

**\*SCHEDULE OF QUANTITY \***

Estimated cost:- Rs. 350000.00

Name of work:- Providing water supply scheme Sunpur Mandhole, Khalenu in Tehsil Baijnath District Kangra(HP).  
(SH)Construction of reinforcement cement concrete over head storage tank of 35000 litre capacity with 10 metre staging height.

Earnest money:- Rs. 7000.00

Time :- Nine months

Sr. No.	Description of items	Qty.	Rate in Figure	Words	Unit	Amount
1	Design and Construction of reinforcement cement concrete circular over head water storage tank of 35000 litre capacity with 10.00 metre staging height each including cost of excavation, site development. Cost of construction material, necessary arrangement of inlet, outlet, overflow and scour pipe alongwith sluice valves and other fixtures, developent of site and carriage of material within all leads and lifts. <b>The design and drawings shall be got approved from competent authority before execution including soil bearing capacity test.</b> a) 35000 litres capacity	35000			Per litre	
	<u>The water reservoir should comprise of followings:-</u>					
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 sufficient length and lightening conductor as per site shall be provided by the contractor/firm.					
4	R.C.C spirial stairs of 75 centimetre width including railing of G.I pipe 40 milimetre dia (Medium class) supported on mild steel angle iron 40x40x5 milimetre of height 90 centimetre from the ground level of the reservoir to the top of the bottom ring beam and steel stairs from top of bottom ring beams to manhole to base of reservoir.					
5	All inspection gallery of minimum width 75 centimetre shall be provided around the tank at the bottom ring beam level along with railing of G.I pipe,of suitable dia supported on mild steel angle iron of 40x40x5 milimetre and also at ground level of the tank G.I. railing including mild steel gate of suitable size. The pipe will be supplied by the department free of cost.					
6	All other required accessories such as bell mouth,control valves of cast iron class PN-I one for each out let and scour system shall be supplied and fixed by the Firm.					
7	All the fitting shall be embeded in the structure while the work is in progress. All connections shall be left out side the structures with sluice valves of appropriate class and speification in position ready for connection with incomming and outgoing pipes. Direction of the scour shall be made towards natural drainage as per direction of Engineer in charge.					
8	The safe bearing capacity of the soil shall be got tested by the contractor, however for design purpose the safe bearing capacity shall not be more than 10 tonne per square metre. The design and drawing for the structure shall be supplied by the contractor/firm and shall be got apporved by the competent authority before execution of the work.					

- 9 The work shall be carried out as per technical specification attached in the NIT and direction of Engineer in charge. All the surrounding shall be levelled and made good and brought in proper shape as per direction of Engineer in charge.
- 10 All the pipe fittings, valves and other specials shall be ISI marked and confirm to relevant BIS codes and also shall be subject to the approval of Engineer in charge.
- 11 The scope of work shall include provision of puddle collars and housing chambers for sluice valves etc. as required at site as per direction of Engineer in charge.
- 12 Nothing shall be paid for the rejected materials and/or for the work executed below specifications.
- 13 The contractor shall be responsible for the watch and ward of the materials at site of work.
- 14 The contractor shall dispose off all the surplus materials after the construction within all leads of 200 metres to make the site level/good.
- 15 Only steel and/or plywood and/or timber shuttering lined with ply or iron sheets and/or plastic shuttering shall be used for concrete surfaces subjected to safety of structure and smooth surface as per NIT requirement.
- 16 Following materials shall be issued to the contractor on the rates as shown against each item at IPH store Palampur. All other material shall be arranged by the contractor himself within all leads and lifts.

**Note:-**

- a) Cement:- P.P.C Rs.303/- per bag Two hundred thirty four) only per bag at IPH store Differpat.
- b) Steel will be issued @ Rs 4800/-per quintal (Rs.Four thousand seven hundred only) at IPH store Differpat.
- c) Crushed aggregate of good quality should be used.

**\* SCHEDULE OF QUANTITY \***

Estimated cost:- Rs. 412325.00

Name of work:- Improvement and extension of lift irrigation scheme Tikkari Sagoor in Tehsil Baijnath District Kangra(HP).  
(SH)Construction of reinforcement cement concrete lining from RD 315/0/180 to 360.

Earnest money:- Rs. 8250.00

Time :- Three Months

Sr. No.	Description of items.	Qty.	Rate in Figure	Words.	Unit	Amount.
1	Excavation in drain and channels etc. in all kinds of soil such as pick work,jumper work,blasting work soft and hard rock and saturated soil including dressing of sides and beds and disposing of excavated earth upto a lead of 20 metre and lift upto 1.50 metre within all leads and lifts as per the direction of Engineer-in-charge.	54.00			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.	10.80			Per cubic metre	
3	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:-					
(a)	Foundation,footings bases of column and the like mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	18.90			Per cubic metre	
(b)	Walls (any thickness) butt not less then 0.10 metre thickness) attached pillasters, buttresses, plinth and string courses etc. from top of foundation up to floor two level with in all leads and lifts as per the direction of Engineer-in-charge.	24.30			Per cubic metre	
4	Providing form work with steel plates 3.15 milimetre thick welded with angle iron in frame 30*30*5 milimetre so as to give a fair finish including centring,shuttering,strutting and propping etc. with wooden battens ballies,height of propping and centring below supporting floor two ceiling not exceeding 4 metre and removal of the same for					
a)	Vertical surfaces such as walls(any thickness)partitions walls and the like including attached pillasters,buttreses plinth string courses and the like within all leads and lifts as per the direction of Engineer-in-charge	378.00			Per square metre	
5	Providing and 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.	1728.00			Per Killo-gramme.	
	<u>Terms and conditions:-</u>					
a)	Cement will be issued @ Rs.303/-per bag from Departmental Divisional store Differpat.					
b)	Steel will be issued @ Rs.4800/-per quintal to the contractor from Divisional store.					
c)	Crushed stone aggregate and mechanically mixture concrete shall be used.					
d)	The work shall be completed with in stipulated period.					
e)	Required No. of test cubes of cement concrete 1:2:4 (1 cement:2 sand:4 graded stone agg. of 20 mm nominal size) from site shall be collected for random testing of their compressive strength at 28 days as per provision of					
f)	The work shall be executed as per IPH/HPWD specification and relevant IS codes to the entire satisfaction of					
g)	The security, income tax, good service tax and surcharge and labour welfare cess if any shall deducted from					
h)	each running bill of the contractor/firm as applicable.					
i)	Any damages caused to any public and private property during the course of execution of work shall be restored by the contrctor and if, not done within a reasonable time then the same shall be restored by the Department at					
j)	Nothing shall be paid for the rejected work/material.					
	The contractor shall be fully responsible for watch and ward of material at the site of work.					

**\* SCHEDULE OF QUANTITY \***

Name of work:- Inter linking of New source of water supply Multhan in Tehsil Baijnath District Kangra(HP).  
(SH)Construction of reinforcement cement concrete under ground storage tank of 25000 litres capacity and 1 number intake chamber.

Estimated cost:- Rs. 260518.00  
Earnest money:- Rs. 5220.00  
Time :- Three months

Sr. No.	Description of items.	Qty.	Rate in Figure	Words.	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 of foundation etc.consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated	14.92			Per cubic metre	
2	Providing and laying cement concrete 1:3:6 (One cement is to three sand is to six 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.	2.04			Per cubic metre	
3	Providing and laying cement concrete 1:11/2:3(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:-					
(a)	Foundation,footings bases of column and the like mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	3.70			Per cubic metre	
(b)	Walls (any thickness) butt not less then 0.10 metre thickness) attached pillasters, buttresses, plinth and string courses etc. from top of foundation up to floor two level with in all leads and lifts as per the direction of Engineer-in-charge.	8.08			Per cubic metre	
(c)	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-in-charge.	0.580			Per cubic metre	
(d)	Arches upto floor two level within all leads and lifts as per the direction of Engineer-in-charge.	1.270			Per cubic metre	
4	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	0.17			Per cubic metre	
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 propping and centring below supporting floor two ceiling not exceeding 4 metre and removal of the same for					
a)	Vertical surfaces such as walls(any thickness)partitions walls and the like including attached pillasters,buttreses plinth string courses and the like within all leads and lifts as per the direction of Engineer-in-charge.	87.38			Per square metre	
b)	Flat surfaces such as soffits of suspended floors,roofs,landings and the like floors etc.upto 200 milimetre in thickness within all leads and lifts as per the direction of Engineer-in-charge.	1.69			Per square metre	
6	Providing form work of ordinary timber planking so as to give a rough finish including centring,shuttering,strutting and propping etc.height of propping and centring below supporting floor to ceiling not exceeding 4 metrrre and removal of the same for in-situ-reinforced concrete and plain concrete work in:-					
a)	Arches beyond 6.00 metre span within all leads and lifts as per the direction Enginner-in-charge.	12.71			Per square	

7	Providing in reinforcement cement concrete work smooth finishing of the exposed surface with cement mortar 1:3 (one cement to 3 sand) within all leads and lifts as per the direction Engineer-in-charge.	70.38 square metre	metre Per square metre
8	Providing and 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.	735.07 Killo- gramme.	Per Killo- gramme
9	Steel work welded in built up sections, trusses and framed work including 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 leads and lifts as per the direction of Engineer-in-charge.	0.48 Quintal	Per Quantal
10	Laying and jointing in trenches galvanised mild steel tubes, tube fitting (Light grade) of various dia. (Earth work in trenches to be measured and paid for separately) within all leads and lifts as per the direction of Engineer-in-charge. a) 100 milimetre dia.	24.00 running metre	Per running metre
11	Providing and fixing cast iron sluice valve (Scour valve) of Kirloskar make with hand wheel of following dia and flange table with flange as per IS-780 class upto 300 milimetre dia (including brass spindle) as per IS:2906 class- a) 100 milimetre dia.	4.00 number	Each
12	Construction of chamber for sluice valve with C.I. surfaces bes 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-charge	2 Number	Each
13	Manufacturing, fabrication & fixing of M.S. man hole cover of 0.60x.60 m size made of M.S. Sheet 2.0 mm thick with M.S. angle 35x35x5mm thick with hinges one side and sliding door bolt for locking arrangement i/c cutting,	2 Number	Each

**Terms and conditions:-**

- a) Cement will be issued @ Rs.303/- per bag from Divisional store Differpat.
- b) Steel will be issued @ Rs.4800/- per quintal to the contractor from Divisional store Differpat.
- c) G.I. pipe will be issued free of cost to the contractor from Divisional store Differpat.
- d) The work should be carried out as per specifications.
- e) Nothing shall be paid for the rejected work/material.
- f) Crushed stone aggregate shall be used.
- g) Concrete mixing shall be done with mechanical mixture.
- h) Vibrator shall be used at the time of concreting.
- i) The excavation shall cover all type of soil and rocks involved at site including cutting by chieselling where involved. No blasting will be permitted.
- j) The outlet pipe shall be placed 15 centimetre above the floor level to provide a space for sediments to settle. The outlet pipe shall be provided with a strainer of perforated cast iron.
- k) Royalty, sales tax, octrai etc. will be born by the contractor and proof there os shall have to be given without which no payment shall be done.
- l) The contractor shall be fully responsible for watch and ward of material at the site of work and in case of any theft or loss the recovery shall be made at the double cost of store issue rates.
- m) The rates are inclusive of carriage of all material to the site of work in all leads and lifts.
- n) The work shall be completed with in stipulated period.

**\*SCHEDULE OF QUANTITY \***

Estimated cost:- Rs. 180876.00

Name of work:- Construction of flow irrigation scheme Garuhl kuhl in Gram Panchayat Banuri, Holta, Banuri khas, Moli Chak and Band Vihar in Tehsil Palampur District Kangra(HP).  
(SH)Construction of reinforcement cement concrete channel from RD 5290 to RD 5365 = 75 C/O of 1 Nos outlet and 1 Nos footpath X-ing.

Earnest money:- Rs. 3620.00

Time :- Three Months

Sr. No.	Description of items.	Qty.	Rate in Figure	Words.	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 of foundation	3.30			Per cubic metre	
2	Excavation in drain and channels etc. in all kinds of soil such as pick work,jumper work,blasting work soft and hard rock and saturated soil including dressing of sides and beds and disposing of excavated earth upto a lead of 20 metre and lift upto 1.50 metre within all leads and lifts as per the direction of Engineer-in-charge.	6.13			Per cubic metre	
3	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.	5.24			Per cubic metre	
4	Providing and laying cement concrete 1:6:12 (One cement is to six sand is to twelve 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.	0.12			Per cubic 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:-					
(a)	Foundation,footings bases of column and the like mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	8.40			Per cubic metre	
(b)	Walls (any thickness) butt not less then 0.10 metre thickness) attached pillasters, buttresses, plinth and string courses etc. from top of foundation up to floor two level with in all leads and lifts as per the direction of Engineer-in-charge.	9.38			Per cubic metre	
(c)	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-in-charge.	0.21			Per cubic metre	
6	Providing form work with steel plates 3.15 milimetre thick welded with angle iron in frame 30*30*5 milimetre so as to give a fair finish including centring,shuttering,strutting and propping etc. with wooden battens ballies,height of propping and centring below supporting floor two ceiling not exceeding 4 metre and removal of the same for					
a)	Vertical surfaces such as walls(any thickness)partitions walls and the like including attached pillasters,buttreses plinth string courses and the like within all leads and lifts as per the direction of Engineer-in-charge	168.75			Per square metre	
b)	Flat surfaces such as soffits of suspended floors,roofs,landings and the like floors etc.upto 200 milimetre in thickness within all leads and lifts as per the direction of Engineer-in-charge.	3.04			Per square metre	
7	Providing and 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.	698.10			Per Killo-gramme.	
8	Square rubble masonry coursed with hard stone of approved quality in foundation and plinth including racking out joints in cement mortar 1:6 (One cement is to six sand) within all leads and lifts as per the direction of Engineer-in-charge	2.40			Per cubic metre	
9	20 milimetre(Twenty milimetre) thick cement concrete topping 1:2:3 (One cement is to two to three graded stone	1.80			Per	

	aggregate of size 4.75 milimetre below by volume) laid over and finished monolithic with base concrete within all leads and lifts as per the direction of Engineer-in-charge.	square metre	square metre
10	15 milimetre(fifteen 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 and finished even and smooth in cement mortar 1:3 (One cement is to three	3.30 square metre	Per square metre
11	Providing & laying P.V.C. water stop seal 230x6 mm thick 20 metre center to center of expansion cum construction joint within all leads and lifts as per the direction of Engineer-in-charge.	5.25 running metre	Per running metre
12	Providing and fixing mild steel plates for 90° V-Notch and gates within all leads and lifts as per the direction of Engineer-in-charge.	9.80 Killo-gramme.	Per Killo-gramme

Terms and conditions:-

- a) Cement will be issued @ Rs.303/-per bag from Departmental Divisional store Differpat.
- b) Steel will be issued @ Rs.4800/-per quintal to the contractor from Divisional store.
- c) Crushed stone aggregate and mechanically mixture concrete shall be used.
- d) The work shall be completed with in stipulated period.
- e) Required No. of test cubes of cement concrete 1:2:4 (1 cement:2 sand:4 graded stone agg. of 20 mm nominal size) from site shall be collected for random testing of their compressive strength at 28 days as per provision of
- f) Conditional and telegraphy tender are liable to be rejected.
- g) All pages of the tender from must be signed before submitting the tender falling which the tender is liable to be
- h) The work shall be executed as per IPH/HPWD specification and relevant IS codes to the entire satisfaction of
- i) The security, income tax, sale tax and surcharge and labour welfare cess if any shall deducted from each running bill of the contractor/firm as applicable.
- j) All necessary documents such as income tax clearance certificate, renewal of registration, CST/GST nos shall have to be produced by the contractor/firm before purchase of tender documents.
- k) The offer shall be valid fore 120 days from the date of the opening of the tender.
- l) The rate of all item should be inclusive of all taxes, duties, levies, carriage of material within all leads and lifts etc. to site of work.
- m) Any damages caused to any public and private property during the course of execution of work shall be restored by the contrctor and if, not done within a reasonable time then the same shall be restored by the Department at
- n) Nothing shall be paid for the rejected work/material.
- o) The contractor shall be fully responsible for watch and ward of material at the site of work.