

SCHEDULE OF QUANTITY

Name of work: C/O Balh Valley (Left Bank) Medium Irrigation Project in District Mandi. (SH:- Providing Semi-Permanent Sprinkler Irrigation System to village Sihan from Tube well No-8).

Estimated Cost : Rs. 10,19,902 /- only.

Earnest money : Rs. 20,400 /- only.

Time limit : Three months.

S.No	DESCRIPTION OF ITEMS	Qty.	UNIT	RATE		AMOUNT
				In fig.	In words	
1	Excavation in foundation and trenches (For pipes and pits) up to all depths and in all classification of earth work such as pick work, jumper work, saturated soil including bailing or pumping out of water, blasting soft or hard rock or chiselling or wedging out of soft/hard rock , where blasting is prohibited, in all lifts including trimming and dressing of sides, levelling of beds to correct grade including shoring, strutting , planking, timbering and dewatering where ever required. Stacking usable and unusable material/soil seperately and after laying, jointing and testing of pipes, returning the usable soil in 15cm layers by ramming and watering and then disposing of all surplus excavated soil/ unusable material as directed within all leads/ lifts including restoration of unmetalled surfaces to its original condition and including cost of diversion for traffic, night signal boards, fixing caution boards, crossing over trenches for access to houses, fencing etc. complete in all respects within all leads and lifts as per direction of the Engineer-in-charge.	1203.12	Per cum			
2	Providing and fixing MS chamber of size 450x450x 600 mm of MS plate 2 mm thick duly painted with red oxide paint & welded with angle iron frame of 25x25x3mm thick size and also providing extra length of 150mm of same angle (as TEE) in bottom of all four legs for embedding in cement concrete and top opening of MS sheet cover will be provided with hinges and locking arrangement etc. complete with provided with holes for accomodating pipes to the entire satisfaction of the Engineer-in-charge.	45	Each			
3	Providing , laying , jointing and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments of following OD pipes, material grade and class of pipes. The jointing of pipes should be done by way of butt fusion welding as per relevant IS Code and specifications including required fittings complete in all respect.					
(i)	110mm OD pipe, PE-80, 4.00 Kg./Sqcm	900	Per meter			
(ii)	90mm OD pipe, PE-80, 2.50 Kg./Sqcm	60	Per meter			
(iii)	90mm OD pipe, PE-80, 4.00 Kg./Sqcm	360	Per meter			
(iv)	75mm OD pipe, PE-80, 2.50 Kg./Sqcm	240	Per meter			
(v)	75mm OD pipe, PE-80, 4.00 Kg./Sqcm	180	Per meter			
(vi)	63mm OD pipe, PE-80, 4.00 Kg./Sqcm	300	Per meter			
4	Providing and installation of 63 mm dia hydrant in MS chamber for attachment of farmers potable system including GI riser pipe, P.P. ball valve, 63mm pump connecting nipple, GI tee, GI nipple (as per requirement of main and sub main lines) and plain concrete grouting for GI TEE and Riser pipe.	45	Each			
5	Supplying of 50mm dia coupled HDPE potable pipes to withstand pressure of 4 kg per sqcm conforming to IS: 14151 (Part-II): 1999 latest with uptodate ammendments.					
a.	6 meter long	405	Each			
b.	3 meter long	90	Each			

S.No	DESCRIPTION OF ITEMS	Qty.	UNIT	RATE		AMOUNT
				In fig.	In words	
6	Providing HDPE duly coupled Bend of 50mm dia of reputed make conforming to IS: 14151 (Part-II): 1999 latest with upto date ammendments complete in all respect within all leads and lifts, as per the best satisfaction of Engineer-in-charge.	90	Each			
7	Providing HDPE duly coupled equal TEE of size 50x50x50mm of reputed make conforming to IS: 14151 (Part-II): 1999 latest with upto date ammendments complete in all respect within all leads and lifts, as per the best satisfaction of Engineer-in-charge.	90	Each			
8	Providing HDPE duly coupled End cap of 50mm dia of reputed make conforming to IS: 14151 (Part-II): 1999 latest with upto date ammendments complete in all respect within all leads and lifts, as per the best satisfaction of Engineer-in-charge.	90	Each			
9	Providing Brass Sprinkler Nozzle with full circle, for 12-18 meter radius of throw at a pressure of 1-2.5 kg per sqcm with discharge of 0.4-0.6 LPS of reputed make conforming to IS:12232 (Part-2) -1996 & Part-1): 1995, complete in all respect within all leads and lifts, as per the best satisfaction of Engineer-in-charge.	225	Each			
10	Providing HDPE Sprinkler attachment of 50mm dia of reputed make conforming to IS: 14151 (Part-II): 1999 latest with upto date ammendments complete in all respect within all leads and lifts, as per the best satisfaction of Engineer-in-charge.	90	Each			
11	Providing and fixing of GI/HDPE Foot Baten Assembly of size 50mmx3/4" of reputed make conforming to IS: 14151 (Part-II): 1999 latest with upto date ammendments complete in all respect within all leads and lifts, as per the best satisfaction of Engineer-in-charge.	90	Each			
12	Providing horizontal spindle self priming Centrifugal pump of recommended make such as Kirloskar/KSB as per BIS-1520-1980 latest with upto date ammendments having casing ring and shaft sleeves of bronze, shaft of steel grade EN-8 with Air cooled Kirloskar /Sonalika make diesel engine including 3meter suction/ Delivery hose pipe to withstand 1.5 times the operating pressure. The power of engine should be at least 10% in excess of the maximum power required by the pump in the operation range of (+) 10% and (-) 15% of the duty point head. The engine should be as per IS: 5514 with up to date amendments. It should include cost of standard accessories including tools and equipments, starting handle fuel tank etc complete and should meet the following requirements:- Total Dynamic Head:- 13 Meters. Discharge (Q):- 7.50 LPS	1	Each			
TERMS AND CONDITIONS						
1	The work will be executed as per IPH/PWD specifications and to the entire satisfaction of Engineer-in-charge.					
2	Security, Income Tax, Sale Tax, will be deducted from the contractor as per relevant clause.					
3	Nothing shall be paid to the contractor for Sub-standard work/material.					
4	The firm shall supply the manufacturers manual for the operation and maintenance of the Diesel Engine pump set.					
5	The firm shall test run the system for a minimum period of 7 days and after successful running the final payment will be released.					
6	Prices of all items shall be FOR site of work inclusive of allcharges of transportations, insurance, packing, taxes and duties such as sales tax, excise duty and local tax etc.					
7	All the equipment material shall confirm to the relevant BIS specifications wherever applicable and in absence to any accepted National / International standards.					
8	The firm/contractor shall arrange third party inspection of pipes from approved agency for which nothing extra will be paid.					
9	1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and Sales Tax.					



Executive Engineer
IPH Division Baggi