



## **NOTICE INVITING TENDER**

### **For Specialised Works**

**PQ done separately**

### **(E – TENDERING MODE)**

Item rate tenders are invited on behalf of Delhi Development Authority from following already qualified specialized firms / agencies / manufacturers / system integrators for the following work :-

- 1 M/s.Anil & Bros.Enterprises.
- 2 M/s.S.M. Associates.
- 3 M/s.Rajdhani Borewell.
4. M/s. A.S.Engineering works.

|              |   |   |
|--------------|---|---|
| Name of Work | : | D/o DDA land at green surrendered by Seil India Ltd.and Swatantra Bharat Mill as per order of Supreme Court of India.   |
| SH           | : | Reboring & redevelopment of 2 Nos. abandoned bore holes i/c providing and Laying of Pipes etc. for augmentation of water for Hort. Purpose at green area of SEIL India Ltd. |

- 1 The work is estimated to cost **Rs.3,31,936/-**. This estimate, however, is given merely as rough guide.
- 2 Agreement shall be drawn with successful tenderer on prescribed form attached. Tenderer shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

- 3 The time allowed for carrying out the work will be **one Month** from the date of start as defined in Schedule F or from the first date of handing over the site, Which ever is later, in accordance with the phasing, if any, indicated in the tender documents.
- 4 The site for the work is available or as specified in the additional conditions attached.
- 5 The tender document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except standard general conditions of contract form can be seen from website [www.tenderwizard.com/DDA](http://www.tenderwizard.com/DDA) or [www.dda.org.in](http://www.dda.org.in).
- 6 Earnest money and cost of tender shall be deposited through RTGS/NEFT in the account of **Sr. A.O. CAU (Dwarka) DDA having account no. 1290300366 with Central Bank of India, Manglapuri, New Delhi branch (IFSC code CBIN0283498)**. The unique transaction reference of RTGS/NEFT shall have to be uploaded by the tenderer in the e-tendering system by the prescribed date. The Executive Engineer concerned will get tender cost/earnest money verified from CAU based on the unique transaction reference number against from each RTGS/NEFT payment before the tenders are opened.

A Part of earnest money is acceptable in the form of bank guarantee also. Earnest Money up to Rs. 20.00 lacs will have to be deposited through RTGS/NEFT mode. If the amount of E.M. is more than Rs. 20.00 lacs then the amount of E.M. beyond Rs. 20.00 lacs can be deposited in the form of Bank Guarantee also. Such Bank guarantee is to be scanned and uploaded to the e-tendering website within the period of tender submission.

- Earnest money and cost of tender have to be deposited through separate transactions.

- (i) Cost of Tender Document: **Rs.500.00 + DVAT @ 5%** (to be deposited through RTGS/NEFT in the account of the Sr. A.O.(CAU) Dwarka.
- (ii) E-Tendering Processing Fee: **Rs.562.00** (to be deposited through E-Mode of ITI Limited in favour of M/s ITI Limited payable at Delhi).

The unique transaction reference of RTGS/NEFT against EMD, Cost of Tender Document and Bank Guarantee shall be placed in single sealed envelope superscripted as “Earnest Money, Cost of Tender Documents” with name of work and due date of opening of the bid mentioned thereon and will submit to tender opening Authority by.....(Date).

- 7 Online tender documents submitted by intending bidders shall be opened only of those bidders, whose Earnest Money Deposit, Cost of Tender Document and e-Tender Processing Fee placed in the envelope ( **as mentioned at serial no 6 above**) are found in order.

The bid submitted shall be opened at 03:30 pm on 30.03.2013

- 8 The contractor, whose tender is accepted, will be required to furnish performance guarantee of 5 % (Five percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs. 1, 00,000) or Government securities or fixed Deposit Receipts or Guarantee Bonds of any Scheduled bank or the State Bank of India in accordance with the prescribed form.
- 9 Intending Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity, access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract document. Submission of a tender by tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant etc will be issued to him by the government and local conditions and other factors having a bearing on the execution of the work.
- 10 The competent authority on behalf of DDA does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received

without assigning any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected

- 11 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
- 12 The competent authority on behalf of DDA reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- 13 The contractor shall not be permitted to tender for works in the DDA Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives of any Gazetted officer in DDA or in the Ministry of Urban development. Any breach of this condition by the contractor would render him liable to be removed from approved list of contractors of this department.
- 14 No Engineer of gazetted rank or other Gazetted officer employed in engineering or Administrative duties in an Engineering department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from the Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found anytime to be such a person who had not obtained the permission of the DDA as aforesaid before submission of the tender or engagement in the contractor's service.
- 15 The tender for the work shall remain open for acceptance for a period of ninety (90) days from the date of opening of tender/ninety days from the date of opening of financial bid(strike out as the case may be). If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of tender which are not acceptable to the department, then the DDA shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of

the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re tendering process of the work.

- 16 This 'Notice Inviting Tender' shall form part of the contract document. The successful tenderer/contractor on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of :-
  - a) The Notice inviting tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
  - b) Standard NIT Form 8 or other Standard DDA Form as mentioned.
- 17 In case any discrepancy is noticed between the document as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall be come invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.

## **ITEM RATE TENDER AND CONTRACT FORM**

**(for specialized works)**

**PQ done separately**

|              |   |   |
|--------------|---|---|
| Name of Work | : | D/o DDA land at green surrendered by Seil India Ltd.and Swatantra Bharat Mill as per order of Supreme Court of India.   |
| SH           | : | Reboring & redevelopment of 2 Nos. abandoned bore holes i/c providing and Laying of Pipes etc. for augmentation of water for Hort. Purpose at green area of SEIL India Ltd. |

- i) To be submitted through E-Tendering up to 3.00 pm on **AS PER ANNEXURE-II** to **Executive Engineer (E), Electrical Division No. .**
- ii) To be opened through E-Tendering at 3.30 pm on **AS PER ANNEXURE-II** by the **Executive Engineer (E), Electrical Division No..**

### **T E N D E R**

I/ We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, special condition, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the DDA within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the clauses of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for ninety (90) days from the due date of its opening / Ninety days from the date of opening of financial bid (strike out as the case may be) and not to make any modifications in its terms & conditions.

A sum of **Rs. 6,639/-** deposited in the account of Sr. A.O (CAU) is hereby forwarded in form of UTR of RTGS / NEFT /Bank Guarantee beyond 20 Lacs issued by a scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee

within prescribed period, I/We agree that the said DDA or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence work as specified, I/we agree that DDA or its successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re tendering process of the work.

I/we undertake and confirm that eligible similar work(s) has/have not got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of the Department, then I/we shall be debarred for tendering in DDA in future for ever. Also, if such a violation comes to the notice of the Department before the date of start of work the Engineer-in-charge shall be free to forfeit the entire amount of earnest money deposit /performance guarantee.”

I/we hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/ confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Signature of witness

Name:

Address:

Signature of contactor

Name:

Address:

Occupation:

## A C C E P T A N C E

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the DDA for a sum of Rs. \_\_\_\_\_\*\_\_\_\_\_ (Rupees \_\_\_\_\_\*\_\_\_\_\_ )

The letters referred to below shall form part of this contract Agreement:

- i)
- ii)
- iii)

For & on behalf of Delhi Development Authority

Signature \_\_\_\_\_

Designation: Executive Engineer

Division\_\_\_\_\_\*



## Annexure-II

### **For Specialized Works**

**PQ done separately**

#### **INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE**

**(Applicable for inviting tenders on two bid system)**

The Executive Engineer (E), Electrical Division No. 12. on behalf of Delhi Development Authority invites online tenders from following already qualified specialized firms / agencies / manufacturers / system integrators for the following work :-

- 3 M/s.Anil & Bros.Enterprises.
- 4 M/s.S.M. Associates.
- 3 M/s.Rajdhani Borewell.
4. M/s. A.S.Engineering works.

|    |  |   |  |
|----|--|---|--|
| 1  | NIT No.  | : | 140 /EE/ED-12/DDA/2012-13  |
| 2  | Name of Work   | : | D/o DDA land at green surrendered by Seil India Ltd.and Swatantra Bharat Mill as per order of Supreme Court of India.<br>SH:-Reboring & redevelopment of 2 Nos. abandoned bore holes i/c providing and Laying of Pipes etc. for augmentation of water for Hort. Purpose at green area of SEIL India Ltd. |
| 3  | Estimated Cost put to tender   | : | Rs.3,31,936/-  |
| 4  | Earnest Money  | : | Rs.6,639/-   |
| 5  | Period of Completion   | : | 1 month  |
| 6  | Date of Commencement of e-tender   | : | 13.03.2013   |
| 7  | Late date & time of requisition of application of e-tender   | : | 22.03.2013 3.00 PM   |
| 8  | Last date of submission of cost of tender, EMD & e-tender processing fee                           | : | 22.03.2013 3.00 PM   |
| 9  | Date of Pre-Bid  |   | 19.03.2013 12.00 noon  |
| 10 | Last date of scanning & uploading UTR of RTGS / NEFT against cost of tender, EMD & other documents |   | 22.03.2013 3.00 PM   |

|    |   |   |                    |
|----|---|---|--------------------|
| 11 | Last date & time for submission of technical bid  |   | 22.03.2013 3.00 PM |
| 12 | Last date & time for submission of certified hard copies of documents mentioned to Executive Engineer | : | 23.03.2013 3.00 PM |
| 13 | Time & date of Opening of technical bid   | : | 28.03.2013 3.00 PM |
| 14 | Time & date of opening of Financial bid   |   | 30.03.2013 3.30 PM |

1. The tender document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen from website [www.tenderwizard.com/DDA](http://www.tenderwizard.com/DDA) or [www.dda.org.in](http://www.dda.org.in) free of cost.
  2. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website. The intending bidder must have valid class-II digital signature to submit the bid.
  3. Earnest money and cost of tender shall be deposited through RTGS/NEFT in the account of Sr. A.O. CAU (Dwarka) DDA having account no. **1290300366** with **Central Bank Of India, Manglapuri, New Delhi** branch (IFSC code **CBIN0283498**). The unique transaction reference of RTGS/NEFT shall have to be uploaded by the tenderer in the e-tendering system by the prescribed date. The Executive Engineer concerned will get tender cost/earnest money verified from CAU based on the unique transaction reference number against from each RTGS/NEFT payment before the tenders are opened.  
A Part of earnest money is acceptance in the form of bank guarantee also. Earnest Money up to Rs. 20.00 lacs will have to be deposited through RTGS/NEFT mode. If the amount of E.M. is more than Rs. 20.00 lacs then the amount of E.M. beyond Rs. 20.00 lacs can be deposited in the form of Bank Guarantee also. Such Bank guarantee is to be scanned and uploaded to the e-tendering website within the period of tender submission.
- Earnest money and cost of tender have to be deposited through separate transactions.
    - i) i) Cost of Tender Document: **Rs.500.00 + DVAT @ 5%** (to be deposited through RTGS/NEFT in the account of the Sr. A.O. (CAU) of Dwarka.
    - ii) E-Tendering Processing Fee: **Rs. 562/-** (to be deposited through E-Mode of ITI Limited in favour of M/s ITI Limited payable at Delhi).

The unique transaction reference of RTGS/NEFT against EMD, Cost of Tender Document and Bank Guarantee shall be placed in single sealed envelope superscripted as “Earnest Money, Cost of Tender Documents” with name of work and due date of opening of the bid mentioned thereon and will submit to tender opening Authority by.....(Date).

4. Online tender documents submitted by intending bidders shall be opened only of those bidders, whose proof of submission of Earnest Money Deposit, Cost of Tender Document and e-Tender Processing Fee enclosed in the envelope of **Earnest Money, Cost of Tender Document and Cost of Tender Processing Fee** has been submitted to EE and are found in order.
5. The Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.
6. Pre Bid conference shall be held in the chamber of \_EE/ELD12 on 19.03.2013 AT 12.00 non\_ to clear the doubt of intending tenderers, if any.
7. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many tenders are received satisfying the laid down criterion.
8. **List of Documents to be scanned and uploaded within the period of tender submission:**
  - i) Certificate of Registration for Sales Tax / VAT and Service Tax and acknowledgement of up to date filed return.



## DELHI DEVELOPMENT AUTHORITY

### SCHEDULE OF QUANTITIES

Estt. Cost. Rs.3,31,936.00

**Name of work: D/o DDA land at green surrendered by Seil India Ltd. and Swatantra Bharat Mill as per order of Supreme Court of India.**

**SH :- Reboring & redevelopment of 2 Nos. abandoned bore holes i/c providing and Laying of Pipes etc. for augmentation of water for Hort. Purpose at green area of SEIL India Ltd.**

| S. No. | Description of Item  | Qty    | Unit | Rate | Rate in words | Amount |
|--------|--|--------|------|------|---------------|--------|
| 1      | Making of Tubewell / Borewell in all kinds of soil i/c hard kankar / moorum of soil formation upto 400mm dia by drilling method etc. as required and as per specifications attached  | 180.00 | Mtr  |      |               |        |
| 2      | Providing and Lowering of in all position at all depths M.S.E.R.S.(Electric resistance welded) Seamless housing pipe with socketted welding joints etc. i/c applying bitumastic paint, testing, connections, plumbness & alignment etc. as required.<br>a) 200mm dia blind pipe 4.85mm thick | 90.00  | Mtr  |      |               |        |
|        | b) 200mm dia slotted pipe 4.85 mm thick  | 90.00  | Mtr  |      |               |        |
| 3      | Development of Tubewell to stabilize of sand / silt free discharge of water with air compressor of   | 100.00 | Hour |      |               |        |

|   |  |       |          |  |  |  |
|---|--|-------|----------|--|--|--|
|   | suitable capacity as per relevant ISI specification testing of tubewell yield complete etc. , as required  |       |          |  |  |  |
| 4 | Providing & surrounding the annular space between pipe & bore with gravel (10mm nominal size) etc. as required.  | 30.00 | Cu. Mtrs |  |  |  |
| 5 | Providing & fixing of M.S. bail plug of size 200mm dia with hook i/c applying bitumastic paint etc. as required.   | 2.00  | Each     |  |  |  |
| 6 | Providing & fixing of in position 200mm dia M.S. sealing cap. 6mm thick i/c applying bitumastic paint etc. as required.  | 2.00  | Each     |  |  |  |
| 7 | Providing & fixing M.S. Clamp made of M.S. Flat 80mm x 12mm suitable for 200mm dia housing pipe having free length of 500mm on both sides of pipe fixed with 6 No. of nut bolts & washers of suitable size i/c applying bitumastic paint etc. as required. | 2.00  | Each     |  |  |  |
|   |  |       |          |  |  |  |
|   | Say:-  |       |          |  |  |  |

## **ADDITIONAL CONDITIONS & SPECIFICATIONS**

### **Conditions**

1. The contractor must get acquainted with the proposed site for work and study specifications and conditions carefully before tendering. The work shall be executed as per programme approved by the Engineer-in-charge.
2. Testing of Installation:
  - i. The entire system shall be tested to the satisfaction of Engineer-in-charge.
  - ii. Tests shall be performed in the presence of Engineer-in-charge or his representative.
  - iii. The contractor shall provide all labour, equipments and material required for performance of the tests.
3. The rates quoted by the contractor, shall be firm and should be inclusive of all Central/State Govt. Taxes, Duties and Levies etc. except as mention in printed conditions of contract.
4. Concessional Sales Tax form C/D shall not be issued by the Department.
5. Contractor shall stand guarantee for a period of 12 months from the date of completion against functioning of tubewell.
6. The contractors shall be fully responsible for watch and ward of the material brought/work executed at site till the same is complete and taken over by the department.
7. After the award of work, the contractor shall get all the materials approved from the Engineer-in-charge before use in the work. The contractor shall also produce test certificate for conformity with relevant IS specification if required by the Engineer-in-charge.

8. The work as indicated in the schedule of quantities attached herewith including any modifications, additions alterations ordered subsequently shall be carried out as per specifications given below:
- i) A table indicating the, governing specifications and other details in respect of some of the important materials to be used in the work is attached.
  - ii) Only material bearing ISI/BIS certifications mark shall be used in the work. Where articles of different designs/makes bearing ISI/BIS certification mark are available, the decision of Engineer-in-charge about the design/make to be used in the work shall be final and binding on the contractor.
  - iii) If the specifications of any item are not available then the decision of the Engineer-in-charge regarding quality shall be final & binding on the contractor.
9. In case of any discrepancy in the description of any item given in the schedule of quantities and the specifications, the former shall prevail. If the specification of any item are not available, the decision of Engineer-in-charge shall be final.

#### **TECHNICAL SPECIFICATIONS**

10. IS-2800 Part-I & II & IS-11189-1985 shall be followed for the execution of work of tubewells.
11. No payment shall be made if contractor fails to bore through soil/rock successfully.

12. Geo-physical survey shall be conducted by the contractor at their own cost before taking up the work of boring of tubewell.
13. The verticality & alignment of tubewells shall be tested by the agency by using plumb or plunger & submit the report as per Appendix A of IS-2800 (part-II)
14. During handing over the tubewell to the department. The contractor shall submit the following reports/results.
  - a) Results of tubewell depth and water level measurements.
  - b) Report on the chemical & bacteriological analysis of water.
  - c) Results of development and drew down test as given in table-1

TABLE-1

A. Normal Test

| S.No. | Rated Discharge | Depression at Rated Discharge | Specific yield 2/3 | Total Hours Run | Sand in ppm at End of Test | Static Water Level | Pumping Water Level |
|-------|-----------------|-------------------------------|--------------------|-----------------|----------------------------|--------------------|---------------------|
|       |                 |                               |                    |                 |                            |                    |                     |

B. Discharge at 1.2 times normal yield or 1.5 times the normal depression

| Specific yield discharge drawdown | Total Hours Run | Sand in ppm at End of Test | Static Water Level | Pumping Water Level |
|-----------------------------------|-----------------|----------------------------|--------------------|---------------------|
|                                   |                 |                            |                    |                     |



15. The contractor shall submit the information/results of tubewell bore in the format as per Annexure-'A' of IS-2800 (Part-I)-1991 & Appendix 'B' of IS-2800 (Part-II)-1979 enclosed herewith.
16. During development of bore the air-compressor shall be used for minimum 60 Hours or till sand/silt free discharge of water is available.

NOTE: This work may be treated as "specialize work" and the agency should be registered with central ground water Authority.

**TABLE OF GOVERNING SPECIFICATION FOR MATERIALS**

| S.No. | Name of item             | Governing IS: code |
|-------|--------------------------|--------------------|
| 1.    | Ball plug or bottom plug | IS 226 : 1975      |
| 2.    | Bail plug hook           | IS 226 : 1975      |
| 3.    | Casing pipe/housing pipe | IS:3589            |
| 4.    | Screens/slotted pipes    | IS 8110 : 1985     |
| 5.    | Centralizer              | IS 226 : 1975      |
| 6.    | Taper/reducer            | IS 226 : 1975      |
| 7.    | Clamp                    | IS 226 : 1975      |
| 8.    | Well Cap                 | IS 226 : 1975      |

NOTE: BIS code amended upto date of tender shall be applicable

**ANNEX A**  
( Clause 12.2.1 )

**INFORMATION TO BE FURNISHED BY DRILLING AGENCY TO OWNER ON  
COMPLETION OF TUBEWELL**

- |  |       |            |            |       |       |       |       |       |       |   |
|--|-------|------------|------------|-------|-------|-------|-------|-------|-------|---|
| <p>1. Agency drilling the tubewell.....</p> <p>2. Location of the tubewell.....</p> <p>3. Method of drilling adopted.....</p> <p>4. Date of starting.....</p> <p>5. Date of completion.....</p> <p>6. Pilot hole or test hole.....Bit size.....<br/>Bit type.....Hours.....from.....<br/>to.....</p> <p>7. Coring done.....Bit size.....Bit<br/>type.....Hours.....Recovery.....<br/>from.....to.....</p> <p>8. Reaming.....Bit size.....<br/>Bit type.....Hours.....from.....<br/>to.....</p> <p>9. Lithological data</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">From</td> <td style="text-align: center;">To</td> <td style="text-align: center;">Formations</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </table> <p>10. Total depth of tubewell drilled.....</p> | From  | To         | Formations | ..... | ..... | ..... | ..... | ..... | ..... | <p>11. Assembly of production well.....Size.....<br/>Length.....Type.....<br/>Perforation per metre.....<br/>Housing pipe.....<br/>Blind pipe.....<br/>Strainer.....<br/>Bail plug.....</p> <p>12. Top of tubewell above/below ground<br/>level.....</p> <p>13. Size of gravel.....Quantity used before<br/>development.....Quantity used during<br/>development.....</p> <p>14. Method used for development.....<br/>Total hours of testing.....</p> <p>15. Development discharge.....</p> <p>16. Turbidity.....</p> <p>17. Further details appended:<br/>a) Samples of strata, neatly packed in<br/>sample bags,<br/>b) Chart of pipe assembly lowered, and<br/>c) Results of mechanical analysis of samples<br/>of unconsolidated strata.</p> <p>18. Remarks:<br/>Owner.....Driller.....</p> |
| From   | To    | Formations |            |       |       |       |       |       |       |   |
| .....  | ..... | .....      |            |       |       |       |       |       |       |   |
| .....  | ..... | .....      |            |       |       |       |       |       |       |   |

## APPENDIX A

( Clause 4.3 )

# VERTICALITY TEST REPORT

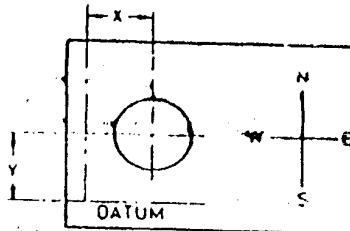
Name of Work: .....

Pump Serial No .....

Conducted by: .....

In the presence of: .....

Date: .....



I.D. of well: .....

O.D. of disc: .....mm

Disc correction .....mm

Point of suspension...m above top of well

Static water level ..... m

Depth of well housing :.....m

[illegible]

Customer.....

Signature of Tester.....

## APPENDIX B

( Clause 7.2 )

### INFORMATION TO BE FURNISHED BY TESTING AGENCY TO OWNER ON COMPLETION OF THE TESTING OF TUBEWELL

1. Agency conducting the tests.....
2. Location of tubewell.....
3. Date of starting.....
4. Date of completion.....
5. Total depth of tubewell.....  
Method adopted.....
6. Depth of water level.....  
Method adopted.....
7. Results of verticality and alignment test.....
8. Drawdown test: Time of test .....  
Speed rev/min ..... Discharge ..... Period run.....
9. Rated discharge in P/min .....
10. Depression head of the production well.....
11. Sand contents in ppm at the rated discharge after 20 minutes of the start of the pump or 20 per-  
cent in excess of the rated discharge if 50 percent extra depression cannot be arranged.....
12. Recommendation with regard to a suitable pump.....
13. Further details appended:  
Chemical and bacteriological analysis of tubewell water
14. Remarks:  
Owner ..... Tester .....

