

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
CONSTRUCTION & MAINTENANCE DIVISION  
MAIDAN GARHI: NEW DELHI- 110 068  
NOTICE INVITING TENDER**

1. Item Rate tenders are invited on behalf of Vice Chancellor, IGNOU from approved and eligible contractors of CPWD (and those of appropriate list of PWD/DOT/DDA/DJB/BSNL/MES) for the work of Boring of two number tube wells i/c supplying & installation of submersible pumpset at IGNOU Campus, Maidan Garhi New Delhi.
2. The enlistment of the contractor should be valid on the last date of sale of tenders.
3. In case only the last date of sale of tender is extended, the enlistment of contractor should be valid on the original date of sale of tenders.
4. In case both the last date of receipt of application and sale of tenders are extended, the enlistment of contractor should be valid on either of the two dates i.e. original date of sale of tender or the extended date of sale of tenders.
5. The work is estimated to cost Rs. 10,67,011/- (Rs. Ten Lakh sixty seven thousand eleven only). This estimate, however, is given merely as a rough guide.
6. The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NIT's for calling the tenders. He will also nominate Division, which will deal with all matters relating to the invitation of tenders. For composite tenders, besides indicating the combined estimated cost put to tender, should clearly indicate the estimated cost of each component separately. The eligibility of tender will correspond to the combined estimated cost of different components put to tender.
7. The tenders will be issued to eligible contractors provided they produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works of magnitude as specified in the advertisement.
8. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD-8, which is available as a Govt. of India publication. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
9. The time allowed for carrying out the work will be Two Month from the date of start as defined in the Schedule 'F' or from the first date of handing over the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
10. The site for the work shall be made available in parts as specified below:  
Site is available.
11. Applications for issue of forms shall be received by ----- (upto 2.30 PM) and tender documents shall be issued by Executive Engineer (C). Tender documents consisting of plans, specifications, the schedule of quantities of various classes of work to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the Executive Engineer (C) between hours of 11.00 a.m. & 4.00 p.m. from \_\_\_\_\_ to \_\_\_\_\_ everyday except on Saturdays/Sundays and Public Holidays. Tender documents, excluding standard forms, will be issued from his office, during the hours specified above, on payment of Rs. 500/- in cash (non-refundable) as cost of tender.
12. Earnest Money of Rs.21,340 /- in shape of Pay Order/Demand Draft of a schedule Bank issued in favour of IGNOU, New Delhi should accompany the tender.

13. Tenders, which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by the Executive Engineer (C) upto 3.00 p.m. on ----- and will be opened by him or his authorized representative in his office on the same day at 3.30 p.m.
14. 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 of Fixed deposit receipts or Guarantee bonds of any Scheduled bank or the State Bank of India in accordance with the prescribed form.
15. Description of work is given at Page No. 1 may be seen. Copies of other drawings and documents pertaining to the works will be open for inspection by the tender at the office of the above mentioned officer. 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 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 and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tender 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 plants etc will be issued to him by the IGNOU and local conditions other factors having a bearing on the execution of work.
16. The competent authority on behalf of Vice Chancellor, Indira Gandhi National Open University does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all tenders received without assignment of any reasons. All tenders in which any of the prescribed condition is not fulfilled or any conditions including that of conditional rebate is put forth by the tender shall be summarily rejected.
17. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractor who resorts to canvassing will be liable to rejection.
18. The competent authority on behalf of Vice Chancellor, Indira Gandhi National Open University 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.
19. The contractor shall not be permitted to tender for work in IGNOU (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 grade of Suptd. 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 relative to any gazetted officer in the University. Any breach of this condition by the contractor would render him liable to be removed from the approved list of the contractors of this department.
20. No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering deptt. of the University is allowed to work as a contractor for a period of Two Month after his retirement from service, without the previous permission of the University authorities in writing. The contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such person who had not obtained the permission of the University as aforesaid before submission of the tender or engagement in the contractor's service.

21. The tender for the works shall remain open for acceptance for a period of ninety (90) days from the date of opening of tenders. If any tender 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 the tender which are not acceptable to the deptt, then the University shall, without prejudice to the 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.
22. This Notice Inviting Tender shall form a part of the contract document. The successful tendered/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 CPWD form 8.
23. For composite tenders
- (i) The tender must associate with himself agencies of the appropriate class eligible to tender for the other components individually.
  - (ii) It will be obligatory on the part of the tender to sign the tender document for all the components. (The schedule of quantities, conditions and special conditions etc).
  - (iii) After the work is awarded, the contractor will have to enter into separate agreements for each component with the officer concerned.
  - (iv) Executive Engineer in charge of minor component shall make interim payments in respect of minor component of work. Executive Engineer In charge of the major component shall make the payment against final bill of the composite work
  - (v) The Executive Engineer In charge of the major component will call tenders for the composite work. The cost of tender document and earnest money will be fixed with respect to the combined estimated cost put to tender for the composite tender. Security deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of woks. The earnest money will become part of the security deposit of the major component of work.
  - (vi) On acceptance of composite tender by the competent authority, the letter of award will be issued by the Executive Engineer In charge of the major component on behalf of Vice Chancellor, IGNOU, making it clear in the letter of award that the contractor will have to execute separate agreements for different components of work with the concerned officers of the respective discipline.

**EXECUTIVE ENGINEER (C)**  
**Engineer Incharge**  
**For and on behalf of Vice Chancellor, IGNOU**

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
CONSTRUCTION & MAINTENANCE DIVISION  
MAIDAN GARHI: NEW DELHI- 110 068**

**Item Rate Tender**

(A) Tender for the work of Boring of two number tubewells i/c supplying & installation of submersible pumpsets at IGNOU Campus, Maidan Garhi New Delhi.

- (i) To be submitted by 3.00 p.m. on \_\_\_\_\_
- (ii) To be opened in presence of tenderers who may be present at 3.30 p.m. on \_\_\_\_\_ in the office of the Executive Engineer (C).

Issued to \_\_\_\_\_

Signature of the officer issuing the documents \_\_\_\_\_

Date of issue \_\_\_\_\_

**TENDER**

I/We have read and examined the Notice Inviting Tender schedule A, B, C, D, E & F. Specifications applicable, drawings and design, General Rules and Directions of contract, clauses of contract, special conditions, Schedule of Rate and other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Vice Chancellor, IGNOU within the time specified in Schedule 'F' viz. schedule of quantities and in accordance in all respect 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 conditions of the contract with such materials as are provided for, by, and in respect in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for ninety (90) days from the due date of its opening and not to make any modifications in its terms and conditions.

A sum of Rs.21,340/- has been deposited in Pay order/Demand Draft of 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 Vice Chancellor, IGNOU 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 Vice Chancellor, IGNOU or his 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, upto 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 clauses of the tender form.

Further, I/We agree that in case of forfeiture of earnest money or both earnest money and Performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work. We here by 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 satisfy of the state.

Dated:

Signature and address of the contractor

Witness:

Address:

Occupation

### **ACCEPTANCE**

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

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

(a)

(b)

(c)

For and on behalf of Vice Chancellor, IGNOU

Signature and

Designation

## **SCHEDULE 'F'**

Reference to General conditions of the contract.

**Name of work: - Boring of two number tube wells i/c supplying & installation of submersible pumpsets at IGNOU Campus, Maidan Garhi New Delhi.**

Estimated cost of work	Rs. 10,67,011/-
Earnest Money	Rs. 21,340/-
Performance Guarantee:	5% of tendered cost
Security deposit	5% of tendered cost

### **General Rules & Directions**

Officer Inviting tender	Executive Engineer (C)
Maximum percentage for quantity of items of work to be Executed beyond which rates are to be determined in Accordance with Clauses 12.2 and 12.3	30%

### **Definitions**

2(i) Engineer Incharge	Executive Engineer (C)
2(ii) Accepting Authority	VC (IGNOU)
2(iii) Percentage on cost of material and labour to cover all overheads and profits	15%
2(iv) Standard Schedule of Rates	Market Rates
2(v) Department	CMD (IGNOU)
9(vi) Standard CPWD contract form	CPWD form 8 as Modified upto date & special condition of the contract

### **Clause-1**

(i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	10days
(ii) Maximum allowable extension beyond the period provided in 1 (i) above	10days

### **Clause-2**

Authority for fixing compensation under clause-2	VC (IGNOU)
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**Clause-2 A**

Whether clause 2-A shall be applicable.

N0

**Clause 5**

Number of days from the date of issue of letter of acceptance

For reckoning date of start

10 days

Mile stone (s) as per table given below:

**Table of Mile Stone(s)**

S.N.	Description of Milestone (Physical)	Time allowed in days (from dt of start)	Amount to be withheld in case of non-achievement of milestone
1	NA		
2	NA		
3	NA		

Time allowed for execution of work

Two Month

**Clause 6,6A**

Clause applicable (6 or 6-A)

6

**Clause-7**

Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment

NA

**Clause-10A**

List of testing equipments to be provided by the contractor at site lab

-----NA-----

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_ NA \_\_\_\_\_

**Clause-10B**

Whether clause 10-B (ii) shall be applicable

No

**Cause-10 CA**

Material covered under this clause	Nearest material for which All India wholesale price index is to be followed
1 N.A	N.A
2. N.A	N.A
3. N.A	N.A

**Clause-10CC**

Clause 10-CC to be applicable in contract with stipulated

period of completion exceeding the period shown in next column

NA

**Clause-11**

Specification to be followed for execution of work

As Per CPWD Specification for Civil as well as electrical Part I & II & Special conditions of Tender

**Clause-12**

12.2 & 12.3 – Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work

30%

12.5 Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work.

100%

**Clause-16**

Competent authority for deciding reduce rates

VC (IGNOU)

**Clause-18**

List of mandatory machinery, tools and plants to be deployed by the contractor at site. To be arranged by the contractor as per site requirement.

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

(As per site requirement)

4. \_\_\_\_\_ 5. \_\_\_\_\_ 6. \_\_\_\_\_

**Clause 36 (i)**

Requirement of Technical Representative(s) and recovery rates

S.N	Minimum Qualification of Technical Representative	Discipline	Description (Principal Technical/ Technical Representative)	Minimum Experience		Rate of recovery shall be made from the contractor in the event of not fulfilling provisions of clause 36(i)	
						Figure	works
1	Graduate Engineer	Civil		Nil	1	Rs. 10,000/-	Ten Thousand
(or)	Diploma Engineer	-do		5Yrs	-do-	-do-	-do-

Assistant Engineers retired from Govt services that are holding Diploma will be treated at Par with Graduate Engineers.

**Clause-42**

Whether clause 42 shall be applicable

-No-



## NOTE

In this Agreement wherever the word mentioned under Column 'A' appear the same may be construed to mean the word opposite to it in Column 'B' except for CPWD Contractor Labour Regulation, CPWD Safety Code, CPWD Specification and Delhi Schedule of Rates CPWD.

<b>‘A’</b>	<b>‘B’</b>
Central PWD, CPWD	Indira Gandhi National Open University
President of India	Vice –Chancellor, IGNOU
Chief Engineer	Chief Project Officer, IGNOU
Superintending Engineer	Chief Project Officer, IGNOU
Divisional Officer) Engineer Incharge)	Executive Engineer (C), CMD, IGNOU
Sub-Divisional Officer	Assistant Executive Engineer (E), CMD, IGNOU

## **Notice Inviting Tender**

**Name of Work** : **Boring of two number tube wells i/c supplying  
& installation of submersible pumpsets at  
IGNOU Campus, Maidan Garhi New Delhi.**

**Estimated Cost** : ₹ 10,67,011/-

**Earnest Money** : ₹ 21,340/-

**Performance Guarantee** : **5% of tendered cost**

**Security Deposit** : **5% of tendered cost**

**Time Allowed** : **Two Month**

**Certified that this NIT contains \_\_\_\_\_pages .**

**Executive Engineer (C)**

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
CONSTRUCTION & MAINTENANCE DIVISION  
MAIDAN GARHI, NEW DELHI  
NOTICE INVITING TENDER**

The Executive Engineer (C) Construction Maintenance Division invites on behalf of Vice-Chancellor, Indira Gandhi National Open University, sealed item rate tenders for the following work from the approved and eligible contractors of CPWD and those of appropriate class of PWD/DOT/DDA/DJB/BSNL/MES who have already executed at least one similar work costing 80% or two similar works each costing 60% each or three similar works 40% each estimated cost during the last Five years. The tenders will be sold only on production of Original Registration, PAN No., TIN No., latest paid challan of VAT and proof for satisfactory completion of similar works duly certified by the competent authority of the client department.

Name of Work	Estimated Cost ₹ (in )	Earnest Money ₹ (in )	Cost of Tender ₹ (in ) N/R	Last Date of Receipt & sale of tender	Date of Opening of tender	Time Allowed
<b>Boring of two number tube wells i/c supplying &amp; installation of submersible pumpset at IGNOU Campus, Maidan Garhi New Delhi.</b>	<b>10,67,011/-</b>	<b>21,340/-</b>	<b>500/-</b>	<b>22.08.2014</b>	<b>25.08.2014</b>	<b>Two Month</b>

Tender documents can be obtained from the office of the undersigned, Indira Gandhi National Open University, Construction & Maintenance Division Maidan Garhi, New Delhi-68 on any working day upto 2.30 pm on the date and time given above. The time for submission of tenders is upto 3.00 p.m. which shall be opened on the same day at 3.30 p.m. on the date given above. The undersigned reserves the right to accept or reject any or all tenders without assigning any reason.

**Note:- The tender documents in the website are for information only. Downloaded tender documents will not be considered for bidding. The contractor/Supplier shall quote their rates in the NIT issued by the department only. If rates quoted in other form will not be considered. Contractors/Agencies have to act as per above NIT.**

**(Y. Nooruddin)  
Executive Engineer (C)**

**Name of work:- Boring of two number tube wells i/c supplying & installation of submersible pumpset at IGNOU Campus, Maidan Garhi, New Delhi.**

**SPECIFICATION & SPECIAL CONDITIONS:**

1. Unless otherwise stated the work shall be carried out in accordance with CPWD/specification/ISI specification No. 2800/1964 amended upto date.
2. The work to be executed under this contract will be subjected to inspection by the departmental officers. Any defect in workmanship quality of material used shall have to be rectified by the contractor at his own cost and in case contractor fails to do so, it will be got rectified through any other agency or by the department at the risk and cost of the contractor.
3. Before quoting the contractor shall inspect the site of work, site conditions, approaches etc. If any extra approach is required for taking DTH Rig to the proposed location of tubewell it shall be made by the contractor within the tendered cost and nothing extra shall be paid on this account. The tubewells are proposed to be dug at IGNOU Campus, Midan Garhi New Delhi and final decision of location will be taken at the time of award of work.
4. The quantities shown in the Schedule are tentative and subject to variation depending upon the ground and water condition. The payment shall be made to the agency as per actual work done.
5. The drilling in all kind of soil, moorum and rock etc is to be done by DTH Rotary Drilling machine capable of drilling at least upto 200 meters deep bore by using 1100 CFM/400 PSI machine.
6. Nothing extra shall be paid to the contractor for any special devices for drilling, erection or dismantling of machine/equipment and for carriage of pipe etc used in boring work. The rates quoted by the contractor shall be inclusive of shifting erecting and dismantling of equipments at site. Hire charges of any special equipment used in drilling operations shall be the responsibility of the contractor.
7. The sample for different strata should be taken at every 5 mtr or earlier in case of change of strata. These should be dried and kept in cloth or polythene bag which should be labeled, arranged neatly indicating the depth range of the strata sample. The strata sample of tubewells should be kept in wooden box and handed over to the Engineer Incharge.
8. Water samples of tubewells drilled are to be got tested from Delhi Jal Board or any other Govt. approved laboratory. The testing charges of the samples shall be born by the contractor and nothing extra shall be paid on this account.

9. The rate of all items for work shall unless clearly specified otherwise include the cost of all labour, material and other input involved in the execution of work i/c taxes & duties.
10. If the bore hole collapses or get spoiled due to any reasons, the same shall be the responsibility of the contractor and nothing extra shall be paid for rewashing/reboring of the bore holes.
11. The pipe assembly which is to be lowered in the well after the boring is completed shall be got approved from the Engineer Incharge. Strata chart is to be prepared by the contractor and got approved by the Engineer Incharge before the lowering of pipe assembly.
12. The contractor shall remove the malba from the site of work as directed by the Engineer Incharge without extra payment.
13. Water and electricity shall have to be arranged by the contractor at site for carrying out the work and no extra payment for the same shall be made by the university.
14. Development of tubewells shall be carried out with the help of heavy duty Air-compressor of capacity 1100 CFM/400 PSI or DTH cum Rotary Rig machine. Record of the working of the Air-compressor for the purpose will be maintained by the Engineer Incharge which shall be duly signed by the contractor or his representative. These hours will only from the basis of payment.
15. The well cap to be provided on 200mm dia nominal bore pipe at the top of assembly plate having proper locking arrangement.
16. The pea Gravel to be supplied and shrouded in the tubewell should be well ground round or oval in shape and should be between 3mm to 8mm size.
17. The challan of pumpsets, pipes along with Guarantee Cards shall be submitted to the department.

Executive Engineer (C)

### **SCHEDULE OF QUANTITY**

**Estimate Cost:-10,67,011/-**

**Earnest Money: Rs. 21,340/- (P.O in favour of IGNOU)**

**Time allow:- Two Month**

**ISSUE TO:-**

**DATE OF OPENING:-**

**Name of Work:- Boring of two number tubewell's i/c supplying & installation of submersible pumpset at IGNOU  
Campus Maidan Garhi, New Delhi**

<b>S.No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1.	Boring /drilling box well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part-I), including collecting samples from different strata, preparing and submitting strata chart/bore log including hire & running charges of all equipments, tools, plants & mechineries reuiqred for the job all complete as per direction of Engineer-in-charge upto 90 meter depth below ground level. a. 300mm dia (all type of soil) b. 300mm dia (Rocky strata including boulders)	20mtr 160mtr	Mtr Mtr		
2.	Boring/drilling bore well of required for casing/strainer pipe, by suitable method prescribed in IS:2800(Part-I), including collecting sample from different strata preparing and submitting strata chart/bore log, including hire & running charges of all equipements, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, beyond 90 meter & upto 150 meter depth below ground level a. 300mm dia (All type of soil) b. 300mm dia (Rocky strata including Boulders)	10mtr 110mtr	Mtr Mtr		
3.	Gravel packing in tubewell construction in accordance with IS: 4097, i/c providing gravel fine/medium/coarse, in requied grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	10cum	Cum		

4.	<p>Supplying, assembling, lowering and fixing in vertical position is borewell ERW (Electric Resistance welded) FE 410 mild steel screwed and socketed/plain ended casing pipes of required dia, conforming to IS:4270, of reputed &amp; approved make i/c painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required wire &amp; labour charges, fittings &amp; accessories all complete for all depths as per direction of Engineer-in-charge.</p> <p>a. 150mm nominal size dia having minimum wall thickness 5.00mm</p> <p>b. 200mm nominal size dia having minimum wall thickness 5.40mm</p>	24mtr 144mtr	Mtr Mtr		
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5.	<p>Supplying, assembling, lowering and fixing in vertical position in bore-well, ERW (Electric Resistance welded) FE 410 plain slotted (having slot of size 1.6/3.2mm mild steel threaded and socketed/plain bevel ended pipe (type-A) of required dia conforming to IS: 8110, of reputed and approved make having wall thickness not less than 5.40mm i/c painted with outside surface with two coats of anticorrosive bitumastic paint of approved brand and manufacture, i/c hire &amp; labour charge, fittings &amp; accessories, all complete for all depth, as per direction of Engineer-in-charge.</p> <p>a. 150mm dia nominal size dia</p> <p>b. 200mm dia nominal size dia</p>	100mtr 36mtr	Mtr Mtr		
6.	<p>Development of tube-wells in accordance with IS:2800 (Part-I) and IS:11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air-compressor, running the compressor for required time till well is fully developed measuring yield of well by "V" notch method or any other approved method measuring static level &amp; draw duties etc. by step draw down method collecting water sample &amp; getting tested in approved laboratory i/c disinfection of tubewell all complete, including hire &amp; labour charges of air-compressor, tools &amp; accessories etc. all as per requirement and direction of Engineer-in-charge.</p>	10hrs	Hours		
7.	<p>Providing &amp; fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/casing pipe removable as per requirements all complete for borewell of . 200mm dia</p>	02Nos.	Each		
8.	<p>Providing &amp; fixing MS clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (Part-I) including necessary bolts &amp; nuts of required size complete. 200mm dia</p>	04Nos.	Each		
9.	<p>Lowering &amp; installation of Submersible pumpset &amp; motor i/c GI column pipe submersible cable &amp; other accessories complete as required.</p>	02job	Job		
10.	<p>Supplying of 40mm dia medium class pipe jindol make with flanged</p>				

	welded at ends of GI pipe of 6m length i/c flange packing, nut-bolts etc complete as required as per direction of Engineer-in-charge.	250mtr	Mtr		
11.	Supplying of submersible cable 3core, 4sqm copper conductor.	300mtr	Mtr		
12.	Supplying, fixing & commissioning of control panel suitable for operating of 3phase submersible pumpset del having heavy duty 4pole contractor overload relay (Range 9 to 14amp.) auto start switch with Auto/manual selector switch voltmeter with 3 phase selector switch ammeter meter TP&N MCB. The above items as described shall be complaid in a cubicle sheet steel enclosure having front door openable & locking arrangement & suitable for wall mounting, the control panel with accessories shall be suitable for operation of submersible pumpsets.	02Nos.	Each		

13. a.	Supplying of KSB make submersible pumping set with motor model cora 4C/30 with 4HP, 3PH 415V motor complete as required.	01Nos.	Each		
13. b.	Supplying of submersible pumpset KSB make model cora 7C/22 with 5HP, 3PH, 415V mortor complete as required.	01Nos.	Each		
14.	Providing & fixing G.I pipes complete with G.I fittings i/c trenching & refelling etc. (External work) 40mm dia nominal bore	250mtr	Mtr		
15.	Providing & fixing enclosed type metre (bulk types) class 'B' and tested by municipal board complete with nuts bolts rubbers insertion etc. 40mm dia	02Nos.	Each		
16.	Providing & fixing non return valve of approved quality with bolts, nuts, rubbers insertion etc. 40mm dia	02Nos.	Each		
17.	P/F CI dirt box strainer for bulk type water metre with nuts, bolts, rubbers, insertions etc. complete conforming to IS:2373 40mm dia	02Nos.	Each		
18.	Supplying of G.I. union : UNIK make	02Nos.	Each		

**(Y. Nooruddin)**  
**Executive Engineer (C)**



