

**\* SCHEDULE OF QUANTITY \***

Name of work:- Augmentation of flow irrigation scheme Gajruhal, Charnamati, Lower Baijnath, Jaduhl, Rainki, Chaloti, Bhattu, Dhanag, Uttrela and Taras in Tehsil Baijnath District Kangra(HP).

(SH)Construction of 1 No Curtain/Guard wall, 1 No. Desilting chamber, 1 No. Escape structure (Bhattoo Kuhl).

Estimated cost:- Rs. 351715.00

Earnest money:- Rs. 7040.00

Time :- Three months

Sr. No.	Description of items.	Qty.	Rate in Figure	Unit	Amount.
			Words.		
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.	72.62	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.	3.47	cubic metre.	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 of Engineer-in-Charge.	7.72	cubic metre.	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 in-situ-reinforced concrete and plain concrete work in-				
a)	Vertical surfaces such as walls(any thickness)partitions walls and the like including attached pillars,buttresses plinth string courses and the like within all leads and lifts as per the direction of Engineer-in-charge	166.02	square metre	Per square 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)	Walls (any thickness) butt not less then 0.10 metre thickness) attached pillars, 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.	25.60	cubic metre	Per cubic metre	
6	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.	1646.88	Killo-gramme.	Per Killo-gramme	
7	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.	1.70	Quintal	Per Quantal	
8	Providing and fixing mild steel gate complete within all leads and lifts as per the direction of Engineer-in-charge.	200.00	Killo-gramme	Per Killo-gramme	

**Terms and conditions:-**

- a) Cement will be issued @ Rs.307/-per bag from Departmental Divisional store Differpat.

- b) Steel will be issued @ Rs.5700/-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 within 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
- f) Conditional and telegraphy tender are liable to be rejected.
- g) All pages of the tender form must be signed before submitting the tender failing which the tender is liable to be treated as invalid.
- h) The work shall be executed as per IPH/HPWD specification and relevant IS codes to the entire
- i) The security, income tax, sale tax and surcharge and labour welfare cess if any shall be 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 for 120 days from the date of the opening of the tender.
- l) The rate of all items 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 contractor and if, not done within a reasonable time then the same shall
- 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.
- p) The detailed structural/architectural design of head weir, escape structure and aqueduct shall be got approved by the Firm/tenderer before executing the work at his own cost and nothing shall be paid extra in account of contractor/firm.
- q) The safe bearing capacity of the soil for all the Civil/Water retaining structure shall be got tested by the firm/tenderer at his own cost from the HPPWD Lab. Or any other Govt. Institution i.e. NIT Hamirpur.
- r) The contractor shall use 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%

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 (SH)Construction of reinforcement cement concrete main channel from RD 150 to 300=150 runningmetre and 1 No. V-Notch Outlet (Gajruhl kuhl)

Estimated cost:- Rs. 496746.00

Earnest money:- Rs. 9940.00

Time :- Three months

Sr. Description of items. No.	Qty.	Rate in Figure	Unit	Amount.
		Words.		
1 Excavation in drain and channels etc. in all kinds of soil such as pick work,jumper work including dressing of sides and beds and disposing of excavated earth within all leads and lifts as per the direction of Engineer-in-charge.	54.00		Per cubic metre	
2 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				
a) 50% Pick work, 50% Jumper work	1.26		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.	10.25		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				
a) Vertical surfaces such as walls(any thickness)partitions walls and the like including attached pilasters,butresses plinth string courses and the like within all leads and lifts as per the direction of Engineer-in-charge	402.90		Per square 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) Walls (any thickness) butt not less then 0.10 metre thickness) attached pilasters, 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.	47.09		Per cubic metre	
6 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.	1648.24		Per Killo-gramme.	
7 Providing & fixing P.V.C. water stop seal 20 metre center to center of expension cum construction joint within all leads and lifts as per the direction of Engineer-in-charge.	14.63		Per running metre	
8 Square rubble masonry coursed with hard stone of approved quality in foundation and plinth including racking out joints in cement mortar 1:4 (One cement is to four sand) within all leads and lifts as per the direction of Engineer-in-charge	0.73		Per cubic metre	
9 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 and finished even and	3.68		Per square metre	
10 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	0.11		Per Quantal	
11 50 milimetre Fifty milimetre) thick cement concrete flooring 1:2:4 (One cement is to two is to four graded stone aggregate 20 milimetre nominal size) laid over and finished with a floating coat of neat cement within all leads and lifts as per the direction of Engineer-in-charge.	0.36		Per square metre	

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- b) Steel will be issued @ Rs. 5700/-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
- f) Conditional and telegraphy tender are liable to be rejected.
- g) All pages of the tender from must be signed before submitting the tender failing which the tender
- h) The work shall be executed as per IPH/HPWD specification and relevant IS codes to the entire
- 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
- 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.
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- 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.
- p) The detailed structural/architectural design of head weir, escape structure and acqueduct shall
- q) The safe bearing capacity of the soil for all the Civil/Water retaining structure shall be got tested
- r) The contractor shall use vibrator/concrete mixter without any failure and in caase of any

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(SH)Construction of reinforcement cement concrete main channel from RD 360 to 450 =90 runningmetre Rainki Kuhl.

Estimated cost:- Rs. 318484.00

Earnest money:- Rs. 6370.00

Time :- Three months

Sr. Description of items. No.	Qty.	Rate in Figure	Unit	Amount.
		Words.		
1 Excavation in drain and channels etc. in all kinds of soil such as pick work,jumper work including dressing of sides and beds and disposing of excavated earth within all leads and lifts as per the direction of Engineer-in-charge.	48.31		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.	7.59		Per cubic metre.	
3 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	215.24		Per square metre	
a) Vertical surfaces such as walls(any thickness)partitions walls and the like including attached pillars,buttresses plinth string courses and the like within all leads and lifts as per the direction of Engineer-in-charge	30.32		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:-	1061.13		Per Killo-gramme.	
a) Walls (any thickness) butt not less than 0.10 metre thickness) attached pillars, 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.	9.45		Per running metre	
5 Providing and laying mild steel/or 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.	100.00		Per Killo-gramme	
6 Providing & fixing P.V.C. water stop seal 20 metre center to center of expension cum construction joint within all leads and lifts as per the direction of Engineer-in-charge.				
7 Providing & fixing mild steel gate complete in all respect within all leads and lifts as per the direction of Engineer-in-charge.				

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- r) The contractor shall use vibrator/concrete mixer without any failure and in case of any