

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 Operation & Maintenance of tube wells pumpsets in pump house i/c other allied items at IGNOU Campus, Maidan Garhi.
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. 16,37,077/- (Rs. Sixteen Lakh thirty seven thousand seventy seven 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 tender on prescribed Form No. CPWD-8, which is available as a Govt. of India publication. Tender 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 One years 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 ----- (4.00 PM) and tender documents shall be issued by Executive Engineer (E) (upto 2.30 PM). 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 (E) 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 form, 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.32,742 /- 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 (E) 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. Tender 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 tender 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 tender 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 tender 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 years 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 any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tender 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 Operation & Maintenance of tubewells, pumpsets in pump house i/c other allied items for water supply to Residential flats & office buildings at IGNOU Campus, Maidan Garhi.

(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. _____ in the office of the Executive Engineer (E).

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.32,742/- 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: - Operation & Maintenance of tube wells, pump sets in pump house i/c other allied items for water supply to Residential flats & office buildings at IGNOU Campus, Maidan Garhi.

Estimated cost of work	Rs. 16,37,077/-
(i) Earnest Money	Rs. 32,742/-
(ii) Performance Guarantee:	5% of tendered cost
(iii) 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(v) Engineer Incharge	Executive Engineer (C)
2(viii) Accepting Authority	VC (IGNOU)
2(x) Percentage on cost of material and labour to cover all overheads and profits	15%
2(xi) Standard Schedule of Rates	Market Rates
2(xii) Department	CMD (IGNOU)
9(ii) 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)

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

one years

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 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.

N.A

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	Number	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
2	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

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of DSR 2007 printed by CPWD.
- (ii) Variations permissible on theoretical quantities.
 - (a) Cement for works with estimated cost put to tender not more than Rs. 5 lakh

for works with estimated cost put to tender more than Rs. 5 Lakh

-N.A-

(C) Bitumen all works

© Steel reinforcement and structural steel sections

for each diameter, section and category

(d) All other material

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S.N.	Description of item	Rate in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1	Cement	-N.A-	-N.A-
2	Steel Reinforcement		
3	Structural sections		
4	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

Notice Inviting Tender

Name of Work : **Operation & Maintenance of tube wells pump sets in pump house i/c other allied items for water supply to Residential flats & office buildings at IGNOU Campus, Maidan Garhi.**

Estimated Cost : ₹ 16,37,077/-

Earnest Money : ₹ 32,742/-

Performance Guarantee : 5% of tendered cost

Security Deposit : 5% of tendered cost

Time Allowed : One year

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, Electrical licence, PAN No., TIN No. ESI, EPF Service tax, 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
Operation & Maintenance of tubewells, pumpsets in pump house i/c other allied items for water supply to Residential flats & office buildings at IGNOU Campus, Maidan Garhi New Delhi.	16,37,077/-	32,742/-	500/-	09.06.2014	11.06.2014	One Year

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 3.00p.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: Operation & Maintenance of tube wells, pump sets in pump houses i/c other allied items for water supply to Residential flats & office buildings at IGNOU Campus, Maidan Garhi.

Scope of work: The following works to be executed by the agency during the contract period within their quoted rates:-

1. Operation of 8 no. tube wells by deploying man power located in different locations at IGNOU Campus round the clock basis for satisfactory operation.
2. Operation of pumpsets of different capacities by deputing operator installed in 04 no. pump houses for boosting water (raw & drinking) as & when required daily.
3. Repair/ replacement of defective parts noticed in the motor pump sets installed in the pump houses of different capacities including their electrical control and main panels for satisfactory operation of pump set as & when required.
4. Operation of valves for regulating of water supply as & when required for different office buildings as well as residential flats.
5. Supplying & lowering submersible pumpsets of different capacities and models as in the schedule item including column pipe and submersible cable as & when required.
6. Maintenance of G.I water pipe lines by repair/replacement necessary items laid from tube well to pump house/water reservoir.
7. Supplying of liquid chlorine conforming to IS:11673 and dozing the same through dozing machine during supply of water in the pump houses. Also calibration & maintenance of dozing pump machine during the contract period.
8. Supplying & lowering of G.I pipes with flanges duly welded at both ends including submersible cable with other accessories.
9. Operation of 75 KVA DG set installed near pump house as & when required. (The periodical maintenance like 'B' check, servicing etc., are not including in the scope of work).
10. Maintenance with repair/ replacement of the G.I/ C.I water pipe lines including valves, NRV's and other accessories installed within the pump houses as & when required. (Maintenance of external pipe lines outside the pump houses are not under the scope of work).

Special terms conditions:-

1. Before quoting the rates for the work, the contractor is advised to acquaint himself with the general conditions of the installations of tube wells No. 4 to 12 (except tube well No.6), main pump houses, valves, water supply pipe lines etc., DG set and other allied systems including and their accessibility. No claim on account of cartage including machines incidental thereof shall be entertained by the University.

2. The maximum time allowed for making functional of a submersible water supply pump set shall be 5 days after the date of its becoming out of order. In case, the contractor fails to get the same within stipulated period of 5 days, the University shall levy penalty of ₹ 1000/- per day for the period it remains out of order. In order to avoid delay in the repair/ replacement of submersible pumpsets/ water supply pumpsets etc. the contractor shall keep the necessary spares, tools for the said work in advance.
3. The decision of Engineer-in-charge shall be final in respect of the means and method towards deployment of staff for carrying out the work under this contract.
4. During the first 3 days of the commencement of contract period, the installations shall be handed over to the agency for further operation and maintenance.
5. In order to avoid delay towards satisfactory operation of systems the contractor shall keep necessary spares, tools in advance. In case, the contractor fails to provide the requisite spare parts, the University will provide the same at the risk and cost of contractor and no claim on this account shall be entertained.
6. At the time of closure of the contract, the contractor shall handed over all the installations in good working condition to the University failing which the University shall take over possession of the installations and the deficiencies/ defects if any found will be made good at the risk and cost of the contractor.
7. The running payment for the operation and maintenance shall be made quarterly to the contractor or as per decision of Engineer-in-charge and satisfactory work done.
8. The contract can be extended further period on the same rates, terms and conditions by the department.
9. All precautionary measures shall be adopted for carrying out the work. In case during the execution of work, if any University property/ asset get damaged or broken or accident/ mishap occurred then the contractor will be held responsible for the same. If contractor fails to do the same, then University will carry out the same then at the risk & cost of contractor.
10. The electricity and water for the purpose of maintenance and operation shall be supplied by the department free of cost if available.
11. The rates quoted by the contractor shall be inclusive of all taxes duties etc. Nothing extra beyond the quoted rates will be entertained.
12. The work shall be carried out conforming to statutory Act, Rules, Regulations, standard and safety etc. in force.
13. The contractor has to keep record of running hours of each tubewells at least 4 hours duration & supply of water from water reservoir to different buildings/ flats every day. Necessary items such log books required for recording shall be provided by the contractor within their quoted rates.
14. Contractor has to submit challans along with warranty cards towards supply of item like submersible pumpsets, control panel etc. from the authorized dealers. The materials required for the subject work shall be approved from the Engineer-in-charge before its use.
15. P.G. @ 5% shall be deposited to the department on the tendered amount by the agency before award of work. S.D. @5% will be with hold while releasing of payment & same will be refund after expire of warranty/defect liability period.
16. If the lowest agency back out then the EMD deposited will be forfeited as per rule. Also the agency will be debarred in participating IGNOU Works for period of 3 years.

(Y. Nooruddin)
Executive Engineer (C)

Schedule of Quantity

Estimated cost : ₹ 16,37,077/-

Earnest money: ₹ 32,742/- (Pay order/ demand draft in favour of IGNOU will
be submitted in separate envelop along with the tender)

Time allowed : One year

Name of work: Operation & Maintenance of tubewells, pumpsets in pump houses i/c other allied
items for water supply to Residential flats & office buildings at IGNOU Campus, Maidan Garhi.

S.no	Description	Qty.	Unit	Rate	Amount
1.	Operation of 8 nos. tubewells no. 4 to 12 (except no.6) in three shifts for supplying of water to different water reservoirs/pumphouses at IGNOU Campus.	12 months	Per/ Months		
2.	Operation of different capacities of pumpsets i/c valves in the different pump houses as detailed below for supply of water to various types of flats at MGRC and office buildings at IGNOU Campus as & when required in a day and direction of Engineer-in-charge. a) Pump house at MGRC (i) Pump with motor 15 HP, 3 ph, 415V, AC --- 4 sets. (ii) Pump with motor 12.5 HP, 3 ph, 415V, AC --- 3 sets. b) Pump house at temporary campus & tubewell no.1 (i) Mono block pumpset 7.5 HP/ 5 HP --- 4 nos. (ii) Mono block pump set 3 HP ---2 nos. c) Pump house near CMD office (i) Pump with motor 15 HP, 3 ph, 415V, AC --- 2 sets (ii) Pump with motor 7.5 HP, 3 ph, 415V, AC --- 2 sets	12months	Per/ Months		
3.	Lifting & lowering of submersible pump & motor sets i/c G.I column pipe, submersible cable and other accessories of 8 nos. tubewells (4 to 12, except no.6) as & when required during the contract period and direction of Engineer-in-charge.	8 no.	Each		

4.	<p>Supplying following make and model of submersible pumpsets as & when required during the contract period. [Nothing extra for lowering the submersible pumpsets in the borewells will be paid extra as the scope for the same has been kept in item No. 3]. The cost of new pumpsets shall be quoted under exchange of old defective pumpsets. The old/ defective pumpsets will handed over to the contractor.</p> <p>a) Submersible pumpsets, KSB make, Model CORA 4C/30 with 4HP, 3ph, 415 V motor complete set.</p> <p>b) Submersible pumpsets, KSB make, Model CORA 7C/22 with 5HP, 3ph, 415 V motor complete set.</p> <p>c) Submersible pumpsets, KSB make, Model CORA 1C/25 with 1.1HP/0.8 KW, 3ph, 415 V motor complete set.</p>	02 nos.	Each		
		02 nos.	Each		
		01 no.	Each		

5.	Maintenance of main electric panels, distribution panels & control panels etc. installed in 04 no. pump houses & 08 no. tubewell with repair/replacement electrical items & controls for satisfactory operation of centrifugal pumpsets and submersible pumpsets as & when required during the contract period.	1 job for 12 months	Job/ months		
6.	<p>Maintenance of following rating/ capacities of centrifugal pumpsets i/c NRV's and associated items installed within the premises of pump houses and inlet/ outlet pipe lines within the pump houses with repair/ replacement of defective parts/ items as & when required during the contract period.</p> <p>(I) Pump with motor 15 HP/12.5HP, 415V, AC/ 3 ph--- 09 sets.</p> <p>(II) Mono block pumpsets 7.5 HP/ 5HP/3 HP, 3 ph, 415V, AC --- 08 nos.</p>	1 job for 12 months	Job/ Months		
		1 job for 12 months	Job/ Months		
7.	Supplying of water treatment chemicals such as liquid chloride 5% (Sodium hypochloride) & dozing the same through dozing machine in the main water supply line in the pump house during supply of water as per IS code:11673. The dozing machine shall be maintained & keep functioning within the quoted rates during the contract period.	730 ltr.	Litres		

8.	Supplying of G.I pipe 1 ½” dia (40 mm) medium ‘B’ class Jindal star make i/c G.I flanges welded at the ends of 6mtr. each length and other accessories as required during the contract period with the direction of Engineer-in-charge.[nothing extra shall be paid on account of lowering the pipes in the borewells as and when required during the contract period as the scope for the same has been already kept in the item no.03].	120 mtr.	Metre		
9.	Supplying of submersible cable 3 core 4 sqmm copper conductor Finolex/ BCH make during the contract period as per direction of the Engineer-in-charge. [nothing extra shall be paid on account of lowering the submersible cable along with G.I pipe and submersible pumpsets and when required during the contract period as the scope for the same has already been taken in item no.3]	120 mtr.	Metre		
10.	Maintenance of existing G.I water pipe lines laid from the tubewell to water pump houses i/c valves and GI/CI pipe lines with other accessories exists within the pump houses by repair/ replacement of defective items as and when required during the contract period. [maintenance of DI/CI/GI water pipe lines for distribution of water supply laid outside the pump houses upto overhead tanks of MGRC flats and office buildings i/c other associated items are not covered in the items]	1 job for 12 months	Job/ Month		
11.	Operation of 75 KVA D.G set installed near pump houses (mainly during failure of BSES supply) Direction of Engineer-in-charge.	1 job for 12 months	Job/ Month		
12.	Repairing of submersible pump and motor sets with replacement of defective items in the pumps and rewinding of motor as and when required during the contract period for KSB make pumpsets of any model/ HP given below complete as required. [Pump CORA7C/22-25, CORA 12C/17-21 CORA -4C/30 with 4HP/ 5HP/6HP motor etc.] as per.availability at site	03 nos.	Each		
13.	Supplying, fixing & making connection of control panel suitable for operation of submersible pump DOL having heavy duty 4 pole contractor, overload relay LR3D (range 9-14Amp) Auto start switch, with Auto/manual selector switch voltmeter with 3P selector switch, Ammeter, TP MCB, for SC protection. The electrical accessories as described shall be complied in a cubical steel, sheet encloser having front door openable & locking agreement & suitable for wall mounting. The control panel & accessories are suitable for operation of DOL submersible pumpsets of rating 4/5/6 HP motors, 3 PH, 415V, AC Supply Make-C&S/BCH	02 nos.	Each		

(Y. Nooruddin)
Executive Engineer (C)