge within fifteen days of the order of the Engineer-in-Charge. The Engineer-in-Charge shall settle and determine such extra payment and/or extension of time under Clause-44 hereof to be made to the Contractor in respect of such claim as shall, in the opinion of the Engineer-in-Charge be fair and reasonable.
COMMENCEMENT AND DELAYS	
Clause- 38	Commencement of Works The Contractor shall commence the actual drilling works on Site within a period of fifteen days after the issue of letter of acceptance
Clause - 39	Possession of Site i) Save in so far as the Contract may prescribe, the extent of portions of the Site of which the Contractor is to be given possession from time to time, and in which such portion shall be made available to the Contractor, and, subject to any requirement in the Contract as to the order in which the Works shall be executed, the Engineer-in-Charge will after issuing written order to commence the Works, give to the Contractor possession of so much of the Site as may be required to enable the Contractor to commence and proceed with the execution of the Works in accordance with the programme.

	The Contractor shall not be allowed to occupy other Government and/or WAPCOS land for temporary use or otherwise without the prior consent of the Engineer-in-Charge. ii) Rights of Way and Facilities The Contractor shall bear all costs and charges for special or temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide, at his own cost, any additional facilities outside the Site required by him for the purpose of the Works.
Clause –40	Time for Completion The period of completion of the whole of the Work shall be as shown in Table-I in tender document. The period of completion shall be reckoned from the date of issue of letter of acceptance to the successful bidder.
Clause – 41	Extension of Time for Completion 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, WAPCOS shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely. As soon as possible after the Contract is concluded the Contractor shall submit a Time and Progress Chart and get it approved by the Employer. 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 Employer 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. If the work(s) be delayed by: (i) force majeure events, or (ii) abnormally bad weather, or (iii) serious loss or damage by fire, or (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 (v) delay on the part of other contractors or tradesmen engaged by Employer in executing work not forming part of the Contract, or (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. Then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Employer but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Employer 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 14 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. 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 Employer 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 Employer and this shall be binding on the contractor.
Clause – 42	Shift Works i) To achieve the required progress, the Work may be required to be carried out round the clock. The period of completion and number of working days shall not be affected by the number of shifts each day. No extra amount on account of any shift work is payable to the Contractor. ii) Whenever the Work is carried out at night, adequate lighting of working areas and access paths shall be provided by the Contractor at his cost. Sufficient notice shall be given by the Contractor to the Engineer-in-Charge regarding details of Works in Shift so that necessary supervision could be provided.
Clause – 43	Rate of Progress If for any reason, which does not entitle the Contractor to an extension of time, the rate of progress of the Works at any time is not commensurate with the rate of progress stipulated in Clause (16) of this Clause and in the opinion of the Engineer-in-Charge does not ensure completion by the prescribed time or extended time for completion, the Engineer-in-Charge shall so notify the Contractor in writing and the Contractor shall thereupon take such steps as are necessary and the Engineer-in-Charge may approve to expedite progress so as to complete the Works by the prescribed time or extended time. The Contractor shall not be entitled to any additional payment for taking such steps.
Clause-44	Liquidated Damages for Delay (Liquidated damage as per G.C.C 8.2 shall be applicable): In case of delay in completion of the contract, liquidated damages (for repair works costing up to Rs. Ten lakh - one percent of the contract value per week and for all other works half percent of the contract value per week of delay subject to a maximum of ten percent of contract value) should be levied. The penalties proposed for identified lapses of omission or commission must be disclosed in the tender documents in clear monetary terms.
Clause – 45	Certification of Completion of Works When the whole of the Works have been substantially completed and have satisfactorily passed any final test that may be prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer-in-Charge or to the Engineer-in-Charge's Representative(s) accompanied by an undertaking mentioning that all the works have been finished. Such notice and undertaking shall be in writing and shall be deemed to be a request by the Contractor for the Engineer-in-Charge to issue a Certificate of Completion in respect of the Works. The Engineer-in-Charge shall, within twenty-one days of the date of delivery of such notice either issue to the Contractor, a Certificate of Completion stating the date on which, in his

	opinion, the Works are substantially completed in accordance with the Contract or give instructions in writing to the Contractor specifying all the Works which, in the Engineer-in-Charge's opinion, are required to be done by the Contractor before the issue of such Certificate. The Engineer-in-Charge shall also notify the Contractor of any defects in the Works affecting substantial completion that may appear after such instructions and before completion of the Works specified therein. The Contractor shall be entitled to receive such Certificate of Completion within twenty-one days of completion to the satisfaction of the Engineer-in-Charge of the Works so specified and making good any defects so notified.
MAINTENANCE AND DEFECTS	
Clause – 46	Maintenance and Defects i) Period of Maintenance for Civil Part of the Construction Activities (Pipes/ Gravel packing/ Platform etc) : In these conditions, the expression “Period of Maintenance” shall mean a period of 12 months after commissioning of last well and issue of completion certificate whichever is later. ii) Execution of Work of Repair etc. To the intent that the Works shall, at or as soon as practicable after the expiration of the Period of Maintenance be delivered to WAPCOS in the condition required by the Contract, fair, wear and tear excepted, to the satisfaction of the Engineer-in-Charge, the Contractor shall complete the Work, if any, outstanding on the date of completion, as certified under Clause-48 hereof, as soon as practicable after such date and shall execute all such work of repair, amendment, rectification and making good defects, imperfections, other faults as may be required of the Contractor in writing by the Engineer-in-Charge during period of Maintenance or within seven days after its expiration, as a result of an inspection made by or on behalf of the Engineer-in-Charge prior to its expiration. iii) Cost of Execution of works of Repair, etc. All repair works shall be carried out by the Contractor at his own expense if the necessity there of shall, in the opinion of the Engineer-in-Charge be due to the use of materials or workmanship not in accordance with the Contract, or due to neglect or failure on the part of the Contractor to comply with any obligation, expressed or implied, on the Contractor's part under the Contract. If, in the opinion of the Engineer-in-Charge such necessity shall be due to any other cause, the value of such work shall be ascertained and paid for as if it were additional work. iv) Remedy on Contractor's Failure to carry out Work Required If the Contractor shall fail to do any such work as aforesaid required by the Engineer-in-Charge, WAPCOS shall be entitled to employ and pay

	other persons to carry out the same and if such work is the work which, in the opinion of the Engineer-in-Charge, the Contractor was liable to do at his own expense under the Contract, then all expenses consequent there-on or incidental thereto shall be recoverable from the Contractor by the Engineer-in-Charge from any money due or which may become due to the Contractor.
Clause -47	Contractor to Search cause of any defect The Contractor shall, if required by the Engineer-in-Charge in writing, search under the directions of the Engineer-in-Charge for the cause of any defect, imperfection or fault appearing during the progress of the Works and during the period of maintenance. Unless such defect, imperfection or fault is one for which the Contractor is liable under the Contract, the cost of work carried out by the Contractor in searching as aforesaid shall be borne by WAPCOS. If such defect, imperfection or fault shall be one for which the Contractor is liable as aforesaid, the cost of the work carried out in searching as aforesaid shall be borne by the Contractor and he shall in such case repair, rectify and make good such defect, imperfection or fault at his own expense.
ALTERNATIONS, ADDTIIONS, OMISSIONS AND EXTRA ITEMS	
Clause – 48	Variations i) The Engineer-in-Charge shall make any variation in the form, quality or quantity of the Works or any part thereof or substitution for original specifications, design, drawings and instructions that may, in his opinion be necessary and for that purpose, or if for any other reason it shall, in his opinion be appropriate, he shall have power to order the Contractor to do and the Contractor shall do any or all of the following: a) increase or decrease the quantity of any work included in the Contract, b) omit or substitute any such work, c) change the character or quality or kind of any such work d) execute additional work of any kind necessary for the completion of the Works, and e) change any specified sequence or timing of construction or any part of the Works. No such variations shall in any way vitiate or invalidate the Contract, but the effect if any, of all such variations shall be valued on which he agreed to do the Work hereof. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of Contract by the Contractor or for which he is responsible, any additional Cost attributable to such default shall be borne by the Contractor. Any altered, additional or substituted work which the Contractor may be directed to do in the manner above specified as part of the work, shall be carried out by the Contractor on the same conditions in all respects on which he agreed to do the main Work. ii) The Unit Rates entered in the Bill of Quantities for the individual items

	shall apply for the quantities of Work as per actual execution of each item. However if quantities are deviated from the quantities specified in tender documents, prior written approval of the competent authority shall be taken before executing the deviated work. In case of deviated work, payment shall only be made for the work for which prior written approval of competent authority has been obtained.
Clause – 49	Extra Items The rates of extra items or deviated items shall be decided based on mutual consent by the Contractor and Engineer-in-Charge. Contractor has to submit his rate analysis as per prevailing market rates in writing within 7 days of the instruction of Engineer-in-Charge to execute the new items. The rate will be reviewed by WAPCOS and acceptable rate will be intimated to the Contractor for acceptance of the same. Under no circumstances, the Contractor shall at any stage suspend the work on account of non-settlement of rates of such varied Work.
PLANT, EQUIPMENT, TEMPORARY WORKS AND MATERIALS	
Clause – 50	Equipment, Temporary Works and Materials i) Contractor to Provide Equipment The Contractor shall provide at his own expense all plant, Temporary Work and Equipment, materials and Camps specified under para 1.1 of Chapter I of this document required for the execution of the Works. He shall furnish alongwith the bid a list of items of all machinery which he shall be deploying on the particular job. He shall also make necessary arrangements for supplementing them at his own expense, if required to do so by the Engineer-in-Charge at the time of acceptance of the Contract, or later on as the Work progresses. He shall also indicate whether he owns the machinery or he proposes to purchase or hire the same and shall furnish proof that he shall be able to arrange this machinery whether from his own resources or on hire. Within 5 (Five) days after the issue of the Letter of Acceptance, the Contractor shall mobilize of all the machines conforming with the list submitted with his bid. ii) Plant etc., Exclusive Use for the Works All Equipment, Temporary Works and materials provided by the Contractor shall, when brought on to the Site, be deemed to be exclusively intended for the execution of the Work and the Contractor shall not remove the same or any part thereof, except for the purpose of moving it from one part of the Site to another, without the consent, in writing, of the Engineer-in-Charge. iii) Removal of equipment & plant etc. Upon completion of the Works, the Contractor shall remove from the Site all the said equipment and Temporary works remaining thereon

	and any unused materials provided by the Contractor.
Clause-51	Approval of Materials etc. not implied The operation of Clause-50 hereof shall not be deemed to imply any approval by the Engineer-in- Charge of the materials or other matters referred to there-in nor shall it prevent the rejection of any such materials at any time by the Engineer-in-Charge.
MEASUREMENT	
Clause-52	Quantities The quantities set out in the Bill of Quantities are the estimated quantities of the Work, but they are not to be taken as the actual quantities of the Works to be executed by the Contractor in fulfilment of his obligations under the Contract.
Clause –53	Works to be measured The Engineer-in-Charge shall, except as otherwise stated, ascertain and determine by measurement the value in terms of the Contract of work done in accordance with the Contract. He shall, when he requires any part or parts of the Works to be measured, give notice to the Contractor's authorised agent or representative, who shall forthwith attend or send a qualified agent to assist the Engineer-in-Charge in making such measurement, and shall furnish all particulars required by either of them. Should the Contractor not attend, or neglect or omit to send such agent, then the measurement made by the Engineer-in-Charge or approved by him shall be taken to be the correct measurement of the work. For the purpose of measuring such permanent work as it to be measured by records and drawings. The Engineer-in-Charge's representative shall prepare records and drawings month by month of such work and the Contractor, as and when called upon to do so in writing, shall, within fourteen days, attend to examine and agree such records and drawings with the Engineer-in-Charge's Representative and shall sign the same when so agreed. If the Contractor does not so attend to examine and agree such records and drawings, they shall be taken to be correct. If, after examination of such records and drawings, the contractor does not agree with the same or does not sign the same as agreed, they shall nevertheless be taken to be correct, unless the Contractor shall, within five (5) days of such examination, lodge with the Engineer-in-Charge's representative for decision by the Engineer-in-Charge, notice in writing of the respects in which such records and drawings are claimed by him to be incorrect.
Clause- 54	Method of Measurement The Works shall be measured net, notwithstanding any general or local custom, except where otherwise specifically described or prescribed in the Contract. The contractor shall be made necessary arrangements for verification of well assembly, depth of drilling, water level and discharge.

Clause-55	Key Personnel - The contractor shall employ the key personnel named in the Schedule of Key Personnel and provide all necessary superintendence during execution of the work and as long thereafter as may be necessary for proper fulfilling of the obligations under the contract. The contractor shall immediately after receiving letter of award of the tender, intimate in writing to the Engineer the name, qualifications, experience, age, address and other particulars along with certificates, of the Site Manager to be the In-charge of the work. The Engineer shall within 5 days of receipt of such communication intimate in writing his approval or otherwise of site manager of the Contractor. Any such approval may at any time be withdrawn and in case of such withdrawal the contractor shall appoint another such Site Manager according to the provisions of this Clause. - Decision of the Engineer shall be final and binding on the contractor in this respect. Such site manager shall be appointed by the contractor soon after receipt of the approval from Engineer and shall be available at site at start of work. The Site Manager shall on receiving reasonable notice from the Engineer present himself to the Engineer and / or at the site of work, as required, to take instructions. - In case the Site Manager of the contractor does not discharge his duties satisfactorily, the Engineer shall have full powers to suspend the work and contractor shall be held responsible for the delay so caused to the work. - The contractor shall provide and employ on the site only such technical persons as are skilled and experienced in their respective fields and such supervisory staff as are competent to give proper supervision. The contractor shall provide and employ semi-skilled/unskilled labour as is necessary for proper and timely execution of the work.
CERTIFICATES AND PAYMENTS	
Clause-56	CERTIFICATES AND PAYMENTS A. Payment on Account: For Payment on account, bill shall be prepared on the basis of actual work executed, measured and acceptance of work executed. Any payment shall be released on back to back basis after receipt of payment from Client to WAPCOS side. Note: Mobilization Advance is not applicable. The Nominated Contractor (Executing Agency) acknowledges that under the present Contract, WAPCOS is only working as intermediary between Principal Employer/Client and Contractor. Thus the Contractor unconditionally acknowledges that the payments under the present Contract shall be made proportionately by WAPCOS only on back to back basis i.e., after 5 days subject to receipt of payment from Principal Employer/Client. The Contractor

	also unconditionally agree that in the event the payment or part thereof, under the present Contract is not received from Principal Employer/Client, then WAPCOS &/or any of its Employee/Officer shall not be responsible to pay any amount to Contractor. The said condition shall supersede any and all other conditions of Contract between the parties." B. Final Account: The final bill shall be submitted within one month of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is later. C. Security Deposit (Retention Money) Deduction towards Retention Money/Security Deposit @ 05% (Five Percent) of each bill (running/final) shall be made as under: - In respect of drilling of Piezometer component, security deposit @05% of each running bill and final bill shall be deducted, which shall be refunded after expiry of maintenance period prescribed for drilling work component. - In respect of supply installation and commissioning of Digital Water Level Recorder Component, security deposit @05% of each running bill and final bill shall be deducted, which shall be refunded after expiry of maintenance period prescribed for supply installation and commissioning of Digital Water Level Recorder Component. D. Deduction towards TCS on GST (currently 18%) Deduction towards GST (TDS) shall be made from every interim payment certified/final bill by Engineer-in-Charge in terms of GST rules as in force from time to time as per Government of India. GST will be reimbursed after submission of documentary proof. The GST as applicable shall be charged as per prevailing norms of the Government of India. The bidder shall indicate in the Price Schedules specifying all items prices shown therein including the unit prices and total prices of the goods and related services along with GST or any duties and taxes applicable against the schedule of requirements. GST if leviable shall be paid applicable. Any statutory variation shall be paid on submission of documentary evidence. Bidders shall be required to quote HSN code and applicable tax rates. "GST" means all four Acts CGST, SGST, UTGST, IGST and any other regulations by Government in relation to GST and rules thereto
--	--

Clause-57	Security Deposit Security deposit shall be released after expiry of maintenance period as prescribed below from the date of issuance of completion certificate. In these conditions, the expression "Period of Maintenance" shall mean a period of 12 months after commissioning of last well or issue of completion certificate whichever is later.
Clause-58	Approval only by Maintenance Certificate No certificate other than the Maintenance Certificate referred to in Clause-59 hereof shall be deemed to constitute approval of the works.
Clause-59	Maintenance Certificate i) The Contract shall not be considered as completed until a Maintenance Certificate shall have been signed by the Engineer-in-Charge stating that the Works have been completed and maintained to his satisfaction. The Maintenance Certificate shall be given by the Engineer-in-Charge within 28 (twenty eight) days after the expiration of the Period of Contract, or, if different periods of maintenance shall become applicable to different sections or parts of the Works, the expiration of the latest such period, or as soon thereafter as any works ordered during such period, pursuant to Clause-46 and 47 hereof, shall have been completed to the satisfaction of the Engineer-in-Charge and full effect shall be given to this Clause, notwithstanding any previous entry on the Works or the taking possession, working or using thereof or any part thereof by WAPCOS. Provided always that the issue of the Maintenance Certificate shall not be a condition precedent to payment to the Contractor of the retention money in accordance with the conditions set out in Clause-60 hereof. ii) Cessation or WAPCOS's Liability' WAPCOS shall not be liable to the Contractor for any matter or thing arising out of or in connection with Contract or execution of the Works unless the Contractor shall have made a claim in writing in respect thereof before the giving of the Maintenance Certificate under this Clause. iii) Unfulfilled Obligations Notwithstanding the issue of Maintenance Certificate, the Contractor and, subject to sub Clause (ii) of this Clause, WAPCOS shall remain liable for the fulfillment of any obligation incurred under the provisions of the Contract prior to the issue of the Maintenance Certificate which remains unperformed at the time such Certificate is issued and, for the purposes of determining the nature and extent of any such obligation, the Contract shall be deemed to remain in force between the parties hereto.
REMEDIES AND POWERS	
Clause –60	Remedies and Powers i) Default of Contractor If the Contractor shall become bankrupt, or have a receiving order made against him, or shall present his petition in bankruptcy, or shall

	make an arrangement with or assignment in favor of his creditors, or shall agree to carry out the Contract under a committee of inspection of his creditors or, being a corporation, shall go into liquidation (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), or if the Contractor shall assign the Contract, without the consent in writing of WAPCOS first obtained, or shall have an execution levied on his goods, or if the Engineer-in-Charge shall certify in writing that, in his opinion, the Contractor; a) has abandoned the Contract, or b) without reasonable excuse has failed to commence the Works or has suspended the progress of the Works for fifteen days after receiving, from the Engineer-in-Charge, written notice to proceed or c) has failed to remove materials from the site or to pull down and replace work for twenty eight days after receiving from the Engineer-in-Charge's written notice that the said materials or work had been condemned and rejected by the Engineer-in-Charge under these conditions, or d) despite previous warnings by the Engineer-in-Charge in writing, is not executing the Works in accordance with the Contract, or is persistently or flagrantly neglecting to carry out his obligations under the Contract, or e) has, to the detriment of good workmanship, or in defiance of the Engineer -in- Charge's instruction to the contrary, sub-let any part of the Contract; then the Engineer-in-Charge may, after giving seven day's notice in writing to the Contractor, enter upon the Site Works and expel the Contractor, from the entire Works or part thereof, without thereby voiding the Contract or releasing the Contractor from any of his obligations or liabilities under the Contract, or affecting the rights and powers conferred on WAPCOS or the Engineer-in-Charge by the Contract, and may itself complete the entire Work or part thereof as the case may be or may employ any other Contractor to complete the Works. WAPCOS or such other Contractor may use for such completion so much of the Constructional Plant, Temporary works and materials, which have been deemed to be reserved exclusively for the execution of the works, under the provisions of the Contract, as he or they may think proper, and WAPCOS may, at any time, sell any of the said Equipment, Temporary works and unused materials and apply the proceeds of sales in or towards the satisfaction of any sums due or which may become due to him from the Contractor under the Contract.
--	--

	ii) Valuation at Date of Forfeiture The Engineer-in-Charge shall, as soon as may be practicable after any such entry and expulsion by WAPCOS, fix and determine ex-party, or by or after reference to the parties or after such investigation or enquiries as he may think fit to make or institute, and shall certify what amount, if any, had at the time of such entry and expulsion been reasonably earned by or would reasonably accrue to the Contractor in respect of work actually done by him under the Contract and the value of any of the said unused or partially used materials, any Equipment and any Temporary Works. iii) Payment after Forfeiture If WAPCOS shall enter and expel the Contractor under this Clause, it shall not be liable to pay to the Contractor any money on account of the Contract until the expiration of the Period of Maintenance and thereafter until the costs of execution and maintenance, damages for delay in completion, if any, and all other expenses incurred by WAPCOS have been ascertained and the amount thereof certified by the Engineer-in-Charge. The Contractor shall then be entitled to receive only such sum or sums, if any, as the Engineer-in-Charge may certify would have been payable to him upon due completion by him after deducting the said amount. If such amount shall exceed the sum which would have been payable to the Contractor on due completion by him, then the Contractor shall, upon demand, pay to WAPCOS the amount of such excess and it shall be deemed a debt due by the Contractor to WAPCOS and shall be recoverable accordingly. In the event of the above course being adopted by the Engineer-in-Charge, the Contractor shall have no claim to compensation for any loss sustained by him by reason of having purchased or procured any equipment, material or entered into an agreements or made any advances on account or with a view to the execution of the Works or the performance of the Contract.
Clause –61	Urgent Repairs If, by reasons of any accident, or failure, or other event occurring to in or in connection with the Works or any part thereof, either during the execution of the Works or during the Period of Maintenance, any remedial or other work or repair shall, in the opinion of the Engineer-in-Charge or the Engineer-in-Charge's Representative, be urgently necessary for the safety of the Works and the Contractor is unable or unwilling at once to do such Work or repair, WAPCOS may employ and pay other persons to carry out such work or repair as the Engineer-in-Charge or the Engineer-in-Charge's Representative may consider necessary. If the work or repair so done by WAPCOS is work which, in the opinion of the Engineer-in-Charge, the Contractor was liable to do at his own expense under the Contract, all expenses properly incurred by WAPCOS in so doing shall be recoverable

	from the Contractor by WAPCOS, or may be deducted by WAPCOS from any money due or which may become due to the Contractor. Provided always that Engineer-in-Charge or the Engineer-in-Charge's Representative, as the case may be, shall, as soon after the occurrence of any such emergency as may be reasonably practicable notify the Contractor thereof in writing.
SPECIAL RISKS/ TERMINATION	
Clause-62	Special Risks/ Termination of Contract i) Special Risks The special risks are war, hostilities (whether war be declared or not), invasion, act of foreign enemies, the nuclear risks. ii) Termination of the Contract If, during the currency of the Contract any of the Special Risks mentioned herein above which, whether financially or otherwise, materially affects the execution of the Works, the Contractor shall unless and until the Contract is terminated under the provisions of this Clause, continue to use his best endeavours to complete the execution of the Works. Provided always that WAPCOS shall be entitled at any time after occurrence of such Special Risks to terminate the Contract by giving written notice to the Contractor and, upon such notice being given, this Contract shall, except as to the rights of the parties under this Clause and to the operation of Clause-67 hereof, terminate, but without prejudice to the rights of either party in respect of any antecedent breach thereof. iii) Removal of Equipment on Termination If the Contract shall be terminated under the provisions of the last preceding sub-clause, the Contractor shall, with all reasonable dispatch, remove from the Site all equipment and shall give similar facilities to his sub-Contractors to do so. Provided always that against any payments due from WAPCOS under this sub clause, WAPCOS shall be entitled to be credited with any outstanding balances due from the Contractor for advances in respect of equipment and materials and any other sums which at the date of termination were recoverable by WAPCOS from the Contractor under the terms of the Contract.
FRUSTRATION	
Clause –63	Payment in Event of Frustration If a war, or other circumstances outside the control of both parties, arises after the Contract is made so that either party is prevented from fulfilling its Contractual obligations, or under the law governing the Contract, the parties are released from further performance, then the sum payable by WAPCOS to the Contractor in respect of the work executed shall be the

	same as that which would have been payable under Clause-62 hereof if the Contract had been terminated under the provisions of Clause-62 hereof.
Clause – 64	Solvency Certificate Bidder should have a solvency equal to 40% of estimated cost. The bidder must submitted original Solvency certificate to WAPCOS office before due date as per NIT. Bidder must provide the name, designation, power of attorney with valid official email id and contact number of issuing Bank Authority of solvency certificate. Solvency Certificate must have been issued after the date of publication of NIT & be addressed to the tendering authority quoting the name of the work. The Solvency Certificate should not be dated beyond the last date of submission of the bids.
NOTICES	
Clause - 65	Notices i) Service of Notices on Contractor. All certificates, notices or written orders to be given by the Engineer-in-Charge to the Contractor under the terms of the Contract shall be served either by sending by post or delivering the same to the Contractor's office on Site or his principal place of business, or such other address as the Contractor shall nominate for this purpose. ii) Service of Notices on WAPCOS or Engineer-in-Charge All notices to be given to WAPCOS or to the Engineer-in-Charge under the terms of the Contract shall be served by sending by post or delivering the same to the respective addresses given below: WAPCOS Limited A-23, WR&WS, 76C, WAPCOS Ltd., Sector 18, Gurugram, Pin – 122015 iii) Change of Address Either party may change a nominated address to another address by prior written notice to the other party.
DEFAULT OF WAPCOS	
Clause – 66	Default of WAPCOS i) In the event of WAPCOS failing to pay to the Contractor the amount due under any certificate of the Engineer-in-Charge within 45 (forty five) days after the same shall have become due under the terms of the Contract, subject to any deduction that WAPCOS is entitled to make under the Contract, the Contractor shall be entitled to issue a notice to the Engineer-in-Charge stating that he shall be terminating his Works after thirty days from the issue of such notice, for the reasons stated therein. However, if within the said period of thirty days, the Engineer-in-Charge notifies the Contractor that the reason stated in the notice of the Contractor are not valid or that the alleged event of default of WAPCOS has been remedied or no longer exists. Then the contractor shall not be entitled to terminate the Contract.

	ii) If the Contractor becomes entitled to terminate the Contract in terms of sub clause (i) of this Clause, after expiry of the notice of thirty days, he may, notwithstanding hereof, remove from the Site all equipment brought by him. iii) In the event of such termination, WAPCOS shall be under the same obligations to the Contractor in regard to payment as if the Contract had been terminated under the provisions in Clause 65 hereof, but in addition to the payments specified in Clause-57 (iv) hereof, WAPCOS shall pay to the Contractor the amount of any loss or damage to the Contractor arising out of or in connection with or by consequence of such termination.
CHANGES IN COSTS AND LEGISLATION	
Clause – 67	Increase or Decrease of Costs The rate quoted by the Contractor shall remain valid for a period of 24 months. Any increase or decrease in cost due to change in labour charges/material charges and POL charges within a period of 24 months from the date of issue of letter of acceptance will not be paid additionally to the Contractor.
Clause-68	Taxation i) The price bid by the contractor shall include all duties, levies etc. (except GST), that may be levied according to the laws and regulations.. ii) The Contractor's staff, personnel and labor will be liable to pay personnel income tax in India in the respect of such of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the contractor shall perform such duties in regard to such deduction thereof as may be imposed on him by such laws and regulations.
Clause-69	Bribery and Collusion i) WAPCOS shall be entitled to terminate the contract and recover from the contractor the amount of any loss resulting from such termination if the contractor shall have offered or given to any person any consideration of any kind as an inducement or reward for doing, forbearing to do, any action in relation to obtaining, or in the execution of the Contract or any other Contract with WAPCOS, or for showing favour to any person in relation to the Contract or any other Contract with WAPCOS, or if any of the like acts shall have been done by any person employed by the Contractor or acting on his behalf (whether with or without the knowledge of the Contractor), or if the Contractor shall have come to any agreement with another Contractor or number of Contractors whereby an agreed quotation or estimate shall be offered as a bid to WAPCOS by any one or more Contractor(s). ii) In the event of such termination, the Contractor shall: a) Proceed as provided in Clause 62 (iii) hereof: b) Be paid by WAPCOS as provided in clause 62(iv) hereof, provided that any loss referred to in sub clause (i) of this clause shall first be deducted.

Clause-70	Termination of Contract for WAPCOS's Convenience i) WAPCOS shall be entitled to terminate this Contract at any time for WAPCOS's convenience after giving sixty days prior notice to the Contractor, with a copy to the Engineer-in-Charge. ii) In the event of such termination the Contractor shall: - Proceed as provided in the sub-clause -62 thereof and; - be paid by WAPCOS as provided in sub-clause-62(iv) hereof.
Clause-71	Contractor's near relatives Employed on the Project The Contractor shall intimate WAPCOS before submitting his bid whether any of his near relative is posted on the project as Manager/Deputy Manager or as an Officer in any capacity between the grades of Dy. Chief Geologist and Assistant Engineer (both inclusive) in WAPCOS. He shall also intimate the name of persons who are working with him in any capacity or are subsequently by him and who are near relatives to any officer in WAPCOS. Any breach of this condition by the Contractor will render him liable to be removed from the list of Contractors of WAPCOS and his work may be terminated without any compensation whatsoever.
Clause-72	Retired Officers taking up Contract No official employed on Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as/for a Contractor for a period of his retirement from service without the previous permission of WAPCOS. 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 WAPCOS as aforesaid, before submission of the bid or engagement in the Contractor's service as the case may be.
Clause-73	Settlement of Disputes (Dispute Resolution framework) I. Tier-I: Engineer-in-Charge (EIC) Determination Parties shall first refer disputes to the EIC, who shall examine the issue, undertake site level verification, if required and issue a reasoned decision within 30 days. II. Tier-II: Review by Departmental Review Committee (DRC) Either party may escalate the matter to DRC, which shall undertake an administrative review and pass a speaking order within 30 days, extendable once by a further period of 30 days for reasons to be recorded in writing. The review will be primarily "record-based" and oral hearing can be granted at the discretion of the committee. III. Tier-III: Mandatory Mediation If unresolved, the matter shall be taken to mediation under the Mediation Act, 2023 through a recognised mediation service provider. The mediation shall be conducted in accordance with the timelines and procedures prescribed under the Mediation Act, 2023. IV. Civil Court Jurisdiction In the event that the multi-tier dispute resolution mechanism is exhausted without resolution, any disputes arising out of or in

	connection with the contract shall be subject to the exclusive jurisdiction of the competent courts at Delhi only, where the Company's Registered Office is situated.
--	---

Additional Conditions of Contract

CHAPTER- III
ADDITIONAL CONDITIONS OF CONTRACT

CONTENTS

CLAUSE NO.	TITLE OF CLAUSE
1.	Arrangement by Contractor

CHAPTER -III

ADDITIONAL CONDITIONS OF CONTRACT

1. Arrangement by Contractor	1.1 All equipments, tools, plant and labour, but not limited to the following, required for the successful completion of work shall be arranged by Contractor at his cost: (i) Required DTH Rigs/ Combination Rigs/Rotary Rigs along with all accessories. (ii) Air compressor, Pumping test units, Pumping test units and all other accessories. (iii) Arsenic Test Field Kit (iv) Digital water meter recorder for pumping test (v) Any other equipment, tools & plants and accessories required for successful completion of the work. (vi) POL, suitable size of bits, drilling rods, bentonite mud and other consumable items required for drilling operation. (vii) Bail plug. (viii) Electrode. (ix) Diesel operated welding set. (x) Suitable pump and diesel generating set and measuring device for time, discharge (orifice method) and water level recorder (steel tape) for pumping test at each well site. (xi) For checking the verticality of well, necessary arrangement of plummet which is suspended through a thin wire from tripod with winch. (xii) Arrangements for transportation / storage of water for construction of wells. (xiii) Arrangements for transportation / storage of equipment & construction material in the mentioned area. (xiv) All temporary camp facilities/accommodation for his manpower at site. 1.2 Contractor shall quote his rates as per bill of quantities. 1.3 The Contractor shall be fully responsible for any failure/collapse of the well during drilling/reaming operation due to breaking/jamming of drilling bits/rods inside the hole, improper well casing/screen connection, improper assembling lowering, defective gravel packing. Under such situation where the length of the already drilling has to be abandoned, no payment shall be made and Contractor shall have no claim whatsoever for such failure. 1.4 In case of brake down, repairing or any other reason of nonfunctioning drilling rig will only be allowed for one day, onwards that rig must be replaced. 1.5 If at any stage during the development or commissioning of the well, it is observed that the well is not functioning properly as per the
-------------------------------------	--

	technical requirement the contractor at his own cost shall rectify the defect including replacement of any material at his own cost. In case the defects so observed during development/commissioning are not/cannot be rectified and the well has to be abandoned, a new well in near vicinity shall have to be constructed by the Contractor at his own cost. 1.6 Site camp (tent accommodation) consisting of two folding cots, two chairs, one table including lighting arrangement shall be provide to WAPCOS officials during execution of works and for conducting pumping test at each well site. The contractor will arrange to shift from site to site the WAPCOS field staff with his camp, by his own transport. Contractor will provide two vehicles, as inspection vehicle to the WAPCOS till the completion of work along with driver, fuel, POL etc. free of cost. 1.7 The contractor should follow guidelines of honourable Supreme Court of India in order to avoid incident of falling of children in to well. Well to be Fenced properly till protection box is installed.
2. Penalty for non-performance	If the service provider has not corrected a Defect within the time specified in the Procuring Entity's notice, a penalty for Lack of performance will be paid by the service provider. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as per Contract Clauses.
3. Make in India	Successful bidder is to comply with the Public Procurement (Preference of Make in India), Order 2020 dated 16.09.2020 as amended upto date, while executing the contract.

Technical Specifications

CHAPTER -IV

TECHNICAL SPECIFICATIONS AND DRAWINGS

1.0 Dimension of borehole and wells:

- The dia of borehole/ pilot hole for particular type of wells shall be at least 400 mm.
- The dia of U-PVC pipe shall be of 200 mm/ 100 mm (Pipe specification shall be as per IS 12818:2010)

2.0 Well depth:

The depth of wells upto 60-75 mbgl. (Drilling rig shall be deployed having the drilling capacity of upto 120 m, as drilling depth may vary as per the technical requirement of the site-in-charge.

3.0 Drilling of formation:

The average thickness for drilling will be about 61-76 m which shall be drilled with suitable size of bit (Roller/ drag/ button) with suitable casing pipe (dia and thickness as per BOQ) and that shall be installed by the contractor upto the recommended depth during drilling operation.

- The drilling time log will be maintained by the Contractor and given to WAPCOS Site-in-Charge and to be filled on daily basis in Measurement Book (MBs) for each site.

4.0 Pipes for Well Assembly:

The pipes shall be as per IS code 12818:2010 also mentioned in BOQ. The length of pipes (Plain and Screen) will be decided by WAPCOS Site-in-Charge and which shall be as per technical requirement.

5.0 Preparation of Well assembly, Lowering, Gravel Packing & Clay Packing:

- A recommended length of casing pipe should be left above ground level using clamps. A pair of clamps made of 45 cm x 15 cm MS plate of 5 mm thick should be provided and fixed around the casing with proper nuts and bolts which is finally reinforced in the cement concrete. The well should be provided with well cap (as per BOQ).
- Cutting and Jointing of casing pipes (Plain to Plain & Plain to Screen) :

Step	Key Action	Time/Notes
Cutting	Square cut with pipe cutter	Immediate
Deburring/Chamfering	Smooth edges, 10–15° bevel	Immediate
Priming	Apply primer to pipe & socket	Seconds
Cementing	Apply solvent cement, insert with twist	Hold 30 sec
Stripes/ Collar	Apply heavy-duty couplers	Till stabilized

Note: Avoid rushing — incomplete curing is the most common cause of leaks.

- x) The entire well assembly consisting of casing pipe should be lowered at same time by suitable method as per recommended by Engineer-in-Charge.
- xi) Bail plug cap should be kept at the bottom of the assembly and length will be mentioned in the assembly recommendation from WAPCOS.
- xii) The entire well assembly consisting of screen/plain pipe will be lowered at same time by suitable method.
- xiii) **Gravel Packing:** Gravel packing shall be carried through out the recommended depth range as per proper method recommended by Engineer-in-Charge/ Site-in-Charge.

The annular space between well assembly and drilled bore hole will be properly shrouded with suitable pea-gravel size by adoption of reverse fluid circulation method to the depth. If

necessary, the proper packing of gravel may be ensured by running air compressor for about ½ to 1 hour. The quantity of pea-gravel may vary depending on the depth of borehole. In case of thick mud available in borehole, it should be thinned by flowing fresh water after lowering well assembly and before gravel shrouding. The materials for gravel packing in the wells should have the following characteristics:

- i) It should be cleaned properly.
- ii) Use of weathered gravel material should be avoided and not allowed.
- iii) The grains of gravel should be smooth, round to sub-rounded and uniform in size.
- iv) Flat particles should be avoided and not allowed.
- v) It should be hard (hardness), insoluble and particles of shale, anhydrite and gypsum will not be used.
- vi) The size of pea-gravel should be as per Bill of Quantity.
- vii) The well assembly should be washed with clean water immediately after gravel packing to remove excess of drilling mud present.

Note: It should be ensure that the gravel is completely packed in the annular space as per the assembly recommendation.

- xiv) Alignment and verticality of Well:** Well should be vertical and straight. The alignment and verticality of well will be checked by plummet which is suspended through a thin wire from tripod with winch. The verticality test needs to be carried out in presence of site Engineer-in-Charge by the drilling unit. To ensure verticality of tube well the guides may be used with assembly pipe at the time of well assembly lowering.

6.0 Well Development & Pumping test:

The well should be developed by air compressor and over pumping unit to ensure sand free discharge and optimal yield.

a) Development by Air Compressor

During, development by air compressor, the operation shall be carried out as under:

- 1) Development by compressor need to be carried out by using suitable air pressure as per site requirement.
- 2) Suitable size Eduction pipe need to be used as discharge pipe and suitable air line should be used for air supply.
- 3) The development should commence from the top of aquifer tapped and should be carried out towards bottom and the development operation should be repeated again from top to bottom.
- 4) The development with Air compressor for exploratory well as well as observation well should be carried out till the water becomes mud/sand free in Exploratory Wells/ Observation Wells. Any changes during the development recommended by WAPCOS Site-in-Charge should be considered immediately by the Contractor.

b) Development by Over-pumping Unit

Suitable submersible pump of required discharge range with suitable lift-up capacity need to be lowered for development of Exploratory bore holes to ensure sand free discharge. The recommendation for discharge will be shared with contractor after development of well. Alternatively, turbine pump of suitable capacity can also be used for development by Pumping test unit. The Development of well by over pumping will be carried out as per Bill of Quantity till the water becomes clear free from sand/ Silt and clay etc.

b) Pumping Test (APT)

Further for the evaluation of aquifer yield characteristics, well efficiency and aquifer parameters the following test shall be carried out by the Expert (Hydrologist) from contractor side duration as per BOQ.

The APT should be performed with help of digital water meter recorder to measure the water level.

All the equipment including POL & Labour required for carrying out tests but not limited to the following shall be arranged by the Contractor at his own cost:

- i) A suitable pump and prime mover (since power may be not available at the well site).
- ii) Measuring devices for time, discharge and V-Notch orifice method water level recorder (Digital water meter recorder /steel tape engraved).
- iii) 25 mm airline needed to be lowered in the test well as well as observation well up to required depth.
- iv) Pumping water shall have temporary drainage arrangement extending upto 500 m (as required based on site conditions) to avoid the interference of unconfined aquifer study.

Note: The analysis of APT generated data will be carried out through the following methods:

i) Jacob's straight line Method

ii) Theis Recovery Method

7.0 Well Completion:

Cement Concrete Platform:

A cement concrete platform (As mentioned in the figure) will be constructed around the casing at the ground surface. A MS cap (As shown in figure) is to be welded as cap on the top of the Exploratory Wells.

Restoration of Drilling Site: Contractor shall restore site, remove the cutting materials, level the undulations and clear it as it was before.

Installation of Submersible Pump with automatic controller: WAPCOS will provide the pumps with automatic controller as per the yield assessed at each sites to contractor and contractor has to install these pumps for extraction purpose.

8.0 Measurement Book (Computerized):

Measurement books (Hard copy) of each site are to be prepared and submitted by Contractor site officials. This should be done before the corresponding bill is submitted to the Division Office for payment. The contractor shall also submit to the WAPCOS separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its page numbered. Thereafter, this bill will be processed by the Division Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements. The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in- Charge or his representative.

Note:

1. Cutting and Jointing shall be of perfect homogenous joint.
2. Well diagrams to be followed for the construction works.
3. Each site assembly design will be give by WAPCOS after the geophysical logging interpretation of each site.

9.0 Collection and Analysis of Water Samples:

The contractor will collect water samples as per Bill of Quantities for further chemical analysis. The numbers of samples should be as per mentioned in the BOQ for both type of wells. The sample should be collected in the Laboratory approved sample bottles (as mentioned in BOQ).

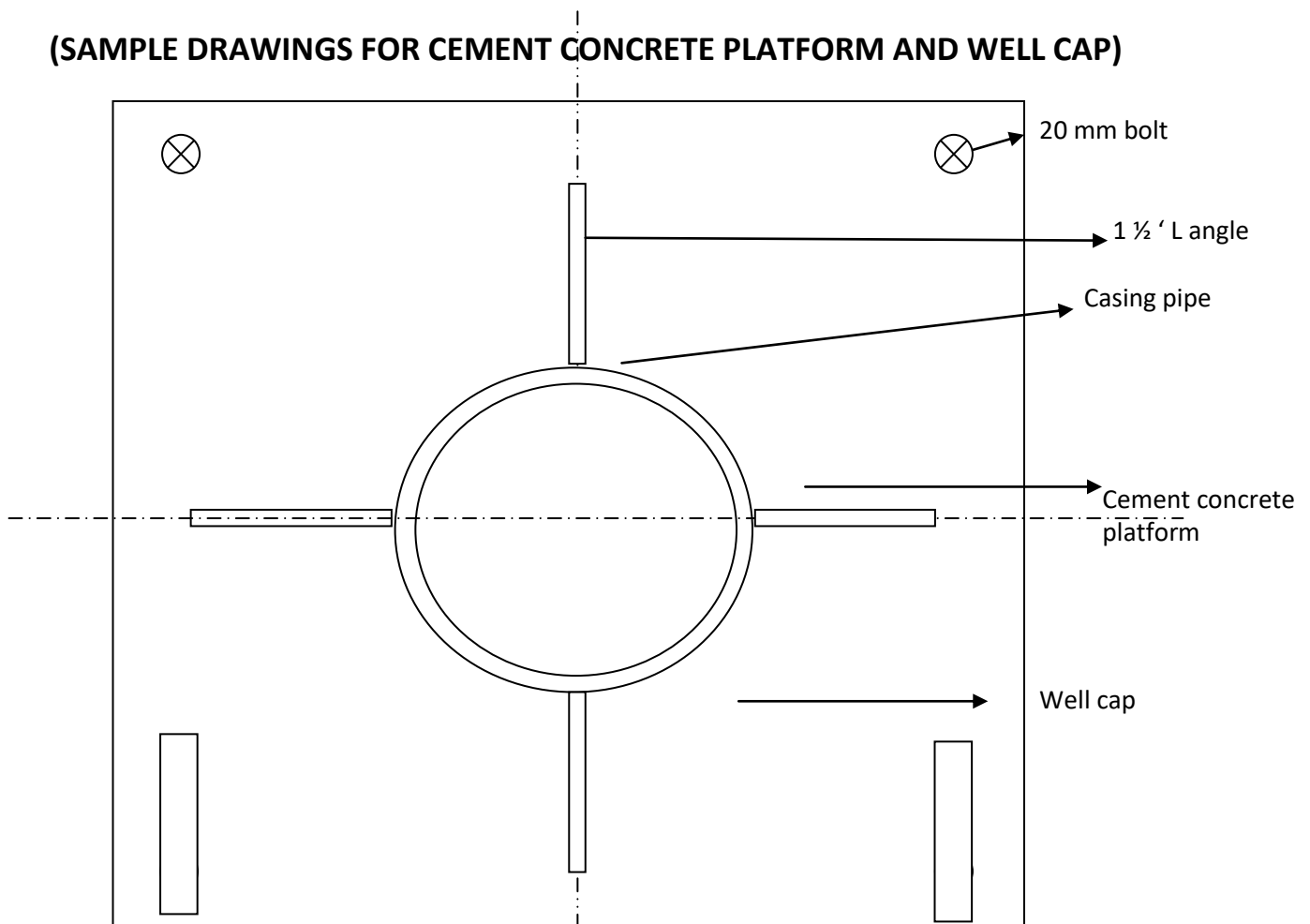
Collected water samples should be gone through NABL approved labs only for Basic, Heavy etc. analysis. The type of analysis is given in Bill of Quantities.

10.0 Basic Data Report: The contractor is required to prepare the basic data report (BDR) for all the wells as per the format provided in the tender. The BDR for each of the well shall also be submitted to WAPCOS in Soft Copies along with Hard Copy.

Site wise and well wise Photographs and Videos of all activities in soft copy should be submitted to WAPCOS Head Office.

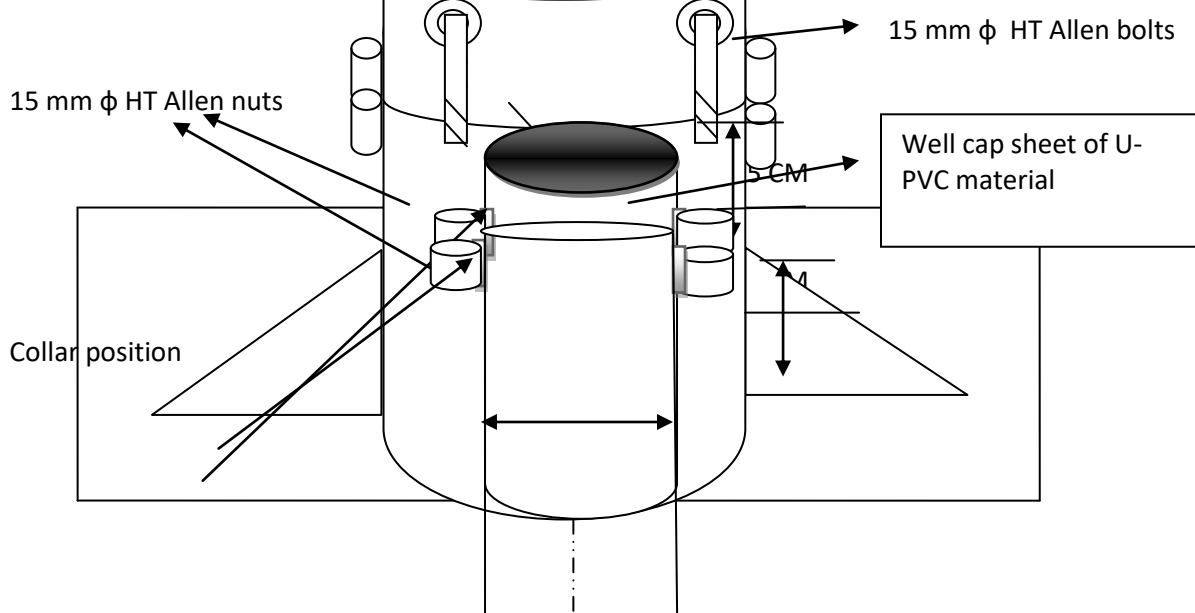
Note: Design and amount of items used may be modified as per the site feasibility and requirement through recommendation from Site-in-charge with approval.

(SAMPLE DRAWINGS FOR CEMENT CONCRETE PLATFORM AND WELL CAP)

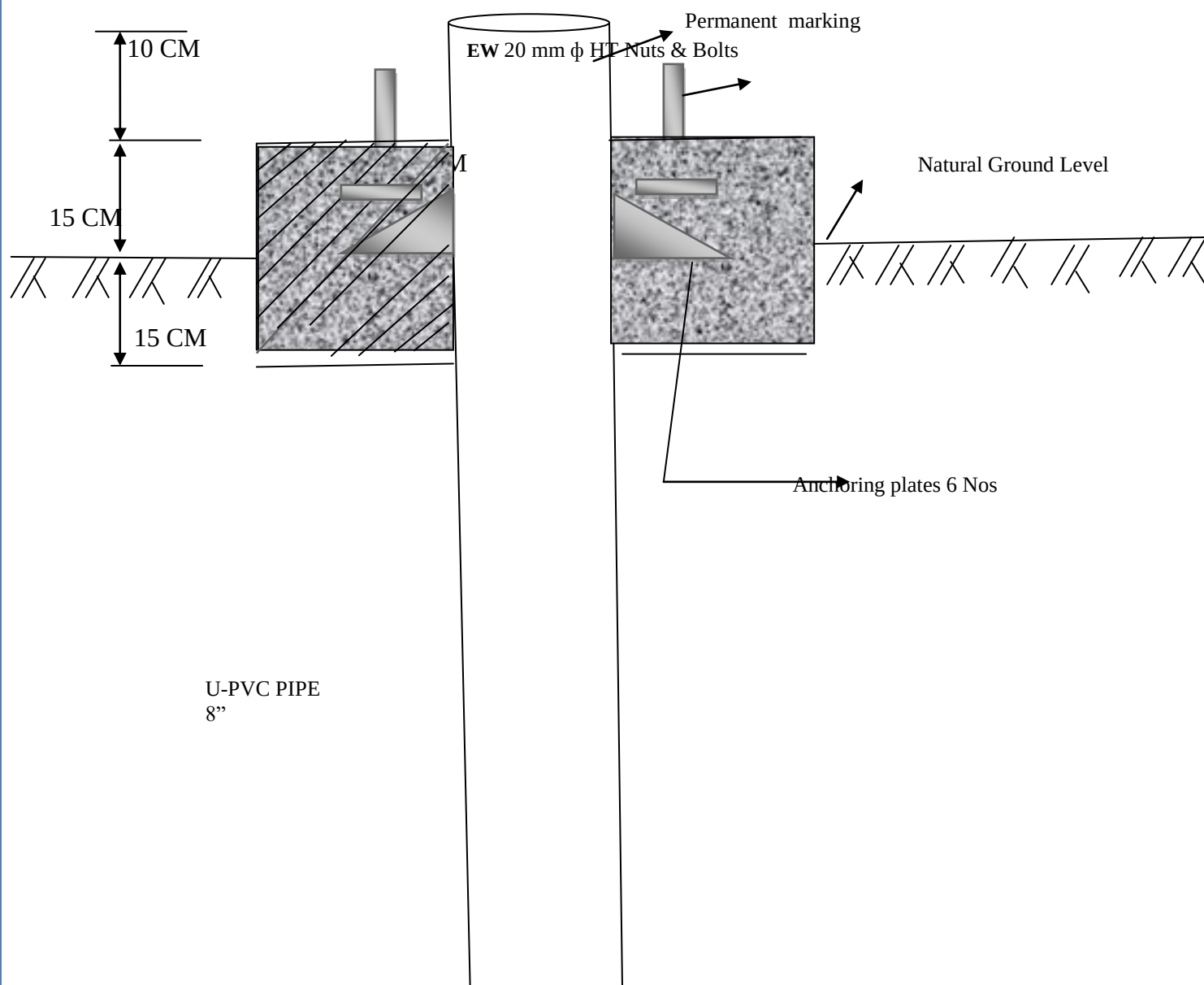


Well cap

Well cap



Cement concrete platform



Platform Details: (As per BOQ)

For Example: A cement/ concrete platform measuring 0.40 x 0.40 x 0.30 m (0.15 m above ground level) and 0.15m below ground level) around the well casing is to be provided over which protection box is to be provided. The concrete mix ratio is 1:2:4

**BASIC DATA REPORT OF EXPLORATORY &
OBSERVATION WELLS, AT VILLAGE _____,
BLOCK DHOLERA DISTRICT AHMEDABAD, GUJARAT**

CONTENTS

S. No.	Description	Page No.
1	Location	
2	Purpose and Scope	
3	Drilling history	
3.1	Exploratory Well	
3.2	Observation Well	
4	Geology	
4.1	Sub Surface Geology	
5	Geophysical Logging of Borehole	
6	Well Assembly	
7	Well Hydraulics	
7.1	Step Drawdown Test	
7.2	Aquifer Performance Test	
7.2.1	Computation of Transmissivity	
7.2.2	Computation of Storativity	
8	Chemical Analysis	

LIST OF TABLES

S. No.	Description	Page No.
1	Litholog of Exploratory Well	
2	Composite Litholog of Exploratory Well	
3	Litholog of Observation Well	
4	Composite Litholog of Observation Well	
5	Geophysical Logging of Exploratory Well	
6	Well assembly design of Exploratory Well	
7	Well assembly design of Observation Well -1	
8	Well assembly design of Observation Well -2	
9	Summarized results of Step Drawdown Test	
10	Computed results of Step Drawdown Test	
11	Summarized results of Aquifer Performance Test	
12	Results of chemical analysis of water sample(S)	

13	Concentration of Heavy Metals and Arsenic	
13	Consolidated statement of result conducted	

LIST OF PLATES

S. No.	Description	Page No.
1	Site Plan	
2a	Lithology and Drill Time log graph of Exploratory Well	
2b	Well Assembly Design of EW/OW	
3	Geophysical Logging	
4	Time vs Drawdown Plot (SDT)	
5	Specific Capacity vs Drawdown Plot (SDT)	
6	Discharge vs Specific Drawdown Plot (SDT)	
7	Stepwise Discharge vs Losses Plot (SDT)	
8	Time vs Drawdown Plot-Exploratory Well (APT)-Jacob's Method	
9	Time vs Drawdown Plot-Observation Well (APT)-Jacob's Method	
10	Residual Drawdown vs t/t' Plot-Exploratory Well (APT)- Theis's Recovery Method	
11	Residual Drawdown vs t/t' Plot-Observation Well (APT)- Theis's Recovery Method	
12	Time vs Drawdown Plot-Observation Well (APT)- Theis's Method	

ANNEXURES

S. No.	Description	Page No.
1	Step Drawdown Test Data	
2	Aquifer Performance Test-(Pumping Data-Exploratory Well)	
3	Aquifer Performance Test-(Pumping Data-Observation Well - 1)	
4	Aquifer Performance Test-(Pumping Data-Observation Well - 2)	
5	Aquifer Performance Test-(Recovery Data-Exploratory Well)	
6	Aquifer Performance Test-(Recovery Data-Observation Well - 1)	
7	Aquifer Performance Test-(Recovery Data-Observation Well - 2)	
8	Drill Time Log	

ACTIVITIES DURING INSTALLATION OF EW/OW WELL

S. No.	Description	Page No.
1-A	Site selection	
2-A	Drilling	
3-A	Drilled Sample/Sample box	
4-A	Logging	
5-A	Assembly Lowering	
6-A	Gravel Packing/Gravel measurement	
7-A	Cement Sealing	
8-A	Clay ball packing	
9-A	Well development	
10-A	Pumping Test (SDT, APT, PYT)	
11-A	Water sample collection	
12-A	Well Discharge with Discharge measurement	
13-A	Well Protection Box and Display Board (EW)	

BASIC DATA REPORT

1. LOCATION (Village)

2. BLOCK : DHOLERA

3. DISTRICT : AHMEDABAD

4. STATE : GUJARAT

5. CO-ORDINATES :

6. WELL TYPE : EXPLORATORY WELL & OBSERVATION WELL

**BASIC DATA REPORT OF EXPLORATORY &
OBSERVATION WELLS, AT VILLAGE _____,
BLOCK DHOLERA DISTRICT AHMEDABAD, GUJARAT**

1. LOCATION

2. PURPOSE AND SCOPE

3. DRILLING HISTORY

3.2 Observation Well

4. GEOLOGY

Geologically, the Ahmedabad urban area forms a part of the Cambay Basin and is located in central part of mainland Gujarat State. The area is almost entirely occupied by the sediments of quaternary era. Only in the southwestern part of the Ahmedabad district basalt flows of the Deccan volcanics of upper cretaceous to Eocene age are exposed. The thickness of multi-layered Quaternary alluvium system in Ahmedabad urban area is around 300 – 400 m, which is underlain by Tertiary sediments. The unconsolidated Quaternary formation consists mainly of alternate layers of sand, silt gravels and intermixed kankars etc granular materials and yellow to gray colored sticky clay.

Ahmedabad urban areas represent two types of landforms, i.e. fluvial and aeolian of Quaternary period. The fluvial landforms consist terrace deposit, abandoned channels, cutoff meanders and swampy lands while aeolian landform consist relict dunes, inter dunes and sandy flats etc, of geological past of Quaternary period. Accordingly, depositional variations due to sea level changes, lateral shifting of river courses, soil formation and aeolian activities etc., were the active environmental agencies responsible for lateral and vertical variation of the lithological characters of Quaternary sediments. The sand horizons are prevalent at different depth levels and form aquifers. Spatial variation in groundwater quality and quantity may be attributed to intermixing / overlapping of various facies, forming aquifer system in the area. River Sabarmati is the principal river of the district.

Ahmedabad is divided in ten talukas, viz. Barvala, Bavla, City-Daskroi, Detroj-Rampura, Dhandhuka, Dholka, Mandal, Ranpur, Sanand and Viramgam. It includes the post-Miocene alluvial deposits at the top underlain by older Miocene formations.

4.1 SUB SURFACE GEOLOGY

Table: 1 Litholog of Exploratory Well ____ m at village _____, Block Dholera, District Ahmedabad, Gujarat.

Index	Formation (Example purpose)	Depth Range (mbgl)		Thickness (m)
		From	To	
Top soil	Greyish in color, sticky clay	GL	3.00	3.00
Clay	Greyish in color, sticky clay	3.00	6.00	3.00
Sandy clay	Greyish in color, very fine grained with clay (20%)	6.00	12.00	6.00
Sand	Greyish in color, very fine grained	12.00	30.00	18.00
Sand	Brownish in color, fine grained	30.00	48.00	18.00
Sand	Greyish black in color, medium grained	48.00	54.00	6.00
Sandy clay	Greyish black in color, medium grained with clay (30%)	54.00	60.00	6.00
Sandy clay	Greyish black in color, medium grained with clay (10%)	60.00	66.00	6.00
Sandy clay	Greyish brown in color, coarse grained with clay (20%)	66.00	72.00	6.00
Sandy clay	Greyish brown in color, coarse grained with clay (40%)	72.00	108.00	36.00

Table: 2 Composite Lithological Log of Exploratory Well ____ m at Village _____, Block Dholera, District Ahmedabad, Gujarat.

Index	Formation	Depth Range (mbgl)		Thickness (m)
		From	To	
Top soil	Brownish in color	GL	22.00	22.00
Sandy clay	Greyish in color, fine grained	22.00	32.00	10.00
Sand	Fine grained sand, greyish in color (Dry)	32.00	35.00	3.00
Clay	Sandy clay , greyish in color	35.00	38.00	3.00
Sand	Fine grained sand, greyish in color (Dry)	38.00	41.00	3.00
Clay	Sandy clay , greyish in color	41.00	45.00	4.00
Sand	Fine grained sand, greyish in color	45.00	48.00	3.00
Clay	Sandy clay , greyish in color	48.00	54.00	6.00
Sand	Fine grained sand, greyish in color	54.00	57.00	3.00
Clay	Sandy clay , greyish in color	57.00	63.00	6.00
Sand	Fine to medium grained sand, greyish in color	63.00	68.00	5.00
Clay	Sandy clay , greyish in color	68.00	90.00	22.00
Sand	Fine to medium grained sand, greyish in color	90.00	93.00	3.00
Clay	Sandy clay , greyish in color	93.00	99.00	6.00
Sand	Fine grained sand, greyish in color	99.00	103.00	4.00

Table: 3 Litholog of Observation Well (1) ____ m at village _____, Block Dholera, District Ahmedabad, Gujarat.

Index	Formation	Depth Range (mbgl)		Thickness (m)
		From	To	
Top soil	Greyish in color, hard, sticky clay	GL	3.00	3.00
Clay	Greyish in color, hard, sticky clay	3.00	6.00	3.00
Sandy clay	Greyish in color, fine grained with clay (20%)	6.00	12.00	6.00
Sand	Greyish in color, fine grained	12.00	18.00	6.00
Sand	Greyish in color, very fine grained	18.00	30.00	12.00
Sand	Brownish in color, fine grained	30.00	36.00	6.00
Sand	Brownish in color, very fine grained	36.00	39.00	3.00
Sand	Brownish in color, fine grained	39.00	45.00	6.00
Sand	Brownish in color, fine grained to medium grained	45.00	54.00	9.00

Sandy clay	Greyish black in color, fine to medium grained with clay (20%)	54.00	63.00	9.00
Sandy clay	Greyish black in color, medium grained with clay (10%)	63.00	75.00	12.00
Sandy clay	Greyish brown in color, coarse grained with clay (20%)	75.00	87.00	12.00
Sandy clay	Greyish brown in color, coarse grained with clay (40%)	87.00	96.00	9.00
Sandy clay	Greyish brown in color, medium to coarse grained with clay 30%	96.00	108.00	12.00

Table: 3 Litholog of Observation Well (2) ___ m at village _____, Block Dholera, District Ahmedabad, Gujarat.

Index	Formation	Depth Range (mbgl)		Thickness (m)
		From	To	
Top soil	Greyish in color, hard, sticky clay	GL	3.00	3.00
Clay	Greyish in color, hard, sticky clay	3.00	6.00	3.00
Sandy clay	Greyish in color, fine grained with clay (20%)	6.00	12.00	6.00
Sand	Greyish in color, fine grained	12.00	18.00	6.00
Sand	Greyish in color, very fine grained	18.00	30.00	12.00
Sand	Brownish in color, fine grained	30.00	36.00	6.00
Sand	Brownish in color, very fine grained	36.00	39.00	3.00
Sand	Brownish in color, fine grained	39.00	45.00	6.00
Sand	Brownish in color, fine grained to medium grained	45.00	54.00	9.00
Sandy clay	Greyish black in color, fine to medium grained with clay (20%)	54.00	63.00	9.00
Sandy clay	Greyish black in color, medium grained with clay (10%)	63.00	75.00	12.00
Sandy clay	Greyish brown in color, coarse grained with clay (20%)	75.00	87.00	12.00
Sandy clay	Greyish brown in color, coarse grained with clay (40%)	87.00	96.00	9.00
Sandy clay	Greyish brown in color, medium to coarse grained with clay 30%	96.00	108.00	12.00

5. GEOPHYSICAL LOGGING OF BOREHOLE

The borehole was Geophysical logged on _____ with _____LOGGER down to depth of _____.00 m bgl. The interpretation of the electric logs with respect to strata water potential and quality of ground water, the granular zones were deciphered and are given in the plate -3 & table-5, below:

Table: 5 Zones Deciphered on The Basis of Geophysical Logging
Exploratory -Well
Field _____r, Block Dholera, District Ahmedabad, Gujarat.

S. No.	Depth range (mbgl)		Thickness (m)	Resistivity Value		Zone	NGAM-Natural Gamma (cps)	Remarks (Quality of Water)
	From	To		LON-64"N	SHN-16" N			
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								

6. WELL ASSEMBLY

Based on interpretations of litho log and electrical log of the borehole, the well assembly of exploratory and observation well ____ m were designed and lowered in the exploratory borehole and observation borehole. The details are given below in table- 6 & 7 plate-2b.

**Table: 6 Well Assembly Design of Exploratory Well (___ m) at Village ___
Block Dholera, District Ahmedabad, Gujarat.**

[illegible]

Total 200 mm Blank Pipe = ____ m

Total 200 mm Screen = _____ m

Total Assembly= _____ m

Slot size = 1.00 mm

Packing with clay balls =

Gravel Packing =

**Table: 7 Well Assembly Design of Observation Well (1) at Village ____
Block Dholera, District Ahmedabad, Gujarat.**

Assembly Description	Depth Range			Thickness (meter)
	From	To	Unit	

Total 100 mm Blank Pipe = ____ m

Total 100 mm Screen = ____ m

Total Assembly= ____ m

Slot size = 1.00 mm

Packing with clay balls =

Gravel Packing =

7. Well Hydraulics

To know the Aquifer parameters and well characteristics, Pumping tests were conducted at the site by using a submersible pump. An Aquifer Performance Test at constant discharge to estimate aquifer parameters.

Aquifer Performance Test

Aquifer Performance Test was conducted on _____ at ____m exploratory well for duration of 120 Hrs to determine the aquifer parameters. The time v/s draw down data and residual draw down data are given in annexure-II, III, IV & V. The results of the test are given below:

Parameter	Observations
Date	: _____
Static Water Level	: _____
Duration of the test	: 7200 minutes
Discharge (Q)	: _____ m ³ /day

Table:-10 Summarized Results of Aquifer Performance Test

Parameter	Exploratory Well {EW}	Observation Well {OW}	Remarks
Drawdown (m)	_____ m	_____ m	-
Sp. Capacity (lpm/m)	_____ lpm / m of d.d.		Q = _____ lpm
Measuring Point	_____ magl	_____ magl	-
SWL	_____ mbmp	_____ mbmp	
Distance from the Exploratory Well	-	-	-
Discharge (lpm) Q	_____ lpm		

Transmissivity (T)			
Storativity {S}			

Computation of Transmissivity

The Transmissivity of the aquifers was computed using Jacob's method. The exploratory bore well of ___ m has been constructed by tapping deeper aquifer, it is assumed thickness of aquifer is single aquifer and the aquifer is homogeneous and isotropic in nature. Thus applying the formula

$$\text{Transmissivity (T)} = 2.303 \cdot Q / 4 \pi \Delta s$$

Where Q is discharge in m³/day

Δs change in drawdown over a log cycle, thus

8. CHEMICAL ANALYSIS

Table: 11 Results of chemical analysis of water sample (s)

Test Type	pH	EC	TH	F ⁻	Cl ⁻	HCO ³⁻	SO ₄ ²⁻	NO ³⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	CO ³⁻	PO ⁴⁻	Si
	@ 25° C	μS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
APT (EW)															
APT (OW)															

EC= Electrical conductivity, TH= Total Hardness, BDL- Below Detection Limit, MDL- Minimum Detection Limit

Table: - 12 Concentrations of Heavy Metals

Test Type	Fe	Mn	Cu	Pb	Cd	Zn	Cr	Co	Ni
-----------	----	----	----	----	----	----	----	----	----

	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
APT(EW)									
APT(OW)									

BDL- Below Detection Limit, MDL- Minimum Detection Limit

Plates and Tables to be enclosed as per the list in Content

ACTIVITIES DURING INSTALLATION OF EW/OW WELL **(for representation purpose only)**

Plate – 1A

Site selection



Drilling



Drilled Samples/Sample box



Logging



Assembly Lowering



Gravel Packing/Gravel measurement



Clay ball packing



Well Development



(1)



(2)



(3)

Plate -10A

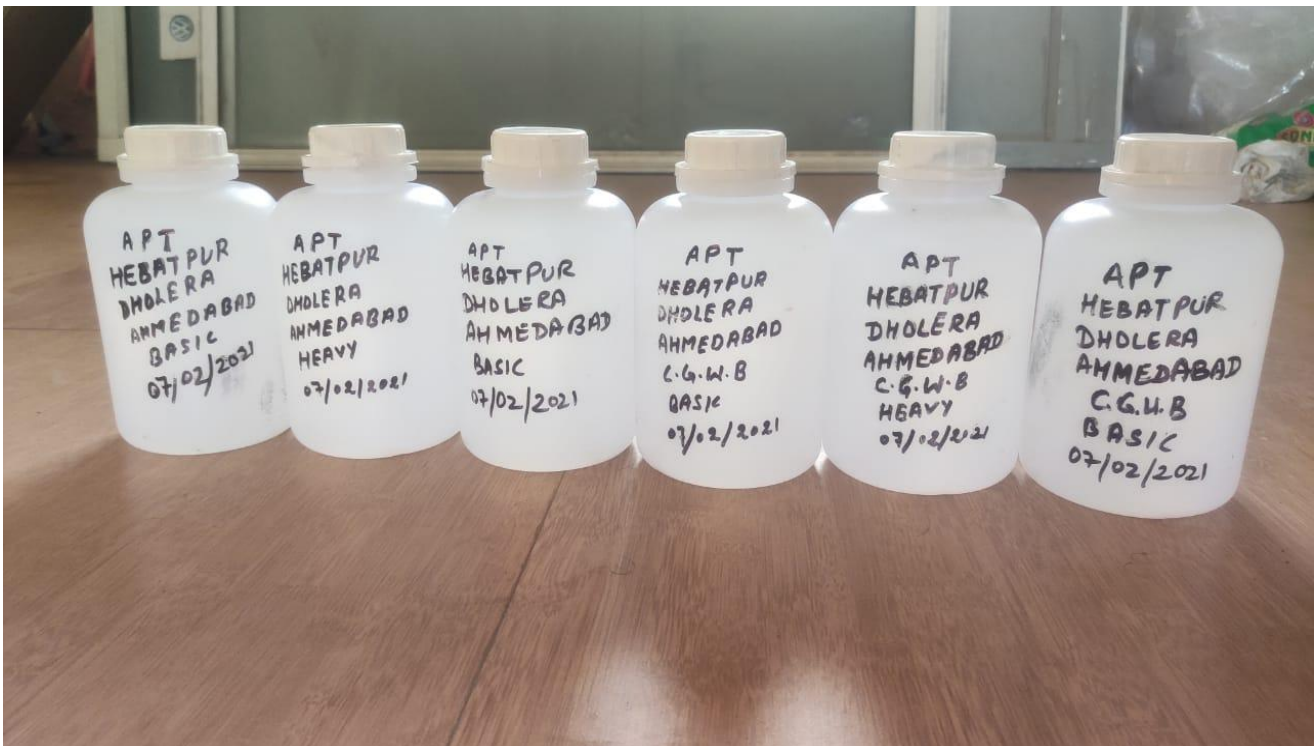
Pumping Test APT)



AQUIFER PERFORMANCE TEST

Plate –11A

Water Sample Collection



AQUIFER PERFORMANCE TEST

Well Discharge with Discharge measurement/nano



Form

FORM "A" FINANCIAL STRENGTH

SUB-FORM 'A1'

FINANCIAL INFORMATION

- I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached)

Years

Years	Gross Annual Turnover	Profit/Loss (After Tax)
2021–2022		
2022–2023		
2023–2024		
2024–2025		
2025–2026		

Financial arrangements for carrying out the proposed work: It is hereby declared that -----
----- **(Name of firm with address)** has sufficient financial resources to execute the DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELLS IN DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT.

Unique Document Identification Number (UDIN):

III. Solvency Certificate from Bankers of the bidder in the prescribed Sub-form "A2"

Signature of Chartered Accountant with Seal

Signature of Bidder(s).

SUB-FORM "A2"

FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s./ Sh.....having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of Rs..... (Rupees.....) for the work of DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELLS IN DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT.

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature)

For the Bank

NOTE (1) Bankers certificates should be on letter head of the Bank, sealed in cover addressed to tendering authority.

(2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

Statement of compliance under the requirements of the Volume I Conditions of Contract, Clause 1.2 of the Instructions for Bidders. (Chapter - I, Volume I – Conditions of Contract)

FORM B

PERSONNEL AND ESTABLISHMENT

SUB- FORM "B1" STRUCTURE & ORGANISATION

1. Name & address of the bidder
2. Telephone no./Telex no./Fax no.
3. Legal status of the bidder (attach copies of original document defining the legal status)
 - (a) An Individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited company or Corporation
4. Particulars of registration with various Government Bodies (attach attested photocopy)

Organisation/Place of registration	Registration No.
1	
2	
3	
5. Names and titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization.
7. Was the bidder ever required to suspend construction for a period of more than six months continuously after he commenced the construction? If so, give the name of the project and reasons of suspension of work.
8. Has the bidder, or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.
9. Has the bidder, or any constituent partner in case of partnership firm, ever been debarred/black listed for tendering in any organization at any time? If so, give details.
10. Has the bidder, or any constituent partner in case of partnership firm, ever been convicted by the court of law? If so, give details.
11. In which field of Civil Engineering construction the bidder has specialization and interest?
12. Any other information considered necessary but not included above.

Signature of Bidder(s)

SUB-FORM "B2"

DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK

S.N o.	Designation	Total numb er	Numbe r availabl e for this work	Nam e	Qualifications	Professional experience and details of work carried out	How these would be involved in this work	Remark s
1	2	3	4	5	6	7	8	9

Signature of Bidder(s)

Statement of compliance under the requirements of the Volume I Conditions of Contract, Clause 1.2 of the Instructions for Bidders. (Chapter - I, Volume I – Conditions of Contract)

Form B3

**(List of the Drilling and Construction Equipment for Construction of wells
Proposed to be deployed)**

S.NO.	Name of Equipment	Name of Manufacturer	Year of Manufacturing	Capacity of the Equipment	Special Skills Required	Ownership of the Equipment	Remarks

Form C

Format for Piezometers/ Exploratory wells/ Deep Tubewell Works Awarded/ Presently under Construction

Description of Work	Place & State	Contract No. & Date	Value of Contract (Rs lakh)	Stipulated period of completion	Value of works* to be completed Rs lakh)	Anticipated date of completion

Annexures

FORM OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

To,
WAPCOS LTD.

(Address of WAPCOS)

WHEREAS, (Name of Bidder) _____ (hereinafter called "the BIDDER") has submitted his bid dated (_____ for the construction of (Name of Contract) _____ (hereinafter called "the Bid").

KNOW ALL MEN by these presents that we (Name of Bank) _____ of (name of Country) _____ having our registered office at _____ (hereinafter called "the Bank") are bound unto the WAPCOS Ltd. in the sum of _____ for which payment well and truly to be made to the WAPCOS Ltd. the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 2026.

THE CONDITIONS of this obligation are:

- i) If the Bidder withdraws his Bid during the period or bid validity specified in the form of Bid; or
- ii) If the Bidder having been notified of the acceptance of his Bid by WAPCOS Ltd. during the period of bid validity.
- a) fails or refuses to execute the proforma of Agreement in accordance with the Instruction to Bidders, if required; or
- b) fails or refuses to furnish the Performance Security , in accordance with the Instructions to Bidder,

We undertake to pay to WAPCOS Ltd. upto the above amount upon receipt of its first written demand, provided that in its demand WAPCOS Ltd. will note that amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force upto and including the date 180 days after the closing date for submission of bids as stated in the Invitation to Bid or as extended by you at any time prior to this date, notice of which extension to the Bank being hereby waived, and any demand in respect thereof should reach the Bank not later than the above date.

SIGNATURE OF THE BANK

SEAL

DATE.....

WITNESS

(Signature , Name and Address).

Form of Bid

To

Subject: Bid for Construction of

(Description of Works)

Sir,

With reference to the Bidding Documents forwarded to us under your letter no. _____ dated _____

1. We the undersigned, having examined the Drawings, Conditions of Contract, specifications and Bill of Quantities for the execution of the above named Works offer to execute and complete the whole of the said Works in conformity with the said Drawing, Conditions of Contract, Specifications and Bill of Quantities given in the Bidding Document for the sum of _____ (Total Bid Price both in figures and words) or such other sum as may be ascertained in accordance with the said Conditions.
2. The Bid Security for the amount of Rs. _____ in the form of _____ is enclosed.
3. We undertake, if our Bid is accepted, to commence the Works within thirty days of receipt of the orders of the Engineer – in – Charge to commence and to complete and deliver the whole of the Works comprised in the Contract within 6.0 months (Time should conform to the timing specified by WAPCOS in the bidding documents) calculated from the last day of the aforesaid period in which the works are to be commenced.
4. If our Bid is accepted, we will furnish a security in the form of the bank guarantee to be jointly and severally bound with us in an amount of 3 percent the above name sum in accordance with the condition of condition of contract.
5. We agree to abide by this Bid for the period of **(120 days)** calendar days from the date of opening of Techno-Commercial Bid and it shall remain binding upon us and may be accepted at any time before the expiration of the period.
6. Unless and until a formal Contract Agreement is executed, this Bid, subsequent correspondences together with the Letter of Award of WAPCOS shall constitute a binding Contract between us and WAPCOS.
7. We understand that WAPCOS is at liberty not to accept the lowest Bid Price. We also understand that WAPCOS is at liberty not to accept any or all Bids and WAPCOS is at liberty to negotiate with Bidder(s) at any stage.

Dated this _____ day of _____ 2026

(Signature and Full Name)

Title _____ (affix seal here)

Firm's address:

Telephone:

Telex:

Cable Address:

Fax:

Witness

(Signature and Full Name)

FORM OF AGREEMENT

Note; This form is included in the Bidding Documents only for the information of Bidders. Only the successful Bidder shall, in due course, be required to fill this form

THIS AGREEMENT MADE the _____ day of _____ 2026 BETWEEN WAPCOS Ltd. _____ of (Mailing address of WAPCOS) _____ (hereinafter called "the WAPCOS") of the one part and (Name of Contractor) _____ of (Mailing address of Contractor) _____ (hereinafter called "the Contractor") of the other part.

WHEREAS the WAPCOS is desirous that certain Works should be executed viz. (Brief description of Works) _____ and has, by a Letter of Acceptance dated _____ accepted a Bid by the Contractor for the execution and completion of such Works.

NOW THIS AGREEMENT WITHNESSETH as follows;

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz;
 - a) This form of Agreement
 - b) The Letter of Acceptance
 - c) The additional Conditions of Contract.
 - d) The General Conditions of Contract.
 - e) The Technical Specifications
 - f) The Drawings
 - g) The Priced Bill of Quantities.
 - h) The said Bid and Appendix, if any.
 - i) The Invitation to bid.
 - j) The Instructions for Bidders
 - k) The Schedules of Supplementary Information, if any.
3. The aforesaid documents shall be taken as complementary and mutually explanatory of one another, but in case of ambiguities or discrepancies, shall take precedence in the order set out above.
4. In consideration of the payment to be made by WAPCOS Ltd. to the Contractor as hereinafter mentioned, the Contractor hereby covenants with WAPCOS Ltd to execute and complete the Works in conformity, in all respects, with the provisions of the Contract.
5. WAPCOS Ltd. hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works the Contract Price at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused their respective common Seals to be hereunto affixed (or have hereunto set their respective hands and Seals) the _____ and year first above written.

SIGNED, SEALED AND DELIVERED

By the said

NAME _____

On behalf of the Contractor

In the presence of;

NAME _____

Address _____

By the said

NAME _____

On behalf of the WAPCOS

in the presence of;

NAME _____

Address _____

FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY

WAPCOS Limited,
76-C, Sector 18,
Gurgaon-122015.

In consideration of _____ (Employer's name) (hereinafter referred to as "the Employer") which expression shall, unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to _____ (Contractor's name & address) (hereinafter referred to as "the Contractor " which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) a contract, by issue of Employer's Notification of Award No. _____ dt. _____ and the same having been unequivocally accepted by the Contractor, resulting into a contract valued at Rs. _____ (Rupees _____ only) for _____ (name of work) (hereinafter called " the contract") and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire contract equivalent to Rs. _____ (Rupees _____ only) (10 % for Drilling Works & 10 % for Goods) of the said value of the Contract to the Employer.

We, _____ (name & address of bank) (hereinafter referred to as "the Bank" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Employer, on demand any or, all monies payable by the Contractor to the extent of Rs. _____ (Rupees _____ only) as aforesaid at any time upto _____ without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the Employer on the bank shall be conclusive and binding notwithstanding any difference between the Employer and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Employer and further agrees that the guarantee herein contained shall continue to be enforceable till the Employer discharges this guarantee.

We the said Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the Employer certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee.

The Employer shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from, time to time to extend the time for performance of the Contract by the Contractor. The Employer shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Employer and the Contractor or any other course or remedy or security available to the Employer. The bank shall not be released of its obligations under these presents by any exercise by the Employer of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the Employer or any other indulgence shown by the Employer or by any other matter or thing whatsoever which under law would but for this provision, have the effect of relieving the Bank. The guarantee shall not be affected by a change in the constitution of the bank or of the employer.

The bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

We The Said Bank do hereby declare that we have absolute and unconditional power to issue this guarantee in your favour under the Memorandum and Articles of Association or such other constitutional documents of the Bank and the undersigned have full power to execute this guarantee

under the Power of Attorney/ Post Approval Authorization dated _____ of the bank granted to him / us by the Bank. We the said bank do hereby declare and undertake that your claim under the guarantee shall not be affected by any deficiency or other defect in the powers of the bank or its officials and the guarantee shall be deemed to have been issued as if the bank and its officials have all the powers and authorization to give this guarantee on behalf of the bank.

We the said bank do hereby certify the genuineness and appropriateness of the Stamp paper and stamp value used for issuing the guarantee. We the said bank do hereby declare and undertake that your claim under the guarantee shall not be affected by any deficiency or other defect in the stamp paper or its stamp value.

We the said bank do hereby declare that our payments hereunder shall be made to you , free and clear of and without and deduction, reduction on account of any reasons including any and all present and future taxes, levies, charges of withholding whatsoever imposed or collected with respect thereto.

Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to Rs. _____ (Rupees _____ only) and it shall remain in force upto and including _____ and shall be extended from time to time for such period as may be desired by M/S WAPCOS Limited on whose behalf this bank guarantee has been given.

Notwithstanding anything contained herein

- i) our liability under this guarantee shall not exceed Rs. _____ (Rupees _____ only);
- ii) This bank guarantee shall be valid upto and till _____ only, being the date of expiry of the guarantee and
- iii) We are liable to pay up to the guaranteed amount only and only if we receive from you a written claim or demand within the claim period not later than 12 months from the said expiry date relating to default that happened during the guarantee period and all your rights under this bank guarantee shall be extinguished and our liability under the bank guarantee shall stand discharged unless such written claim or demand is received by us from you on or before being the date of expiry of the guarantee

Dated this _____ day of _____ at New Delhi.

Tender Form

To
(GWRDM)
WAPCOS (I) Ltd.
76-C, Sector – 18,
Institutional Area
Gurgaon, Haryana – 122015

Dear Sir,

- 1) I/ We have read and examined the following tender documents relating to the work of **“DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELL IN DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER QUALITY ASSESSMENT”**.
 - a) Notice inviting tender
 - b) Brief description of the work
 - c) Instructions for tenders
 - d) General conditions of contract
 - e) Additional conditions of Contract
 - f) Annexures
 - g) Formats
- 2) I / We hereby tender for the entire consulting services for the works referred to in the documents mentioned in contract documents upon the terms and conditions contained or referred to in the aforesaid documents.
- 3) I/ We agree to keep this tender open for acceptance for 120 days from the date of opening thereof and also agree not to make any modification in the terms and conditions on our own accord.
- 4) As sum of _____ **(in words)** is hereby forwarded as demand draft/ bank guarantee from schedule bank in favour of WAPCOS Ltd. Payable at New Delhi, as earnest money. I/ We agree that if I / We fail to keep the validity of tender open as aforesaid, or make any modification in the terms and conditions of my / our tender on our accord and / or after the acceptance of our tender if I / We fail to commence the execution of the works as provided in the documents referred to in paragraph 1 above. I / We shall become liable for forfeiture of my / our earnest money as aforesaid, and the corporation project shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.
Should this tender be accepted. I / We agree to abide by and fulfill all the terms and conditions and provisions of the above mentioned tender documents.

Thanking you,

Yours faithfully,
(Bidder)

Undertaking for not Corrupt/Fraudulent Practices

(On Firm's Letter Head)

Certified that I/We (Name) _____ are not under a declaration of
ineligibility for corrupt and fraudulent practices issued by the Government of India or by any State
Government of India/any multilateral institutions or any project authorities till date.

Date:

(Signature of the Bidder)

LITIGATION HISTORY

Name of Applicant

Applicants, should provide information on any history of litigation or arbitration resulting from contracts executed in the last five (5) years or currently under execution.

Year	Name of Client, cause of litigation, and matter in dispute	Disputed amount

INTEGRITY PACT

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract
on behalf of WAPCOS Limited

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this day of 20.....

BETWEEN

_____ represented through, _____, (Name of Division),
_____, (Hereinafter referred as the (Address of Division)
'Purchaser/Owner', which expression shall unless repugnant to the meaning or context hereof
include its successors and permitted assigns)

AND

_____ (Name and Address of the
Individual/firm/Company) through _____ (Hereinafter referred
to as the

(Details of duly authorized signatory)

"Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof
include its successors and permitted assigns)

Preamble

WHEREAS the Purchaser/Owner has floated the Tender (NIT No.) (hereinafter
referred to as "Tender/Bid") and intends to award, under laid down organizational procedure,
contract for **DRILLING AND CONSTRUCTION OF EXPLORATORY WELLS & OBSERVATION WELLS IN
DHOLERA BLOCK OF AHMEDABAD, GUJARAT FOR AQUIFER TESTING AND WATER QUALITY
ASSESSMENT.**

hereinafter referred to as the "Contract".

AND WHEREAS the Purchaser/Owner values full compliance with all relevant laws of the land, rules,
regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s)
and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this
Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions
of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract
between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this

Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Purchaser/Owner

- 1) The Purchaser/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Purchaser/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Purchaser/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Purchaser/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - (c) The Purchaser/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Purchaser/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is

in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Purchaser/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Purchaser/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Purchaser/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury

may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Purchaser/Owner under law or the Contract or its established policies and laid down procedures, the Purchaser/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Purchaser/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Purchaser/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Purchaser/Owner. **Such exclusion may be forever or for a limited period as decided by the Purchaser/Owner.**
- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Purchaser/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Purchaser/Owner apart from exercising any legal rights that may have accrued to the Purchaser/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
- 3) **Criminal Liability:** If the Purchaser/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Purchaser/Owner has substantive suspicion in this regard, the Purchaser/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Purchaser/Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Purchaser/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub- contractors/sub-vendors.
- 2) The Purchaser/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

- 3) The Purchaser/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Purchaser/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** of the Purchaser/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 4) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Purchaser in accordance with this **Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.**

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Purchaser/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(signature, name and address)
2.
(signature, name and address)

Place:

Dated:

Annexure -IX

CHECKLIST		
(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)		
This Checklist should be the first document of your bid numbered as page 1.		
Tender Clause No.	The Bidding Documents	Reference Page No(s)
1.2 Eligibility criteria	1.2.2 Bidder should have registered for GST (Goods & Service Tax) and provide GSTIN certificate for the State where work is to be executed and PAN Card. If not registered till date of submission of bid, bidder will give an undertaking on bidder letter head stating that they will get registered in GST as per Govt. norms before submitting of 1st bill of executed works. 1.2.3 The Bidder should be approved and eligible registered contractors of C.P.W.D(B&R/ Civil/ Drilling)/ State P.W.D (Buildings and Roads wing)/ Railways /M.E.S or any other Government Department/ Organisation and tendering limit of bidder should be more than the estimated cost of bid for execution of Drilling works. Copy of Certificate of Incorporation/ Registration/ Partnership Deed Registration or any other relevant document, as applicable, should be submitted along with a copy of address proof. The bidder will submit Name, address, details of the organization, Name(s) of the Owner/partners/promoters and Directors of the firm/company as prescribed in Form-B1. Note: The bidder should have EPF registration. 1.2.4 The work completion certificate should mention the details of work executed and the date of completion of the work in the last seven year and in hand should be certified by an officer not below the rank of First-class officers or equivalent. The work completion certificate should be as per standard format (On Office Letter Head). The work experience certificate should carry official working e-mail ID and postal address of the issuing authority. (The submitted completion certificates will be verified from issuing authorities from WAPCOS side before it's consideration in EQR) 1.2.5 The bidder must have experience of successfully completed similar works during last 07 years ending previous day of last date of submission of Tenders: c. Three (03) similar completed works each costing not less than the amount equal to 40% of the estimated cost put to tender. Or d. Two (02) similar completed works each costing not less than the amount equal to 50% of the estimated cost put to tender. Or One (01) similar completed work costing not less than the amount equal to 80% of the estimated cost put to tender Definition of Similar Nature of Work: Works related to Drilling & Construction of Wells for Groundwater Development.	

	The value of the work done declared is to be without GST/Taxes. For the works, where the Taxes or GST is not clearly defined, the value of works shall be considered as including GST and GST @12% shall be deducted for the works completed up to 31.12.2021 and GST @18% shall be deducted for the works completed after 01.01.2022 to establish the value of work done. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 07% per annum; calculated from the date of completion to previous day of last date of submission of tenders. The past experience in similar nature of work should be supported by certificates issued by the Client's Department/Organization. In case, the works/certificates are not verified by the issuing authority, WAPCOS reserves the right to not consider for the award of works. Verification should be done from the official email id of issuing Authorities. The bidder will provide official e-mail, Landline number of the Issuing Authorities in prescribed Form-C(c) with undertaking. Bidder will ensure the email ids and landline are in working condition. If certificates are not verified by the issuing authority, then it may not be considered for technical evaluation. 1.2.7 The average annual financial turnover of the bidder from Drilling construction works during the immediate last consecutive three years shall not be less than 50% of the estimated cost ending 31st March 2026. Year in which no turnover is shown would also be considered for working out the average. The turnover, profit, net worth (positive during the last financial year 2025-26) certificates for last five financial years (2021-22 to 2025-26) are to be submitted and must be certified by the Chartered Accountant doing Statutory Audit. Any such certificate must carry the UDIN (Unique Document Identification Number). 1.2.8 The bidder should not have incurred any loss (profit after tax should be positive) in more than two year during available last five consecutive Balance Sheets, duly certified and audited by the chartered accountant. Bidder shall attach balance sheet and profit & loss statement in support of Form-A1 Note: This certificates will be verified through ICAI Portal using UDIN number mentioned in Form-A1 1.2.10 Note: There is no need to upload entire voluminous balance sheet. However, summarized balance sheet (audited) and summarized profit & loss account (audited) for last 05 years shall be uploaded. 1.2.11 The bidder should not be insolvent, in receivership, bankrupt or being wound up, not have had their business activities suspended. Accordingly, Bidder shall submit Bank Solvency Certificate issued from a Nationalized/Scheduled Commercial Bank approved by Reserve Bank of India (RBI) for a sum of at least 40% of the estimated cost of the work. The Certificate should be issued between the publishing of NIT & last date of submission of Bids, including extensions if any and shall be addressed to WAPCOS Limited, 76-C, Institutional Area, Sector-18, Gurugram, Haryana specific to this Bid submission only and mentioning the name of the work/project. The certificate shall be submitted in original and the colour/b&w copy/scanned copy shall not be accepted. The certificate should carry name, designation of the bank official, who has the authority	
--	--	--

to issue Solvency Certificate.

In case of MSME bidders, a Banker's Certificate indicating general worthiness or Credit Line/ Sanction Letter from Scheduled/ Nationalized Bank as applicable may be provided.

Verification should be done from the official email id of issuing Authorities. The bidder will provide official e-mail, Landline number of the Issuing Authorities in prescribed Form with undertaking. Bidder will ensure the email ids and landline are in working condition. If Certificate is not verified by the issuing authority, then it may not be considered for technical evaluation.

- 1.2.12 The bidder shall have sufficient construction equipment's, field testing equipment/machinery and skilled manpower to carry out the works and shall submit details along with documentary proof of such machinery and manpower, which bidder proposes to deploy.

Table-II

Equipments/ Machineries (own)	Minimum Required Nos.	Manpower (Regular)	Minimum Required Nos.
Drilling Rigs	2	Geologist (Post Graduate - minimum 05 years of experience)	1
Air Compressor	1	Site Supervisor (Drilling-in-Charge- minimum 10 years of experience)	2
Geophysical Logger	1	Pumping Unit	2

Minimum Manpower and Machinery as stated above should be arranged by the bidder and in addition to above, the bidder shall, as and when required, deploy additional manpower, machinery, equipment, and other resources at the site to meet the project requirements and ensure completion of the work within the stipulated contract period. The bidder will submit "undertaking for manpower and machineries/equipments deployment" as prescribed in **Form-E**.

If bidder failed to deploy manpower and machineries/equipments within mobilisation period as mentioned in the tender documents, WAPCOS is free to terminate the contract at any time & forfeit the Bank Guarantee and blacklist the bidder.

- 1.2.11 The blacklisting policy of the company is available on official website of WAPCOS Limited. The bidder/tenderer/consultant/contractors have to mandatorily furnish an undertaking addressing the same to Engineer-in-Charge in the form of certificate to abide the contents of blacklisting policy. The format of undertaking is provided at **Form-H**. Any action in violation of the blacklisting policy or to the certificate furnished shall result in cancellation of tender at the stage before or after the award of work.

	1.2.12 Bid Capacity as prescribed in Form-D. The bidder should possess the bidding capacity as calculated by the specified formula. The formula generally used is: Available bid capacity = $A \times 1.5 \times N - B$, where A=Maximum value of Drilling (similar nature of work as defined and relevant to work being procured) works executed in any one year during the last five years (updated at the current price level), taking into account the completed as well as works in progress. N=Number of years prescribed for completion of the work in question. B=Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years 1.2.11 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder: i. directly or indirectly controls, is controlled by or is under common control with another Bidder; or ii. receives or has received any direct or indirect subsidy from any other Bidder;or iii. has the same legal representative as another Bidder; or iv. has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process	
--	---	--

Signature of Bidder

Note:

The bidders should put serial numbers on all the pages and attest all pages as per checklist before uploading on the portal.

Bidders will be responsible if their bid becomes non responsive due to submission without page numbers as per checklist.