

## **Annexure-A**

### **Terms and Conditions**

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 firm shall arrange dispatch of offered pumps and motors to the consignee direct from the manufacturers/ their authorized dealers of the pumping machinery for which the supply order/ indent has been placed by the firm. The packing slip should indicate the details of materials in the package and material of construction of pumps and motors.
3. 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.
4. The firm shall supply the recommended list of spares and quantities required for normal working of the pumping machinery (Two years) from the manufactures of the aforesaid equipment at the time of quoting rates and shall quote items rate for the same also.
5. The firm shall supply the manufacturer's manual for the operation and maintenance of the pumping equipment.
6. The firm shall arrange operation and maintenance training to the operating staff for the pumping machinery (without extra cost) for a period of seven days i.e. during the testing period.
7. The characteristics curves of the pumping machinery shall be uploaded with the offer.
8. 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.
9. The installation of pumping machinery above 100 HP shall be inspected by the technical representative of the manufacturers, of rank not less than that of a service Engineer, at the work site and inspection certificate shall be supplied to the Engineer-in-charge. This inspection shall be in addition to the test report and nothing extra shall be paid on this account.
10. 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.
11. 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.

12. 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.
13. The rates shall be quoted only on B.O.Q.
14. The location of site can be ascertained from the concerned Assistant Engineer & the rates quoted by the firm shall be inclusive of all mechanical and manual transport within all leads and lifts to the site of work.
15. All the equipment/material shall conform to the relevant BIS specifications wherever applicable and in its absence to any accepted National/ International standards.
16. The general specifications of the work shall conform to HP.PWD/Punjab PWD specifications as per direction of the Engineer-in-charge.
17. The validity of the tender shall not be less than 120 days.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. The contractor/firm will engage professionals who have requisite qualification/sufficient experience in operation of pumping machinery and should be able to understand the advice/directions from the department officers. The firm shall submit to the department the name and qualification and experience of each professional deployed.
24. The contractor/firm shall fulfill/satisfy all conditions of labour department as per labour laws and shall be responsible for any labour complaints.

25. Log books for each pump shall be maintained separately for regular record of time and hours of run, discharge shall be kept by the contractor/firm and got it checked from Engineer-in-charge fortnightly.

### **Rising Main:**

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 firm has to give its working schedule for various components before start of work and get same approved from Engineer-in-charge.
4. 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.
5. L-sections/plan of the pipe line can be seen in the Divisional office at any working day.
6. The firm shall make all the arrangements for working in night hours (if required) at its own cost.
7. 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.
8. The rates of all items should be inclusive of the carriage of all the material with in all lead and lifts to the site of works.
9. 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.
10. 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.
11. The contractor will be responsible for watch and ward of materials at site of work.
12. 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.
13. 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.
14. Before the pipe is lowered in to the trenches, it should be ensured that even bedding is provided for pipe line. The pipe shall be lowered progressively with the help of necessary tools as per site conditions. Care be taken to see the longitudinal seam on the consecutive pipe are staggered by at last 30 ° and should keep in the upper 1/3 radian of the pipe.
15. All pipes shall under go mil test pressure and tensile test at manufacturers works as per standard and a certificate to this effect shall be provided by the contractor before the release of the first installment of payment
16. The hydraulic test pressure after laying shall not be less than 2.25 time the actual working pressure
17. The entire pipe line before actual commissioning shall be thoroughly disinfected and flushed in accordance with standard practice
18. The contractor shall endorse the order placed to the principal manufacturers i.e the quantity order and also the dispatch documents by the principal manufacturer to the supplier to ascertain the quality of the material
19. **Welding:-**

- a) The electrodes to be used for welding shall confirm 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 In case MSERW pipes of required thickness stipulated in the schedule of quantity are not in the manufacturing range, the firm may quote rate for (+/-)tolerance as approved by ISI. But nothing extra shall be paid for (+)side tolerance. The rate for (-)side tolerance will be decided accordingly. In case the pipes are supplied in (-)side tolerance, recovery will be effected for the difference of weight of pipes required and pipes supplied on the basis of their rates.
- 25 The contractor from DGS&D/RITES/Det Norske Veritas/Bureau Veritas/SGS/M/S Quality service & solutions will carry out third part inspection of MSERW pipes and the charges on account of such inspection shall be paid by the contractor.
- 26 The item of providing, laying& jointing of pipes shall be measured and paid including all bends, short pieces, nipples& Tee etc.

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### **Terms and conditions of civil works:-**

<b>1</b>	The work shall be executed as per HPPWD/IPH specifications and to the entire satisfaction of the Engineer-in-charge.
<b>2</b>	The cement, steel shall be issued by the department, Cement @ Rs.312/- per bag and steel @ Rs. 4921/- per qtl. from IPH Store Anni on proper indent.
<b>3</b>	G.I Pipe shall be issued free of cost from I&PH Divisional store Anni on proper indent.
<b>4</b>	Any loss of by way of theft or mishandling to the pipes issued by the Deptt. Shall be liability of the contractor and the recovery shall be effected from the contractor at panel rates determined on the basis of store issue rates prevailing at the time of issue of pipe.
<b>5</b>	The contractor shall be fully responsible for watch and ward of the material at site of work.
<b>6</b>	Final payment will be released after successful testing of scheme and removal of all unwanted material from the campus of head works & Pump house etc. and nothing shall be paid for rejected material.
<b>7</b>	The contractor shall be responsible for any accident caused during the construction of the work and the loss if any will be born by the contractor.
<b>8</b>	Security, Income Tax, GST as applicable and labour cess @ 1% shall be deducted from the bill of the contractor.
<b>9</b>	Crushed stone aggregate shall be used in all concrete work.

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