

Schedule of Quantity						
Name of work- Providing lift irrigation scheme to Bhadeuli in Tehsil Bhunter Distt. Kullu H.P. (SH:- C/O 11 no's outlet & I/J of HDPE pipes in zone-II & III at various RD's)					Estimated Cost Rs. :	302972.00
					Earnest Money Rs :	6060.00
					Time Limit :	3 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	474.35	Cum			
2.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	3.52	Cum			
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in: -					
3.01	Foundation footing bases of columns and like mass concrete	3.52	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pillars buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	7.59	Cum			
4.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-					
4.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	101.20	Sqm			
5.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.c cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	385.00	Kg			
6.00	Providing , fixing CI sluice valve, 100mm dia within all leads and lifts as per direction of the Engineer in charge	11.00	Each			
7.00	Laying, jointing, and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
7.01	75mm, PN 4, PE-80	385.00	Rmt.			
7.02	75mm, PN 6, PE-80	875.00	Rmt.			
7.03	75mm, PN 8, PE-80	390.00	Rmt.			
7.04	90mm, PN 8, PE-80	355.00	Rmt.			
Total in Figures						
Total in Words						

Terms and conditions :-

- Cement will be issue at the rate of Rs. 298/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from e
- Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- The contractor shall 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
- The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- The rates should be inclusive of all prevalent taxes of Center or State .
- The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- Only mechanically crushed stone aggregates shall be used in concrete work.
- The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
- If any condition of NIT is contradictory to each other, then the contractor shall bring it to the notice of Engineer-in-charge. The decision of the
- Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completion/

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity							
Name of work:- Providing lift irrigation scheme to Reri Mashgan in Tehsil Bhunter Distt. Kullu H.P. (SH- C/O outlet & I/J of HDPE pipe at various RD's)Zone-VI					Estimated Cost Rs. :		350173.00
					Earnest Money Rs :		7010.00
					Time Limit :		6 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT	
				Figures	Words		
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	546.22	Cum				
2.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	3.20	Cum				
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in:-						
3.01	Foundation footing bases of columns and like mass concrete	3.20	Cum				
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pillars buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	6.90	Cum				
4.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-	0.00					
4.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	92.00	Sqm				
5.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.c cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	350.00	Kg				
6.00	Providing , fixing CI sluice valve, 100mm dia within all leads and lifts as per direction of the Engineer in charge	10.00	Each				
7.00	Laying, jointing, and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.						
7.01	75mm, PN 4, PE-80	305.00	Rmt.				
7.02	75mm, PN 6, PE-80	665.00	Rmt.				
7.03	75mm, PN 8, PE-80	220.00	Rmt.				
7.04	140mm, PN 4, PE-80	170.00	Rmt.				
7.05	160mm, PN 4, PE-80	650.00	Rmt.				
Total in Figures							
Total in Words							

Terms and conditions :-

- 1 Cement will be issue at the rate of Rs. 298/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from
- 2 Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- 3 HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- 4 The contractor shall 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
- 5 The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- 6 The rates should be inclusive of all prevalent taxes of Center or State .
- 7 The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- 8 Only mechanically crushed stone aggregates shall be used in concrete work.
- 9 The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- 10 The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- 11 GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
- 12 If any condition of NIT is contradictory to each other, then the contractor shall bring it to the notice of Engineer-in-charge. The decision of the
- 13 Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completing/

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity						
Name of work:- Providing lift irrigation scheme to Reri Mashgan in Tehsil Bhunter Distt. Kullu H.P. (SH- C/O outlet & I/J of HDPE pipe at various RD's)Zone I & II					Estimated Cost Rs. :	
					Earnest Money Rs. :	
					Time Limit :	
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	618.61	Cum			
2.00	Providing and laying cement concrete 1:4:8 (Cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	5.44	Cum			
3.00	Providing and laying cement concrete work 1:1.5:3 (Cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in:-					
3.01	Foundation footing bases of columns and like mass concrete	5.44	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pilasters buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	11.73	Cum			
4.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-	0.00				
4.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	156.40	Sqm			
5.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.c cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	595.00	Kg			
6.00	Providing , fixing CI sluice valve, 100mm dia within all leads and lifts as per direction of the Engineer in charge	17.00	Each			
7.00	Laying, jointing, and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
7.01	75mm, PN 4, PE-80	800.00	Rmt.			
7.02	75mm, PN 6, PE-80	230.00	Rmt.			
7.03	75mm, PN 8, PE-80	160.00	Rmt.			
7.04	90mm, PN 4, PE-80	420.00	Rmt.			
7.05	110mm, PN 4, PE-80	330.00	Rmt.			
7.06	125mm, PN 4, PE-80	200.00	Rmt.			
7.07	225mm, PN 4, PE-80	180.00	Rmt.			
Total in Figures						
Total in Words						

Terms and conditions :-

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- 2 Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- 3 HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- 4 The contractor shall 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
- 5 The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- 6 The rates should be inclusive of all prevalent taxes of Center or State .
- 7 The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- 8 Only mechanically crushed stone aggregates shall be used in concrete work.
- 9 The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- 10 The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- 11 GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
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- 13 Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completing/

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity						
Name of work:- Providing lift irrigation scheme to Bhadeuli in Tehsil Bhunter Distt. Kullu H.P. (SH:- C/O 18 no's outlet & 1/1 of HDPE pipe in zone-I,IV & V at various RD's)					Estimated Cost Rs. :	497855.00
					Earnest Money Rs :	9960.00
					Time Limit :	3 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	865.80	Cum			
2.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	5.76	Cum			
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in: -					
3.01	Foundation footing bases of columns and like mass concrete	5.76	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pillars buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	12.42	Cum			
4.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-					
4.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	165.60	Sqm			
5.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.c cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	630.00	Kg			
6.00	Providing , fixing CI sluice valve, 100mm dia within all leads and lifts as per direction of the Engineer in charge	18.00	Each			
7.00	Laying, jointing, and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
7.01	75mm, PN 4, PE-80	1145.00	Rmt.			
7.02	75mm, PN 6, PE-80	410.00	Rmt.			
7.03	75mm, PN 8, PE-80	1555.00	Rmt.			
7.04	90mm, PN 4, PE-80	160.00	Rmt.			
7.05	140mm, PN 4, PE-80	410.00	Rmt.			
Total in Figures						
Total in Words						

Terms and conditions :-

- Cement will be issue at the rate of Rs. 298/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from e
- Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
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- The rates should be inclusive of all prevalent taxes of Center or State .
- The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- Only mechanically crushed stone aggregates shall be used in concrete work.
- The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
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- Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completing/

DNIT no. for the year 2019-20 is here by approved for Rs.497855/- only.

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity

Name of work:- Construction of Lift irrigation scheme to Dhuru Ropa Sharai and Sidhwan in GP Manglore in Tehsil Banjar Distt. H.P. (SH- C/O Out let, C/O storage tank and Laying/jointing of distribution system)Zone-III					Estimated Cost Rs. :	447620.00
					Earnest Money Rs :	8960.00
					Time Limit :	6 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	666.00	Cum			
2.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-					
2.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	108.70	Sqm			
2.02	Flat surfaces such as soffits of suspended floors roofs landings and the like floors etc. up to 200 mm in thickness with in all leads and lifts.	6.44	Sqm			
2.03	Edges of slabs and breaks in floors and walls under 20cm wide	14.72	Rmt.			
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in: -					
3.01	Foundation footing bases of columns and like mass concrete	3.58	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pilasters buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	8.16	Cum			
4.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.e cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	916.00	Kg			
5.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	4.12	Cum			
6.00	Providing and laying cement concrete 1:2:4 (1cement :2 Sand: 4 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge in:-					
6.01	Suspended Floor roofs, landing and shelves and their support balconies,beams,girders,bressumers and cantilever upto floor two level	0.82	Cum			
7.00	Fixing of SFRC manhole cover confirming to IS 12592 (part-II) 1991 with latest ammendments medium duty circular type 500mm dia in all leads and lifts.	2.00	Each			
8.00	Fixing of GI pipe light grade for inlet, outlet , over flow and scour pipe					
8.01	Inlet pipe 80mm dia	6.00	Rmt.			
8.02	Over flow/scour pipe 100mm dia	6.00	Rmt.			
9.00	Providing , fixing GI fitting within all leads and lifts as per direction of the Engineer in charge					
9.01	GI union 80mm	8.00	Each			
9.02	GI nipple 80mm 15cm long	8.00	Each			
9.03	GI elbow 80mm	8.00	Each			
9.04	GI union 100mm	8.00	Each			
9.05	GI nipple 100mm 15cm long	8.00	Each			
9.06	GI Elbow 100mm	8.00	Each			
10.00	Laying, jointing, and testing of HDPE pipes 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
10.01	90mm, PN 6, PE-80	110.00	Rmt.			
10.02	90mm, PN 8, PE-80	1005.00	Rmt.			
10.03	125mm, PN 4, PE-80	397.00	Rmt.			
10.04	140mm, PN 4, PE-80	220.00	Rmt.			
11.00	Providing and fixing double flanged CI sluice valve PN1 of Leader/BHEL/Kirloskar/GL ed/Kilburn fourses/Kartar make and equal to dia of suction pipe and capable of withstanding the normal seat pressure as per IS:780:1984 with upto date ammendments					
11.01	80mmdia, PN 1	7.00	Each			
11.02	125mm dia, PN 1	1.00	Each			
11.03	150mm dia PN 1	1.00	Each			
Total in Figures						
Total in Words						

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- 2 Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- 3 HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
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- 11 GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
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- 13 Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completing/

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity							
Name of work:- Construction of Lift irrigation scheme to Dharu Ropa Sharai and Sidhwan in GP Manglore in Tehsil Banjar Distt. H.P. (SH- C/O Out let, C/O storage tank and Laying/jointing of distribution system)Zone-IV					Estimated Cost Rs. :		412966.00
					Earnest Money Rs. :		8260.00
					Time Limit :		6 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT	
				Figures	Words		
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	585.57	Cum				
2.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-						
2.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	108.70	Sqm				
2.02	Flat surfaces such as soffits of suspended floors roofs landings and the like floors etc. up to 200 mm in thickness with in all leads and lifts.	6.44	Sqm				
2.03	Edges of slabs and breaks in floors and walls under 20cm wide	14.72	Rmt.				
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in: -						
3.01	Foundation footing bases of columns and like mass concrete	3.58	Cum				
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pilasters buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	8.16	Cum				
4.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.e cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	916.00	Kg				
5.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	4.12	Cum				
6.00	Providing and laying cement concrete 1:2:4 (1cement :2 Sand: 4 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge in:-						
6.01	Suspended Floor roofs, landing and shelves and their support balconies,beams,girders,bressumers and cantilever upto floor two level	0.82	Cum				
7.00	Fixing of SFRC manhole cover conforming to IS 12592 (part-II) 1991 with latest ammendments medium duty circular type 500mm dia in all leads and lifts.	2.00	Each				
8.00	Fixing of GI pipe light grade for inlet, outlet , over flow and scour pipe						
8.01	Inlet pipe 80mm dia	6.00	Rmt.				
8.02	Over flow/scour pipe 100mm dia	6.00	Rmt.				
9.00	Providing , fixing GI fitting within all leads and lifts as per direction of the Engineer in charge						
9.01	GI union 80mm	8.00	Each				
9.02	GI nipple 80mm 15cm long	8.00	Each				
9.03	GI elbow 80mm	8.00	Each				
9.04	GI union 100mm	8.00	Each				
9.05	GI nipple 100mm 15cm long	8.00	Each				
9.06	GI Elbow 100mm	8.00	Each				
10.00	Laying, jointing, and testing of HDPE pipes 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.						
10.01	90mm, PN 4, PE-80	#REF!	Rmt.				
10.02	90mm, PN 8, PE-80	#REF!	Rmt.				
10.03	125mm, PN 4, PE-80	#REF!	Rmt.				
11.00	Providing and fixing double flanged CI sluice valve PN1 of Leader/BHEL/Kirloskar/GL ed/Kilburn fourses/Kartar make and equal to dia of suction pipe and capable of withstanding the normal seat pressure as per IS:780:1984 with upto date ammendments						
11.01	80mmdia, PN 1	6.00	Each				
11.02	125mm dia, PN 1	2.00	Each				
Total in Figures							
Total in Words		#NAME?					

Terms and conditions :-

- 1 Cement will be issue at the rate of Rs. 298/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from e
- 2 Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- 3 HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- 4 The contractor shall 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
- 5 The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- 6 The rates should be inclusive of all prevalent taxes of Center or State .
- 7 The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- 8 Only mechanically crushed stone aggregates shall be used in concrete work.
- 9 The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- 10 The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- 11 GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
- 12 If any condition of NIT is contradictory to each other, then the contractor shall bring it to the notice of Engineer-in-charge. The decision of the
- 13 Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completing/

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity

Name of work:- Providing LWSS to Village Railla & surrounding in Tehsil Banjar Distt. Kullu HP (SH- C/O 32500 ltrs and 29000 ltrs capacity Storage tank & L/J of GI pipe)

Estimated Cost 498063
Earnest Money 9961
Time 6 months

S.No.	Description of items.	Quantity	Unit	Unit	Amount
1	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 metres away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by ramming , watering and then disposing of all surplus excavated earth as directed with in a lead of 20 metres in pick jumper work.	1212.21	Cum		
2	Providing and laying cement concrete 1:4:8(1cement:4 sand: 8 graded stone aggregate 40 mm nominal size) and curing complete excluding the cost of form work in foundation and plinth.	9.07	Cum		
3	Providing and laying cement concrete 1:11/2 :3 (1cement: 1 1/2 sand: 3graded stone aggregate 20 mm nominal size)and curing complete excluding the cost of form work and reinforcement in:-				
	i) Foundation and plinth.	5.56	Cum		
	ii) Walls(any thickness but ot less than 0.1 mtr thickness) attached pilasters, buttresses, plinth and string courses etc. from top of foundation level up to floor two level.	10.55	Cum		
	iii) suspended floors, roofs,landings and shelves and their supports, balconies, beams, girders, bressumers and cantilivers up to floor two level.	2.66	Cum		
5	Providing form work of steel plates so as to give a rough finish including centering ,shuttering, propping etc. 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 work in:-				
	i) Vertical surface such as walls(any thickness) partitions and the like including attached pilasters, butteresses, plinth and string courses and the like.	143.24	Sqm		
	ii) Flat surfaces such as soffits of suspended floors, roofs landings and the like: floors etc. up to 200 mm in thickness.	23.22	Sqm		
6	Providing tor steel reinforcement for RCC work including bending, binding and placing in position complete up to floor two level.	1314	Kg		
7	Providing and fixing man hole cover made with angle iron 40 x40x 3 mm thick(base frame) & 30x 30x 3 mm thick top frame covered with MS sheet 6 mm thick with locking arrangements to avoid the anti social activities (lock with a set of 3 keys). Which should be ambended in cement concrete 1:1.5:3 (1 cement 1.5 graded stone aggregate 10 mm : 3 Sand) on existing storage tanks. (Weight of man hole cover should not be less than 34 Kg)	2	Each		
8	Laying , jointing and testing in trenches galvanised mild steel of following metre, including carriage of pipe and cost of fitting such as bends, tees, air valve, unions and collars etc, as per direction and to the entire satisfaction of Engineer in charge. (Earth work to be measured and paid for seperately)				
	32 mm	1820	Rmt		
	40 mm	960	Rmt		
			Total:-		0.00

TERMS AND CONDITIONS

- The work should be carried out as per PWD specifications
- The rates of all items should be inclusive of carriage of all material with in all leads and lifts to the site of work by all means of transport. The carriage of material issued from departmental store will be done by the contractor at his risk and cost.
- 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and Sales Tax etc.
- Cement will be issued from Divisional store Shamshi @ Rs. 298 /- per bag for which recovery shall be made from each bill.
- Steel will be issued @ 4600/- qtl. From divisional store shamshi on recoverable basis.
- The work will be carried out as per HPPWD/IPH specification relevant IS/BIS-code & CPHEEO Manual to be satisfaction of the Engineer-in-charge.

**Executive Engineer,
IPH Division No. II**

Estimated Cost 495011
 Earnest money 9900
 Time 3 months

Schedule of Quantity

Name of work:- C/O Filter bed & Sedimentation Tank for WSS Khandgcha in Tehsil Banjar, Distt. Kullu
 HP (SH:- C/O Filter bed of 28.06 sqm (2 unit of 14.03 sqm each) & Sedimentation tank.

S.No.	Description of items.	Quantity	Unit	Rate	Amount
1	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 metres away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by ramming , watering and then disposing of all surplus excavated earth as directed with in a lead of 20 metres in pick jumper work.	97.18	cum		
2	Providing and laying cement concrete 1:4:8 (1cement4 sand:8 graded stone aggregate 40 mm nominal size)and curing complete excluding the cost of form work in foundation and plinth	11.38	cum		
3	Providing and laying cement concrete 1:1.5 :3 (1 cement: 1.5 sand: 3graded stone aggregate 20 mm nominal size)and curing complete excluding the cost of form work and reinforcement in:-				
	Foundation and plinth.	14.53	cum		
	Walls(any thickness but ot less than 0.1 mtr thickness) attached pilasters, buttresses, plinth and string courses etc. from top of foundation level up to floor two level.	25.70	cum		
4	Providing and laying cement concrete 1:2:4 (1 cement: 2 sand: 4graded stone aggregate 20 mm nominal size)and curing complete excluding the cost of form work and reinforcement in:-				
	Suspended floors, roofs, landings and the like.	0.60	cum		
5	Providing tor steel reinforcement for RCC work including bending, binding and placing in position complete up to floor two level.	2895.66	Kg		
6	Providing form workwith steel plates 3.15 mm thick angle iron frames 30x30x5 mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in:-				
	Flat surfaces such as soffits of suspended floors, roofs landings and the like: floors etc. up to 200 mm in thickness.	6.44	Sqm		
	Vertical surface such as walls(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like.	309.82	Sqm		
7	Providing and fixing of Steel/fibre reinforcement concrete (SFRC) manhole cover with frame conforming to IS-12592 (Part - I)-1998 with latest ammendments 560 mm dia medium duty.	2.00	Each		
8	Providing,laying,joining of GI pipes for Inlet,Outlet,scor pipe and bypass arrangements complete in all respect. (I) 65mm dia	42.00	Rmt		
9	Providing and fixing of Brass wheel valves with hand wheel complete in all respect. 65mm dia.	9.00	Each		
10	Providing and placing in Horizontal layers filtering media duly graded screened washed and cleaned as specified by the Engineer in Charge				
	Top Layer:- Fine Sand	14.69	cum		
	IIInd Layer:- Carse sand 3mm-6mm	2.59	cum		
	IIIInd Layer:- Bajri 6mm - 20mm	1.30	cum		
	IVth Layer:- Bajri 20mm - 25mm	1.73	cum		
		2.59	cum		
11	Providing and placing Pre-cast RCC slab made of Cement concrete 1:2:4 (1cement, 2sand, 4graded stone aggregate 20mm nominal size) for resting of the filter media.	315	Each		

Total:

TERMS AND CONDITIONS

- The work will be carried out as per HPPWD/IPH specification relevant IS/BIS-code & CPHEEO Manual to be satisfaction
- The rates of all items should be inclusive of carriage of all material with in all leads and lifts to the site of work by all means
- Cement will be issued from Divisional store Shamshi @ Rs. 268 /- per bag for which recovery shall be made
- Steel will be issued free of cost from sub Divisional store Shamshi .
- 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and Sales Tax etc.

Executive Engineer,
 IPH Division No. II
 Kullu at Bhunter.

Schedule of Quantity

Name of Work:- Enerziation of Bore well at Khokhan nallah near house of Giri raj in Tehsil Bhunter
Distt. Kullu(SH:-providing and installation of motor & L/J of R/main)

Estimated cost
Earnest Money

170260
3405

S.No	Item of work	Time			Amount
		Qty	Unit	Rate	
1	Supply of submersible water pumping set (For hand pump) of reputed make such as KSB / Kirloskar / CALAMA/Johnston / Oswal/BS/ SABAR make confirming to latest relevent BIS code.The pump should be fitted with free flow impellers of suitable alloy as per BIS 5659-1970 latest suitable for clear cold water with turbidity up to 50 PPM having greased packer bearings & shaft with bound stator on motor side & with shaft protection sleeve on pump side ensuring better life for shaft confirming to BIS specifications.	1 set	Per set		
	The pump shall be directly coupled to a submersible squirrel cage electric induction motor of same make confirming to relevent BIS code latest with up to date ammendments totally dust & water proof for submersible duty isolated from the pump by intermediate casing with double mechanical seal in oil chamber & grease packed lubricated bearings & provided with stainless steel thrust bearing plate to with stand non vertical loads with minimum wear & tear.it should also be fitted with a device to take up expansion of water with heating of motor. The pump set should include water level guard erection clamps,cable clips & depth gauge etc. The pump should be suitable for operation on data given below:-				
i)	Discharge:- 0.80 LPS				
ii)	Total Head:- 85.64 meters				
2	Providing and Laying PVC jointless flat water proof cable as per BIS 694-1990 (latest with up to date ammendments) suitable for the pump sets offered from OCB to motor, motor to starter including all other electrical equipments such as Thimbles, flexible pipes, solder,nuts & bolts,cable glands etc. laid in pipes or trenches. The type,size & make will be subject to approval of HPSEB authorities.In case of non acceptance by HPSEB authorities it shall have to be replaced by the tenderer free of cost.	110	Per Mtr.		
3	Providing and fixing single /Three phase panel of reputed make for above submersible pump set of suitable capacity including starter, Amperemeter, voltmeter , over load relay , MCB, Capacitor, connection plate etc for incoming and out going feeders.	1	Job		
4	Providing , lowering and jointing in bore PP-R (Polypropylene randomcopolymer) pipe UV stablized and antimicroble fusion welded having thurmal stability for hot & cold water supply including all PP-R plain and brass threaded polypropylene random fittings complete ISI 15801-2010 & testing of joint complete in all leads and lifts as per direction of the engineer-in -charge.				
	40 mm dia PN 20/SDR 6- Mono Layer	85	Rmt.		
5	Providing , lowering and jointing in bore PP-R (Polypropylene randomcopolymer) pipe UV stablized and antimicroble fusion welded having thurmal stability for hot & cold water supply including all PP-R plain and brass threaded polypropylene random fittings complete ISI 15801-2010 & testing of joint complete in all leads and lifts as per direction of the engineer-in -charge.				
	40 mm dia PN 20/SDR 6- Mono Layer	310	Rmt.		
7	Providing and fixing fabricated MS sheet box of size 0.60 x 0.30 x 0.90m of 3.15mm thick MS sheet with locking arrangement complete mounted on angle iron four legs of size 40x 40x 4mm which shall be embedded in cement concrete 1:3:6 for housing electric metre, starter, switch and other accessories .	1	Each		
8	providing and fixing MS Clamp of Flat iron on top of bore well with in all leads and lifts to the entire satisfaction of the engineer-in-charge.	1	Each		
9	Providing and fixing holding wire 6 mm thick with in all leads and lifts to the entire satisfaction of the Engineer-in-charge.	90	Rmt.		
6	Excavation in foundation trenches etc in earth work in all kinds of soil containing spade work, blasting work, jumper work including decomposed soft and hard rock etc., with all heights and depths and stacking the excavated soil not more then 3 mtr. clear from the edge of the excavation and then returning the stacked soil in 15 cm 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 complete in all respects with in all leads and lifts and to the entire satisfaction of Engineer incharge.	63.9	Cum		
				Total:-	

Terms and conditions:-

- 1 The work should be as per PWD/ IPH specifications and to the entire satisfaction of engineer incharge.
- 2 Nothing will be paid for rejected material/work
- 3 All statutory deduction will be made from the contractors bill.
- 4 The materials should be ISI marked.
- 5 The contractor himself responsible for watch and ward the materials at site of work.
- 6 Testing of the pump should be conducted after installation and the results shall be submitted alongwith bill of 3 days x 8 hours testing continously.
- 7 Dismantled material like connecting rods, cylinder, G.I pipe etc. has to be returned to the department for proper accountal and in MAS register without which the payment shall not be released. Junior Engineer has to record certificate in the M.B in this effect if any.

**Executive Engineer,
IPH Division No.II,
Kullu at Bhunter.**

Schedule of Quantity

Name of Work:- Energisation of bore well in campus of HP Forest office in Tehsil Bhunter Distt.
Kullu (SH:- providing and installation of motor & L/J of R/Main)

Estimated cost
Earnest Money

160360
3207

S.No	Item of work	Time			Amount
		Qty	Unit	Rate	
1	Supply of submersible water pumping set (For hand pump) of reputed make such as KSB / Kirloskar / CALAMA/Johnston / Oswal/BS/ SABAR make conforming to latest relevant BIS code. The pump should be fitted with free flow impellers of suitable alloy as per BIS 5659-1970 latest suitable for clear cold water with turbidity up to 50 PPM having greased packer bearings & shaft with bound stator on motor side & with shaft protection sleeve on pump side ensuring better life for shaft conforming to BIS specifications.	1 set	Per set		
	The pump shall be directly coupled to a submersible squirrel cage electric induction motor of same make conforming to relevant BIS code latest with up to date amendments totally dust & water proof for submersible duty isolated from the pump by intermediate casing with double mechanical seal in oil chamber & grease packed lubricated bearings & provided with stainless steel thrust bearing plate to withstand non vertical loads with minimum wear & tear. It should also be fitted with a device to take up expansion of water with heating of motor. The pump set should include water level guard erection clamps, cable clips & depth gauge etc. The pump should be suitable for operation on data given below:-				
i)	Discharge:- 1.0 LPS				
ii)	Total Head:- 21.35 meters				
2	Providing and Laying PVC jointless flat water proof cable as per BIS 694-1990 (latest with up to date amendments) suitable for the pump sets offered from OCB to motor, motor to starter including all other electrical equipments such as Thimbles, flexible pipes, solder, nuts & bolts, cable glands etc. laid in pipes or trenches. The type, size & make will be subject to approval of HPSEB authorities. In case of non acceptance by HPSEB authorities it shall have to be replaced by the tenderer free of cost.	110	Per Mtr.		
3	Providing and fixing single / Three phase panel of reputed make for above submersible pump set of suitable capacity including starter, Amperemeter, voltmeter, over load relay, MCB, Capacitor, connection plate etc for incoming and out going feeders.	1	Job		
4	Providing, lowering and jointing in bore PP-R (Polypropylene random copolymer) pipe UV stabilized and antimicrobe fusion welded having thermal stability for hot & cold water supply including all PP-R plain and brass threaded polypropylene random fittings complete ISI 15801-2010 & testing of joint complete in all leads and lifts as per direction of the engineer-in-charge.				
	40 mm dia PN 20/SDR 6- Mono Layer	85	Rmt.		
5	Providing, lowering and jointing in bore PP-R (Polypropylene random copolymer) pipe UV stabilized and antimicrobe fusion welded having thermal stability for hot & cold water supply including all PP-R plain and brass threaded polypropylene random fittings complete ISI 15801-2010 & testing of joint complete in all leads and lifts as per direction of the engineer-in-charge.				
	40 mm dia PN 20/SDR 6- Mono Layer	310	Rmt.		
7	Providing and fixing fabricated MS sheet box of size 0.60 x 0.30 x 0.90m of 3.15mm thick MS sheet with locking arrangement complete mounted on angle iron four legs of size 40x 40x 4mm which shall be embedded in cement concrete 1:3:6 for housing electric metre, starter, switch and other accessories.	1	Each		
8	providing and fixing MS Clamp of Flat iron on top of bore well with in all leads and lifts to the entire satisfaction of the engineer-in-charge.	1	Each		
9	Providing and fixing holding wire 6 mm thick with in all leads and lifts to the entire satisfaction of the Engineer-in-charge.	90	Rmt.		
6	Excavation in foundation trenches etc in earth work in all kinds of soil containing spade work, blasting work, jumper work including decomposed soft and hard rock etc., with all heights and depths and stacking the excavated soil not more than 3 mtr. clear from the edge of the excavation and then returning the stacked soil in 15 cm 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 complete in all respects with in all leads and lifts and to the entire satisfaction of Engineer incharge.	63.9	Cum		
				Total:-	

Terms and conditions:-

- 1 The work should be as per PWD/ IPH specifications and to the entire satisfaction of engineer incharge.
- 2 Nothing will be paid for rejected material/work
- 3 All statutory deduction will be made from the contractors bill.
- 4 The materials should be ISI marked.
- 5 The contractor himself responsible for watch and ward the materials at site of work.
- 6 Testing of the pump should be conducted after installation and the results shall be submitted alongwith bill of 3 days x 8 hours testing continuously.
- 7 Dismantled material like connecting rods, cylinder, G.I pipe etc. has to be returned to the department for proper accountal and in MAS register without which the payment shall not be released. Junior Engineer has to record certificate in the M.B in this effect if any.

**Executive Engineer,
IPH Division No.II,
Kullu at Bhunter.**

Schedule of Quantity

Name of work:- C/O LWSS Charsu Kolibehar in Tehsil Bhuntar distt. Kullu HP.(SH-
Manufacturing of by pass arrangement for jointing of distribution and steel foot path, stair
case at treatment plant)

Estimates Cost :- 209275
Earnest Money :- 4186
Time:- 3 months

Sr. No.	Description of items.	Quantity	Unit	Rate	Amount
1	Manufacturing supplying and fixing of GI pipe 100 mm dia nipple of following length welded with flange table -5 at one side and other side embedded in out let chamber by making hole of required size and make at as it is at site of work wit hin all leads and lifts to the entire satisfaction of the Engineer-in-charge.				
1.01	0.30 mtr. Long	15.00	Each		
1.02	0.60 mtr. Long	8.00	Each		
2	Manufacturing supplying and fixing of GI pipe nipple of following dia welded with flange table -5 at one side and other side welded with GI pipe 100 mm dia by making hole of required size and make at as it is at site of work wit hin all leads and lifts to the entire satisfaction of the Engineer-in-charge.				
2.01	0.60 mtr. Long	5.00	Each		
3	Providing and fixing GI elbow 100 mm dia heavy duty within all leads and lifts to the entire satisfaction of the Engineer-in-charge.	10.00	Each		
4	Providing and fixing C I sluice valve 100 mm dia PN-1 heavy duty of IPH approved make of following dia at site of work within all leads and lifts to the entire satisfaction of the Engineer-in-charge.	8.00	Each		
5	Manufacturing supplying and fixing of 100 mm dia with heavy duty pipe at site of work within all leads and lifts to the entire satisfaction of the Engineer-in-charge.	4.00	Each		
6	Steel work welded in built up In beams joists channels ,angles ,tee ,flats with connection plates or angle cleats as in main and cross beams,hip and jack rafters,purlins connected to common rafters and the like. sections,trusses and framed work.including cutting ,hoisting ,fixing in position and applying a priming coat of red lead paint.	2015.50	Each		
7	Laying, jointing (by way of circumfrential butt welded joints by electrical arc welding) and testing of Galvanised mild steel tubes (GI Pipes) of following dia meters confirming to BIS 1239-2001 (latest with upto date amendments) having wall thickness as per code with bevelled / plain ends in a random length of 4 to 7 meters, including manufacturing reducers/ tapers , all short pieces, bends etc. as per site requirement made from parent tubes . The laying of pipe will include all operation such as cutting, welding, jointing, fabrication of bends, tees etc. including lowering and laying in excavated trenches to ensure required level including flushing, cleaning and hydraulic testing complete in all respects to the satisfaction of the Engineer in charge. The fabricated bends shall have three or four cuts having its radius not less than five times the dia of pipe. The damaged portion of the pipes and specials made from the parent tube during welding or otherwise shall be provided anticorrosive treatment by applying two coats of anticorrosive bituminous paint over a priming coat as per AWWA specifications C-203-1978. The welding electrodes shall be as per IS 814 of Advani Oerlikon/ L&T or ISI marked make. The rates also includes entire carriage of material, flushing, cleaning & hydraulic testing complete to the best satisfaction & direction of Engineer in charge with in all leads and lifts. (Earth work in trenches will be measured and paid for separately).				
7.01	100 mm dia	18.00	Rmt		

TERMS AND CONDITIONS

- The work will be carried out as per HPPWD/IPH specification relevant IS/BIS-code & CPHEEO
- The rates of all items should be inclusive of carriage of all material with in all leads and lifts to the
- GI pipe will be issued free of cost from Divisional store Shamshi.
- 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and Sales Tax etc.

Executive Engineer,
IPH Division No.II, Kullu at Bhunter.

Schedule of Quantity

Name of work:- A/R&M/O Sewerage scheme Bhuntar Town in Tehsil Bhuntar Distt. Kullu HP.(SH:- L/J of DI pipe ,Removal of slips & protection work)

Estimated Cost 262306
Earnest money 5246
Time 1 Month

S.No.	Description of items.	Quantity	Unit	Rate	Amount
1	Removal of slips in all kinds of serviceable materials and neatly dressing the surface. Detail of cost for .20 cubic soil (including saturated soil but excluding boulders and rocky portion requiring blasting upto a distance of 20 metres disposing of un-serviceable materials, stacking	300.00	cum		
2	Laying jointing in trenches centrifugal cast (spun) ductile iron socket and spigot pipes conforming to IS 8329-2000 in standred lengths of 4mtr,5mtr,5.5mtr and 6 mtr class- K-7 icluding testing and providing tyton (Push on joints) to ductile iron pipes and fittings with tyton rubber ring (SBR quality) conforming to IS 12820-1989 ,including testing of joints. (Pipe and tyton rubber ring shall be provided by the department free of cost from I&PH Divisional store Shamshi).Earth work to be measured and paid for seperately) as per direction and satisfaction of the Engineer-in - charge .				
	250 mm dia.	120.00	Rmt		
3	Providing and laying cement concrete 1:2:4(1 cement : 2 sand :4 graded stone aggregate 40 mm nominal size) and curring complete excluding cost of form work in foundation and plinth in all heights and depths including all leads lifts and carriage of material at site and to the entire satisfaction of Engineer Incharge.	40.50	Sqm		
4	Cutting in earth work in all kinds of soil containing spade work , jumper work , blasting work including decomposed soft and hard rock etc with all lifts, lifts and as directed by the engineer incharge.	4.50	cum		
5	Wire crates made of G.I. wire filled with boulders with square and cut faced against the wire (Wire crates to be measured and paid for separately) with in all leads ,lifts, carriage and to the entire satisfaction of engineer in charge.The weight of each boulder should not be less than 18 kgs.	31.26	cum		
6	Wire crates made of G.I. wire filled with boulders with square and cut faced against the wire (boulder fillings to be measured and paid for separately)with in all leads ,lifts, carriage and to the entire satisfaction of engineer in charge. G.I. wire 5 mm thick corresponding to SWG-8 15cmx15cm mesh.	125.00	sqm		
				Total:-	

TERMS AND CONDITIONS

- The work will be carried out as per HPPWD/IPH specification relevant IS/BIS-code & CPHEEO Manual to be
- The rates of all items are inclusive of carriage of all material with in all leads and lifts to the site of work by all
- Contractor will be responsible for watch and ward of material at site of work.
- Cement will be issued from Divisional store Shamshi @ Rs. 298 /- per bag for which recovery shall be made from each bill.
- 1% Labour cess will be deducted on gross amount from each bill besides other deductions such as income Tax, Surcharge on Income Tax and Sales Tax etc.

Executive Engineer,
IPH Division No. II
Kullu at Bhunter.

Schedule of Quantity

Name of work:- Providing lift irrigation scheme to Reri Mashgan in Tehsil Bhunter Distt. Kullu H.P. (SH:- C/O outlet & L/J of HDPE pipe at various RD's)Zone III & IV					Estimated Cost Rs. :	377636.00
					Earnest Money Rs :	7560.00
					Time Limit :	6 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	549.04	Cum			
2.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	4.16	Cum			
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in:-					
3.01	Foundation footing bases of columns and like mass concrete	4.16	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pilasters buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	8.97	Cum			
4.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-	0.00				
4.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	119.60	Sqm			
5.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.c cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	455.00	Kg			
6.00	Providing , fixing CI sluice valve, 100mm dia within all leads and lifts as per direction of the Engineer in charge	13.00	Each			
7.00	Laying, jointing, and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
7.01	75mm, PN 4, PE-80	830.00	Rmt.			
7.02	75mm, PN 6, PE-80	210.00	Rmt.			
7.03	90mm, PN 4, PE-80	415.00	Rmt.			
7.04	90mm, PN 8, PE-80	170.00	Rmt.			
7.05	110mm, PN 4, PE-80	450.00	Rmt.			
7.06	250mm, PN 4, PE-80	60.00	Rmt.			
Total in Figures						
Total in Words						

Terms and conditions :-

- 1 Cement will be issue at the rate of Rs. 298/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from
- 2 Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- 3 HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- 4 The contractor shall 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
- 5 The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- 6 The rates should be inclusive of all prevalent taxes of Center or State .
- 7 The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- 8 Only mechanically crushed stone aggregates shall be used in concrete work.
- 9 The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- 10 The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- 11 GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
- 12 If any condition of NIT is contradictory to each other, then the contractor shall bring it to the notice of Engineer-in-charge. The decision of the
- 13 Contractor should have submit the certificate (not below the rank of Executive Engineer) of previous experience of successful completing/

**Executive Engineer,
I&P.H.Division No.II
Kullu at Bhunter**

Schedule of Quantity

Name of work:- Providing lift irrigation scheme to Reri Mashgan in Tehsil Bhunter Distt. Kullu H.P. (SH- C/O outlet & L/J of HDPE pipe at various RD's)Zone III & IV				Estimated Cost Rs. :		377636.00
				Earnest Money Rs :		7560.00
				Time Limit :		6 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	549.04	Cum			
2.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	4.16	Cum			
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in:-					
3.01	Foundation footing bases of columns and like mass concrete	4.16	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pillars buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	8.97	Cum			
4.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-	0.00				
4.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	119.60	Sqm			
5.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.c cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	455.00	Kg			
6.00	Providing , fixing CI sluice valve, 100mm dia within all leads and lifts as per direction of the Engineer in charge	13.00	Each			
7.00	Laying, jointing, and testing of HDPE pipes in trenches to required grades as per IS: 4984-1995 latest with up to date amendments 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
7.01	75mm, PN 4, PE-80	830.00	Rmt.			
7.02	75mm, PN 6, PE-80	210.00	Rmt.			
7.03	90mm, PN 4, PE-80	415.00	Rmt.			
7.04	90mm, PN 8, PE-80	170.00	Rmt.			
7.05	110mm, PN 4, PE-80	450.00	Rmt.			
7.06	250mm, PN 4, PE-80	60.00	Rmt.			
Total in Figures						
Total in Words						

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- Cement will be issue at the rate of Rs. 298/- per bag from IPH Divisional store Shamshi on proper indents for which recovery will be made from
- Tor steel will be issue of required dia issue at the rate of Rs. 4600/- per quintal from IPH Divisional store Shamshi on proper indents for which
- HDPE pipes will be issued free of cost from IPH Divisional store Shamshi on proper indents.
- The contractor shall 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
- The rates should be inclusive of carriage of all material to the site of work in all leads and lifts.
- The rates should be inclusive of all prevalent taxes of Center or State .
- The concrete should be volume batched, mechanically mixed and vibrated for which nothing extra shall be paid.
- Only mechanically crushed stone aggregates shall be used in concrete work.
- The contractor shall submit the details of quarry from where the procurement of material is intended. The decision of Engineer-in-charge shall
- The Work should be executed as per HP.PWD specifications, as per recommendations of CPHEEO Manual on water supply and as per relevant
- GST, income tax, 1% labour cess(Non refundable),10% security, 10% testing charges will be deducted from the contracts bill as per norms.
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Kullu at Bhunter**

Schedule of Quantity

Name of work:- Construction of Lift irrigation scheme to Dharu Ropa Sharai and Sidhwan in GP Manglore in Tehsil Banjar Distt. H.P. (SH:- C/O Out let, C/O storage tank and Laying/jointing of distribution system)Zone-I & II					Estimated Cost Rs. :	493650.00
					Earnest Money Rs :	9880.00
					Time Limit :	6 Months
Sr. No.	Description of work	No.or Qty.	Unit	RATES		AMOUNT
				Figures	Words	
1.00	Excavation in foundation trenches etc. in earth work lift up to 1.5 mtrs. Stacking the excavated soil not more than 3 meters away from the edge of excavation and then returning the stacked soil in 15 cm layers when required in to plinth and sides of foundations, consolidating each deposited layer by raming, watering and then disposing of all surplus excavated earth as directed with in a lead of 20 meters in pick jumper work	667.64	Cum			
2.00	Providing form work with steel plates 3.15mm thick welded with angle iron in frames 30x30x5mm so as to give a fair finish including centering ,shuttering, propping etc. 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 work in all leads and lifts:-					
2.01	Vertical surfaces such as wall(any thickness) partitions and the like including attached pilasters, buttresses, plinth and string courses and the like -	136.30	Sqm			
2.02	Flat surfaces such as soffits of suspended floors roofs landings and the like floors etc. up to 200 mm in thickness with in all leads and lifts.	6.44	Sqm			
2.03	Edges of slabs and breaks in floors and walls under 20cm wide	14.72	Rmt.			
3.00	Providing and laying cement concrete work 1:1.5:3 (1cement :1.5 sand: 3 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge. in: -					
3.01	Foundation footing bases of columns and like mass concrete	4.54	Cum			
3.02	Wall (any thickness but not less than 0.10 mtrs. Thickness) including attached pillars buttresses, plinth and string courses etc. from top of foundation level upto floor two level.	10.23	Cum			
4.00	Providing Tor steel reinforcement for RCC work including bending, binding & placing in position complete upto floor two level i.e. cost of binding wire with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge.	1021.00	Kg			
5.00	Providing and laying cement concrete 1:4:8 (1cement: 4 sand: 8 graded crushed stone aggregate 40mm nominal size)and curing complete excluding cost of form work in foundation and plinth with in all leads & lifts as per the entire satisfaction & direction of Engineer - in - charge.	5.08	Cum			
6.00	Providing and laying cement concrete 1:2:4 (1cement :2 Sand: 4 graded crushed stone aggregate 20 mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work with in all leads and lifts as per the entire satisfaction & direction of the Engineer - in - Charge in:-					
6.01	Suspended Floor roofs, landing and shelves and their support balconies,beams,girders,bressumers and cantilever upto floor two level	0.82	Cum			
7.00	Fixing of SFRC manhole cover conforming to IS 12592 (part-II) 1991 with latest ammendments medium duty circular type 500mm dia in all leads and lifts.	2.00	Each			
8.00	Fixing of GI pipe light grade for inlet, outlet , over flow and scour pipe					
8.01	Inlet pipe 80mm dia	6.00	Rmt.			
8.02	Over flow /scour pipe 100mm dia	6.00	Rmt.			
9.00	Providing , fixing GI fitting within all leads and lifts as per direction of the Engineer in charge					
9.01	GI union 80mm	8.00	Each			
9.02	GI nipple 80mm 15cm long	8.00	Each			
9.03	GI elbow 80mm	8.00	Each			
9.04	GI union 100mm	8.00	Each			
9.05	GI nipple 100mm 15cm long	8.00	Each			
9.06	GI Elbow 100mm	8.00	Each			
10.00	Laying, jointing, and testing of HDPE pipes 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 all fittings and accessories e.g. coupling, TEE's, bends, reducers, screwed adopters, flanged tail pieces etc. complete in all respect.					
10.01	90mm, PN 6, PE-80	220.00	Rmt.			
10.02	90mm, PN 8, PE-80	1200.00	Rmt.			
10.03	140mm, PN 4, PE-80	345.00	Rmt.			
11.00	Providing and fixing double flanged CI sluice valve PN1 of Leader/BHEL/Kirloskar/GL ed/Kilburn fourses/Kartar make and equal to dia of suction pipe and capable of withstanding the normal seat pressure as per IS:780:1984 with upto date ammendments					
11.01	80mmdia, PN 1	9.00	Each			
11.02	150mm dia PN 1	2.00	Each			
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