

<b>SCHEDULE OF QUANTITY</b>							
<b>Name of work:- Improvement of Khandi Kuhl in GP Dusra Khaboo in Tehsil Balh District Mandi (HP)</b>					<b>Estimated Cost:- Rs. 219644/- only</b>		
<b>(SH:- Providing Cement concrete lining of kuhl at RD-720m to 1059m &amp; cement concrete flooring, cement plastering etc at different RD's of kuhl) Job No-1</b>					<b>Earnest Money:- 4400.00 /only</b>		
					<b>Time Limit:- Three months</b>		
S. No.	Items of work	Quantity		Rates		Unit	Amount
				In Figures	In words		
1	2	3		4	5	6	7
1	<b>Excavation in drain &amp; channels</b> etc in earth work in all kind of soil, such as pick work, jumper work, blasting hard or soft rock by chiselling where the blasting work is prohibited, disposed earth to be levelled and neatly dressed complete in all respect within all leads & lifts as per the direction and satisfaction of Engineer-in-Charge.	60.21	cum			Per cubic meter	
2	<b>Dressing of bed</b> and preparation of sub grade for lining work in pick work complete job in all respects in all leads and lifts as per entire satisfaction of Engineer-in-Charge.	118.65	sqm			Per Square meter	
3	<b>Dressing of side</b> slopes and preparation of sub grade for lining work in pick work complete job in all respects in all leads and lifts as per entire satisfaction of Engineer-in-Charge.	264.42	sqm			Per Square meter	
4	<b>Cement Concrete lining 15 cm thick or less</b> for irrigation channels using cement concrete 1:3:6 (1cement, 3 sand and 6 graded stone aggregate 20mm nominal size) excluding cost of form work in:- all leads and lifts as per the entire satisfaction of Engineer-in-charge.						
i)	<b>Hand mixed concrete lining in bed</b> complete job in all respects as per the entire satisfaction of Engineer-in-charge.	7.63	cum			Per cubic meter	
ii)	<b>Hand mixed concrete lining in side slopes</b> complete job in all respects as per the entire satisfaction of Engineer-in-charge.	19.83	cum			Per cubic meter	
5	<b>Extra allowance for form work</b> in concrete lining on side slopes complete job in all respects as per the entire satisfaction of Engineer-in-charge.	19.83	cum			Per cubic meter	
6	<b>Cement Concrete flooring in 1:2:4</b> (1cement: 2sand: 4graded stone aggregate 20mm nominal size) laid in one layer and finished with a floating coat of neat cement, complete job in all leads and lifts as per the direction and best satisfaction of the Engineer-in-charge. <b>40mm thick</b>	175.00	sqm			Per Square meter	
7	<b>15mm cement plaster</b> in single coat on rough side of brick\stone masonry / concrete walls for interior plastering up to floor two level including arrises, internal rounded angles, chamfers and\or rounded angles not exceeding 80mm in girth and finished even and smooth in <b>C.M 1:6 (1 Cement:6 Sand)</b> complete job in all leads and lifts as per the direction and best satisfaction of the Engineer-in-charge.	111.22	sqm			Per Square meter	
8	<b>Cutting in earth work</b> in all kind of soil & pick work, jumper work, chiselling out of rock where blasting is prohibited slushy daldal and saturated soil including with in all heights up to all leads in pick & jumper work complete in all respect with in all leads and lifts as per the direction of Engineer-in-Charge.	9.68	cum			Per cubic meter	

**TERMS AND CONDITIONS:-**

- The cement will be issued @ Rs.225 per bag on proper indents on recoverable basis from IPH Divisional store Baggi.
- The concrete should be volume batched, mechanically mixed for which nothing extra shall be paid.
- The work should be executed as per HPPWD specifications and as per relevant codes.
- The rates should be inclusive of carriage of materials in all leads and lifts to the site of work.
- Crushed stone aggregate shall be used in all concrete work.
- The contractor will be responsible for watch and ward of material issued to him and in the event of any theft or loss, the recovery will be made at the double cost of store rates.
- Security as applicable and 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and **GST as applicable.**

**Total:-**

**Executive Engineer  
IPH Division Baggi**

<b>SCHEDULE OF QUANTITY</b>							
<b>Name of work:- Improvement of Khandi Kuhl in GP Dusra Khaboo in Tehsil Balh District Mandi (HP)</b>				<b>Estimated Cost:- Rs. 184214/- only</b>			
<b>(SH:- C/O wing walls in plum concrete at different loations and different RD's) Job No-2</b>				<b>Earnest Money:- 3700.00 /only</b>			
				<b>Time Limit:- Three months</b>			
<b>S. No.</b>	<b>Items of work</b>	<b>Quantity</b>		<b>Rates</b>		<b>Unit</b>	<b>Amount</b>
				<b>In Figures</b>	<b>In words</b>		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	
1	Excavation in foundations,trenches etc in earth work in all kind of soil, such as pick work, jumper work, blasting hard or soft rock by chiselling where the blasting work is prohibited slushy daldal and saturated soil including pumping or bailing out water with in all heights, stacking the excavated soil within all leads clear from the edge of excavation and then returning the stacked soil in 15cm(fifteen centimetres) layers, when required into plinths, sides of foundations etc consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth, as per the direction of Engineer-in-Charge with in all leads and lifts.	26.57	cum			Per cubic meter	
2	Providing form work with steel plates 3.15 mm thick welded with angles iron in frame 30 x 30 x 5 mm so as to give a fair finish including centering shuttering struting and propping etc. with wooden battens and ballies height of propping and centering below supporting floor to ceiling not exceeding 4 meters and removal of the same for in-situ- reinforced concrete and plain concrete in:-						
i	Vertical surface such as wall (any thickness) partition and the like including attached pillasters, buttresses, etc. plinth and string course complete job in all respects with in all leads and lifts. As per the direction and best satisfaction of Engineer-in-charge.	99.12	sqm			Per Square meter	
3	P/L cement concrete 1:5:10(1:cement :5 sand:10 graded stone aggregate 40mm nominal size) with 15% plum and curing complete excluding cost of form work in Retaining wall / Breasts wall, the size of plum shall usely be 150mm to 300mm as per HPPWD specifications, complete job in all respect within all leads and lifts as per the best satisfaction of the Engineer-in-charge.	36.96	cum			Per cubic meter	

**TERMS AND CONDITIONS:-**

- The cement will be issued @ Rs.225 per bag on proper indents on recoverable basis from IPH Divisional store Baggi.
- The concrete should be volume batched, mechanically mixed for which nothing extra shall be paid.
- The work should be executed as per HPPWD specifications and as per relevant codes.
- The rates should be inclusive of carriage of materials in all leads and lifts to the site of work.
- Crushed stone aggregate shall be used in all concrete work.
- The contractor will be responsible for watch and ward of material issued to him and in the event of any theft or loss, the recovery will be made at the double cost of store rates.
- Security as applicable and 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surchage on Income Tax and **GST as applicable.**

**Total:-**

**Executive Engineer  
IPH Division Baggi**

<b>SCHEDULE OF QUANTITY</b>							
<b>Name of work:- Improvement of Khandi Kuhl in GP Dusra Khaboo in Tehsil Balh District Mandi (HP)</b>				<b>Estimated Cost:- Rs. 274233/- only</b>			
<b>(SH:- C/O Retaining walls and Breast walls at RD-80m to 88m, RD-330m to 337m, RD-350m to 362m and RD-387m to 390m)</b>				<b>Earnest Money:- 5500.00 /only</b>			
<b>Job No-3</b>				<b>Time Limit:- Three months</b>			
<b>S. No.</b>	<b>Items of work</b>	<b>Quantity</b>		<b>Rates</b>		<b>Unit</b>	<b>Amount</b>
				<b>In Figures</b>	<b>In words</b>		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	
1	Excavation in foundations,trenches etc in earth work in all kind of soil, such as pick work, jumper work, blasting hard or soft rock by chiselling where the blasting work is prohibited slushy daldal and saturated soil including pumping or bailing out water with in all heights, stacking the excavated soil within all leads clear from the edge of excavation and then returning the stacked soil in 15cm(fifteen centimetres) layers, when required into plinths, sides of foundations etc consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth, as per the direction of Engineer-in-Charge with in all leads and lifts.	21.19	cum			Per cubic meter	
2	Providing & laying cement concrete 1:6:12(1:cement :6 sand:12 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in foundation and plinth including carriage of material within all leads and lifts as per the direction and satisfaction of Engineer-in-Charge.	5.36	sqm			Per Square meter	
3	Random rubble masonry/polygenal rubble masonry ( un-coursed/brought to courses) with hard stone of approved quality in foundation and plinth including levelling up with C.C 1:6:12(1:cement:6 sand :12 graded stone aggregate 20mm nominal size) in CM 1:6(1:cement:6sand complete in all respect including all leads and lifts.	47.17	cum			Per cubic meter	
4	Stone filling behind Retaining walls/ Breast walls complete job in all respects as per the direction and best satisfaction of Engineer-in-charge.	18.52	cum			Per cubic meter	

**TERMS AND CONDITIONS:-**

- 1 The cement will be issued @ Rs.225 per bag on proper indents on recoverable basis from IPH Divisional store Baggi.
- 2 The concrete should be volume batched, mechanically mixed for which nothing extra shall be paid.
- 3 The work should be executed as per HPPWD specifications and as per relevant codes.
- 4 The rates should be inclusive of carriage of materials in all leads and lifts to the site of work.
- 5 Crushed stone aggregate shall be used in all concrete work.
- 6 The contractor will be responsible for watch and ward of material issued to him and in the event of any theft or loss, the recovery will be made at the double cost of store rates.
- 7 Security as applicable and 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and **GST as applicable.**

**Total:-**

**Executive Engineer  
IPH Division Baggi**

SCHEDULE OF QUANTITY						
Name of work : -A/R&M/O Balh Valley (Right Bank) Medium Irrigation Project Zone No. 5 Distt. Mandi (H.P.) (SH:- C/O Outlet chamber & Providing , laying, jointing & testing of HDPE pipe 250mm & 160mm dia).					Estimated Cost : Rs. 207435/- only.	
					Earnest money : Rs. 4200/- only.	
					Time limit : Three months	
S.No.	DESCRIPTION OF ITEMS	Qty.	UNIT	RATE		AMOUNT
				In fig.	In words	
1	Excavation in foundation and trenches (For pipes and pits) up to all depths and in all classification of earth work such as pick work, jumper work, saturated soil including bailing or pumping out of water, blasting soft or hard rock or chiselling or wedging out of soft/hard rock , where blasting is prohibited, in all lifts including trimming and dressing of sides, levelling of beds to correct grade including shoring, strutting , planking, timbering and dewatering where ever required. Stacking usable and unusable material/soil seperately and after laying, jointing and testing of pipes, returning the usable soil in 15cm layers by ramming and watering and then disposing of all surplus excavated soil/ unusable material as directed within all leads/ lifts including restoration of unmetalled surfaces to its original condition and including cost of diversion for traffic, night signal boards, fixing caution boards, crossing over trenches for access to houses, fencing etc. complete in all respects within all leads and lifts as per direction of the Engineer-in-charge.	55.69	cum	Per cum		
2	Providing and laying <b>cement concrete 1:4:8</b> (1 cement:4 sand:8 graded stone aggregate 40mm nominal size) and curing complete excuding cost of form work in foundation and plinth in all leads and lifts as per directions of Engineer-in-charge.	0.73	cum	Per Cum		
3	Providing and laying <b>cement concrete 1:1.5:3</b> (1cement:1.5 sand : 3graded stone aggregate 20mm nominal size) and curing complete excluding cost of form work and re-inforcement for reinforced concrete work in:-					
a.	<b>Foundations, footings, basis</b> of columns & the like and mass concrete, complete in all respect in all leads and lifts as per the direction of Engineer-in-charge.	0.97	cum	Per cum		
b	<b>Wall (any thickness but not less than 0.10m thickness)</b> attached pillasters, buttresses, plinth and string courses, etc. from top of foundation level upto all levels complete in all respect in all leads and lifts as per the direction of Engineer-in-charge.	2.16	cum	Per cum		
4	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fairfinish I/c centring , shuttering , strutting and propping etc.with wooden battens and ballies, height of propping and centring below supporting floor to ceiling not exceeding 4m and removal of the same for insitu- reinforced concrete & plain concrete work in :-					
a.	<b>Vertical surfaces</b> such as walls (any thickness), partitions and the like including attached pillasters, buttress,plinthand string courses and the like in all leads and lifts as per the direction of Engineer-in-charge.	21.76	Sqm.	Per Sqm.		
5	Providing <b>Tor steel reinforcement</b> for R.C.C. work including bending, binding and placing in position complete upto all levels complete in all respect in all leads and lifts as per the direction of Engineer-in-charge.	187.46	Kg.	Per Kg.		
6	Providing, laying, jointing and testing of HDPE pipe in trenches to required grades as per IS: 4984-1995 latest with up to date ammendments of following OD pipes, material grade and class of pipes. The jointing of pipes should be done by way of butt fusion welding as per relevant IS Code and specifications including required fittings complete in all respect.					
a.	<b>250mm OD HDPE pipe, material grade-PE-80, class PN-6</b>	110.00	Rmt.	Per meter		
b.	<b>160mm OD HDPE pipe, material grade-PE-80, class PN-6</b>	3.00	Rmt.	Per meter		
7	Providing and fixing HDPE equal tee PE-80- NP6 complete in all respect as per the best satisfaction of Enginerer-in-charge. 250mm dia	1.00	No	Each		

8	Providing and fixing HDPE reducer PE-80- NP6 complete in all respect as per the best satisfaction of Engineerer-in-charge. 250x160mm dia	1.00	No	Each			
9	Providing and fixing HDPE pipe end (IS:4984-1995 as amended upto date class PE-80 thickness PN6 in all respect as per the best satisfaction of Engineerer-in-charge. 160mm dia	2.00	No's	Each			
10	Providing and fixing HDPE cap (IS:4984-1995 as amended upto date class PE-80 thickness PN6 in all respect as per the best satisfaction of Engineerer-in-charge. 160mm dia	1.00	No	Each			
11	Providing and fixing MS flange in accordance to Flange Table-5 including nut & bolts of required size, 3mm thick asbestos gasket etc. complete job in all respects within all leads and lifts as per the direction and entire satisfaction of Engineer-in-charge. 150mm dia	1.00	No	Each			

**Term and conditions:**

- 1 The cement will be issued @ Rs.225 per bag, Tor steel @ 4700 /- Qtl. on proper indent on recoverable basis from Divisional store Baggi.
- 2 The concrete will be volume batched , mechanically mixed and vibrated for which nothing extra shall be paid.
- 3 Only mechanically crushed stone aggregate will be used in concrete work.
- 4 The rates should be inclusive of carriage of materials in all leads and lifts to the site of work.
- 5 The contractor will be responsible for watch and ward of material issued to him and in the event of any theft or loss, the recovery will be made at the double cost of store rates.
- 6 Security as applicable and 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and **GST as applicable.**
- 7 Nothing will be paid for sub standrad work/material.
- 8 The HDPE pipes and other HDPE fitting shall be as per relavent code & specification.

**Total:-**

**Executive Engineer  
IPH Division Baggi**

<b>SCHEDULE OF QUANTITY</b>							
<b>Name of work:- WSS Palan Dugh Batahan in GP Kothi Gehri in Tehsil Balh District Mandi (HP) (SH:- C/O 3Nos source intakes at various sources of the scheme and C/O RCC stoarge tank of 10000 liters capacity at village Batahan No-2) Job No-1</b>					<b>EstimatedCost:-</b>		<b>Rs.142358/only</b>
					<b>Earnest Money:-</b>		<b>Rs.2900/-only</b>
					<b>Time Limit:-</b>		<b>Three months</b>
<b>S. No.</b>	<b>Items of work</b>	<b>Quantity</b>		<b>Rates</b>		<b>Unit</b>	<b>Amount</b>
				<b>In Figures</b>	<b>In words</b>		
<b>1</b>	<b>2</b>	<b>3</b>		<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	Excavation in foundations,trenches etc in earth work in all kind of soil, such as pick work, jumper work, blasting hard or soft rock by chiselling where the blasting work is prohibited slushy daldal and saturated soil including pumping or bailing out water with in all heights, stacking the excavated soil within all leads clear from the edge of excavation and then returning the stacked soil in 15cm(fifteen centimetres) layers, when required into plinths, sides of foundations etc consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth, as per the direction of Engineer-in-Charge with in all leads and lifts.	18.32	cum			Per cubic meter	
2	Providing & laying cement concrete 1:3:6(1:cement :3 sand:6 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in foundation and plinth including carriage of material within all leads and lifts as per the direction and satisfaction of Engineer-in-Charge.	2.71	cum			Per cubic meter	
3	Providing and laying Reinforced cement concrete work 1:1.5:3 (1:cement:1.5sand:3graded stone aggregate 20mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work in:						
i)	Foundation & plinth complete in all respect as per the direction and satisfaction of Engineer-in-Charge.	2.42	cum			Per cubic meter	
ii)	Walls ( any thickness but not less than 0.10m thicknes) including attached butteresses, pillaster plinth and string courses etc. from top of foundation level upto floor two level within all leads and lifts as per the direction and satisfaction of Engineer-in-Charge.	4.61	cum			Per cubic meter	
4	Providing and laying Reinforced cement concrete work 1:2:4(1cement:2sand:4graded stone aggregate 20mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work in:						
i)	Suspended floors, roofs, landing, shelves and their support balconies, beams, cantilevers, girders bressumers etc. within all leads and lifts as per the direction and satisfaction of Engineer-in-Charge.	0.87	cum			Per cubic meter	
5	Providing Mild steel/Tor steel reinforcement for RCC work including bending, binding and placing in position complete in all respect within all leads and lifts as per the direction and satisfaction of Engineer-in-Charge.	596.26	Kg			Per Kg	
6	Providing form work with steel plates 3.15 mm thick welded with angles iron in frame 30 x 30 x 5 mm so as to give a fair finish including centering shuttering struting and propping etc. with wooden battens and ballies height of propping and centering below supporting floor to ceiling not exceeding 4 meters and removal of the same for in-situ- reinforced concrete and plain concrete in:-						
i)	Foundation, footings and bases of the column and the like complete job in all respect as per the direction and satisfaction of Engineer-in-Charge.	2.70	sqm			Per sqm	
ii)	Vertical surface such as wall (any thickness) partition and the like including attached pillasters, butresses, etc. plinth and string course complete job in all respects with in all leads and lifts. As per the direction and best satisfaction of Engineer-in-charge.	67.31	sqm			Per sqm	
iii)	Flat surfaces such as soffits of suspended floor, roofs, landing and the like complete in all respect complete in all respects as per the directions and best satisfaction of the Engineer-in-charge.	6.01	sqm			Per sqm	
7	Laying, jointing and testing of GI pipes (Light Class) of following diameter screwed and socketted pipes, including GI fittings in all leads and lifts as per the directions and satisfaction of Engineer-in-charge, (Earth work in trenches to be measured and paid for seperatly):-						
i)	<b>32mm dia (LC)</b>	30.00	Meter			Per meter	

8	White washing with lime on undecorated wall surfaces(two coats) to give an even shade including thoroughly brooming the surface for remove all dirt, dust mortar dirt and other foreign matter with in all leads and lifts.	68.41	sqm			Per sqm	
9	Providing and fixing of Gun metal Peet valves with Hand wheel of following dia in all leads and lifts as per the directions and satisfaction of Engineer-in-charge, (Earth work in trenches to be measured and paid for seperately):-						
	15mm dia	3.00	No.			Each	
	20mm dia	2.00	No.			Each	
	25mm dia	1.00	No.			Each	
10	Providing and fixing of MS sheet man hole cover fabricated from 3.15mm thick MS sheet fixed from all sides with ISA-40x25x5mm top angle iron frame hanged on ISA 35x35x5mm, bottom angle iron frame as per drawing of department. Pipes of MS flat 20x4mm, 0.15m long be fixed on all sides as hold fast. The operation of fabrication shall include cutting of MS sheet and Angles and welding of MS sheet, angles , hinges, handles 150mm long, 20x4mm flat, locking arrangements and applying a priming coat of steel primer after pre-treatment of surface as per the direction and entire satisfaction of the Engineer-in-charge.						
j)	600x600 mm size (For storage tank)	1.00	No.			Each	
ii)	450x450mm size (For Intake chambers)	1.00	No.			Each	

**TERMS AND CONDITIONS:-**

**Total:-**

- 1 The cement will be issued @ Rs.225 per bag, Tor steel @ Rs.4700/Quintal and GI pipes free of cost on proper indents on recoverable basis from IPH Divisional store Baggi.
- 2 The concrete should be volume batched, mechanically mixed for which nothing extra shall be paid.
- 3 The work should be executed as per HPPWD specifications and as per relevant codes.
- 4 The rates should be inclusive of carriage of materials in all leads and lifts to the site of work.
- 5 Crushed stone aggregate shall be used in all concrete work.
- 6 The contractor will be responsible for watch and ward of material issued to him and in the event of any theft or loss, the recovery will be made at the double cost of store rates.
- 7 Security as applicable and 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and **GST as applicable.**

**Executive Engineer  
IPH Division Baggi**