

Schedule of quantity							
Name of Work :- Taping of new source LIS Sohal in GP Nehra Tehsil suni Distt. Shimla HP.						Estimated cost Rs.2,55,961/-	
(SH:-S/E of Submersible pumping machinery &. Laying jointing & testing of 150 mm dia. G.I pipe (M) Rising main at booster stage) BASP						Earnest Money Rs.5100/-	
						Time:-Six months	
S.No.	Description of items.	Qty	Offered	Rate		Unit	Amount
				(in fig.)	(In word)		
1	<p>Providing and Installing submersible pump conforming to ISS 9034-1976 along with a directly coupled submersible type squirrel cage electric induction motor suitable for operation on 440-V-3 phase 50 CPS AC supply with water lubricated bearings, provided with pivoted segment type thrust bearings to with stand vertical pressure with minimum wear and tear and with device to take up the expansion of water with heating of motor complete in all respects including entire carriage of materials upto all leads and lifts complete in all respect.</p> <p>Discharge : 8.16LPS</p> <p>Total Head =48.87 metres</p> <p>Dia of Rising main= 150mm</p> <p>Length of Rising main= 135.00 meters</p> <p>Pumping Hour = 20 Hour</p>	1	Sets of 12.50 HP.			P/ HP	
2	<p>Providing and fixing sutibale DOL starter of MEI/Kilburn/Seimens/L&amp;T make as per IS 8544-1979 with up to date amendments mounted on panel board with megistic type over load release voltage release,Amp meter volt meter complete in all respects.</p>	1				Each	
3	<p>P/L suitable size copper PVC insulated armoured power three and half core cable conforming to BIS 1554(Part-I)-1988 latest with up to amendments of siemen/ Gloster /ICC/National/IEC make from meter of HPSEB to circuite breaker &amp; from circuit braker to bus bar switch and starter(one cable carrying all three phases including all others electrical equipment/accessories such as thimble,flexible pipe,solder,nuts and bolts cable glands etc laid in pipes or trenches under floor the type size and make will be subjected to approved of HPSEB authorities in case of non acceptance by the tender free of cost of size(60mtr length for each job) complete in all respects.</p>	50				Per meter	

4	Providing and fixing heavy duty house pipe of green colour of 150mm dia of superior quality complete in all respects.	30				Per meter	
5	Excavation in foundation & trenches etc.in earth work for pipes up to all depths in all classification of earthwork such as pick work, jumper work, saturated soil including bailing or pumping out water, blasting soft/hard rock or chiseling soft / hard rock where blasting is prohibited in all lifts including jungle clearance wherever required, trimming & dressing of sides, leveling of beds to correct grade including shoring/struting, planking, timbering & dewatering wherever required stacking the useable/unuseable material/soil seperately & after laying, jointing & testing of pipes, returning the useable soil in trenches in 15 cm layers including consolidating of such deposited layer by ramming & watering & then disposing of all surplus excavated soil/unuseable material as directed with in all leads & lifts including restoration of un-metalled surfaces to its original condition & including cost of diversion for traffic, night signals, fixing caution boards, crossing over trenches for access to houses, fencing etc. complete in all respects with-in all leads & lifts as per directions of the Engineer Incharge (0.70+0.60)/2x0.90 X 135= 135x0.585=78.975cum. Only 50 % Excavated = 39.49 Cum	39.49				P/Cum	
6	Laying / Jointing & testing in trenches to be leveled to grades,IS marked GI pipes GMS ( Heavy / Medium grade) of following diameters conforming to IS 1239-1991 ( PartII ) latest with up to date amendments ) having minimum wall thickness as for class of pipe specified below jointed with pipe conforming to tables as specified below of BIS 6392-1971 ( Latest with up to date amendments ) butt. welded at Both ends according to relevant BISstandards & detailed specifications complete in all respect of technical specifications as per site conditions including flushing, cleaning & hydraulic testing complete to the best satisfaction of Engineer in charge.						
	From To Length Nominal dia class of pipe Table						
	0- 135 135 150 GI pipe(M) 5	135				P/Rmt	
	Booster Stage						

7	Providing , Welding and Fixing of M.S. Flanges ISI marked conforming to IS : 6392-1971 capable of with standing the test pressure of 1.60 N/mm2 welded on both sides with the pipe complete with nut & 3 mm thcik ferrado gasket . The welding is conforming to IS : 3183-1986. including hydraulic testing at site and painting with anticorreshive pasint in side and outside confirming to relevant specification . the work shell be done including all leads and lifts as per entire satisfaction of Engineer - in - Charge.							
	From To Length Nominal dia class of pipe Table							
	0- 135 135 150 GI pipe(M) 5	22	Pairs			P/Pair		
	(Rs.	)Only				Total:-		

**TERMS AND CONDITIONS for Rising main.**

- 1 10% Security will be deducted from each bill.
- 2 Income tax & GST will be deducted as per the relevent clause of agreement
- 3 The work will be executed as per HP PWD/IPH specification and as per the direction of the Engineer-in-Charge.
- 4 Payment will be made after satisfaction of the Engineer-in-Charge as per the relvent clause on receipt of bill from
- 5 The material shall be issued for bonafied use at work alloted to the contractor.
- 6 The work shall be executed as per direction of Engineer-in-Charge.
- 7 The contractor is fully responsible for watch and ward of material as issued to him
- 8 The un-used material issued by the Department if not returned shall be recovered at double the department rate.
- 9 The site shall be inspected by the tenderer before his offer.
- 10 The offer shall be including all transportation charges upto site of work.
- 11 The offer shall comply with technical specification and shall conform to specified standard nominal bore out side diameter,
- 12 The pipes shall under go a mile test pressure and tensile test at manufactures work as per standard and a certificate to
- 13 The hydraulic test pressure after laying shall not be less than 1.5 times the actual working pressure.
- 14 The entire pipe line before actual commissioning shall be thoroughly disinfected and fleshed in accordance with standard prac
- 15 The validity of the offer shall remain open for a period of 90 days from the opening date of tender.
- 16 5% payment (amount) shall be duducted from each running bill for testing and same will be released after testing of rising
- 17 The welding of both side of ipe i.e. one layer inner side and 2 layer outer side of pipe. The thickness of welding shall not

18 Alignment of pipe can be shifted / changed as per site condition during execution of work nothing shall be paid extra for any change  
19 GMS pipe medium grade 150 mm dia will be issued to contractor from IPH store Suni free of cost .  
20 Flanges of different table as specified in schedule of quantity provided by the firm including all leads & lifts.  
TERMS AND CONDITIONS for 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  
2 The firm shall arranged dispatch of offered pumps and motors to the consignee direct from the manufacturers/their  
3 The shop test for the pumps and motors shall be carried out at manufacturer's works in the presence of representative of  
4 The firm shall supply the recommended list of spares and quantities required for normal working of pumping machinery (2  
5 The firm shall supply the manufacturer's manuals 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  
7 The characteristic curves of the pumping equipment shall be supplied with the offer otherwise the tender shall be rejected.  
8 The firm shall supply layout drawing in respect of various components, such as suction pipes, valves, cable trenches control  
9 The installation of pumping machinery above 100HP shall be inspected by the technical representative of the  
10 All the civil work shall be constructed by the department.  
11 The wiring and installation of electric equipment shall be as per HPSEB rules and regulation and subjected to the approval  
12 The temporary electrical connection, if required during installation shall be arranged by the firm its own cost and energy  
13 Pipes of all the items shall be FOR site of work inclusive of all leads and lifts and shall be Inclusive of all charges of  
14 The rates shall be quoted only on the format of schedule of quantities which is attached with the tender document giving all  
15 The rates offered for, the specified makes in the schedule of quantities only shall be considered. Rates quoted for part and  
16 All the equipments/materials shall conform to the relevant IS specifications wherever Applicable and in its absence to any  
17 The general specifications of work shall conform to Punjab PWD/HPPWD specifications as per direction of the Engineer-in-  
18 The validity of the tender shall be not less than 90 days otherwise the tender shall be summarily rejected  
19 All the equipment shall be guaranteed against any manufacturing defect including metallurgy and its performance for a  
20 The installed pumping machinery and other allied accessories shall be tested daily for stipulated Pumping hours in the NIT  
21 80% (eighty percent) payment of the cost of pumping machinery and equipment less 10% security and other statutory  
22 90% (ninety percent) installation charges shall be released after satisfactory installation of all the pumping and electrical

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Executive Engineer,  
Jal Shakti Division. Suni,  
Distt. Shimla HP.