

DELHI DEVELOPMENT AUTHORITY
ELECTRICAL DIVISION NO:07

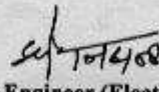
Notice Inviting Tender e No: 04 / EE / ED-7 / DDA / 2008-09

Sealed item rate tender are invited for the following works by the Executive Engineer (Elect.) Elect. Divn.7 / DDA, Keshavpuram, Delhi-110035 upto 3:00 PM on behalf of D.D.A. from the approved contractor of appropriate class of DDA, CPWD, MES, P&T, Railway and which shall be opened on the same day at 3:30 PM at Ground Floor, Vikas Minar, DDA Office, I.P. Estate, New Delhi in the presence of intending purchaser of their authorized representatives.

The tender documents can be obtained on any working day from the office of CAU/NZ/DDA, Ashok Vihar, Sale Counter Vikas Minar, New Delhi between the 11:00 to 3:00 PM on payment of amount of mentioned against each work (non refundable) on production of enlistment registration certificate and valid registration with works contract cell of Sales Tax Department of G.N.C.T.D. and tax clearance certificate issued by the works contract cell in Form-XI as well as the amount earnest money the shape of cash receipt treasury challan / deposit as call receipt of scheduled bank fixed deposit receipt of a scheduled bank / demand draft of scheduled bank in favour of Sr. A.O. / CAU / N.Z. / DDA sales of tenders form will be stopped four days (including the date of opening) before the date fixed for the opening of tender documents.

The manner of submission of tenders opening of the same and entry of contractor's. Their authorized representative to the place of opening shall be as provided in clause 3(a), (b) & 3(c) of PWD-6 forming part of tender.

| S. No. | Name of Work | NIT No. | Estimated Cost Earnest Money | Tendered Cost Time Allowed | Date of Sale Date of Opening |
|--------|---|---------|---------------------------------|-------------------------------|---------------------------------|
| 1. | M/o Park, Plantation trucks & other equipment in Hort Wing under NA-II. SH: Running & operation of sub. pump set, mono block pump set, park light and other E & M installation in park at Lawrence Road. | (20) | 1,90,680/- 3,814/- | Rs.500/- Twelve Month | 16.06.08 20.06.08 |
| 2. | M/o Park, Plantation trucks & other equipment in Hort Wing under NA-II. SH: Supply & Installation of submersible pump set at Ashoka Garden, Ashok Vihar, Ph.IV | (18) | 79,352/- 1,587/- | Rs.150/- One Month | 16.06.08 20.06.08 |
| 3. | M/o Pump set at various places under N.Z. (SH: R/M/O of submersible pump set at Transit Camp, near Gautam Colony, Narela.) | (22) | 1,84,592/- 3,692/- | Rs.500/- Twelve Month | 16.06.08 20.06.08 |


Executive Engineer (Elect.)
Electrical Division No.-7

SCHEDULE OF WORK

Name of work: M/o Park, Plantation trucks & other equipment in Hort Wing under NA-II.
 SH: Supply & installation of sub. pump set at Ashoka Garden Ashok Vihar Ph.IV.

| S. No. | Description of Item | Qty. | Unit | Rate | Amount |
|--------|--|---------|-------|------|--------|
| 1. | Supply of sub. pump duly coupled with suitable rating of 3 phase 415 volts, 50 Hz, 2900 RPM sub. induction motor. The pump set shall be suitable for the following duties a) Discharge - 360 LPM b) Head - 63 Mtr. c) Liquid clear water | 1 Set | P/set | | |
| 2. | Supplying of following size of GI B-class pipe i/c GI flanges duly screwed and welded on both ends of GI pipe, bend, tee, nipple, rubber gasket, GI nuts, bolts and washers etc. as reqd. a) 80 mm dia | 45 Mtr. | Mtr. | | |
| 3. | Supply of PVC sheathed PVC insulated copper conductor sub. cable as reqd. a) 1X3 + 4 sq. mm | 60 Mtr. | Mtr. | | |
| 4. | Lowering, testing, commissioning of sub. P/set alongwith double flanged GI pipe, sub. cable i/c jointing and accessories upto the reqd. dept. providing & fixing 2 Nos. MS clamps made of MS flat 75mmX10mmX500mm alongwith nuts, bolts, washers, cutting the existing bore cover, making suitable removable cover and fixing of sub. cable with insulated wire with GI pipe complete as reqd. | 1 Job | Job | | |

| | | | | |
|----|---|-------|-----|--|
| 5. | Supply & fixing of following size of CI flanged valve complete with rubber gasket, nuts, bolts and washers etc. as reqd. a) Non return valve (without by pass) – 80mm dia. | 1 Job | Job | |
| 6. | Supplying, fixing and commissioning of following accessories i/c connections, inter connections with suitable size of copper wire, earth connections, numbering wall mounted panel board etc. as reqd. a) 32 amp. TP&N MCB 10 KA (C-series) – 1 No b) 32 Amp. TP MCB 10 KA (C-series) – 1 No c) DOL starter with enclosure ML-1.5 type suitable relay complete etc. as reqd. (Suitable for item NO.1)- 1No. d) Single phase preventor cum water level guard with prod/sensor – 1 No. e) 3 phase shunt capacitor suitable for item No.1 – 1 No. f) Phase indicator neon lamps with toggle switches and brake up fuse – 1 set. g) Voltmeter (0 to 500 volts), 96mm square dial with selector switch – 1 No. h) Ammeter (0 to 30 Amp.), 96mm square dial – 1 No. i) 16 Amp. SP&N MCB 10 KA (C-series) – 1 No. j) 6 Amp. TPMCB 10 KA (C-series) – 1 No. k) 4 strip 300 mm long al. bus bar 100 Amp. Capacity duty PVC tapped / sleeved having drilled holes, 6mm dia bolts, nuts and washer etc. as reqd. – 1 No. l) Danger Notice plate – 1 No. m) 40mm dia G.I. pipe (Medium) from panel board to borewell – 10M. | 1 Job | Job | |

| | | | | |
|----|---|----------|------|--|
| 7. | Supplying & fixing 8 mm dia steel wire, rope i/c fixing with the steel cage for holding sub. pump set with suitable size of clamps, nuts, bolts etc. as reqd. | 100 Mtr. | | |
| 8. | Supplying & fixing cage for holding sub. pump set made of MS flat iron of 40mm X5mm with supporting clamps and anchor to the wire rope etc. as reqd. | 1 No. | Each | |

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5- Concessional Sales tax from Q/V shall be

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ADDITIONAL CONDITIONS & SPECIFICATIONS

- 1- The contractor must get acquainted with the proposed site for the work and study specifications and conditions carefully before tendering. The work shall be executed as per programme approved by the Engineer-in-Charge. The work shall be executed in close coordination with the progress of the building work. If the site for electrical work is not available in part or in full or any reason whatsoever, the time for the execution of the electrical work shall be correspondingly extended. No claim for any idle labour or compensation (except as provided under clause 10C/10CC as applicable in the printed conditions of contract) shall be entertained.
- 2- The contractor shall submit completion certificate as per appendix 'E' of the general specifications for electrical work (part-I) internal-2005 within one month after actual date of completion, failing which an amount @ 1% of the tendered cost subject to maximum of Rs.5000/- shall be deducted from any amount due to the contractor from DDA.
- 3- 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.
- 4- The rates quoted by the contractor, shall be firm and should be inclusive of all Central/State Govt. taxes, Duties and Levies etc.
- 5- Concessional Sales tax from C/D shall not be issued by the Deptt.
- 6- The installation shall be covered by the conditions that the whole installation or any part thereof found defective within the guarantee period should be replaced by the contractor free of charge in a reasonable time. The guarantee shall cover the followings:-
 - a) Quality, strength and performance of the material and equipment used.

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Safe electrical and mechanical strength of all parts of the equipments under all specified conditions of operations / satisfactory performance.

- c) Safe performance figure and other values as specified in the schedule of guarantee / technical particulars.
- d) Prompt service during guarantee period.
- e) Attending to consequential damages in the equipments supplied and installed by the tenderer.
- f) Guarantee period of 12 months shall be counted from the date of handing over of installation to the department, against manufacturing defects/satisfactory performance on a non-judicial Stamp Paper of Rs. 50/- only.

Contractor shall provide the manufacturer test certificate in respect of all major items.

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.

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.

The submersible cable from panel T.W bore shall be laid in 40mm dia G.I.'B' class pipe, the cost of which is included in the item of panel board.

Flyash bricks shall be used in the work wherever required.

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CONDITIONS:

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) CPWD specifications for Electrical Works at Delhi Part-I (Internal) 2005 and Part-II (External) 1994 with amendments upto the date of tenders.
 - (ii) Indian Electricity Rules 1956 as amended upto date.
 - (iii) A table indicating the makes, governing specifications and other details in respect of some of the important materials to be used in the work is attached. These specifications shall have preference over those indicated in 14(i) above.
 - (iv) Only material bearing ISI/BIS certifications mark shall be used in the work. Where articles of different designs / make 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.
 - (v) Where material bearing ISI/BIS certification marks are not available, material conforming to relevant BIS/ISI shall be used with prior approval of Engineer-in-Charge.
 - (vi) If the specifications of any item are not available then the decision of the Engineer-in-Charge regarding quality shall be final and binding on the contractor.
- 3- 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 specifications of any item are not available, the decision of Engineer-in-Charge shall be final.

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- 4- No tool and plant shall be issued for execution of the work or for testing of the installation. These shall be arranged by the contractor within the quoted rates.
- 5- The contractor would have to make his own arrangement for cartage and transportation of the materials and nothing extra shall be payable on this account.
- 6- The sub. standard work shall be rejected without assigning any reasons.
- 7- The following information to be furnished by the tenderers
 - a) Type, make, model and HP of the pumpset offered.
 - b) Discharge in liters per minutes and head in meters.
 - c) Revolution per minutes.
- 8- Time allowed for carrying out of work within one month.
- 9- Additional specifications are indicated in the following clauses. These additional specifications given below shall have precedence over those indicated para 14 above in case of deviations between the two.
- 20- Connectors to be used any where in the installation shall be of porcelain type.
- 21- Earthing work i.e. embedding of earth electrode and testing of installations, shall be carried out in the presence of the Asstt. Engineer (E).
- 22- The length of GI pipe to be used in the work for installation of the submersible pumpset shall not be more than three meters.

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SCHEDULE OF WORK

Name of work : W/O Pumps, at various places under North Zone.
 Sub Head : W/O of submersible pumpset at Transit Camp, near Gautam Colony, Narela.

| S. No. | Description of items | Qty. | Unit | Rate | Amount |
|--------|--|---------|------|------|--------|
| 1- | Operation of pumps/ as as per the inventory and terms & condition attached. | 12 Mont | | | |
| 2- | Supplying and replacement of the following items:- | | | | |
| a) | MF3V lamp. 70 Watt.(E) | 2 Nos. | | | |
| b) | Copper wound polyester filled ballast 70 Watt. | 2 Nos. | | | |
| c) | Electronic Ignitor for 70Watt. MF3V fittings. | 2 Nos. | | | |

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INVENTORY

PART-A

Booster Pumps

HP Centrifugal pump set. - Nos. -
HP Vacuum pump for priming of above pump set - No. -

Details of Valves.

PART-B

D.G. Set

Capacity K.V.A.
Control panel comprising of

PART-C

Submersible pump set

7.5HP submersible pump set. 3 Nos
Control panel comprising of DOL Starter, Voltmeter, Ammeter, 40 Amp. Isolator
20 amp. MCBs - 3 Nos., 63 amp. MCB - 3 Nos. etc.

PART-D

(i) Water Level Indicator NIL. No.

PART-E

- a) internal Electrical installation (3+3+3) light point and light plug (1+1)
b) external electrical installations: 4 Nos. - 70 Watt HPSV fittings;
(Compound lighting etc.)

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TERMS & CONDITIONS

- 1) The work comprises of running and operation of submersible pump set / monoblock pump sets as per the inventory attached.
2. The contractor shall depute the following staff under the contract.
 - a) Operator - 2 No.
 - b) Wireman Gr.I - 1 No. shall attend the site of work between 9 AM to 5 PM atleast once a week and as and when required.
 - c) Khalsi - 1 Nos. shall attend the site of work between 9 AM to 5 PM atleast daily as and when required.
3. The contractor shall employee trained and competent staff to the satisfaction of Engineer-in-charge having two years experience on operation of pump set / park / path light.
4. The contractor shall supply the list of staff along with experience certificate to be engaged on the installation within 7 days of award of work. Engineer-in-charge shall have the right to reject any staff employed by the contractor.
5. The staff employed by the contractor shall bear proper uniform and wear badges displaying their name and designation. The staff shall also be given photo identity card by the contractor displaying their name, father's name, address, date of birth, name of the agency with address and telephone number, site for which employed and period of validity. A copy of the identity card shall be given to the Engineer-in-charge within 15 days of award of work.
6. The contractor shall employed staff through out the period of contractor including Saturday, Sunday, Gazetted Holidays and National Holidays.
7. Following records are to be kept at site of work.
 - a) Printing Log Book for recording operation.
 - b) Attendance Register for staff deployed
 - c) Complaint / Inspection Register.

(Note: The contractor shall get the registers authenticated from Engineer-in-charge before use at site.)
8. The following minor maintenance i/c preventive maintenance shall be carried out by the contractor. The details of work carried out shall be recorded in the Log Book.
 - a) Servicing and greasing of pumps / motors once in 3 months.
 - b) Replacement of rubber pickings of valves and worn out nuts and bolts etc.
 - c) Replacement of gland dori as and when required.

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- d) Replacement of HRC fuses as and when required.
- e) Adjustment alignment / tightening of nuts and bolts as and when required.
- f) Replacement of burn out thimbles, wire terminal etc.
- g) Daily cleaning of equipments/pump house.
9. To keep internal lights and all allied installation in working order during the timings/ fixed by the Engineer-in-charge.
10. Coordination and follow up action with electric supply agency shall be done by the contractor in case of failure / fault in supply fluctuation in voltage.
11. The contractor shall intimate the Engineer-in-charge about the major break down or failure of electric supply in time.
12. All electric connections shall be checked at least once in a months and set right, if required.
13. The payment to the contractor shall be made by monthly or at other suitable intervals desired by the contractor but no less than once calendar month.
14. Proper handing / taking over of all the E & M installation shall be carried out by the JE-Elect.-in-charge of the work and the contractor in writing immediately after award of work / before start of work.
15. The Engineer-in-charge if so desire, may extend the contract upto 2 months or terminate the contract at any time after giving 15 days notice.
16. If any staff employed by the contractor is found absent on a particular time and date, an amount proportionate to per shift shall be recovered from the contractor bill.
17. All allied accessories/installations shall be kept in working order and in case any damages/losses is done to the pumping installations due to the negligence of the operational staff deployed by the contractor, the contractor shall have to make good the damages / loss at his own cost. In case the contractor fails to rectify the damages/loss within reasonable time. The same shall be got rectified / replaced by the department at the risk and cost of the contractor.
18. The contractor shall keep all the necessary spares and T & P at site required for operation and maintenance to be carried under his contract.
19. In case of any disobedience or misbehavior by the operational staff of the contractor, the Engineer-in-charge may ask the contractor to dispense with the service of such staff with immediate effect. The contractor shall provided suitable substitute simultaneously.

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The rate quoted by the contractor shall be inclusive of all taxes duties and Govt. Levies etc.

Any injury to the operational staff, in case of any mishap during duty hours will be the liability of the contractor.

All the test shall be carried out as stated in the schedule of maintenance as per direction of Engineer-in-charge. The test shall be carried out in person of Engineer-in-charge or his representative and the test result shall be submitted in duplicate.

3. The following makes of the materials are acceptable.

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|--------------------|---|
| a) HPSV Lamp | : Philips/Osram |
| b) Ballast/igniter | : As per fitment of manufacturer of existing luminaire. |

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SCHEDULE OF WORK

Name of work: M/o Park, Plantation trucks & other equipment in Hort Wing under NA-II.
 SH: Running & operation of sub. pump set, mono block pump set, park light and other E & M installation in park at Lawrence Road.

| S. No. | Description of item | Qty. | Unit | Rate | Amount |
|--------|---|-----------|------|------|--------|
| 1. | Running & operation of submersible pump set, mono block pump set, E & M installation, electric control panel, feeder pillar, park/path light and other allied accessories as per inventory and terms & conditions attached. | 12 Months | P.M. | | |

Executive Engineer (E)
 Elect. Divn.7/DDA

INVENTORY

PART-A

Booster Pumps

HP Centrifugal pump set Nos.
 HP Vacuum pump for priming of above pump set. No.
 Control panel comprising of
 Details of Valves.

PART-B

D.G. Set

Capacity : ---- K.V.A.

PART-C

Submersible pump set

a) upto 10 HP submersible pump set. 08 Nos.
 b) Control panel comprising of Ammeter, Voltmeter 08 Nos.
 TP&N 32 Amp. MCB - 1 No.
 TP 32 Amp. MCB - 1 No.
 SPP 1 No.
 Capacitor 1 No.
 DOL starter 1 No.

PART-D

(i) Water Level Indicator Nil

PART-E

b) Internal Electrical installation
 c) External Electrical Installation: 91Nos.
 (Compound lighting etc.)

150 Watt. HPSV- 36 Nos/(M.H/SV)
 125 Watt. HPMV- 55 Nos

Executive Engineer (E)

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TERMS & CONDITIONS

1. The work comprises of running and operation of submersible pump set / monoblock pump sets as per the inventory attached.
2. The contractor shall depute the following staff under the contract.
 - a) Operator - 2 Nos.
 - b) Wireman Gr.I - 1 No. shall attend the site of work between 9 AM to 5 PM atleast once a week and as and when required.
 - c) Khalsi - 1 No. shall attend the site of work between 9 AM to 5 PM atleast daily as and when required.
3. The contractor shall employee trained and competent staff to the satisfaction of Engineer-in-charge.
4. The contractor shall supply the list of staff along with experience certificate to be engaged on the installation within 7 days of award of work. Engineer-in-charge shall have the right to reject any staff employed by the contractor.
5. The staff employed by the contractor shall bear proper uniform and wear badges displaying their name and designation. The staff shall also be given photo identity card by the contractor displaying their name, father's name, address, date of birth, name of the agency with address and telephone number, site for which employed and period of validity. A copy of the identity card shall be given to the Engineer-in-charge within 15 days of award of work.
6. The contractor shall employed staff through out the period of contractor including Saturday, Sunday, Gazetted Holidays and National Holidays.
7. Following records are to be kept at site of work within the quoted rate.
 - a) Printed Log Book for recording operation.
 - b) Attendance Register for staff deployed.
 - c) Complaint / Inspection Register.

(Note: The contractor shall get the registers authenticated from Engineer-in-charge before use at site.)
8. The following minor maintenance i/c preventive maintenance shall be carried out by the contractor. The details of work carried out shall be recorded in the Log Book within the quoted rates.
 - a) Servicing and greasing of pumps / motors once in 3 months.
 - b) Replacement of rubber pickings of valves and worn out nuts and bolts etc.
 - c) Replacement of gland dori as and when required.
 - d) Replacement of HRC fuses as and when required.

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- e) Adjustment alignment / tightening of nuts and bolts as and when required.
- f) Replacement of burn out thimbles, wire terminal etc.
- g) Daily cleaning of equipments/pump house.
- 9. To keep internal / external lights and all allied installation in working order during the timings/ fixed by the Engineer-in-charge.
- 10. Coordination and follow up action with electric supply agency shall be done by the contractor in case of failure / fault in supply fluctuation in voltage.
- 11. The contractor shall intimate the Engineer-in-charge about the major break down or failure of electric supply in time.
- 12. All electric connections shall be checked at least once in a months and set right, if required.
- 13. The payment to the contractor shall be made by monthly or at other suitable intervals desired by the contractor but no less than once calendar month.
- 14. Proper handing / taking over of all the E & M installation shall be carried out by the JE-Elect.-in-charge of the work and the contractor in writing immediately after award of work / before start of work.
- 15. The Engineer-in-charge if so desire, may extend the contract upto 2 months or terminate the contract at any time after giving 15 days notice.
- 16. If any staff employed by the contractor is found absent on a particular time and date, an amount proportionate to per shift shall be recovered from the contractor bill.
- 17. All allied accessories/installations shall be kept in working order and in case any damages/losses is done to the pumping installations due to the negligence of the operational staff deployed by the contractor, the contractor shall have to make good the damages / loss at his own cost. In case the contractor fails to rectify the damages/loss within reasonable time. The same shall be got rectified / replaced by the department at the risk and cost of the contractor.
- 18. The contractor shall keep all the necessary spares and T & P at site required for operation and maintenance to be carried under his contract.
- 19. In case of any disobedience or misbehavior by the operational staff of the contractor, the Engineer-in-charge may ask the contractor to dispense with the service of such staff with immediate effect. The contractor shall provided suitable substitute simultaneously.

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20. The rate quoted by the contractor shall be inclusive of all taxes duties and Govt. Levies etc.
21. Any injury to the operational staff, in case of any mishap during duty hours will be the liability of the contractor.
22. All the test shall be carried out as stated in the schedule of maintenance as per direction of Engineer-in-charge. The test shall be carried out in person of Engineer-in-charge or his representative and the test result shall be submitted in duplicate.

Executive Engineer (E)
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