

SCHEDULE OF QUANTITY

Estimated cost 261268.00

Earnest money: 5225.00

Time: 1 year.

Name of work: - Construction of Community Centre in Gram Panchyat Dangar in Tehsil Ghumarwin Distt. Bilaspur (HP).(VKVNY)						
Sr.No.	Description of items.	Qty	Unit	Rate		Amount
				In fig	In words	
1	Excavation in foundations, trenches etc. in earth work, lift upto 1.50 mtrs stacking the excavated soil not more than 3 mtrs.clear from the edge of the excavation and then returning the stacked soil in 15cm layers, when required into plinths sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed within all leads and lifts complete in all respect and	9.72	Cum.			
2	Providing and laying cement concrete 1:5:10 (1 cement,5 sand,10 graded stone aggregate 40 mm nominal size)and curing complete excluding cost of form work in foundation and plinth in all leads and lifts	6.6	Cum			
3	Providing and laying cement concrete 1:2:4 (1cement,2 sand,4 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in foundation and plinth with in all leads and lifts complete	4.16	Cum			
4	2nd class brick work using common burnt clay building bricks in supper structure above plinth upto floor two level in cement mortar 1:6(1cement:6sand) including carriage of materials in all leads & lifts	9.2	Cum			
5	Providing wood work of 2nd class deodar wood in frames of doors,windows,clerestory,windows and other frames wrought, framed and fixed in position complete including carriage of materials in all leads & lifts	0.27	Cum			
6	Providing and fixing panelled glazed or panelled and glazed shutters for doors,windows and clerestory windows i/c bright finished/black enamelled iron butt hinges with necessary screws 2nd class deodar wood 40mm thick including carriage of material in all leads & lifts	8.7	Sqm			
7	Providing laying cement concrete 1: 2: 4 (1 cement:2 sand: 4 graded stone agg. 20mm nominal size)and curing complete excluding cost of form work and reinforcement for reinforced concrete .Suspended floor roofs landing and shelves and their support balconies ,beams griders pressumers and cantilevers upto floor two level with in all leads and lifts complete in all respect	8.48	Cum			
8	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a rough finish including centering, shuttering, strutting and propping etc. with wooden battens and ballies height of propping and centering below supporting floor to ceiling not exceeding 4 mtrs and removal of the same for in situ reinforced concrete and plain concrete work in:					
8.1	Sides and soffits of beams,beam haunchings, cantilevers,bressumers and lintels not exceeding 1 Mtr. in depth in all heights from floor complete in all respect.	72.26	Sqm			
8.2	Flat surfaces such as soffits of suspended floors, roofs, landing and the like floors etc. upto 200mm in thickness as per direction and to the entire satisfaction of the Engineer-in-Charge	27.73	Sqm			
9	Providing mild steel/tor steel reinforcement for RCC work including bending, binding and placing in position complete upto floor two level.	926.5	Kgs.			
10	Providing and laying cement concrete 1:6:12 (1 cement:6 sand:12 graded stone aggregate 40mm nominal size) and curing complete excluding the cost of form work in foundation and plinth in all leads and lifts	2.71	Cum			
11	Stone /boulder filling behind the retaining wall in all leads and lifts complete in all respect.	3.05	Cum			

12	Providing and laying cement concrete 1:2:4 (1 cement:2 sand:4 graded stone aggregate 20mm nominal size)flooring laid in one layer finished with a floating coat of neat cement 40mm thick	28	Sqm			
13	15mm cement plaster in single coat on rough side of brick/stone masonry for interior plastering upto floor two level i/c arrises,internal rounded angles,chamfers and/or rounded angles not exceeding 80mm in girth and finished even and smooth cement mortar 1:6 including carriage of material in all leads & lifts.	114.14	Sqm			
14	6mm thick cement plaster to ceiling in CM 1:3 (1 cement:3 sand)	35.74	Sqm			
15	Finishing wall with water proofing cement paint of approved brand and manufacture and of required shade on decorated wall surfaces (one coat) to give an even shade after thoroughly brushing the surface to remove all dirt, loose or softened paint.	55.85	Sqm			
16	Distemping with dry distemper of approved brand and manufacture(Two coats)and of required shade on undecorated wall surface to given an even shade over and including primer coat of whitening after thoroughly brushing the surface free from mortar droppings and other foreign matter including preparing the surface even and sand papered smooth with in all leads and lifts	58.29	Sqm			
17	Providing and fixing MS square/round bars 16mm in windows and ventilators	78.3	Kgs.			
18	Painting two coats(excluding priming coat) on new wood and wood based surface with ready mixed paint brushing the give and even shade including cleaning of all dirt dust and other foreign matter and sand papering and stopping with ready mixed paint other than white in all leads and lifts	20.88	Sqm			
19	Providing and fixing anodized alminium sliding door bolts anodized transparent for type required and bright shade with necessary screw etc. complete. 250x16mm	1	Each			
20	Providing and fixing aluminium tower bolts (Barrel type) anodized transparent or dyed to required shade and colour with necessary screw etc. complete in all leads and lifts. 200x10mm	2	Each			
21	Providing and fixing aluminium tower bolts (Barrel type) anodized transparent or dyed to required shade and colour with necessary screw etc. complete in all leads and lifts. 100x10mm	12	Each			
22	Providing and fixing Aluminium handles anodized transparent or dyed to required colour of shade with necessary screws etc. complete 125mm	2	Each			
23	Providing and fixing Aluminium handles anodized transparent or dyed to required colour of shade with necessary screws etc. complete 100mm	6	Each			

TERMS AND CONDITIONS

- 1 The work shall be done as per IPH/PWD specifications and to the entire satisfaction of Engineer in charge.
- 2 The cement will be issued to the contractor @ Rs 227/P/bag and steel @ Rs. 5058 /- Per qtl at Divisional store Ghumarwin
- 3 Standard deduction viz sale tax @ 3% ,income tax @ 1% ,labour cess @ 1% and security as applicable etc. shall be deducted from each running account bill of the contractor.
- 4 The rates are inclusive of all type of carriage of material in all leads and lifts and other taxes.
- 5 Below specifications material/ work shall be rejected and nothing shall be paid on this account.

- 6 Only crushed aggregate shall be used for RCC work.
- 7 The contractor shall be responsible for watch and ward of the material issued to him against proper indent.
- 8 The unused material shall be returned back to the store otherwise recovery shall be effected on penal rates.
- 9 Sand shall be used from approved quarry.
- 10 The empty bags have to be returned to the department other wise recovery will be made @ Rs.2/- per bag.
- 11 The arrangement of water for construction work has to be made by the contractor at his own level and nothing shall be paid to him on this account.
- 12 The firm /Contractor shall submit the copy of valid EPF No. at the time of tender otherwise the same shall be straightway rejected.

Executive Engineer,
I&PH Division,
Ghumarwin.
Estimated cost: 186082.00
Earnest money: 3725.00
Time 1 month.

SCHEDULE OF QUANTITY

Name of A/R & M/O to various hand pumps under IPH sub-division Kalol in Tehsil Jhandutta Distt. Bilaspur (HP). (SH: Flusing of 14		Qty.	Unit	Rate	Amount.
Sr.No.	Description of item.			In fig	In words
1	Transportation of suitable Rig/Truck mounted DTH and ODEX /Percussion/Calyx/RC drilling rigs along with necessary accessories etc. to the site of work and erection of rig including leveling etc. complete in all respect as per direction of the Engineer in charge	14	Each		
2	Removal of un-screwed riser pipes from bore well complete in all respect including all leads and lifts.	14	Each		
3	Removal of connecting rods, plungers valve assembly changing of sritrile brackets, rubber sealing rings, and re-fixing complete in all respect including all leads and lifts.	14	Each		
4	Re-development of bore with air compressor alongwith complete assembly complete in all respect including all leads and lifts.	14	Each		
5	Re-fixing of screwed and fallan riser pipes from bore well complete in all respect including all leads and lifts .(Labour rate)	14	Each		
6	Supply and lowering IS marked new riser pipes, medium class screwed and socketed and welded as per IS 1239 (Part-I) 1990 with upto date ammendments,electric resistance welded including cost of all cuttings ,threadings and welding whenever required in a randam length of 3 mtrs inclusive of transportation charges to the site complete in all respect as per direction of the Engineer in charge. The seamless sockets shall be provided as per IS: 13056-1991.				
6.1	32mm dia GMS pipe	50	Rmt		
6.2	65mm dia GMS pipes	40	Rmt		
7	Replacement of un-serviceable cylinder etc. of INDIA mark-II , III & Murti make complete in all respect including all leads and lifts including cost of cylinder,washers and O rinas etc. complete.				
7.1	Mark-II	4			
7.2	Mark-III	3			
8	Replacement of existing uncerviceable connecting rods up to 3 mtrs length in hand pumps as per site conditions complete in all respect as per the direction of the Engineer in charae includinga cost of connectina rods	50	Each		

TERMS AND CONDITIONS

- The work shall be assigned on slection cum performance basis to each selected contractor/firm.
- The accessories pipes, coupling etc. shall be ISI marked.
- The height of the internal welded projection shall not exceed 0.5m on the out side,the weld should not rise more than 2mm above the
- The pump and accessories shall be guaranteed for 12 months from the date of installation against bad workmanship/bad material. The like
- The hand pump shall be tested as per requirements of IS 13056-1991 and IS 9301 and its upto date ammendments. The discharge of
- The development of the bore shall be continued for minnum period of one hour and till the time the well does not yield clear water of
- The work shall be carried out as per IPH specification and to the entire satisfaction of Engineer in charge.
- Nothing shall be paid for reject work/material.

- 9 The contractor shall be responsible for watch and ward of material lying at site of work.
- 10 The final payment shall be released after successful testing of hand pumps.
- 11 The gurantee for repairing hand pumps will be for a period of 12 months.
- 12 10% security 2% income tax and 2% sale tax will be deducted from each running bill of the contractor.
- 13 Dismantalled material may be taken into MAS account.
- 14 The rates are inclusive of all carriage in all leads and lifts.
- 15 1% labour cess will be deducted from the bill of contractor.
- 16 The firm /Contractor shall submit the copy of valid EPF No. at the time of tender otherwise the same shall be straightway rejected.

Executive Engineer,
I&PH Division,
Ghumarwin.

SCHEDULE OF QUANTITY

Estimated cost 118021.00

Earnest money:2360.00

Time: 3 months.

Name of work: - Construction of Community center in Gram Panchayat Luharwin at village Mehran (near Temple) in Tehsil Ghumarwin Distt. Bilaspur (HP).(VKVNY)						
Sr.No.	Description of items.	Quantity	Unit	Rate		Amount
				In fig	In words	
1	Excavation in foundations, trenches etc. in earth work, lift upto 1.50 mtrs stacking the excavated soil not more than 3 mtrs.clear from the edge of the excavation and then returning the stacked soil in 15cm layers, when required into plinths sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed within all leads and lifts complete in all respect and	2.46	Cum.			
2	Providing and laying cement concrete 1: 6 :12 (1 cement:6 sand: 12 stone aggregate 40 mm nominal size)and curing complete excluding cost of form work in foundation and plinth.	2.09	Cum			
3	Providing and laying cement concrete 1:5:10 (1 cement,5 sand,10 graded stone aggregate 40 mm nominal size)and curing complete excluding cost of form work in foundation and plinth in all leads and lifts	1.64	Cum			
4	Providing and laying cement concrete 1:2:4 (1cement,2 sand,4 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work an mainforement for RCC work in foundation and footins in all leads and lifts	3.69	Cum			
5	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a rough finish including centering, shuttering, strutting and propping etc. with wooden battens and ballies height of propping and centering below supporting floor to ceiling not exceeding 4 mtrs and removal of the same for in situ reinforced concrete and plain concrete work in:					
5.1	Vertical surfaces such as walls (any thickness) portions and the like including attached pilasters buttresses, plinth and string courses and the like in all leads and lifts.	9.06	Sqm			
6	Providing mild steel/tor steel reinforcement for RCC work including bending, binding and placing in position complete upto floor two level.	276.75	Kg			
7	Fixing GI pipe 100 mm dia (M-Class) as a vertical post with in all leads and lifts.(LR).	18.6	Rmt			
8	Steel work in single section including cutting, hoisting fixing in position and applying a priming coat of red lead paint (in RS joists,angle channels and tees etc. in flat).					
8.1	Welding of MS base plate and fillet with 100mm dia GI pipe complete.	6	P/Joint			
9	Steel work welded in built up tubular(round, square or ractangular hollow tubes etc) including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, including wqelding and bolted with special shaped washers etc. complete for trusses	480.05	Kg			
10	Providing and fixing 0.60 mm thick prepainted steel sheet in roofing with hot dipped metallic zinc coated of regular modified polyster (RNP) organic coating of 20micron primer coating of polyster of 5 micron primer coating i/c fixing with prepainted iron J or hooks bolts and nuts 8 mm diameter with bitumen and Limpet washers filled with white lead complet excluding the cost of purlin refters and trusses	37.26	Sqm			
11	Prov. Ridge hips 60 cm over all in plain with prepainted steel sheet fixed J and L hooks bolts and nuts 8 mm dia G.I. impet and bitumen washers complete.	6.75	Rmt			

12	15mm cement plaster in single coat on rough side of brick/stone masonry for interior plastering upto floor two level i/c arrises, internal rounded angles, chamfers and/or rounded angles not exceeding 80mm in girth and finished even and smooth cement mortar 1:3 (1 cement: 3 sand) including carriage of material in all leads & lifts.	9	Sqm			
13	Stone /boulder filling behind the retaining wall in all leads and lifts complete in all respect.	2.37	Cum			
14	Providing and laying cement concrete flooring 1:2:4 (1 cement:2 sand:4 graded stone agg. 20mm noiminal size) laid in one layer finished with a floating cost of neat cement 40mm thick	22.25	Sqm			

TERMS AND CONDITIONS

- 1 The work shall be done as per IPH/PWD specifications and to the entire satisfaction of Engineer in charge.
- 2 The cement will be issued to the contractor @ Rs 227/P/bag and steel @ Rs. 5058 /- Per qtl at Divisional store Ghumarwin
- 3 Standard deduction viz sale tax @ 3% ,income tax @ 1% ,labour cess @ 1% and security as applicable etc. shall be deducted from
- 4 The rates are inclusive of all type of carriage of material in all leads and lifts and other taxes.
- 5 Below specifications material/ work shall be rejected and nothing shall be paid on this account.
- 6 Only crushed aggregate shall be used for RCC work.
- 7 The contractor shall be responsible for watch and ward of the material issued to him against proper indent.
- 8 The unused material shall be returned back to the store otherwise recovery shall be effected on penal rates.
- 9 Sand shall be used from approved quarry.
- 10 The empty bags have to be returned to the department other wise recovery will be made @ Rs.2/- per bag.
- 11 The arrangement of water for construction work has to be made by the contractor at his own level and nothing shall be paid to him on this account.
- 12 The firm /Contractor shall submit the copy of valid EPF No. at the time of tender otherwise the same shall be straightway rejected.

Executive Engineer,
I&PH Division,
Ghumarwin.

Estimated cost: 253125.00

Earnest money: 5015.00

Time: 3 months

Schedule of Qty

Name of work: -

A/R & M/O LWSS Bhaba Kotla in Tehsil Jhandutta Distt. Bilaspur (HP) (SH: Replacement of old pumping machinery with (SH: - S/E of 45 HP centrifugal pumping machinery with allied accessories complete)

Sr No.	Description of items.	Specific ations ffered.	Quantit y.	Rates in Rs.		Unit	Amount	
				Figures /	Words			
1)	Supply of submersible pumping set of Crompton/Kirloskar/ KSB /Calama /SU/ Johnstion make comprising to latest relevant BIS Code. The pump should be fitted with bronze impeller of suitable alloys as per IS 8034-1976/ IS 5659 - 1970 latest suitable for Clear water having greased packed bearings and shaft with wound stator on motor side and with soft protection sleeve on pump side ensuring better life for shaft coupled to a submersible squirrel cage electric induction motor (water proof type) of required HP, RPM 2900 / 1450 of reputed make conforming to IS 9283-1979 latest with upto date amendments, totally dust and water proof for submersible duty isolated from the pump by intermediate casing with double mechanical seal in oil chamber and grease packed lubricated bearings and provided with stainless steel thrust bearing plate to with stand non vertical loads with minimum wear and tear. It should also be fitted with a device to take up expansion of water with the heating of motor. The pump set should include water level guards, erection clamps , cable clips and depth gauge etc. and suitable for operation on data given below:-	(a) pumps: Specifications (i) Make (ii) Model (iii) No's of Stages stage (iv) Material manufac ures certificate to be appende d Performa nces (i) Head (H) (ii) Discharg e (Q) (iii) BHP absorbed (iv) Efficiency	1 No.			Per HP		
	IS: 325-1978 with up to date amendments read with IS: 900-1972. It should include cost of bearing nuts, bolts and pointing etc. and should	(b) Motors: (Specification)						
	Discahrge (Q) : -			Total	3.60	LPS P/set	(i) Make. 1 No	
				Or		2.37 m3/hr		
	Total dynamic head :				375.00	Mtr.	(ii) Mod el	
	(a) LWL in sump well (h) :			P/well 6tmrs		Mtr.	(iii) Moto r rating (KW)	
	(b) Shaft level :					Mtr.	(iv) Spee d	
	(c) Level at discahrge point :					Mtr.	(v) Insula tion	
	(d) Suction lift :					Mtr.		
	(e) Residual head :					Mtr.		

(f) Static head :	312.5	Mtr.						
(i) Rising Main :								
(a) Length	2850	Mtr.	(c) Coupling;	2 Nos.				
(b) Dia. :	65	mm	(d) Base plate.	2 Nos.				
(iv) Pumping Hours :	8	Hours						
(v) Altitude of installation above MSL :	550.00	Mtr.						
(vi) Characteristics of water :								
(a) Temperature :		⁰ C						
(b) Ambient temperature		⁰ C						
(c) Turbidity		PPM						
(d) Alkalinity		Mg/Ca CO ₃						
(e) Size of the solids		mm						
(f) Other								
2) Providing ICTP Switch with HRC fuses OR Change over switch (for LWSS) for providing connections from HPSEB Meter to switch 32 Amp. The capacity of switch shall be at least 200% of total load of working motor(s) with upto date amendments			Switches	1 No.				Each
3) Providing M.S Sheet ,steel fabricated floor mounted closed (almirah type) panel board for suitable and above rating including MS Angle/ Channel mounting frame powder coated having separate compartments for incoming and out going equipments, internal wiring with 1.5 sq mm flexible copper wiring, thimbles ferrules etc complete capable of accomodating the following accessories [Note:- Starter Panels with following accessories shall be supplied one for each motor, and equal to number of motors if more than one motor is demanded]			Panel/Switch Board:	1 No.				Each
(a) TP MCCB of L&T/ABB/Schnider/Havells/Standard make suitable Amps [minimum twice the motor HP i.e. 32 Amps for 10.HP] and having breaking capacity 3.0 kA or higher capacity on incoming feeder.				1 No.				Each
(b) Earth fault relay (with shunt trip mounted on MCCB) of reputed make capable of tripping circuit on occurance of earth fault complete with CBCT				1 No.				Each.
(c) Selector switch for Amp and Volt meter				1 No.				Each.
(d) Digital VAF meter of Conserve/ L&T/ Schnider make 9 one meter having 3 separate digital display of Amp, Volt & frequency etc complete with set of 3 nos CTR .				1 No.				Each
(e) Bus Bar chamber with 3 1/2 copper strips for 3 phases and neutral rating of copper strip shall be equal to rating of incomer MCCB [Note : Suitability of copper strip for calculation of load shall be 1 sq mm = 1.6 Amps i.e. 25 x 5 sq mm strip shall be accepted for 200 Amps load] : 1 set				1 set.				Each
(f) LED type Three phase indicator lamps complete with toggle switches :				1 No				Each
(i) Havells/L&T make shunt capacitor upto 3.0 KVAR / capacitor bank above3.0 KVAR conforming to IS 2834 latest suitable for raising PF to 0.95 [for calculation purpose minimum PF of site to be considered at 0.75]				1 set.				Each set.
(g) Hour run meter of recommended make and suitable capacity as per IS 722 Latest.				1 No				Each
(i) Providing suitable oil immersed star delta starter of MEI/Kilburn make as per IS:8544-1979 with upto date amendment for squirrel cage motor mounted on panel board with megentic type overload release and dastop at time under voltage release with or without oil filling as the case may be with single phase preventer as per IS 1248-1983 with upto date amendments.				1 No				Each
4 a) Providing 100mm dia. circular dial pressure gauge of Fiebig make complete with all accessories such as stop cock, copper tubing etc. as per IS: 3624-1987 with up to date amendments range 0 - Kg/cm ²			(Pressure gauge)	1 No				Each
			(i) Make					
			(ii)Range :					
			Kg/cm ²					

	b) Providing 300mm dia. vacuum dial pressure gauge of Fiebig make complete with all accessories such as stop cock, copper tubing etc. as per IS: 3624-1987 with up to date amendments range 0 to 760 mm mercury	(Vacuum gauge)	1 No			Each	
		(i) Make					
	5 Installation of all the items appearing at Serial No. 1 to 4 as per the systematic drawing attached with the tender documents (Drg.No.1)		Job			LS	

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 manufacturers/authorised dealers of the pumps and motors to the consignees within 30 days after issue of the letter of intent/award by the engineer-in-charge. The copy of supply order/indent to the consignee should also accompany the dealership certificate of the dealer for the pumping machinery in case and motors are arranged from the authorised dealer.
- 2 The firm shall arrange dispatch of offered pumps and motors to the consignee direct from the manufacturers/their authorised dealer 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 the pumps and motors shall be carried out at contractor's 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 manufacturers 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 pumping machinery(2 years) from the manufactures of the aforesaid equipment at the time of quoting rates and shall quote item rates for the same also.
- 5 The firm shall supply the manufacturers manuscripts for the operation and maintenance of the pumping equipments.
- 6 The firm shall arrange operation and maintenance training to the operating staff for the pumping machinery without extra cost for a period of 7 days i.e.during the testing period.
- 7 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 upto 5 mtrs from the outer wall 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.
- 8 The installation of pumping machinery above 100HP shall be inspected by the technical representative of the manufacturer of rank not less than that of a services 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.
- 9 All the civil work shall be constructed by the department.
- 10 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 authorised officer. Any defect pointed out shall be rectified by the firm without any extra cost. The wiring and installation of all electric equipment shall be done by a licensed contractor of approved class of HPSEB and test report shall be got accepted from the HPSEB authorities on their approved format.

(Form D) for release of power connection by the firm without extra cost.

- 11 The temporary electrical 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.
- 12 Prices of all item shall be FOR site of work inclusive of all leads and lifts and shall be inclusive of all charges of transportation insurance, packing, taxes and duties such as sales tax excise duty and local taxes etc.
- 13 The rates shall be quoted only on the format of schedule of quantities which is attached with the tender documents giving all specified data so desired there in.
- 14 The rates offered for the specified makes in the schedule of quantities only shall be considered. Rates quoted for part and or non-specified makes shall lead to rejection of the tender.
- 15 The site of work is located at 3 km from Ghumarwin and 0.50 Km by head load lead is involved. The rates quoted by the firm shall be inclusive of all mechanical and manual transport within all leads and lifts.
- 16 All the equipment material shall conform to the relevant BIS specifications wherever applicable and in his absence to any accepted National/International standards.
- 17 The general specifications of work shall conform to Punjab PWD/HPPWD specification as per direction of the Engineer in charge.
- 18 All the equipments shall be guaranteed against any manufacturing defect including metallurgy and 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
- 19 The installed pumping machinery and other allied accessories shall be tested daily for 16 hours 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.
- 20 90% (ninety percent) payment of the cost of pumping machinery and equipment less 10% security and other statutory recovery shall be made after receipt of complete pumping machinery i.e. pump and motor alongwith accessories 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 deposit shall be released as stipulated in the agreement.

- 21 90%(ninety percent) installation charges shall be released after satisfactory installation of all pumping and electrical equipment. Remaining 10% of installtion charges shall be released after testing of the entire equipment.
- 22 1 % labour cess will be deducted from bill of the contractor.

Executive Engineer,
I&PH Division
Ghumarwin.