* SCHEDULE OF QUANTITY *

Estimated cost:- Rs. 515403.00

Name of work:- Annual repair and maintenance of water supply scheme Rakh Moon Sugal Chadhiar in Tehsil Baijnath District Kangra HP

Earnest money:- Rs. 10310.00

(SH)Construction of slow sand filter bed 50 square metre each 2 units.

Time :- Three months

Sr. No.	Description of items.	Qty.	Rate in Figure	Rate in 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 earth as directed by the Engineer-in-charge within all leads and lifts.	62.10 cubic metre			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.	10.720 cubic metre.			Per cubic metre	
3	Providing and laying cement concrete 1:5:10(One cement is to five sand is to ten graded stone aggregate 40 milimetre nominal size)with 15% plum and curing completed excluding the cost of form work in retaining walls/breast walls, the size of plums shall usually be 150 milimetre to 300 milimetre as per HPPWD specification within all leads and lifts as per the direction of Engineer:-in:-charge.	10.50 cubic metre			Per cubic metre	
4	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.	0.56 cubic metre			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.	23.46 cubic metre			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.	0.47 cubic metre			Per cubic 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.	2365.44 Killo-gramme.			Per Killo-gramme	
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 in-situ-reinforced concrete and plain concrete work in-					

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	235.58 square metre	Per square metre
b)	Flat surfaces such as soffits of suspended floors roofs landing and the like floor etc.upto 200 milimetre in thickness within all leads and lifts as per the direction of Engineer-in-charge.	10.02 square metre	Per square metre
7	Manufacturing, febrication & 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, welding and priming & Painting two coats of anamel paint sky complete in all respect to the entire satisfaction of the Engineer-in-charge.	2 Number	Each
8	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) 80 milimetre dia.	27.00 running metre	Per running metre
9	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-II for diametres more than 300 milimetre dia complete with bolts,nuts,rubber insertion etc. (The tail end pieces if required shall be measured and paid for separately) within all leads and lifts as per the direction of Engineer-in-charge.		
	a) 80 milimetre dia.	4.00 number	Each
10	Providing and placing new filter media in horizental layers filtering media dully graded,screened,washed and cleaned as specified below as per the direction of Engineer-in-charge within all leads and lifts.		
a)	Top layer:- Find sand(Eff.size 0.20 milimetre to 0.40 milimetre and uniformity co-efficient 2.00 to 3.00.	37.50 cubic metre	Per cubic metre
b)	Second layer:- Coursed sand screened cleaned washed and graded from 3 milimetre to 6 milimetre.	5.00 cubic metre	Per cubic metre
c)	Third layer:- Bajri coursed washed screened and graded from 6 milimetre to 20 milimetre.	5.00 cubic metre	Per cubic metre
d)	Fourth layer:- Bajri coursed screened washed and graded from 20 milimetre to 25 milimetre	5.00 cubic metre	Per cubic metre
e)	Bottom layer:- Broken stone screened, clean, washed and graded form 50 milimetre to 75 milimetre.	5.00 cubic metre	Per cubic metre
11	Providing and placing dry bricks in two layers so as to make drains 1st class standard bricks in filter media bed in two layers so as to make cross drains with in all leads and lifts as per the direction of Engineer-in-charge.	2395.65 Number	Each

Terms and conditions:-

a) Cement will be issued @ Rs.275/-per bag from Divisional store Differpat.

b) Steel will be issued @ Rs.4000/- per quintal to the contractor from Divisional store Differpat.
c) The work shall be completed with in stipulated period.
d) Crushed stone aggregate shall be used.
e) Steel shuttering shall be used at site of work.
f) The work should be carried out as per specifications.
g) Nothing shall be paid for the rejected work/material.
h) The contractor shall be responsible for watch and ward of material issued to him and in case of any theft or loss. The recovery shall be made @ double cost of store issue rates.

"SCHEDULE OF QUANTITY "

Estimated cost:- Rs. 273600.00

Name of work:- Annual repair and maintenance of lift water supply scheme Chadhiar in Tehsil Baijnath District Kangra(HP).

Earnest money:- Rs. 5480.00

(SH)Supplying and fixing of 300 squaremilimetre aluminium armoured cable and 600 ampere thimble.

Time :- One months

Sr. No.	Description of items.	Qty.	Rate in Figures	Rate in Words	Unit	Amount
1	Providing and fixing of 3.5 core aluminium cable 300 squaremilimetre per IS-7098 Part-I-1988 power/control cables, solid coppere conductor upto 6 squaremilimetre and balance standard copper, XLPE insulated, cores laid up, PVC inneersheathed extruded PVC type ST2 sheathed, 650/1100 V grade, suitable for above pump set from starter to pumpset subject to the approval of HPSEB	48.00 metre			Per metre	
2	Providing and fixing of copper thimble 600 ampere complete in all respect with in all lead and lift as per satisfaction of Engineer- in-charge.	12.00 Number			Each	

Terms and conditions:-

a) Material should be ISI marked and warranty of machinery is 6 months after award of tender.
b) The work should be carried out as per HPPWD specifications.
c) Nothing shall be paid for the rejected work/material.
d) The work should be completed within the stipulated period.
e) Dismentalled material should be taken in MAS by the concerned J.E.

* SCHEDULE OF QUANTITY *

Estimated cost:- Rs. 581916.00

Name of work:- Providing separate water supply scheme to SC population of village Kotli and Billing in Tehsil Baijnath District Kangra(HP).

Earnest money:- Rs. 11640.00

(SH)Construction of reinforcement cement concrete storage tank capacity 80000 litres at node no.26, 35000 litres capacity at node no.44 and Construction of pump house.

Time :- Three months

Sr. No.	Description of items.	Qty.	Rate in Figure	Rate in 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 earth as directed by the Engineer-in-charge within all leads and	65.45 cubic metre			Per cubic metre	
2	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.	2.26 cubic metre.			Per cubic metre	
3	Random rubble masonry/polygonal rubble masonry (Uncoursed/brought to courses with hard stone of approved quality in foundation and plinth including levelling up with cement concrete 1:6:12)One cement is to six sand is to twelve graded stone aggregate 20 milimetre nominal size) in cement mortar 1:6 (One cement is to six sand) in breast wall/retaining walls within all leads and lifts as per the direction of Engineer-in-charge.	5.11 cubic metre			Per cubic metre	
4	Providing wood work in frames and doors,windows,clearstory windows and other frames wrought framed and fixed in position First class (Deodar wood) within all leads and lifts as per the direction of Engineer-in-charge.	0.090 cubic metre			Per cubic metre	
5	2nd class brick work using common burnt clay building brick in foundation and plinth in cement mortar 1:6 (One cement is to six sand) with in all leads and lifts as per the direction of Engineer-in-charge.	7.91 cubic metre			Per cubic metre	
6	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.	6.01 cubic metre.			Per cubic metre	
7	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)	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.	19.86 cubic metre			Per cubic metre	
(b)	Foundation,footings bases of column and the like mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	11.73 cubic metre			Per cubic metre	
8	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	7.39 cubic metre			Per cubic metre	

9	6 milimetre (Six milimetre) thick cement plaster to ceiling in cement mortar 1:3 (One cement is to three sand) within all leads and lifts as per the direction of Engineer-in-charge.	16.03 square metre	Per 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 1:6 (One cement is to six sand) within all leads and lifts as per the direction of Engineer-in-charge	31.63 square metre	Per square metre
11	Providing and fixing mild steel fan clamp type 1 of 16 mm dia M.S. bar bent to shape with hooked ends in reinforcement cement concrete slab during laying including painting the exposed portion of loop with in all leads and lifts as per direction of Engineer in charge.	1 Number	Each
12	Boulder filling dry hand packed tightly under floor including carriage of material within all leads and lifts as per the direction of Engineer-in-charge.	1.80 cubic metre	Per cubic metre
13	40 milimetre(Forty 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 the direction of Engineer-in-charge.	9.00 square metre	Per square metre
14	Flush pointing on brick work with cement mortar 1:4 (One cement is to four sand) including carriage of material within all leads and lifts as per the direction of Engineer-in-charge.	39.00 square metre	Per square metre.
15	Providing and fixing mild steel grills of required pattern in wooden frames of windows etc. mild steel flats square or rounded bars with required bolts and nuts or by screws plain grill within all leads and lifts as per the direction of Engineer-in-charge. (Plain grill).	37.80 Killo-gramme	Per Killo gramme
16	Providing and fixing 40 milimetre thick panelled, glazed or pannelled and glazed shutters for doors, window and clearstory window including bright finished/black enamelled iron but hinges with necessary screws in 2nd class deodar wood with in all leads and lifts as per the direction of Engineer in charge.	4.37 square metre.	Per square metre
17	White washing with lime on undecorated wall surfaces two coats to give and even shade including thoroughly/brooming the surface to remove all dirt dust mortar dirt and other foreign matter in ceiling/or sloping roofs within all leads and lifts as per the direction of Engineer-in-charge.	47.66 square metre	Per square metre
18	Distempering two coats with oil bound washable distemper of approved brand and manufacture and of required shade on undecorated wall surfaces to give an even shade over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth with in all leads and lifts as per the direction of Engineer-in-charge	47.66 square metre	Per square metre
19	Applying priming coat over new steel and other metal surfaces after and including preparing the surface by thoroughly cleaning oil grease,dirt dust and other foreign matter and scoured with wire brushes fine steel wool surfaces and sand paper complete with ready mixed priming paint brushing red lead, red xide zinc oxide with in all leads and lifts as per the direction of Engineer in charge	2.52 square metre	Per square metre.
20	Painting two coats (ecxluding priming coat) on new metal and other surface under coat with ready mixed paint brushing to give an even shade including cleaning the surface of all dirt,dust and other foreign matter ready mixed paint other than white with in all leads and lifts as per the direction of Engineer in charge	2.52 square metre	Per square metre.
21	Applying priming coat over new wood and wood based surfaces after and including preparing then surface by thoroughly cleaning oil grease,dirt and other foreign matter,sand papering and knotting with ready mixed paint brushing wood primer pink with in all leads and lifts as per the direction of Engineer-in-charge	4.37 square metre	Per square metre.
22	Painting two coats (excluding priming coat) on new wood and wood based surfaces with enamel paint to give an even shade including cleaning the surface of all dirt dust and other foreign matter sand papering and stopping with enamel paint other than white with in all leads and lifts as per the direction of Engineer in charge	4.37 square metre	Per square metre.
23	Providing plinth protection 50 milimetre thick in cement concrete 1:3:6(One cement is to three sand is to six graded stone aggregate 20 milimetre nominal size)including finishing the top surface of concrete smooth within all leads and lifts as per the direction of Engineer-in-charge.	7.03 square metre	Per square metre.

24	Providing and fixing anodized aluminium sliding door bolts with nuts and screwed complete with in all leads and lifts as per direction of Engineer in charge.		
	a) 250x16 milimetre.	1 Number	Each
25	Providing and fixing aluminium tower bolts (barrel type bolts) with screws etc. complete with in all leads and lifts as per the direction of Engineer in charge.		
	a) 150x10 milimetre.	10 Number	Each
26	Providing and fixing aluminium handles anodized to required colour of shade with necessary acrews etc. complete withy in all leads and lifts as per the direction of Engineer in charge.		
	a) 100 milimetre.	10 Number	Each
27	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.	4190.50 Killo-gramme.	Per Killo-gramme
28	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 in-situ-reinforced concrete and plain concrete work in :-		
a)	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.	16.03 square metre	Per square metre
b)	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.	198.58 square metre	Per square metre
c)	Edges of slab and breaks in floor and walls under 20 centimetre in wide within all leads and lifts as per the direction of Engieer-in-charge.	52.80 running metre	Per running metre
29	Manufacturing, febrication & 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	2 Number	Each
30	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		
	a) 50 milimetre dia.	12.00 running metre	Per running metre
	b) 65 milimetre dia.	12.00 running metre	Per running metre
	c) 100 milimetre dia.	12.00 running metre	Per running metre
31	Manufacturing, fabrication & fixing of mosquito proof ventilation 800 mm height and 300 mm dia cover with dome roofing of M.S. sheet 2 mm thick , G.I mesh along circumfrences and suported on 0.25x5	2 Number	Each
32	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		
	a) 50 milimetre dia.	2.00	Each

		number	
	b) 65 milimetre dia.	2.00 number	Each
	c) 100 milimetre dia.	2.00 number	Each
33	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 materials within all leads and lifts as per the direction of Engineer-in-charge	175.90 square metre	Per square metre
34	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-charge within all leads and lifts size 600x600x750 with 150	2 Number	Each
35	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	2.40 Quintal	Per Quantal
36	1.80 metres high fencing (as per approved design) 1.80 metre reinforcement cement concrete posts 3 metre centre to centre and reinforcement cement concrete struts with 9 horizental lines and two diagonal of galvanised steel barbed wire (IS-278-1962 type-I) weighting 9.38 killogramme/100 metre (minimum) strained and fixing to posts by typing to 6 milimetre galvanised steel bar niles/clips with 1 binding wire (cost of reinforcement cement concrete struts and straining bolts shall be measured and	100.00 running metre	Per running metre

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 setle. The outlet pipe shall be provided with a strainer of perforated cast iron.
k) Royality, 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.

Estimated cost:-	Rs.	562697.00
Earnest money:-	Rs.	11300.00

"SCHEDULE OF QUANTITY "

Name of work:- Providing Lift Irrigation Scheme Gwal, Dadin Rajal in Tehsil Baijnath

SH. Construction of jack well, sump well and disilting tank Job-I)

Time :- Three months

Sr. No.	Description of items.	Qty.	Rate in Figure	Rate in 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 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	185.300 cubic metre			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 of Engineer-in-charge.	5.69 cubic metre			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 in foundation and plinth within all leads and lifts as per the direction of Engineer in charge.	1.22 Cubic metre			Per cubic metre	
4	Providing and laying cement concrete 1:1 1/2:3(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					
a)	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 level within all leads and lifts as per the direction of Engineer-in-charge.	63.45 Cubic metre			Per cubic metre	
5	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.	5820.80 Killo-gramme.			Per Killo-gramme	
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					
a)	Verticl 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.	432.71 Square metre			Per square metre	

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 @ 5400/- per Qtl. To the contractor from Divisional Store Differpatt.
e) Crushed stone aggregate shall be used.
f) Concrete mixing shall be done with mechanical mixture.
g) Vibrator shall be used at the time of concreting
h) Required No. of test cubes of cement concrete 1:1.5:3 from site shall be collected for random testing of
i) Steel shuttering shall be used at site of work.

" SCHEDULE OF QUANTITY "

Estimated cost:- Rs. 500000.00

Name of work:- Providing lift water supply scheme to PC habitation of census village Chudrehar and Molichak in Gram Panchayat Molichak in Tehsil Palampur District Kangra(HP).

Earnest money:- Rs. 10000.00

(SH)Construction of over head storage reservoir of 25000 litre capacity 10 metre staging height.

Time :- Three months

Sr. No.	Description of items	Qty.	Rate in Figure	Rate in Words	Unit	Amount
1	Design and Construction of reinforcement cement concrete circular over head water storage tank of 25000 litre capacity with 10.00 metre staging height 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. **The design and drawings shall be got approved from competent authority before execution.**	25000.00 litre			Per litre	
	The water reservoir should comprise of followings:-					
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					
4	R.C.C sprial stairs of 75 centimetre width including railing of G.I pipe 40 milimetre dia (Medium class)					
5	All inspection gallery of minimum width 75 centimetre shall be provided around the tank at the					
6	All other required accessories such as bell mouth,control valves of cast iron class PN-I one for each					
7	All the fitting shall be embeded in the structure while the work is in progress. All connections shall					
8	The safe bearing capacity of the soil shall be got tested by the contractor, however for design					
9	The work shall be carried out as per technical specification attached in the NIT and direction of					
10	All the pipe fittings, valves and other specials shall be ISI marked and confirm to relevent BIS codes					
11	The scope of work shall included provision of puddle collars and housing chambers for sluice valves					
12	Nothing shall be paid for the rejectred 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 with in all leads of 200					
15	Only steel and/or plywood and/or timber shuttering lined with ply or iron sheets and/or plastic					
16	Following mateials shall be issued to the contractor on the rates as shown against each item at IPH					
	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 quantal (Rs.Four thousand seven hundred only) at IPH store					
c)	Crushed aggregate of good quality should be used.					

" SCHEDULE OF QUANTITY "

Estimated cost:- Rs. 757042.00

Name of work:- Construction of 2 Number tube well for providing irrigation facility to village Andretta and Biara in Tehsil Palampur District Kangra(HP)

(SH)Construction of reinforcement cement concrete duct lining at RD 0 to 294 runningmetre at village Biara, construction of 1 Nos main delivery tank, construction of 3 Nos out lets, construction of 4 Nos foot path crossing and construction of 1 Nos pump house.

Earnest money:- Rs. 15150.00

Time :- Three months

Sr. No.	Description of items.	Quantity	Rate in Figures	Rate in 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	132.95 cubic metre			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 within all leads and lifts as per the direction of Engineer-in-charge.	111.75 cubic metre			Per cubic metre	
3	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 within all leads and lifts as per the direction of Engineer-in-charge	2.74 cubic metre			Per cubic metre	
4	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 of Engineer-in-charge	0.63 cubic metre			Per cubic metre	
5	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 of Engineer-in-charge	20.45 cubic metre			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 propping and centring below supporting floor two ceiling not exceeding 4 metre and removal of the same for in-situ reinforced concrete and plain concrete work in-					
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.	575.40 square metre			Per square metre	
b)	Edges of slab and breaks in floor and walls under 20 centimetre in wide within all leads and lifts as per the direction of Engieer-in-charge.	23.84 running metre			Per running metre	
c)	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.	28.03 square metre			Per square metre	
7	Providing and laying cement concrete 1:$1^{1}/_{2}$: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 in:-					
a)	Foundation,footings bases of column and the like mass concrete within all leads and lifts as per the	0.65			Per cubic	

	direction of Engineer-in-charge.	cubic metre	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.	1.68 cubic metre	Per cubic metre
8	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 work in:-		
a)	Foundation footings and basis of columns etc. and mass concrete within all leads and lifts as per the direction of Engineer-in-charge.	30.87 cubic metre	Per cubic metre
b)	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.	3.95 cubic metre	Per cubic metre
c)	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.	35.28 cubic metre	Per cubic metre
9	40 milimetre(Forty 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 the direction of Engineer-in-charge.	1.62 square metre	Per square metre
10	Random rubble masonry/polygonal rubble masonry (Uncoursed/brought to courses with hard stone of approved quality in foundation and plinth including levelling up with cement concrete 1:6:12)One cement is to six sand is to twelve graded stone aggregate 20 milimetre nominal size) in cement mortar 1:6 (One cement is to six sand) in breast wall/retaining walls within all leads and lifts as per the direction of Engineer-in-charge.	5.60 cubic metre	Per cubic metre
11	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.	8.28 cubic metre	Per cubic metre
12	20 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 1:4 (One cement is to four sand) within all leads and lifts as per the direction of Engineer-in-	34.21 square metre	Per square metre
13	20 milimetre(Twenty milimetre) thick cement concrete topping 1:2:3(One cement is to two to three graded stone 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.	2.70 square metre	Per square metre
14	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.	4060.71 Killo-gramme	Per Killo-gramme.
15	Providing and laying PVC water stop seal as per required size within all leads and lifts as per the direction of Engineer-in-charge.	22.05 running metre	Per running metre
16	Providing 5 milimetre thick mild steel plate complete in all respect within all leads and lifts as per the direction of Engineer-in-charge.	47.04 Killo-gramme	Per Killo-gramme

17	Providing wood work in frames and doors,windows,clearstory windows and other frames wrought framed and fixed in position 2nd class (Deodar wood) within all leads and lifts as per the direction of Engineer-in-charge.	0.09 cubic metre	Per cubic metre
18	2nd class (Second class) 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.	7.91 cubic metre	Per cubic metre
19	6 milimetre (Six milimetre) thick cement plaster to ceiling in cement mortar 1:3 (One cement is to three sand) within all leads and lifts as per the direction of Engineer-in-charge.	16.03 square metre	Per square metre
20	Providing and fixing mild steel fan clamp Type-I of 16 milimetre dia mild steel bar bent to shape with hooked ends in reinforcement cement concrete slab during laying including painting the exposed portion of loop as per standard design with in all leads and lifts as per direction of Engineer in charge.	1 Number	Each
21	Boulder filling dry hand packed tightly unedr floor including carriage of material within all leads and lifts as per the direction of Engineer-in-charge.	1.80 cubic metre	Per cubic metre
22	Flush pointing of brick work with cement mortar 1:4 (One cement is to four sand) including carriage of material within all leads and lifts as per the direction of Engineer-in-charge.	39.00 square metre	Per square metre
23	Providing and fixing mild steel grills of required pattern in wooden frames of windows etc. mild steel flats square or rounded bars with required bolts and nuts or by screws plain grill within all leads and lifts as per the direction of Engineer-in-charge. (Plain grill).	37.80 Killo gramme	Per Killo-gramme
24	Providing and fixing 40 milimetre thick panelled,glazed or pannelled and glazed shutters for doors, window and clearstory window including bright finished/black enamelled iron but hinges with necessary screws in 2nd class deodar wood with in all leads and lifts as per the direction of Engineer in charge.	4.37 square metre	Per square metre.
25	White washing with lime on undecorated wall surfaces two coats to give and even shade including thoroughly/brooming the surface to remove all dirt dust mortar dirt and other foreign matter within all leads and lifts as per the direction of Engineer-in-charge.	47.60 square metre	Per square metre
26	Distempering two coats with oil bound washable distemper of approved brand and manufacture and of required shade on undecorated wall surfaces to give an even shade over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth with in all leads and lifts as per the direction of Engineer-in-charge.	47.60 square metre	Per square metre
27	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 materials within all leads and lifts as per the direction of Engineer-in-charge.	75.01 square metre	Per square metre
28	Applying priming coat over new steel and other metal surfaces after and including preparing the surface by thoroughly cleaning oil grease,dirt and other foreign matter and scoured with wire brushes and steel wool scrapers and sand paper complete with in all leads and lifts as per the direction of	4.92 square	Per square metre

	lind steel wool scrapers and sand paper complete with in all leads and lifts as per the direction of Engineer in charge.	metre	metre
29	Painting two coats (Excluding priming costs) on new steel and other metal surfaces with enamel paint other than white paint brushing to give an any shade including cleaning the surfaces of all dirt, dust and other foreign matters with in all leads and lifts as per the direction of Engineer-in charge.	4.92 square metre	Per square metre.
30	Applying priming coat over new wood and wood based surfaces after and including preparing then surface by thoroughly cleaning oil grease,dirt and other foreign matter,sand papering and knotting with ready mixed paint brushing wood primer pink with in all leads and lifts as per the direction of Engineer-in charge.	5.58 square metre	Per square metre
31	Painting two coats (excluding priming coat) on new wood and wood based surfaces with enamel paint to give an even shade including cleaning the surface of all dirt dust and other foreign matter sand papering and stopping with enamel paint other than white with in all leads and lifts as per the direction of Enginer in charge.	5.58 square metre	Per square metre.
32	Providing plinth protection 50 milimetre thick in cement concrete 1:3:6(One cement is to three sand is to six graded stone aggregate 20 milimetre nominal size)including finishing the top surface of concrete smooth within all leads and lifts as per the direction of Engineer-in-charge.	7.04 square metre	Per square metre
33	Providing stone kharjana drain 45 centimetre wide including 25 centimetre side stone laid in cement mortar 1:6 (One cement is to six sand) within all leads and lifts as per the direction Enginner-in-charge.	7.04 running metre	Per running metre
34	Providing and fixing anodized aluminium sliding door bolts with nuts and screwed complete with in all leads and lifts as per direction of Engineer in charge.		
	a) 250x16 milimetre.	1 Number	Each
35	Providing and fixing aluminium tower bolts (barrel type bolts) anodized transparent or dyed to required shade and colour with screws etc. complete with in all leads and lifts as per the direction of Engineer in charge.		
	a) 150x10 milimetre)	2 Number	Each
	b) 100x10 milimetre)	8 Number	Each
36	Providing and fixing aluminium handles anodized to required colour of shade with necessary acrews etc. complete withy in all leads and lifts as per the direction of Engineer in charge.		
	a) 125 milimetre)	2 Number	Each
	b) 100 milimetre)	8 Number	Each

Terms and conditions:-

Cement will be issued @ Rs.255/-per bag from Divisional store Differpat.

b) Steel will be issued @ Rs.5100/-per quintal to the contractor from Divisional store Differpat.
c) The work should be carried out as per specifications.
d) Nothing shall be paid for the rejected work/material.
e) Crushed stone aggregate and mechanically mixture concrete shall be used.
f) The work should be completed within the stipulated period.
g) The contractor shall be responsible for watch and ward of material in case of any theft or loss the recovery shall be made at the double cost of issue rates.