

## Terms and conditions

### Pumping Machinery

1. The firm shall forward a copy of supply order/ indent placed by it for the supply of pumps and motors on the manufactures/ authorized dealers of the pumps and motors to the consignee within 30 days after the issue of the letter of intent/ award by the Engineer-in-charge. The copy of the supply order/intent to the consignee should also accompany the dealership certificate of the dealer for the pumping machinery in case the pumps and motors are arranged from the authorized dealers.
2. The shop test for pumps and motors shall be carried out at manufactures works in the presence of representative of the department as per IS 325-1978. The test performance certificate of the pumping machinery shall be arranged by the firm fro the manufactures and get it approved from the Engineer-in-charge before actual dispatch of the pumping machinery.
3. **The characteristics curves of the pumping equipment shall be uploaded with the offer.**
4. The firm shall supply layout drawing in respect of various components, such as suction pipes, valves, cable trenches, control panel etc. from the foot valve location to the common header to be connected with rising main. The details of foundations required for various components shall also be supplied by the firm within 30 days of the letter of intent/award.
5. The wiring and installation of electric equipment shall be as per HPSEB rules and regulations and subjected to the approval of the Chief Electrical Inspector and or his authorized officer. Any defect pointed out shall be rectified by the firm without any extra cost. The wiring and installation of all electrical equipment shall be done by a licensed contractor of approved class of HPSEB authorities on their approved format (Form D) for release of power connection by the firm without extra cost.
6. The temporary electric connection, if required during installation shall be arranged by the firm at its own cost and energy charges shall also be paid directly by the firm to the HPSEB.
7. Prices of all items shall be F.O.R site of work inclusive of all leads and shall be inclusive of all charges of transportation, insurance, packing, taxes and duties such as sales tax, excise duty and local taxes etc.
8. The rates shall be quoted only on B.O.Q.
9. All the equipment/material shall conform to the relevant BIS specifications wherever applicable and in its absence to any accepted National/ International standards.
10. All the equipment shall be guaranteed against any manufacturing defect including metallurgy and its performance for a period of 12 (twelve) months from the date of commissioning / 18(Eighteen) months from the date of supply which ever is earlier. Any defect if noticed within the stipulated period shall be rectified by the firm at its own cost within 15 days of bringing the same to its notice. The guarantee clause shall be substantiated by a guarantee bond of a nationalized bank for an amount equal to the cost of pumping and electrical equipment (accessories included) pledged in the name of the Executive Engineer in charge at the time of applying for refund of security deposits. The guarantee bond shall be released after the expiry of the guarantee period.
11. The installed pumping machinery and other allied accessories shall be tested daily for stipulated pumping hours in the N.I.T for a period of seven days without extra cost. However, the cost of electricity and water shall be borne by the department. During the guarantee period efficiency of the pumping and the electric equipment should not vary beyond the range of (+/-) 2.5%. If during guarantee period, the efficiency falls beyond 2.5% to a maximum of 5%, 1% cost of the pump set for 1% fall of the efficiency shall be deducted. In case of fall of efficiency beyond 5% the pump set shall be rejected and cost of the effected pump set recovered from the pledged bank guarantee and or from the security deposit as the case may be.
12. 80% (Eighty percent) payment of the cost of pumping machinery and equipment less 10% security and other statutory recovery shall be made after receipt of complete pumping machinery i.e. pump and

motors received together at site of work in good condition. The balance 20% cost after deduction of the security and other recoveries shall be released after successful and satisfactory installation, testing of the entire equipment. Ten percent security deposits shall be released as stipulated in the agreement.

13. 90% (Ninety percent) installation charges shall be released after satisfactory installation of all the pumping and electrical equipment. Remaining 10% of installation charges shall be released after testing of the entire equipment.
14. The contractor will provide complete details of make and model of pumping machinery a/w rating of pumping machinery, make/rating and sizes of all electro- mechanical and piping system.

#### **Rising Mains:**

1. The alignment of pipe line is subject to change as per site conditions. Most suitable and technically feasible alignment as per directions of Engineer-in-charge shall be followed at site and nothing extra shall be paid beyond the approved rates.
2. All machinery/equipment required for laying of pipes shall be arranged by the contractor/firms.
3. The measurement for providing, laying and jointing of pipes laid shall be made only after the same is tested as per technical requirements. The back filling shall be allowed only after the said testing.
4. L-sections/plan of the pipe line can be seen in the Divisional office at any working day.
5. The firm shall make all the arrangements for working in night hours (if required) at its own cost.
6. Any damage caused to any structure during the execution of work by the firms will be restored to its original conditions by the firm/contractor at its own cost.
7. The rates of all items should be inclusive of the carriage of all the material within all lead and lifts to the site of works.
8. The work shall be executed as per BIS codes, PWD specification / recommendation of manual on water supply and treatment and to the entire satisfaction Engineer-in-charge.
9. The pipe shall be inspected by the inspecting officer appointed by the Engineer-in-charge before dispatch of it from the manufacturer works at the cost of contractor.
10. The contractor will be responsible for watch and ward of materials at site of work.
11. Statement of length where the pipe is not buried under ground due to rocky strata shall be attached with every bill for the inspection of Engineer-in-charge.
12. The pipe will be got tested from the Engineer-in-charge before laying and the under specification pipe will be rejected and nothing will be paid to the contractor for the same.
13. The entire pipe line before actual commissioning shall be thoroughly disinfected and flushed in accordance with standard practice
14. Welding:-
  - a) The electrodes to be used for welding shall conform to IS 814-1991 latest with upto date amendments and shall be of over cord S type of Advani / Oerlikon makes.
  - b) Slipon flanges shall be welded on the pipes with size of the leg of fillet weld equal to  $1.4(T)$ , where "T" is the thickness of pipes.

- c) Seal welding shall be provided to all flanges with at least two passes using 3mm electrodes.
- 21 Flanges:- flanges with nut and bolts will be confirming to IS 6392-1971 latest with upto date amendments and table as indicated in the schedule of quantity.
- 22 Gaskets:- Compressed asbestos fiber 3mm thick shall confirm to IS 2712-1979 latest with upto date amendments of Hindustan/Farrado make and ISI marked.
- 23 The firm shall quote rate for the required thickness as provided in the schedule of quantity.
- 24 The item of providing, laying& jointing of pipes shall be measured and paid including all bends, short pieces, nipples& Tee etc.
- 25 The butt welding shall be done in three layers as follow with the specification.  
1. Root layer  
2. Filler coat.  
3. Seal coat.
28. After the root coat the testing of pipes shall be done with DPT( Die penetration test) on each joint to ensure that there is no leakage.

**General Conditions:**

- a. Issue of Material::**
- i. **Cement & steel:** At issue rate of Rs. 263/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from each bill & steel will be issued free of cost from divisional store.
- ii. **GI pipes:** GI pipes & fitting will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- b.** The contractor shall be responsible for watch and ward of material issued to him and in the event of any theft or loss, the recovery will be made at the double cost of store issue rates.
- c.** The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- d.** The rates should be inclusive of all prevalent taxes of Center or State .
- e.** The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- f.** Only mechanically crushed stone aggregates shall be used in concrete work.
- g.** The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall be final in selection of quarry and contractor will bring the material from that approved quarry.
- h.** 1% (One percent) Labour cess (Non refundable) will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and Sales Tax etc.

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