

SCHEDULE OF QUANTITY

Name of work :-Providing 8Nos tube well in Nachan constituency in District Mandi (HP) (SH:-
C/O 1 No. Tube well(T-3), 125Mtr deep for Muhal Dadoh,)

Estimated Cost:- Rs.960150/- only

Earnest Money:- Rs. 19210/- only

Time Limit:- Three months

S.No.	Description of items	Quantity	Rate		Unit	Amount
			In figures	In words		
1	Transportation of Rig along with allied accessories etc. complete including erection and levelling at site, through all kinds of roads, approaches, fields etc. in all leads and lifts up to site of work complete in all respects as per the direction of the Engineer-in-charge.	1 No.			Each	
2	Earth work in foundation for digging tube well in all kinds of soil including dewatering, soring, strutting from ground level to 5 mtrs, including disposing of excavated soil in all leads and lifts complete in all respect as per the direction of the Engineer-in-charge	5 cum			Per cum	
	(a) Percussion drilling or Rotary rig					
3	Drilling of bore as per specification laid down in IS-2800-1991(part-1) with upto date amendments if any with percussion Rig, direct rotary or combination drilling Rig starting with 650-600mm dia MS pipe reduced to 450-400mm dia MS pipe conforming to IS-4270-2001 with upto date ammendments, if any , in all kinds of soil such as boulders , rocks , collapsible strata, saturated soil, artesian condition including the cost of consumable stores, water, fuel , lubricants and other accessories etc. complete in all respect and as per the direction of the Engineer-in-charge.					
(a)	(i) 5 to 30 mtrs	25 Mtrs.			Per mtr.	
(b)	(ii) 30 to 60 mtrs.	30 Mtrs.			Per mtr.	
©	(iii) 60 to 100 mtrs.	40 Mtrs.			Per mtr.	
(d)	(iv) 100 to 125 mtrs.	25 Mtrs.			Per mtr.	
4	Collection , preservation and display of suitable size sample box with top lid & locking arrangement till handing over of the tube well to the department complete in all respect as per the direction of the Engineer-in-charge.	1 No.			Each	

S.No.	Description of items	Quantity	Rate	Unit	Amount
5 (a)	<p>Supply and lowering IS marked electric resistance welded MS pipe 300mm diametre nominal size housing 8 mm thick having out side diametre 323.90 mm screwed and socktted conforming to IS specification No.4270-2001 with upto date amendmets , if any , in a random length of 4 mtrs to 7mtrs , welded without any circumferential joints into bore hole in vertical position including cost of all scaffolding, derricks, poles clamps and embedded in foundation etc including cost of all cutting, threading and welding of pipes etc with in all leads and lifts complete in all respect as per the direction of the Engineer-in-charge.</p>	49.00 Mtrs.		Per mtr.	
5(b)	<p>Lowering at site Electrical resistance welded (ERW) stainless steel cage type V-wire wound screens of size 300mm, 8mm thick with slot opening 1.0mm as per IS-8110-2000 with upto date ammendments if any and material specifications as per AISI (American iron and steel Inst.) type Grade SS-304 in suitable length as per site conditions including the cost of SS socket 8mm thickness of length 140mm conforming to AISI grade 304 suitable to accommodate screen and ring including jointing screen with blind pipe complete in all respect including cost of all scaffolding,darricks, poles,clamps embedding in foundation etc including cost of all cutting , threading and welding of pipes etc within all leads and lifts complete in all respect as per the direction of the Engineer-in-charge. Screen will be of continuous trapezoidal wire spirally wound around fabricated cage.</p> <p>The wrapping wire having a "V" shaped (Wedge) profile wire with flat surface on the outside and producing expanding slots on the inside of various dimesions, resistance welded to a cylindrical body made of number of longiludinal special high tensile support rods to provides smooth unrestricated bore which are in turn welded into cylindrical ring coupling on both side of screens.(V-wire and socket will be issued by the department free of cost from sub divisional store Baggi).</p>	3.50 Mtrs.		Per mtr.	
6	<p>Providing and fixing MS taper / reducer as per length approved by the Engineer-in-charge. The material of MS taper/ reducer shall be equivalent to parent pipe material and shall conform to checmical composition as per clause 5.2 and mechanical properties as per clause 6.1 and table -1 of IS4270-2001 with upto date ammendments any complete in all respect as per the direction of the Engineer-in-charge.</p>	1 No.		Each	

S.No.	Description of items	Quantity	Rate	Unit	Amount
7a	Supply and lowering of IS marked electric resistance welded MS pipes 200mm dia nominal size housing 6.4mm thick having outside diameter 219.10mm screwed and socketed conforming to IS 4270-2001 with upto date ammendments if any in a random length of 4 mtrs to 7 mtrs welded without any circumferential joints into bore hole in vertical position including cost of all scaffolding,derricks, poles clamps embedded in foundation etc including cost of all cutting, threadings, and welding of pipes etc within all leads and lifts complete in all respect as per direction of the Engineer-in-charge.	62.50 Mtrs.		Per mtr.	
7b	Lowering at site Electrical resistance welded (ERW) stainless steel cage type V-wire wound screens of size 200mm , 6.4 mm thick will slot opening 1.0mm as per IS-8110-2000 with upto date ammendments if any and material specifications as per AISI (American iron and steel inst.) type grade SS-304 in suitable length as per site condition including the cost of SS socket 8mm thickness of length 140mm conforming to AISI grade 304 suitable to accommodate screen and ring including jointing screen with blind pipe complete in all respect including cost of all scaffolding , darricks, poles , clamps embedding in foundation etc including cost of all cutting,threading and welding of pipes etc within all leads and lifts complete in all respect as per the direction of the Engineer-in-charge. Screen will be of continuous trapezoidal wire spirally wound around fabricated cage. The wrapping wire having a "V" shaped (Wedge) profile wire with flat surface on the outside and producing expanding slots on the inside of various dimesions , resistance welded to a cylindrical body made of number of longitudinal special high tensile support rods to provide smooth unrestricted bore which are in turn welded into cylindrical ring coupling on both sides of screens. (V-wire and socket will be issued by the department free of cost from sub divisional store Baggi).	10 Mtrs.		Per mtr.	
8	Providing and fixing M.S centralized guides at suitable spacing for each tube well as per IS-226-1991 with uptodate ammendments if any within all leads and lifts 1x4 Nos complete in all respect as per direction of the Engineer-in-charge.	5 Nos.		Each	
9	Supply, lowering and fixing in position IS marked mild steel bail plug of 200mm / 300mm dia meters with "U" hooks as per ISI-2800-1991 with upto date ammendments, if any within all leads and lifts as per the direction of the Engineer-in-charge.	1 No		Each	

S.No.	Description of items	Quantity	Rate	Unit	Amount
10	Providing and fixing in position welded iron cap with locking arrangement of approved design to prevent foreign matter from getting into bore hole as required within all leads and lifts complete in all respect as per direction of the Engineer-in-charge.	1 No		Each	
11	Providing and packing of gravel consisting of hard quartz or other suitable material with an average specific gravity of not less than 2.5 not containing more than 2% by weight of thin flat or elongated pieces shall be of sub rounded pr rounded grains with minimum angular features of size 2- 3.35 mm & shall be free from impurities such as shafe, shales, mica, felspar , clay, sand, dirt, loam beamatte and organic material as per IS-4097-1967 with upto ammendments if any around intake of tube well within minimum thickness of shroud around screen generally 100mm to the entire depth of the bore as per IS 2800 (Part.I) 1991 with upto date ammendments if any within all leads and lifts complete in all respect as per direction of the Engineer-in-charge.	125 Mtrs.		Per mtr.	
12	Extraction of all sizes blind /casing pipes with machine starting from the bottom of the bore hole with in all leads and lifts complete in all respect as per the direction of the Engineer-in-charge.				
	a) In contact with soil	125 Mtrs.		Per mtr.	
	b) Freely hanging	128 Mtrs.		Per mtr.	
13	Development of tube well by back washing method , with air compressor of minimum 750CFM capacity pumping pipe of 200mm size and air line of minimum 65mm size or with other suitable method, till the well is thoroughly delveoped as per clause 4.2 of IS-11189-1985 with upto date ammendments if any. complete in all respect as per the direction of the Engineer-in-charge.	25 Hours		Per hour	
14	Development of tube well by continuous over pumping method with VT pump /submersible pumps of suitable capacity not less than double the discharge established by the compressor method /design discharge until the well is sand free as per IS-11189-1985 with upto date ammendments. if any, complete in all respect as per direction of the Engineer-in-charge. The draw down and discharge to be established by running the VT /submersible pump continously for 8 hours in the presence of officer not less than the rank of Assistant Engineer.	20 Hours		Per hour	

S.No.	Description of items	Quantity	Rate	Unit	Amount
15	Testing the verticality of the tube well as per clause 4.3 of IS-2800 (Part-II) 1979 with upto date ammendments, if any using plumb or plunger 6mm smaller in dia within the inside diametre of the well casing.The results of the verticalty test shall be recorded on proforma shown in appendix A of IS-2800(Part.II) 1979 with upto date ammendments, if any, as appended with the tender documents and handed over complete in all respect as per the direction of the Engineer-in-charge.	1 Job		Each	
16	Dismantalling of the Rig and other allied accessories after completion of job within all leads and lifts complete in all respect as per the direction of the Engineer-in-charge.	1 Job		Each	
17	Construction of barbed wire enclosure of minimum of size 2.5x2.5m to safe guard the bore of tube well with angle iron of size 40x40x6mm , 1.5mtr in height embedded in concrete block of 30x30x30cm in all leads and lifts complete in all respect as per the direction of the Engineer-in-charge.	1 Job		Each	

Total:-

NOTE:-

V-wire screen & scokets will be issued by department from IPH store

Baggi free of cost.

TERM AND CONDITIONS ARE AS PER ATTACHED ANNEXURE"A"

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