

SCHEDULE OF QUANTITY						Estimated Cost:- Rs. 423555/- only	
Name of work :- PLWSS to PC habitation Dhiundhar , Lehra and Jaral in GP Lower Rewalsar (SH:- C/O Bore well 80 mtr. Deep).						Earnest Money:- Rs 8480/- only.	
						Time Limit:-Three months.	
S.No.	Sub-Head and item of work.	Qty.		UNIT	RATE		Amount
					In fig.	In words	
1	Transporation of suitable truck/ tractor mounted where only road available DTH along with necessary accessories etc. complete in all respect as per the direction of Engineer-in-charge.	1.00	Each	Per Nos.			
2	Drilling of bore of 200mm dia as per specification laid down in IS-2800-1979 using precussion/ clayx/RC /ODEX / Method required for drilling in collapsible starta conglomerate boulders pebbles sand gravel silt clay etc including cost of attechments extractable casing consumbale store bits water, POL gravel pack in annular space etc. complete in all respect and as per the direction of Engineer-in-charge.	80	Mtr.	Per Mtr.			
3	Supplying and lowering of IS marked 175mm dia MSERW plain end casing pipes as per IS-4270-2001 with upto date amendments in a length of 3 mtrs i/c cost of cutting welding transporation charges complete in all respect and as per the direction of Engineer-in-charge.	80	Mtr.	Per Mtr.			
4	Providing and fixing suitable casing shoe and bit tube as per requirement of ODEX attachment complete in all respect and as per the direction of Engineer-in-charge.	1.00	Each	Per Nos.			
5	Collection and preservation of soil samples in polythene bags complete in all respect and as per the direction of Engineer-in-charge.	1.00	Each	Per Nos.			
6	Development of bore well and yield testing with air compressor through V-noatch and disinfection etc. complete in all respect and as per the direction of Engineer-in-charge.	1.00	Each	Per Nos.			
						Total:-	

Term and conditions:

- 1 The work should be executed as per IPH/HPPWD specifications and as per relevant IS codes.
- 2 The rates should be inclusive of carriage of materials in all leads and lifts to the site of work.
- 3 The contractor will 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 rates.
- 4 Nothing will be paid for sub standard materials.
- 5 Security as applicable and 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and **GST as applicable.**

Executive Engineer
IPH Division Baggi

SCHEDULE OF QUANTITY

Name of Work:- A/R and M/O LWSS Gharbasra Bairkot in GP Bairkot in Tehsil Balh District Mandi (HP)			Estimated Cost:- Rs.337500/ only			
of centrifugal Pumping Machinery)			Earnest money:- Rs 6750/only			
			Time limit:- Three months			
S.No	Descriptions of item	Quantity	Rate		Unit	Amount
			In Figures	In words		
1	2	3	4	5	6	7
1	Providing of horizontal spindle, horizontal/ radial split casing / end suction (backpull out arrangement) Single/Double/Multistage centrifugal pumps OR combination of pumps ,in series/parallel of recommended make such as KSB/Maher & Platt/ Kirloskar /beaconweir/BE/Grundfos pump/LUBI pump as per BIS 1520-1980 with upto date ammendment read with IS 9137 -1978 OR latest edition suitable for lifting water for under maintained characteristics with bronze impeller/priming funnel,casing ring and shaft sleeves or bronze, shaft of steel with cast iron casing couple directly through a flexible coupling on a common CI / Cast steel base plate (base plate to be from the manufacturer of the pumping unit only) to slipping/squirrel cage screen protected drip proof induction motor/motors of standard make such as kirloskar /BHEL /NGEF/ GEC/Crompton /Siemen/Marathon/ABB and suitable for operation on 415(+/-) 5% volts,50 cycles/second, 3 phase AC electric supply.The power of electric motor/motors should be atleast plus 15% in excess of the maximum power required by the pump/pumps in the operation range of plus 10% and minus 15% of duty point head. The motor/motors as per IS 325-1978 with upto date ammendment read with IS 900 - 1972. It should include cost of bearing , nuts ,volts and painting etc and should meet the following requirements.	2sets			Per SET	
A) SITE CONDITIONS						
i. Location of site :- Gharbasra						
ii Thre altitude of place in which the motor is intended to work in ordinary service if it exceeds 1000mtrs:- Altitude of place is 1278 m above MSL						
iii. Humidity:-Weather generally remains humid during monsoon season.						
iv Nature of atmosphere :-As normally encountered in Shivalik Ranges.						
v. Detail of quality of water :-Clear cold water upto 50PPM						
vi Water free from sand or not :- Yes						
vii Water corrosive or not :-No						
viii Turbidity (if any) :- Clear cold water (upto 50PPM)						
ix NPSH available :-N.A.						
x. Any other information or requirement :-						
B OPERATING CONDITIONS						
i. Type of current :-A.C Three/Single phase.						
ii. Operating frequency:-50 HZ						
iii. Rated voltage :-400(+ / -) 10% volts.						
iv. System of earthing if any to be adopted:-Double loop earthing as per BIS-3043-1987 latest with upto date ammendments.						
v. No. of working hours per day:- 4 Hours.						
vi Speed of revolution in RPM:-To be quoted by tenderer.						
vii Direction of rotation:- To be quoted by tenderer.						
viii The max. Temp. of cooling air & water in the place in which the pumpset is intended to work in ordinary service.-25 degree centigrade.						
C MOTOR						
i. Ref. to BIS code:- BIS 325-1978 raed with BIS 900-1992 (latest) with upto date ammendments.						
ii Type of enclosure of motor :-SPDP (As per BIS 4691-1985, Latest).						
iii. Type of duty :-Continuous.						
iv. Mechanical out put in KW :- Suitable for driving submersible pumps required for duties specified against pumps. To avoid overloading of motor a margin of about 15-20% may be kept in the rated out put of prime mover.						
v. Class of insulation:-Class-B/F						
vi. Max. permissible temp. rise of motor reqd. if different from that given in B (viii) above.:- To be specified by the tenderer.						
vii. Particulars of test required & where they are to be conducted:- As per terms & conditions attached.						
viii. Particulars as to whether voltage limiting device will be employed:-ATS/Star Delta starter oil immersed, fully automatic to be installed between bus bar chamber & motor. Shunt capacitor is also proposed to be installed for improving the power factor at site.						
NOTE:- Start delta starter upto 37.5KW& ATS for 37.5 KW to 50KW & stator rotor starter with slip ring motor beyond 50 KW.						
ix Motor whether squirrel cage or slipring :-Squirrel cage.-Note:- Squirrel cage upto 65HP & slipring above 65HP						
x. Details of shaft extension required:- Just sufficient to provide direct drive by flexible coupling to pump.						
xi. Type of slipring gear whether continuously rated or for starting purposes only and whether to be fitted with brush lifting or short circuiting arrangements or both if interlocks are required:- Continously rated for squirrel cage motor.						
xii. Breakway torque in terms of rated load torque & the corresponding breakway starting current which may be taken from the supply with the starting apparatus in circuit.:-Breakway torque to be given by the tenderer but the starting current should not exceed 2.5 times of the full load current.						
xiii. Nature of load & any information regarding the driven machine which has a bearing upon the torque required during the accelerated period. The kinetic energy of the moving parts to be accelrated & No. of starts during a specified period.:-To work the pump offered.						
xiv. Where possible fault capacity of the system to which the motor is connected.:- The motor should be able to withstand initial current of 2.5times the rated current for two minutes without suffering damages of permanent deformations.						
D PUMPS:BIS 1520-1980,READ WITH BIS 9137-1978 BOTH LATEST WITH UPTO DATE AMMENDMENTS.						
a Nos of pumps required:- 2 No. pumps (One in working and one will act as stand by).						

b	Spare parts required :-For Two years normal maintenance as recommended by manufacturer.					
c.	Optional fittings reqd:-Air cock for exhausting air from each stage.					
C	Pump operating conditions.					
i.	Capacity:- 4.21 LPS/ Set					
ii.	Total head in Mts.:- 254.32 Mtrs.					
	(If total head in not known then following details be provided):					
i.	Static Head :- 235.50m					
ii.	Minimum depth of water:-.....Mtrs.					
iii.	Variation in water level:-.....Mtrs.					
iv.	Ground level to max. water level:-.....Mtrs.					
v.	Ground level of delivery point :- 1515.00 Mtrs.					
vi.	Pressure in the suction tank:-Kg/sqcm					
vii	Pressure in the delivery tank:-Kg/sqcm					
iii.	Length of R/main:- 660 mtrs.					
iv.	Dia of R/main:- 80 mm Dia					
v.	Drive arrangement:- Direct through flexible coupling on a common base plate.					
vi.	Drive type:- Electric driven					
vii.	NPSH required:- To be quoted by tenderer.					
viii.	Limits of total head in which the pump is reqd. to operate.: (-)15% to (+) 10% of total head.					
ix	Suction/delivery size of pump:- To be specified by the tenderer.					
x.	Efficiency of pump at:- To be specified by the tenderer.					
	a. duty head.					
	b.(+) 10% head					
	c. (-)15% head.					
xi.	Material of construction:- To be specified by the tenderer(Manufacturers certificate to be appended).					

Rs

Terms and Conditions:-

- The work should be executed as per HPPWD/HPPWD ELECTRICAL specifications and as per relevant codes.
- The contractor will be responsible for watch and ward of all materials if issued to him by department.
- Nothing will be paid for sub-standard work/materials.
- All the rates should be quoted inclusive of carriage of materials to site of work in all leads and lifts.
- 1% Labour cess will be deducted on gross amount from each bill of besides other deductions such as income tax, surcharge on income tax and GST as applicable.
- Other terms and Conditions are attached as per annexure -A .**

**Executive
IPH Division**

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 manufactures/ 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 from 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 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 panel etc. from the foot valve location to the common header which shall extend up to 5 meters from the outer walls of the pump house towards 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 manufactures, 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. All the civil works shall be constructed by the department.
11. 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.
12. 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.
13. 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.
14. The rates shall be quoted only on the format of schedule of quantities which is attached with the tender document giving all specified data so desired therein.
15. The rates offered for the specified makes in the schedule of quantities only shall be considered. Rates quoted for the part or non specified makes shall lead to rejection of the tender.
16. 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.
17. All the equipment/material shall conform to the relevant BIS specifications wherever applicable and in its absence to any accepted National/ International standards.
18. The general specifications of the work shall conform to HP.PWD/Punjab PWD specifications as per direction of the Engineer-in-charge.
19. The validity of the tender shall not be less than 90 days, otherwise, the tender shall be summarily rejected.
20. 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 / 15(fifteen) 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.
21. 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.
22. 80% (Ninety percent) payment of the cost of pumping machinery and equipment less 20% 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 10% 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.
23. 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.

**Executive Engineer,
I&PH Division Baggi.**

SCHEDULE OF QUANTITY				Estimated Cost:- Rs. 374028/-only		
Name of work:- Out Sourcing of Vehicle in IPH Division Baggi Tehsil Balh Distt, Mandi HP (SH:- Hiring of Bolero to Model Jeep for 12 Months)				Earnest money:- Rs.7500/-only		
				Time Limit :- 12 Months		
Sr.No	Sub-Head and item of work	Qty	Unit	Rate		Amount
				In Fig	InWord	
1	Hiring of Bolero Top Model Jeep for inspection of Divisional Jurisdiction/office work as per the satisfaction of the Engineer-in-charge.	12	Month	per Month		
2	Extra KM when hired for more than prescribed KMs i.e. after 1500 Km by taking approximately 300Km per month.	3600	Km	Per Km		
3	Extra per hour when hired for more than prescribed hours for a day or a months i.e. 20 hours extra for a month	240	Hours	Per Hours		
4	Night halt charges per night. (3 Night halts for a month)	36	Night Halt	Per Night Halt		
Total:-						

TERMS AND CONDITIONS.

- 1 The service provided contract is applicable only to those vehicles which are registered in his (Service providers) name
- 2 The rates are inclusive of petrol/diesel, Paymen of Driver,taxes or toll tax levies and night halt etc
- 3 The contractor shall be responsible for repair and maintenance of vehicle
- 4 The rate are fixed monthly charges upto 1500Km & 9 Hours per day.
- 5 The extra KM for more than prescribed Kms for the month, per Km be paid extra.
- 6 The extra per hour when hired for more than prescribed hours for a day, per hour be paid extra.
- 7 Night halt charges per night be paid extra, per night halt.
- 8 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on

Executive Engineer
IPH Division Baggi

SCHEDULE OF QUANTITY						
Name of work:- Improvement of Balh Valley (Right Bank) Medium irrigation Project Zone No-1 in Tehsil Balh Distt Mandi.(SH:- Replacement of MSERW pipe 250mm dia Sakroha lift-1st RD 400-4500m and 2nd lift 200mm dia RD 560-660m and demolition & C/O cement concrete foundation for Pumping Machinery).					Estimated Cost:- Rs.492930/-only	
					Earnest Money :- Rs.9900/-only	
					Time Limit:- Three months.	
S.No	Sub-Head and item of work.	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.	101.25	cum	Per cum		
2	Providing , laying, jointing and testing of MSERW pipe of following dia meters conforming to ISO 3183-2007, of following steel grade (latest with upto date amendments) and having wall thickness as specified below with plain end and capable of withstanding required test pressure in a random length of 4 to 7 meters, including manufacturing specials, reducers/ tapers , all short pieces, bends etc. as per site requirement made from parent tubes, provided and welding of M.S.Flanges detailed as below. The M.S.Flanges shall conform to BIS 6392-1971(with latest upto date amendments) duly welded in three layers (one inner and two outer) with pipes at both ends as per relevant BIS standards along with nuts and bolts of required sizes, 3mm thick compressed asbestos fibre/synthetic rubber gaskets conforming to revant BIS standards. The laying of pipe will also include all operations such as cutting, welding, jointing, providing and fixing of MS flanges, fabrication of bends, tees including lowering & laying in excavated trenches to ensure required level i/c flushing, cleaning and hydraulic testing complete in all respects to the satisfaction of the Engineer in charge. The fabricated bends shall have three or four cuts having its radius not less than five times the dia of pipe. The pipes shall be factory galvanized (zinc coating both inside and outside) as per relevant IS standards and the damaged portion of the pipes and specials (if damaged during laying jointing operation of pipe) made form the parent tube , shall be provided anticorrosive treatment by applying two coats of anticorrosive bituminous paint over a priming coat as per AWWA specifications C-203-1978. The welding electrodes shall be as per IS 814 of Advani Oerlikon/ L&T or ISI marked make. The rates also includes entire carriage of materials, flushing, cleaning & hydraulic testing of flanged welded joints complete in all respect in all leads and lifts and to the best satisfaction & direction of Engineer in charge . (Earth work in					
a)	250mm dia MSERW pipe duly galvanised, flange table-5, wall thickness- 4.80 mm thick .	50.00	meter	Per meter		
b)	200mm dia MSERW pipe duly galvanised, flange table-5, wall thicfkness 4.80 mm thick	100.00	meter	Per meter		
2	Demolition below Ground level upto floor two level including disposal of unserviceable materials within all leads and lifts including cutting the necessary reinforcement and seperating out from RCC/RB work in all leads and lifts as per the entire satisfaction of Engineer-in-charge.	14.352	Rmt	Per Rmt		
3	Providing and laying cement concrete 1:2:4 (1cement:2sand : 4graded stone aggregate 20mm nominal size)and curing complete excluding cost of form work and re-inforcement in foundation & plinth within all leads and lifts as per the direction and satisfaction of Engineer in charge.	14.352	Cum	Per Cum.		
4	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair finish i/c centring , shuttering , strutting and propping etc. with wooden battens and ballies, height of propping and centring below supporting floor to ceiling not exceeding 4m and removal of the same for insitu- reinforced concrete & plain concrete work in :-					
(a)	Vertical surfaces such as walls (any thickness), partitions and the like including attached pillars, buttress,plinth and string courses and the like in all leads and lifts as per the direction and satisfaction of Engineer-in-charge.	12.72	Sqm.	Per Sqm.		
						Total:-

Term and conditions:-

- The cement will be issued @ Rs.225 per bag, on recoverable basis from Divisional store Baggi.
- The rates of all items should be inclusive of all taxes and carriage of all material with in all leads and lifts to the site of work by all
- The work will be carried out as per HPPWD/ IPH specifications and as per relevant IS/BIS- code & CPHEEO Manual and as per
- Nothing will be paid for Sub-standard work/Materials.
- 1% Labour cess will be deducted on gross amount from ech bill besides other deductions such as income tax, Surcharge on

Other conditions As per Annexure -A attached.

**Executive Engineer
IPH Division Baggi**

TERMS AND CONDITIONS

- The alignment of pipe line is subject to change as per site conditions. Most suitable and mechanically feasible alignment as per directions of Engineer-in-charge shall be followed at site

2. All machinery/ equipment required for laying of pipe line will be arranged by the contractor /firm.
3. The Firm has 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
5. L-Section/ plan of the pipes 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 metalled/ unmetalled road , streets, paths and to any other structure during the execution of work by the firms will be restored to its original conditions by the
8. The rates of all items should be inclusive of the carriage of all the material with in all leads and lifts to the site of work.
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.
11. No. and location of air valves and scour is tentative and is subject to change as per site requirement. Actual location shall be decided by Engineer-in-charge and payment shall be made
12. The contractor will be responsible for watch and ward of materials at site of work.
13. 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.
14. 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.
15. Before the pipe is lowered into 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
16. 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
17. The hydraulic test pressure after laying shall not be less than 2.25 time the actual working pressure.
18. The entire pipe line before actual commissioning shall be thoroughly disinfected and flushed in accordance with standard practice.
19. 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
20. 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 will conform to IS 6392-1971 latest with up to date amendments and table as indicated in the schedule of quantity. The flanges facing and contract surface finish shall
22. GASKETS:- Compressed asbestos fiber 3mm thick shall conform to IS 2712-1979 latest upto date amendments of Hindustan/Farrado make and ISI marked.
23. Bolts:- Bolts of carbon steel shall conform to IS 1364-1983 latest with upto date amendments.
24. The firm shall quote rate for the required thickness as provided in the schedule of quantity other wise tender will not be accepted.
25. In case pipes of required thickness stipulated in the schedule of quantity are not in the manufacturing range, the firm shall be paid for (+) side tolerance. The rate for (-) side tolerance
26. The contractor from DCS & D/ RIOTS will carry out third party inspection and the charges on account of such inspection shall be paid by the contractor.
27. The item of providing and laying MSERW pipes shall be measured and paid for straight portion only excluding bends.

Executive Engineer
IPH Division Baggi