

SCHEDULE OF QUANTITY "

Name of work:- (1)

Providing water supply scheme to Nc habitation under WSS Tikkari Sagoor in Tehsil Palampur District Kangra(HP).

Estimated Cost:- Rs. 480000/-
Earnest Money:- Rs. 120000/-
Time:- Three Months.

(SH)Construction of 1 number Tube Well 80 metre deep in Village Banodu under sustainability of drinking water sources

Sr. No.	Description of items.	Qty.	Rate in Figure	Unit	Amount.
1	Transportation of Rig along with allied accessories etc. complete including erecting and leveling at site, through all kind of roads, in all leads and lifts complete. as per the satisfaction of Engineer-in-charge.	1 Job		Each	
2	Drilling of bores of 300 mm dia below ground level 0 to 80 metre in all kinds of soils, boulder, rock collapsible strata, saturated soil, artesian conditions including the cost of all consumable stores, water, fuel, lubricants and other accessories etc. complete in all respect within all leads and lifts as per the direction of Engineer-in-charge.	80.00 running metre		Per running metre	
3	Providing and lowering of mild steel casing pipe conforming to IS-4270-2001 with upto date ammendments, 200 milimetre dia having thickness of pipe 5.40 milimetre from 0 to 50 metres below ground level within all leads and lifts as per the satisfaction of Engineer-in-charge.	55.00 running metre		Per running metre	
4	Collection and preservation and display of suitable size sample box with top lid and locking arrangement full binding over of tube well to the department complete in all respect as per the satisfaction of Engineer-in-charge.	1 Number		Each	
5	Providing and lowering of mild steel pipe strainer 30.60 metre with area of opening about 17% to 18% confirming to IS:4270-2001 with upto date ammendments, 200 milimetre dia having thickness of pipe 5.40 milimetre within all leads and lifts as per the satisfaction of Engineer-in-charge.	35.00 metre		Per running metre	
6	Development of tube well by back washing method with air compressor of minimum 750 CFM capacity, pumping pipe of 125 milimetre size and air line of minimum 65 milimetre of with other suitable method, till the well is thoroughly developed as per clause 4.2 of IS-11189-1985, with upto date ammendments, complete in all respect as per the satisfaction of Engineer-in-charge.	8 Hours		Per hour	
7	Providing and fixing mild steel clamps complete in all respect as per the satisfaction of Engineer-in-charge.	1 Number		Each	
Terms and conditions:-					
a)	The location where bores shall be drilled for providing tube well shall be got approved specified from the Engineer-in-charge.				
b)	All arrangements for the transportation of drilling equipment to the site of work and operation i.e. Katcha tracks, approach road, water, electric light etc. If so required shall be made by the contractor himself at his own cost.				
c)	The department shall bea full liberty to tenderer a particular well. If the bore well abandones to any reasons i.e. on accuring hard rock strata, non availability of equipment or any other reason, the contracors shall be paid only hard drilling work. In this case the direction of the Engineer-in-charge shall be binding on the contractor. If the tube well remain unsuccessful due to faulty construction on the part of construction. Nothing to be paid to the contractor for the dirlling of tube well.				
d)	A gold silver oil other material any relies antiques and other similar things may be found in or upon the site shall be property of the Govt. and contractor shall deliver the same to the persons appointed by the Govt. from time to time.				

- e) The scope of the work can be increased and decreased by the Engineer - in-charge.
- f) The work shall be executed strictly in accordance with the IPH and ISI specification .
- g) Any damage done by the contractor to any public/private property during the course of construction/execution of the work.
- h) All the taxes and other incidental charges shall be borne by the contractor and nothing shall be paid to him on this account.
- i) All extracted material available during the time of execution shall be stacked properly as desired by the Engineer-in-charge.
- j) Tubewell assembly shall be got approved from Engineer-in-charge duly recommended from the Sr.Hydrogeologist ground water organisation before lowering.
- k) Contractor shall ensure un-interrupted execution of work.
- l) The firm contractor shall abide by the time schedule strictly and shall furnish fortnightly progress received by them to the Engineer-in-charge.
- m) The contractor shall be responsible for the Govt. material issued to him for use on the work and shall maintain proper account of the same this will be open for inspection by the department officer at any time.
- n) The rates are inclusive of all types of classifications of soils and as such no claim in respect in the classification shall be accepted.
- o) The contractor shall obtain order in writing from the Engineer-in-charge about the site where surplus excavated material will be disposed off.
- p) The royalty charges of stone sand, aggregate etc. used shall be deducted from the bill of the contractor at the rates prescribed by Govt. of Himachal Pradesh from time to time on the basis of quantity of such material required for finished work.
- q) The contractor must take all precautions to avoid accident by exhibiting day and night necessary caution boards speed limit boards, red flags, red light etc. He shall be responsible for all damages and accidents caused due to the negligence of his part. No hindrance shall be caused to traffic during execution of work.
- r) The contractor shall give complete postal, telegraphic address in tender and also leave the copy of the same in the office of Executive Engineer. All correspondence telegram etc. sent on above mentioned address duly accepted by postal authorities shall be deemed to have been served on the contractor from the date of its costing in respect of that the same may be returned to the postal authorities undelivered due to any reason but so ever charges in address shall be properly intimated to the office of Executive Engineer and acknowledgement received to that effect unless this is done of addresses shall remain effective.
- s) All the rates given above for drilling, lowering and development of tube well include the cost of carriage, handling insurance and transportation charges of plants and material to the site of work and back where required and nothing extra shall be paid to the contractor on this account.
- t) The site shall be carried out by the contractor strictly in accordance with the attached contract specifications and ISI specification as per IS-2800-Part-I-1991 IS 2800-Part-II 1979 and IS 8110-2000 with upto date amendments.
- u) The contractor/firm or his authorised representative shall in person see the proposed site for these works and study specification conditions before tendering.
- v) The contractor shall clear the site properly after the completion of the work within 15 days failing which penalty @ Rs.500/-per day will be imposed for 1st fortnight and Rs.1000/- for each subsequent day.
- w) Tender document shall be submitted by the contractor in one lot (duly sealed) and

subsequent correspondence before opening the tender shall not be entertained considered.

- x) The final payment shall be made to the contractor after handing over the tube well to entire satisfaction of Engineer-in-charge.

SCHEDULE OF QUANTITY "

Name of work:- (2)

Providing water supply scheme to Nc habitation Nanoun Ballah Nagehar in Tehsil Palampur District Kangra(HP). (SH)Construction of 1 number Tube Well 80 metre deep near Grovt. Primary School Bhatoo (Nalti).

Estimated Cost:- Rs. 480000/-
Earnest Money:- Rs. 12000/-
Time:- Three Months.

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Transportation of Rig along with allied accessories etc. complete including erecting and leveling at site, through all kind of roads, in all leads and lifts complete. as per the satisfaction of Engineer-in-charge.	1		Each	
2	Drilling of bores of 300 mm dia below ground level 0 to 80 metre in all kinds of soils, boul;der,rock collapsible strata, saturated soil,artesian conditions including the cost of all consumable stores, water, fuel, lubricants and other accessories etc. complete in	80.00		Per running metre	
3	Providing and lowering of mild steel casing pipe conforming to IS-4270-2001 with upto date ammendments, 200 milimetre dia having thickness of pipe 5.40 milimetre from 0 to 50 metres below ground level within all leads and lifts as per the satisfaction of	55.00		Per running metre	
4	Collection and preservation and display of suitable size sample box with top lid and locking arrangement full binding over of tube well to the department complete in all respect as per the satisfaction of Engineer-in-charge.	1		Each	
5	Providing and lowering of mild steel pipe strainer 30.60 metre with area of opening about 17% to 18% confirming to IS:4270-2001 with upto date ammendments, 200 milimetre dia having thickness of pipe 5.40 milimetre within all leads and lifts as per	35.00		Per running metre	
6	Development of tube well by back washing method with air compressor of minimum 750 CFM capacity, pumping pipe of 125 milimetre size and air line of minimum 65 milimetre of with other suitable method, till the well is thoroughly developed as per	8		Per hour	
7	Providing and fixing mild steel clamps complete in all respect as per the satisfaction of Engineer-in-charge.	1		Each	

Terms and conditions:-

- a) The location where bores shall be drilled for providing tube well shall be got approved specified from the Engineer-in-charge.
- b) All arrangements for the transportation of drilling equipment to the site of work and operation i.e. Katcha tracks, approach road, water, electric light etc. If so required shall be made by the contractor himself at his own cost.
- c) The department shall bea full liberty to tenderer a particular well. If the bore well

- abandoned to any reasons i.e. on accuring hard rock strata, non availability of equipment or any other reason, the contractors shall be paid only hard drilling work. In
- d) A gold silver oil other material any relics antiques and other similar things may be found in or upon the site shall be property of the Govt. and contractor shall deliver the same to the persons appointed by the Govt. from time to time.
 - e) The scope of the work can be increased and decreased by the Engineer - in-charge.
 - f) The work shall be executed strictly in accordance with the IPH and ISI specification .
 - g) Any damage done by the contractor to any public/private property during the course of construction/execution of the work.
 - h) All the taxes and other incidental charges shall be borne by the contractor and nothing shall be paid to him on this account.
 - i) All extracted material available during the time of execution shall be stacked properly as desired by the Engineer-in-charge.
 - j) Tubewell assembly shall be got approved from Engineer-in-charge duly recommended from the Sr.Hydrogeologist ground water organisation before lowering.
 - k) Contractor shall be ensure un-interrupted execution of work.
 - l) The firm contractor shall abide by the time schedule strictly and shall furnish fortnightly progress received by them to the Engineer-in-charge.
 - m) The contractor shall be responsible for the Govt. material issued to his for use on the work and shall maintain proper account of the same this will be open for inspection by
 - n) The rates are inclusive of all types of classifications of soils and as such no claim in respect in the classification shall be accepted.
 - o) The contractor shall obtain order in writing from the Engineer-in-charge about the site where surplus excavated material will be disposed off.
 - p) The royalty charges of stone sand,aggregate etc. used shall be deducted from the bill of the contractor at the rates prescribed by Govt. of Himachal Pradesh from time to
 - q) The contractor must taken all precautions to avoid accident by exhibiting day and night necessary caution boards speed limit boards, red flags, red light etc. He shall be
 - r) The contractor shall give complete postal, telegraphic address in tender and also leave the copy of the same in the office of Executive Engineer. All correspondence
 - s) All the rates give above for drilling,lowering and development of tube well include the cost of carriage, handling insurance and transportation charges of plants and material
 - t) The site shall be carried out by the contractor strictly in accordance with the attached in contract specifications and ISI specification as per IS-2800-Part-I-1991 IS 2800-
 - u) The contractor/firm or his authorised representative shall in persons see the proposed site for these works and study specification conditions before tendering.
 - v) The contractor shall clear the site properly after the completion of the work withing 15 days failing which penalty @ Rs.500/-per day will be imposed for 1st fortnight and
 - w) Tender document shall be submitted by the contractor in one lot (duly sealed) and subsequent correspondence before opening the tender shall not be entertained
 - x) The final payment shall be made to the contractor after handing over the tube well to entire satisfaction of Engineer-in-charge.

Name of work:- (3) " REVISED SCHEDULE OF QUANTITY "
Improvement of water supply scheme Bahi Sakri in Tehsil
Bajjnath Distt. Kangra.
(SH)Construction of einforcement cement concrete
overhead tank of 20000 litre capacity having 10.00 metre

Estimated Cost:- Rs. 165000/-.
Earnest Money:- Rs. 4100/-.
Time:- Three Months.

Sr. No.	Description of items	Qty.	Rate	Unit	Amount.
1	Construction of reinforcement cement concrete circular over head water storage reservoir having capacity as indicated below with 10.00 metre staging height from ground level including site development,supply of design and structural drawings subject to approval of the same from competent authorities before starting the work				
a)	Construction of reinforcement cement concrete over head storage tank 20000 litres capacity having 10.00 metre staging height. <u>The water reservoir should comprise of followings:-</u>	20000.00 litre		P/Ltr.	
1	Inlet pipe shall be provided by the department,however the Contractor/Firm shall have to make arrangements for connection the same with the tank.				
2	Providing and fixing of atleast 2 number manholes with C.I covers 500 milimetre internal dia metre total weight of cover and frame to be not less than 116 Killogramme (Medium duty). The weight of cover and frame to be 58 Killogramme each.				
3	Cast iron ventilating pipe 150 milimetre dia with cowl and mosquito proof cover of				
4	R.C.C spirial stairs of 75 centimetre width including railing of G.I pipe 40 milimetre dia				
5	All inspection gallery of minimum width 75 centimetre shall be provided around the				
6	All other required accessories such as bell mouth,control valves of cast iron class PN-				
7	All the fitting shall be embeded in the structure while the work is in progress. All				
8	The bearing capacity of the soil be got tested before submitting the design for				
9	The work shall be carried out as per technical specification attached in the NIT and				
10	All the pipe fittings, valves and other specials shall be ISI marked and confirm to				
11	The scope of work shall included provision of puddle collars and housing chambers for				
12	Nothing shall be paid for the rejectred materials and/or for the work executed below				
13	The contractor shall be responsible for the watch and ward of the materials at site of				
14	The contractor shall dispose off all the surplus materials after the construction with in				
15	Only steel and/or plywood and/or timber shuttering lined with ply or iron sheets and/or				
16	Following mateials shall be issued to the contractor on the rates as shown against				
	Note:-				
a)	Cement:- P.P.C Rs.234/- per bag (Rs.Two hundred thirty four) only per bag at IPH				
b)	Steel will be issued @ Rs 4700/-per quantal (Rs.Four thousand seven hundred only)				
c)	Crushed aggregate of good quality should be used.				

SCHEDULE OF QUANTITY "

Name of work:- (4) Improvement of lift water supply scheme Bahi Sakri in Tehsil Baijnath District Kangra(HP).
(SH)Supply and erection of submersible pumping machinery alongwith allied accessories).

Estimated Cost:- Rs. 112500/-.
Earnest Money:- Rs. 2800/-.
Time:- Three Months.

Sr. No.		SPECIFIC ATIONS (To be specified by the tenderer).	Quantity	Rate	Unit	Amount.
1	Supply of submersible pumping set of KSB/Calama/SU/Johnston/BE/Crompton make conforming to BIS:8034-1978 (latest with uptodate ammendments) fitted with bronze impellers/suitable alloy directly coupled to squirrel cage/slipping electric induction motor of same make as that of pump conforming to BIS: 9283-1979 (latest with uptodate ammendments) and totally water proof for submersible duty, isolated from the pump by intermediate casing with double mechanical seal in oil chamber, grease packed lubricated bearings & provided with stainless steel thrust bearing plate to with stand vertical, loads with minimum wear & tear. It should also be fitted with a device to take up expansion of water with the heating of motor including water level guard, erection clamps, cable clips & depth gauge etc. The pump shall be suitable for operation on data on data given below :-	a) Pump:- b) Motor:- c) Coupling:- d) Bast Plate:-	2 sets		Per Horse Power	
i)	Location of site :	The site is located at a distance of 11 Kms from Baijnath railway station by road and 1.50 KM by head load.				
ii)	The altitude of place in which pumping set is	Altitude of place is 1200 m above MSL				
iii)	Type of current.	AC three phase with frequency of 50 cycle/second.				
iv)	Rated voltage :	415V ± 10%				
v)	Type of water (Raw/Treated).	: Raw water				
vi)	Chararistics of water	a) Temperature - °C b) Turbidity 5000 PPM c) PH d) Hardness Mg./litre(as CaCO.) e) Total solids Mg./litre f) Others				
vii)	Depth of tank/well.	3.00 metres				
viii)	L.W.L. in tank/sump well.	745.00 metres				
ix)	Centre line level of pump.	745.00 metres				
x)	Discharge level of highest point.	842.00 metres				
xi)	Nos. of pump required.	2 Number pumps (One will be act as stand bye)				
xii)	Capacity.	2.01 LPS for each pump.				
xiii)	Static head in meters.	97.00 metres				
xiv)	Total head in meter.	97.00 metres				
xv)	Length of rising main.	475 metres				
xvi)	Dia of Rising main.	65 mm dia GI pipe.				
xvii)	Pumping hours per day.	per 8 hours				
xviii)	Limits of pump operation.	(-) 25% to (+) 10% of total head at duty point.				
xix)	HP of motor/drive unit.	Required BHP of pump at (+) 10% & (-) 25% of total or BHP with following margins/multiplying factor at duty point,whichever is higher.				

- | | |
|-----------------------|-----------------------------------|
| a) Upto 2 H.P. = 1.50 | d) 10 to 20
H.P. = 1.2
H.P. |
| b) 2 to 5 H.P. = 1.40 | e) 20 to 100
HP = 1.15
H.P. |
| c) 5 to 10 H.P.= 1.30 | f) Above
100 HP =
1.10 H.P. |

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|---|---|------|--------|
| xxi) R.P.M. of pump 2900 RPM
(2900/1450 RPM) | | | |
| xxii) Test Run. 16 hours continuous for 7 days. | | | |
| xxiii) NPSH available. metres | | | |
| 2 Supply of suitable oil immersed D.O.L of standard make such as KSB/Siemen make conforming to BIS-8544-1979 latest with up to date amendments for squirrel cage slipping motor mounted on panel board with magnetic | 2 | Each | Number |
| 3 Providing MS sheet 16 SWG steel fabricated floor mounted closed almirah type switch board including angle iron post of suitable height and size ISA 65x65x6 mm duly painted comprising and capable of mounted the following accessories with all internal electric connection.
Note: The drawing of panel board shall be subject to approval of Engineer-in-charge. | 2 | Each | Number |
| a) Ammeter of AC supply, 100mm circular square dial L&T make of suitable range for above pumping set with selector switches conforming to BIS 1248-1983 (latest edition). | 2 | Each | Number |
| b) Voltmeter for AC supply, 100 mm circular dial L&T make of suitable range for above pumping set with selector switches conforming to BIS 8044-1978 (latest edition). | 1 | Each | Number |
| c) ICTP 32 Amp switches with HRC fuses Kilburn/L&T/Standard/Siemen's/Havells make & having capacity 30 % extra of the operational rating of motor as per BIS 4064-1978 with upto date amendments immediately after the Bushbar chamber having 3 copper bars of suitable rating for full length 3 live Phases and one copper bar of half rating of full length for neutral conforming to BIS-8084-1976 and 11353-1985 read with 5578-1985 all latest with up | 2 | Each | Number |
| d) MCB 32 Amp of suitable capacity of L&T make on incoming feeder for pumping set conforming to BIS 2516-1985 (latest edition) with neutral linked under voltage release. | 2 | Each | Number |
| e) Three phases indicating lamps complete with toggle switches for individual motors conforming to BIS 3452 (Part I&II) latest with upto date amendments. | 2 | Each | Number |
| f) Hour run meter of reputed approved make of four digit capacity conforming to BIS - 722 (latest edition). | 1 | Each | Number |
| 4(a) Supply of Kirloiskar/Kilburn/IVC/Fouress/Glod Bhel/Leader/Bir valves/Kartar make Cast iron double flanged sluice valve (to be provided on delivery side) of size one step higher than the delivery size of pump and capable of
NOTE:- The Cast iron sluice valve shall conform to BIS-780-1984 for 50 mm to 300 mm dia and BIS:2906-1984 | 2 | | Number |

- for 350 mm to 1200 mm dia (latest edition). However if seat pressure exceeds the limits prescribed in above mentioned BIS then it shall be of cast steel conforming to class ASA-150 for seat pressure up to 21 Kg./Cm2 of
- b) Supply of Kirlosker/ Kilburn/IVC/fouress/Gled Bhel/Leader/Bir valves/ Kartar make Cast cast iron double flanged swing check type reflex valve having bye pass arrangement (to be provided on delivery side) of size one step higher than the delivery size of pump and shall be suitable for withstanding nominal seat pressure of 10 Kg./Cm2 2 Number Each
- 5 (a) Providing and laying PVC insulated jointless,flat water proof copper cable of Finolex/Gloster make conforming to BIS: 1554 (Part-I)-1988 or latest with upto date ammendments of suitable size for the pump sets offered(One cable carrying all three phases) including all other electrical equipment/accessories such as thimble,flexible pipe solder,nuts & bolts cable gland etc. laid in pipe or trenches under floor. The type size & make will be subject to approval of HPSEB authorities. In case of non acceptance by HPSEB authorities, it shall have to be replaced by
- a. On supply side of 3:1/2 core (from HPSEB meter to switch & starter) = 50 metre.of size 2.5 mm²
- b. On motor side 3 core (from switch and starter to motor) = 75 metre of size 2.5 mm². 125 metre Per metre
- b) Providing and laying double loop earthing with copper plate 600x600x3mm thick electrode complete with material such as charcoal,common salt,G.I.pipes.thimbles,nuts & bolts,digging of pits,GI wiring & 8 SWG copper strips required capacity conforming to BIS 3043-1987 latest with upto date ammendments for above motor & other electrical equipments. Job L.S.
- NOTE:- The strip size shall be 20x3 upto 18.5 KW,25x3 for 18.5 to 37 kW 25x5 for 37 to 55 KW & 32x5 beyond
- c) Supply and erection of floor/wall mounted power factor shunt capacitor confirming to BIS-2834-1986 latest with upto date ammendments BHEL/ GEC/Machneil/mager/bajaj make to raise the prevailing power factor at site to 0.95 for direct connection to induction motor individually,of required KVAR according to HP of motor offered 2 Number Each
- 6 Supply of standarad make 100 mm dia circular/square/dial pressure gauge of suitable range Fiebeg/Bourden/Precision make with all accessories such as stop cock,copper tubing etc. conforming to BIS-3624-1987 latest with upto date ammendments. 2 Number Each
- 7 Providing and laying column assembly of GI/MSERW pipes of suitable size for suction delivery and common header considering site requirements and NPSH required/avaiable.The pipe sizes for suction and delivery shall as per the requirement of offered pump (to be given by the tenders) and common header shall be equal to dia of rising main including tapers. flanges, bends, rubber gaskets, 3 mm thick nuts and bolts and special up to 5 metre away from the outer wall of pump house as per layout drawing approved by Engineer-in-charge. The pipes material shall conform to relevant BIS codes and capable of with standing field test pressure equal to 1.5 times

Delivery pipe	80 mm dia.	}
Suction pipe	65 mm dia.	
Common header	50 mm dia.	

- 8 Erection of all equipments from Sr. No. 1 to 4 & 6 including cost of tees bends tapers and any other fittings required as per site conditions and as per the direction of Engineer-in-charge. Job L.S.

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TERMS & CONDITIONS :-

- a) Pumping machinery and all other equipments or allied accessories shall be guaranteed for 12 months from the date of commissioning.
- b) All the equipments or accessories to be supplied shall be of suitable capacity/rating and shall be only of the make as specified in NIT. Nothing extra shall be paid for any change in capacity/rating of the equipment offered if the same does not ful fill the requirements as per NIT.
- c) Original Characteristic curve/selection chart of the offered pump set duty marked with discharge total head efficiency, BHP and NPSH required at duty point and (-)25% & (+) 10% of total head, must accompany with the tender,other wise the same will be similarly rejected. The characteristic curve shall be elegend and must be
- d) The respective class and sizes of reflux valve/ sluice valve (for delivery and suction side) shall be mentioned clearly and shall carry a guarantee of minimum two years. The make of valve shall be either engraved or inside the body of the valve.
- e) Only the makes as specified in the DNIT are acceptable.
- f) The installation shall be in accordance with guidelines enclosed.
- g) All standards wherever mentioned mean relevant and with up to date ammendments.

" SCHEDULE OF QUANTITY "

Estimated Cost:- Rs.
Earnest Money:- Rs.
Time:- Three months

Name of work:- (5) Providing of stock storage in IPH Sub Division Chadhiar in Tehsil Baijnath)
SH. Construction of store building at Chadhiar

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed	28.06		Per cubic metre	
2	Providing and laying cement concrete 1:4:8(One cement is to four sand is to eight	9.92 Cum		P/Cum	
3	Square rubble masonry coursed with hard stone of approved quality in foundation and plinth includin racking out joints in cement mortar 1:4 (one cement is to four san)	13.09 Cum		P/Cum	
4	Providing and laying cement concrete 1:2:4 (One cement is to two sand is to four	9.92 Cum		P/Cum	
a)	Foundation, footings basis of columns and the like and mass concrete within all leads	9.20 Cum		P/Cum	
b)	Columns,pillars, posts and struts upto floor two level within all leads and lifts as per	8.57 Cum		P/Cum	
c)	Suspended floors, roofs landing shelves and their supports balconies beams girders an cantilevers upto floor two level within all leads and lifts as per the direction of	13.72 Cum		P/Cum	
5	Providing form work with steel plates 3.15 milimetre thick welded with angle iron in frame 30x30x5 milimetre so as to give a fair finish including centring,shuttering,strutting and propping etc.with wooden battens ballies,height of				
a)	Foundation, footings basis of columns and the like and mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	21.50 Sqmt		P/Sqmt	
b)	Beams cantilevers girders and lintels side and soffits of beams, beam haunchings cantilevers girder bressumers and lintels not exceeding 1 metre in depth within all	72.22 Sqmt		P/Sqmt	
c)	Columns,pillars, posts and struts upto floor two level within all leads and lifts as per the direction of Engineer-in-charge.	112.60 Square metre		Per Square metre	
6	Providing & laying mild steel/tor steel reinforcement for reinforced cement concrete work including bending binding and placing in position complete upto floor two level within all leads and lifts as per the direction of Engineer-in-charge.	2834.10 Killo-gramme.		Per Killo-gramme	
7	Providing corrugated galvanised iron sheet roofing fixed with galvanised iron J or L hooks, bolts and nuts 8 mm diametre with bitumen and galvanised iron limpet washers filled with shite lead complete excluding the cost of purlins refes and tusses 0.63 mm	114.50 Rmt		P/Rmt	
9	Steel work welded in build up sections, trusses and famed work including cutting, hoisting and fixing in position and applying a priming coat of red lead paint in trusses and trussed purlings in buildings within all leads and lifts as per the satisfaction of	20.00 Qtl.		P/Qtl.	
Terms and condition					
a)	Cement will be issued @ Rs.234/-per bag from Divisional store Differpat.				
b)	The work should be carried out as per specifications.				
c)	Nothing shall be paid for the rejected work.				
d)	Steel will be issued @ Rs. 4700/- per Qtl. From Divisional Store Differpatt.				
e)	Crushed stone aggregate shall be used.				
f)	G.I. pipes will be issued free of cost to the contractor.				

" SCHEDULE OF QUANTITY "

Estimated Cost:- Rs. 547198/-.

Earnest Money:- Rs. 13700/-.

Time:- Three Months.

Name of work:- (6) Providing water supply scheme Ghirtholi Ustehar in Tehsil Baijnath (SH. Laying and Jointing of galvanised iron pipe from Node Number 1.2 of 150mm dia ffrom proposed intake to

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed	3393.00		Per cubic metre	
2	Laying and jointing in trenches galvanised mild steel tubes,tube fitting(Light grade) of a) 150 milimetre dia.	3900.00		Per running metre	
3	b) 100 milimetre dia.	3000.00		Per running metre	

Terms and conditions:-

- G.I.pipes will be issued free of cost to the contractor from Divisional store Differpat.
- The work should be carried out as per specifications.
- Nothing shall be paid for rejected work.

" SCHEDULE OF QUANTITY "

Estimated Cost:- Rs. 168989/-.

Earnest Money:- Rs. 4250/-.

Time:- Three Months.

Name of work:- (7) Augmentation of water supply scheme to Village Ghamrota in Tehsil Palampur (SH. Laying and Jointing of galvanised iron pipe of various dias)

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed	1478.54		Per cubic metre	
2	Laying and jointing in trenches galvanised mild steel tubes,tube fitting(Light grade) of				
	a) 32 milimetre dia.	2430.00		P/Rmt.	
	b) 25 milimetre dia.	1520.00		P/Rmt.	
	c) 20 milimetre dia	430 Rmt.		P/Rmt.	
	d) 15 milimetre dia	1885 Rmt		P/Rmt.	

Terms and conditions:-

- G.I.pipes will be issued free of cost to the contractor from Divisional store Differpat.
- The work should be carried out as per specifications.
- Nothing shall be paid for rejected work.

" SCHEDULE OF QUANTITY "

Name of work:- (8)

Augmentation of water supply scheme to Village Ghamrota in Tehsil Palampur (SH. Laying and Jointing of gravity main from Node No. 1 to 3, Node No. 2 to 3 and Node No. 3 to 4)

Estimated Cost:- Rs.

Earnest Money:- Rs.

Time:- Three Months.

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed	932.00		Per cubic metre	
2	Laying and jointing in trenches galvanised mild steel tubes,tube fitting(Light grade) of a) 50 milimetre dia. (RD 0/0 to 3800) (Node No. 3 to 4)	3800.00		P/Rmt.	
	a) 40 milimetre dia. (RD 0/0 to 60) (Node No. 1 to 3)	Rmt. 60.00		P/Rmt.	
	a) 32 milimetre dia. (RD 0/0 to 90) (Node No. 2 to 3)	Rmt. 90 Rmt.		P/Rmt.	

Terms and conditions:-

- G.I.pipes will be issued free of cost to the contractor from Divisional store Differpat.
- The work should be carried out as per specifications.
- Nothing shall be paid for rejected work.

" SCHEDULE OF QUANTITY "

Estimated Cost:- Rs. 115317/-.
Earnest Money:- Rs. 2100/-.
Time:- Six Months.

Name of work:- (9) Augmentation of water supply scheme to Village Ghamrota in Tehsil Palampur
SH. C/O Intake chamber at Node No. 1,2,3 and construction of under ground reservoir 18700 litre capacity at Node No. 4 and 6500 litres capacity at node No. 22.

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed	82.630		Per cubic metre	
2	Providing and laying cement concrete 1:4:8 (One cement is to four sand is to eight graded stone aggregate 40 milimetre nominal size and) curing complete excluding the cost of form work in foundation and plinth within all leads and lifts as per the direction	1.14		Per cubic metre	
3	Providing and laying cement concrete 1:3:6(One cement is to three sand is to six graded stone aggregate 20 milimetre nominal size and) curing complete excluding the cost of form work in foundation and plinth within all leads and lifts as per the direction	3.07		Per cubic metre	
4	Providing and laying cement concrete 1:1½:3(One cement is to one and half sand is to three graded stone aggregate 20 milimetre nominal size and curing complete excluding the cost of form work and reinforcement for reinforced concrete work in walls(any thickness)but not less than 0.10 metre thickness)attached pillasters,buttresses plinth and string courses from top of foundation upto floor two	11.050		Per Cubic metre	
a)	Foundaton footing and basis of columns etc. and mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	2.35		Per Cum metre	
5	Providing and laying cement concrete 1:2:4(One cement is to two sand is to four graded stone aggregate 20 milimetre nominal size and curing complete excluding the cost of form work and reinforcement for reinforced cement concrete in suspended floors,roofs landing shelves and their supports balconies beams,girders and cantilevers upto floor two level within all leads and lifts as per the direction of Engineer-	1.69		Per Cubic metre	
6	Providing form work with steel plates 3.15 milimetre thick welded with angle iron in frame 30x30x5 milimetre so as to give a fair finish including centring,shuttering,strutting and propping etc.with wooden battens ballies,height of				
a)	Edges of slab and breaks in floor and walls under 20 centimetre in wide within all leads and lifts as per the direction of Engineer-in-charge.	73.70		Per Running metre	
b)	Flate surface such as soffits of suspended floor, roofs landings and the like floors etc. lupto 200 in thickness within all leads and lifts as per the direction of Engineer-in-	23.22		Per Square	
c)	Vertical surface such as walls (any thickness)partitions walls and the like including attached pillaster,buttreses plinth string courses and the like Square, rectangular or polygonal in planwithin all leads and lifts as per the direction of Engineer-in-charge.	132.08		Per Square metre	
7	Providing mild steel/tor steel reinforcement for reinforced cement concrete work including bending binding and placing in position complete upto floor two level within all leads and lifts as per the direction of Engineer-in-charge.	1361.11		Per Killo-gramme.	
8	Providing and fixing precast man hole cover 550mm dia with cement concrete 1:2:4 (One cement is to two sand is to four graded stone aggregate 20mm nominal size (Heavy duty) within all leads and lifts as per the direction of Engineer-in-charge.	3.00		Each	
9	Steel work welded in built up sections,trusses and framed work including	1.00		P/Qtl.	

	cutting,hoisting and fixing in position and applying a priming coat of red lead paint in gratings,framed guard bars,ladders,railing,brackets and similar type of work within all	Quantal	
10	Construction of chamber for sluice valve with C.I.surfaces bex 100 milimetre top dia 160 milimetre bottom diametre and 180 milimetre deep with chained lid and reinforcement cement concrete top slab 1:2:4(One cement is to two sand is to four graded stone aggregate 20 milimetre nominal size)120 milimetre thick foundation bes concrete 1:5:10(One cement is to five sand is to ten graded stone aggregate 40 milimetre nominal size)and in side cement plastering 1:3(One cement is to three sand)finished with a floating coat of neat cement including curing complete with 300 milimetre thick wall of squared rubble masonry with hard stone of approved quality in cement mortar 1:6(One cement is to six sand)as per the direction of Engineer-in-	2.00 Nos	Each
11	Finishing wall with water proofing cement paint of approved brand and manufacture and of required shade on undecorated wall surface(two coats)to give an even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered	106.16 square metre	PSqmt.
12	Providing and fixing cast iron sluice valve(Scour valve)with hand wheel as per IS-780 class upto 300 milimetre dia(including brass spindle)as per IS:2906 class-II for diametres more than 300 milimetre dia complete with bolts,nuts rubber more than 300 a) 100 milimetre dia.	4.00 Number	Each
	b) 80 milimetre dia.	2.00 Nos	Each
13	Laying and jointing in trenches galvanised mild steel tubes,tube fitting(Light grade) of following dia.(Earth work in trenches to be measured and paid for separately)within all a) 80 milimetre dia.	30.00 running	P/Rmt.
	a) 100 milimetre dia.	30.00 running	P/Rmt.

Terms and condition

- a) Cement will be issued @ Rs.234/-per bag from Divisional store Differpat.
- b) The work should be carried out as per specifications.
- c) Nothing shall be paid for the rejected work.
- d) Steel will be issued free of cost to the Contractor from Divisional Store Differpatt.
- e) G.I. pipes should be carried out as per specifications

" SCHEDULE OF QUANTITY "

Estimated Cost:- Rs. 644116/-.

Earnest Money:- Rs. 16100/-.

Time:- Three Months.

Name of work:- (10) Providing water supply scheme of Village Garla Dei, Garla Sarkari etc. and surrounding Villages with installation of tube well in Tehsil Palampur (SH. Laying and Jointing of galvanised iron pipe of various dias in distribution system)

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed	5518.15		Per cubic metre	
2	Laying and jointing in trenches galvanised mild steel tubes,tube fitting(Light grade) of				
	a) 65 milimetre dia.	1905.00		P/Rmt.	
	b) 50 milimetre dia.	1445.00		P/Rmt.	
	a) 40 milimetre dia.	2915.00		P/Rmt.	
	a) 32 milimetre dia.	980.00		P/Rmt.	
	b) 25 milimetre dia.	1955.00		P/Rmt.	
	c) 20 milimetre dia	4292 Rmt.		P/Rmt.	
	d) 15 milimetre dia	9890 Rmt		P/Rmt.	

Terms and conditions:-

- G.I.pipes will be issued free of cost to the contractor from Divisional store Differpat.
- The work should be carried out as per specifications.
- Nothing shall be paid for rejected work.

Name of work:- (11)

SCHEDULE OF QUANTITY "

Providing water supply scheme Holta Banuri Saliana in Tehsil Palampur District Kangra(HP). (SH)Construction of 1 number Tube Well 80 metre deep in Village Chhayatta under sustainability of drinking water sources

Estimated Cost:- Rs. 480000/-
Earnest Money:- Rs. 12000/-

Time :- Three months

Sr. No.	Description of items.	Qty.	Rate in Figure	Unit	Amount.
1	Transportation of Rig along with allied accessories etc. complete including erecting and leveling at site, through all kind of roads, in all leads and lifts complete. as per the satisfaction of Engineer-in-charge.	1 Job		Each	
2	Drilling of bores of 300 mm dia below ground level 0 to 80 metre in all kinds of soils, boulder, rock collapsible strata, saturated soil, artesian conditions including the cost of all consumable stores, water, fuel, lubricants and other accessories etc. complete in	80.00 running metre		Per running metre	
3	Providing and lowering of mild steel casing pipe conforming to IS-4270-2001 with upto date ammendments, 200 milimetre dia having thickness of pipe 5.40 milimetre from 0 to 50 metres below ground level within all leads and lifts as per the satisfaction of	55.00 running metre		Per running metre	
4	Collection and preservation and display of suitable size sample box with top lid and locking arrangement full binding over of tube well to the department complete in all respect as per the satisfaction of Engineer-in-charge.	1 Number		Each	
5	Providing and lowering of mild steel pipe strainer 30.60 metre with area of opening about 17% to 18% confirming to IS:4270-2001 with upto date ammendments, 200 milimetre dia having thickness of pipe 5.40 milimetre within all leads and lifts as per	35.00 metre		Per running metre	
6	Development of tube well by back washing method with air compressor of minimum 750 CFM capacity, pumping pipe of 125 milimetre size and air line of minimum 65 milimetre of with other suitable method, till the well is thoroughly developed as per	8 Hours		Per hour	
7	Providing and fixing mild steel clamps complete in all respect as per the satisfaction of Engineer-in-charge.	1 Number		Each	
	Terms and conditions:-				
a)	The location where bores shall be drilled for providing tube well shall be got approved specified from the Engineer-in-charge.				
b)	All arrangements for the transportation of drilling equipment to the site of work and operation i.e. Katcha tracks, approach road, water, electric light etc. If so required shall be made by the contractor himself at his own cost.				
c)	The department shall bea full liberty to tenderer a particular well. If the bore well abandones to any reasons i.e. on accuring hard rock strata, non availability of equipment or any other reason, the contracors shall be paid only hard drilling work. In				
d)	A gold silver oil other material any relies antiques and other similar things may be found in or upon the site shall be property of the Govt. and contractor shall deliver the same to the persons appointed by the Govt. from time to time.				
e)	The scope of the work can be increased and decreased by the Engineer - in-charge.				
f)	The work shall be executed strictly in accordance with the IPH and ISI specification .				
g)	Any damage done by the contractor to any public/private property during the course of construction/execution of the work.				
h)	All the taxes and other incidental charges shall be borne by the contractor and nothing shall be paid to him on this account.				
i)	All extracted material available during the time of execution shall be stacked properly as desired by the Engineer-in-charge.				
j)	Tubewell assembly shall be got approved from Engineer-in-charge duly recommended from the Sr.Hydrogeologist ground water organisation before lowering.				
k)	Contractor shall be ensure un-intrupted execution of work.				
l)	The firm contractor shall abide by the time schedule strictly and shall furnish				

fortnightly progress received by them to the Engineer-in-charge.

- m) The contractor shall be responsible for the Govt. material issued to his for use on the work and shall maintain proper account of the same this will be open for inspection by
- n) The rates are inclusive of all types of classifications of soils and as such no claim in respect in the classification shall be accepted.
- o) The contractor shall obtain order in writing from the Engineer-in-charge about the site where surplus excavated material will be disposed off.
- p) The royalty charges of stone sand, aggregate etc. used shall be deducted from the bill of the contractor at the rates prescribed by Govt. of Himachal Pradesh from time to time
- q) The contractor must take all precautions to avoid accident by exhibiting day and night necessary caution boards speed limit boards, red flags, red light etc. He shall be
- r) The contractor shall give complete postal, telegraphic address in tender and also leave the copy of the same in the office of Executive Engineer. All correspondence
- s) All the rates given above for drilling, lowering and development of tube well include the cost of carriage, handling insurance and transportation charges of plants and material
- t) The site shall be carried out by the contractor strictly in accordance with the attached in contract specifications and ISI specification as per IS-2800-Part-I-1991 IS 2800-
- u) The contractor/firm or his authorised representative shall in person see the proposed site for these works and study specification conditions before tendering.
- v) The contractor shall clear the site properly after the completion of the work within 15 days failing which penalty @ Rs.500/-per day will be imposed for 1st fortnight and
- w) Tender document shall be submitted by the contractor in one lot (duly sealed) and subsequent correspondence before opening the tender shall not be entertained
- x) The final payment shall be made to the contractor after handing over the tube well to entire satisfaction of Engineer-in-charge.

***SCHEDULE OF QUANTITY ***

Estimated Cost:- Rs. 944125/-.
Earnest Money:- Rs. 23600/-.
Time:- Three Months.

Name of work:- 12 Providing Lift Water Supply Scheme Rakh Moon Sugal
Chadhiar in Tehsil Palampur.
(SH Laying and jointing of 100mm dia galvanised iron pipe
for rising main (Medium class) Phase-IInd

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and rock and chiselling work including saturated soil	1708.80		P/Cum	
2	Laying and jointing in trenches galvanised mild steel tubes,tube fitting(Light grade) of a) 80 mm dia (Table-28)	3560 Rmt		P/Rmt.	
3	Providing and fixing galvanised iron bends with mild steel flanges of various tables a) 100 mm dia (Table-28)	75 Nos.		Each	

Terms and conditions :-

- G.I. pipe will be issued free of cost to the Contr. From Divisional Store Differpatt.
- The work should be carried out as per specifications.
- Nothing shall be paid for the rejected work.
- Dismantled material should be taken in MAS by the concerned J.E.
- Material should be ISI marked.

***SCHEDULE OF QUANTITY ***

Estimated Cost:- Rs. 663438/-.
Earnest Money:- Rs. 16600/-.
Time :- Six months

Name of work 13 Construction of Flow Irrigation Scheme Utrala kuhl in Tehsil Baijnath (SH)Construction of 12 Nos out lets,

Sr. No.	Description of items.	Qty.	Rate	Unit	Amount.
1	Excavation in foundation trenches etc.in earth work in all kinds of soil such as pick work,jumper work,blasting in soft and hard rock and chiselling work including saturated soil slushy soil and under floor upto all depth and stacking the excavated soil not more than 3 metre clear from the edge of excavation and then returning the stacked soil in 15 centimetre (Fifteen centimetre)layer when required into plinth sides	699.84		Per cubic metre	
2	Providing and laying cement concrete 1:4:8(One cement is to four sand is to eight graded stone aggregate 40 milimetre nominal size) and curing complete excluding the cost of form work in foundation and plinth with in all leads and lifts as per the direction of Engineer-in-charge.	4.68		Per cubic metre	
3	Brick work using common burnt clay building bricks in foundation and plinth in cement mortar 1:6 (One cement is to six sand) within all leads and lifts as per the direction of Engineer-in-charge.	16.32		Per cubic metre	
4	40 milimetre (Fifty milimetre) thick cement concrete flooring 1:2:4 (One cement is to two sand is to four graded stone aggregate 20 milimetre nominal size) laid in one layer and finished with a floating coat of neat cement within all leads and lifts as per	12.00		Per square metre	
5	20 milimetre (Twenty milimetre) thick cement plaster in single coat on rough side of brick/stone masonry for interior plastering upto floor two level including arrises internal rounded angles chamfers and/or rounded angles not exceeding 80 milimetre in girth	101.64		Per square metre	
6	Providing,laying and jointing and commissioning of HDPE (High Density Polyethylene pipes) of 160 milimetre PN-4.0 Kg./Cm2 PE-80 diameter and class confirmng to IS 4984-1995 with fusion welding process including all necessary fitting in all leads and	1115.00		Per running metre	
	<u>Terms and conditions:-</u>				
a)	Cement will be issued @ Rs.234/-per bag from Divisional store Differpat.				
b)	Crushed stone aggregate should be used.				
c)	The work should be carried out as per HPPWD/ IPH specifications.				
d)	Nothing shall be paid for the rejected work/material..				
e)	HDPE pipes will be arranged by the contractor himself.				
f)	The contractor shall used vibrator/concrete mixer without any failure and in case of any inspection if it is found that concreting is being done without vibrator, the awarded rates in that particular item of work shall be reduced by 10%.				
g)	Minimum 3 Nos cube tests from site shall be got tested from NIT Hamipur or HPPWD laboratory located in the District and in case of minimum value achieved out of these 3 Nos is below the required specification the rate shall be reduced on prorata basis for				