

SCHEDULE OF QUANTITY						Estimated Cost Rs :-173827/-			
Name of work:- Prov. LWSS to PC Hab. Shil in GP Majhewer tehsil Suni Distt Shimla HP						Earnest Monty Rs :- 3480/-			
Sub-Head:- Providing & laying ,jointing of MSERW pipe 32 mm dia for R/Main.)						Time :- 3 Months			
S.No	Description of items.	Quantity.		Rates. In fig.	. In Words.	Unit.	Amount.		
1	Excavation in foundation trenches etc for laying of pipe line pits etc.up to all depth in all kinds of soils including road cutting at any saturated soil , road blasting or by chiseling soft or hard rock where blasting is prohibited in all lifts stacking the excavated soil not more than 3mtr.clear from the edge of excavation & then returning the excavated soil after laying, jointing & testing of pipes in 15 cm layer when required in to plinth side of foundation etc. consolidating each deposited layer by ramming & watering& then disposing of all surplus excavated soil as directed in all leads & lifts including excavated mateled / unmetaled paved surfaces & restoration of the same to its original shape & condition including cost of diversion for, traffic night signal fixing caution board, crossing over trenches for access to houses wetering, fencing etc. complete in all respect as directed by the Engineer in Charge.	427.50	Cum			Per Cubic Metre.			
2	Providing laying & jointing in trenches 32 mm dia nominal size MSERW pipe conforming to IS - 1978-1982 ISI marked including flanged bends of all the degrees as per site requirement. The pipe shall be grade YST 210 Standred grade with wall thickness of 4.9 mm plain and wt of 4.51 kg /rmt. with test pressure of minimum 100 KPA with ISI marked flanged conforming IS-6392-1971 table 38 capable of with standing test pressure of 10N/mm2 welded on both sides with nuts & bolts & 3mm thick farredo make gasket. The welded is to be conforming to IS -3138-1986 (Earth work in trenches to be measured & paid for separately) including hydraulic testing at site & painting with anticorrosive paint in side & outer side as per the direction of Engineer in Charge.	480.00	Rmt.			Per Rmt.			
3	Laying ,Jointing & testing in trenches 32mm dia galvanised mild steel of (Heavy grade) as per ISI -1239 (Part-I) 1990 including bends of all degrees fabricated from parent tube (Earth work in trenches and flanged to be measured and paid for separately) 32mm dia	90	Rmt.			Per Rmt.			
4	Laying ,Jointing & testing in trenches 32mm dia flanged galvanized mild steel of (Midium grade) as per ISI -1239 (Part-I) 1990 including bends of all degrees fabricated from parent tube (Earth work in treches and flanged to be measured and paid for separately) 32mm dia	570	Rmt.			Per Rmt.			
5	Providing & fixing MS flanges ISI marked confirming to IS-6392-1971 table-17 & Table -28 capable of with standing the test pressure of 1.6N/mm2 & 4N/mn2 respectively welded on both sides of 32mm GMS pipe (Medium & Heavy class) complete with nuts and bolts and 3mm thick ferredo gasket . The welding is confirming to IS-3138-1986 including Hydraulic testing at site and painting with anticorrosive paint inside and outside								
	From RD 720 to 1140	Table -17	70	Pair		Each Pair			
	From RD 480 to 720	Table -28	40	Pair		Each Pair			

TERMS AND CONDITIONS

- 1 10% Security will be deducted from each bill.
- 2 Income tax & sale tax will be deducted as per the relevant clause of NIT
- 3 The work will be executed as per 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 billing schedule attached and as per the relevant clause on receipt of bill from contractor.
- 5 The material shall be issued for bonafied use at allotted 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 issue rate.
- 9 The site shall be inspected by the tenderer before his offer and the offer shall be i/c all transporation . charges upto site of work.
- 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 the specified standard nominal bore out side dia meter , wall thickness, weight per meter etc shall be clearly given .
- 12 MSERW pipe shall under go a mild test pressure and tensile test at manufacturers works as per standard and a certificate to this effect shall be provided by the tenderers before the release of the 1st installment of payment.
The hydraulic test pressure after laying shall not be less than 1.5times the actual working
- 13 pressure
- 14 The entire pipe line before actual commissioning shall be thoroughly disinfected and fleshed in accordance with standard practice.

- 15 The validity of the offer shall remain open for a period of 120 days from the opening date of tender.
- 16 The pipe(MSERW)shall be ISI marked and the test certificate from the manufacturing unit will be supplied before release of payment.
- 17 The pipe will be got inspected through one of the third party i.e. RITES/ DEINOR SAKE VARITAS/BUREU UVARITAS LOYDS & DGS&D, certificate to this effect will submitted to the E.E. alongwith the supply of pipes.
- 18 5% payment (amount) will be released after testing of rising main.
- 19 The GI pipe Heavy & Medium class will be issued free of cost at Divisional store against indent
- 20 The contractor have provide and fix flanges with in his negotiated rates
- 21 The welding of both side of pipe i.e. one layer inner side and 2 layer outer side of pipe. The thickness of welding shall not be less than 1/3 of the thickness of flanges.
- 22 5% amount with held from each bill for testing of Rising main till testing of scheme successfully.
The cost bends manufactured from parent tube shall be paid extra.

R/M/1-110/

Executive Engineer,
I&PH Division,Suni,
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