

Schedule of quantity.

Estimated Cost 526771

Earnest Money 10535

Time: 3 Month

Name of work:-Operation and maintenance of .99 MLD STP at Mela ground Bhuntar with its complete net work of Zone A&D under sewerage scheme Bhuntar Town in Tehsil Bhuntar Distt. Kullu.

S.No	Description of items	Quantity	Rate	Unit	Amount
1	Operation,repair and maintenance of Sewage Treatment and all civil works and electro-mechanical equipments , sewerage network , main trunk sewers, man holes and entire sewer net work of zone A&D by deploying Assistant Plant manager ,Process Engineer, Junior Engineer (Civil),Supervisor, Electricians,Operators,Chemist,Assistant Chemist, Sewer men, Casual Labourer, Watchman, ,Fitter, plumber Sewer men, Casual Labourer, Watchman, Gardener,Fitter, plumber, etc. relating to sewerage system of Bhuntar Town which consist of sewage treatment plant of 0.99 MLD capacity, in all respect to the entire satisfaction of Engineer-in-charge. Firm should do comply the stringent effluent standards laid down by HP Pollution control board and terms and conditions as per annexure A to M alongwith other general terms and conditions.	1 Job		Month	
				Total:-	
	Operation, repair and maintenance shall cover following components				
Sr. No.	Unit	Nos.	Size/ Capacity		MOC
0.99 MLD capacity zone A&D					
A	Sewer Network				
1	Complete sewer network length	7950 mtr.	DI pipe 150mm to 400mm		DI
2	No of manholes	271 Nos	Various sizes		RCC/masonry
B	Civil Unit				
1	Inlet Chamber	1 No	1.50x1.40x1.40		RCC
2	Manual Screen Channel	2	2x0.27x0.160x+0.30 FB		RCC
3	Manual grit chamber	2	5.80x0.52x0.68+0.30 FB		RCC

4	Extended Aeration Tank	2	12 mtr diax3.50+0.50 FB	RCC
5	Secondary Clarifier		11.4x7.60x1.50+0.30	RCC
6	Lab Building	1 No	10x6.60	RCC/masonry
7	Dry well /Wet well		6 mtr diax9.00 mtr height	RCC
8	Parshal flume	1 No	2.30x0.27	RCC
9	Chlorine contact Tan k	1 NO	5.50x3.50x2.20+0.30 FB	RCC
10	Pump House	1 No	5.30x5.00x3.00	RCC/masonry
11	Sludge thickener	1 No	2.30 dia, 3 mtr height	RCC
12	Sludge drying beds	4 Nos	12.50 x6.25	RCC
13	Filtrate sump	1 No	1.75x1.40x1.50	RCC
C	Mechanical Units			
1	CI gates	1 No		MS
2	Manual bar screens	2 Nos	-	MS epoxy painted
3	Fixed type slow speed aerators	2 Nos	12.50 HP	MS epoxy painted
4	Sludge Agitator	1 No	2 HP	SS 316
5	Sludge Recycle pumps	1 No	2 HP	As per manufacturer recommendation.
6	Raw sewage pumps	2 Nos	5 HP	
7	Dry well/wet well	2 Nos	3 HP	
		1 No	5 HP	
		1 No	2 HP	
8	Campus lighting	Job		

Executive Engineer
IPH Division No.II
Kullu at Bhunter

Schedule of quantity

Estimated Cost 459329
 Earnest Money 9187
 Time: 3 Month

Name of work:-Operation and maintenance of .87 MLD STP at Jarad with its complete net work of Zone E&F under sewerage scheme Bhuntar Town in Tehsil

S.No	Description of items	Quantity	Rate	Unit	Amount
1	Operation,repair and maintenance of Sewage Treatment and all civil works and electro-mechanical equipments , sewerage network , main trunk sewers, man holes and entire sewer net work of zone E&F by deploying Assistant Plant manager ,Process Engineer, Junior Engineer (Civil),Supervisor, Electricians,Operators,Chemist,Assistant Chemist, Sewer men, Casual Labourer, Watchman, ,Fitter, plumber Sewer men, Casual Labourer, Watchman, Gardener,Fitter, plumber, etc. relating to sewerage system of Bhuntar Town which consist of sewage treatment plant of 0.87 MLD capacity, in all respect to the entire satisfaction of Engineer-in-charge. Firm should do comply the stringent effluent standards laid down by HP Pollution control board and terms and conditions as per annexure A to M alongwith other general terms and conditions.	1 Job		Month	
				Total:-	
	Operation, repair and maintenance shall cover following components				
	0.87 MLD capacity zone E&F				
A	Sewer Network				
1	Complete sewer network length	6782 mtr	DI pipe 150mm to	DI	
2	No of manholes	282 Nos	Various sizes	RCC/masonry	
B	Civil Unit				
1	Inlet Chamber	2 No	1.40 x1.40 x1.10	RCC	
2	Manual Screen Channel	2	2.00 x 0.27 x 0.45	RCC	
3	Manual grit chamber	2	5.80 x 0.52 x0.98	RCC	
4	Extended Aeration Tank	2	Dia 11.50 height 3.50	RCC	
5	Secondary Clarifier	2	11.40 x 7.60 x 1.50	RCC	
6	Lab Building	1 No	4.3 x 5.10	RCC/masonry	
7	Pump house	1 No	4.10 x 12.15	RCC/masonry	
8	Sludge thickner	1 No	1.50 mtr x 6 mtr height	RCC	

9	Sludge drying beds	1 Nos	dia 2.30 x 3.30	RCC
10	Filtrate Sump	1 No	1.45 x1.45 x 1.00	RCC
11	Parshal flume	1 No	2.50 x 3.25 x 0.86	RCC
12	Chlorine contact Tan k	1 No	5.50 x 3.50 x 2.20	RCC
C	Mechanical Units			
1	CI gates	1 No		MS
2	Manual bar screens	1 Nos	-	MS epoxy painted
3	Fixed type slow speed aerators	2 Nos	12.50 HP	MS epoxy painted
4	Sludge Agitator	1 Nos		
5	Sludge Recycle pumps and sludge thickner	2 Nos	5 HP	As per manufacturer recommendati on
6	Wett well/Dry well	6 Nos	1.25 BHP,2.50 BHP.3.50	
7	Filterate pump	2 Nos	5 BHP	
8	Campus lighting	Job		

Executive Engineer
IPH Division No.II
Kullu at Bhunter

Schedule of quantity.

Estimated Cost
Earnest Money
Time:

456365
9127
3 Month

Name of work:-Operation and maintenance of .46 MLD STP at Sharabai with its complete net work of Zone B&C under sewerage scheme Bhuntar Town in Tehsil

S.No	Description of items	Quantity	Rate	Unit	Amount
1	Operation,repair and maintenance of Sewage Treatment and all civil works and electro-mechanical equipments , sewerage network , main trunk sewers, man holes and entire sewer net work of zone B&C by deploying Assistant Plant manager ,Process Engineer, Junior Engineer (Civil),Supervisor, Electricians,Operators,Chemist,Assistant Chemist, Sewer men, Casual Labourer, Watchman, ,Fitter, plumber Sewer men, Casual Labourer, Watchman, Gardener,Fitter, plumber, etc. relating to sewerage system of Bhuntar Town which consist of sewage treatment plant of 0.46 MLD capacity, in all respect to the entire satisfaction of Engineer-in-charge. Firm should do comply the stringent effluent standards laid down by HP Pollution control board and terms and conditions as per annexure A to M alongwith other general terms and conditions.	1 Job		Month	
				Total:-	
	Operation, repair and maintenance shall cover following components				
	0.46 MLD capacity zone B&C				
A	Sewer Network				
1	Complete sewer network length	3590 mtr	DI pipe 150mm to	DI	
2	No of manholes	97 Nos	Various sizes	RCC/masonry	
B	Civil Unit				
1	Inlet Chamber	2 No	1.10 x1.10 x1.00	RCC	
2	Manual Screen Channel	2	2.00 x 0.27 x 0.45	RCC	
3	Manual grit chamber	2	2.00x 1.80 x0.27x.45	RCC	
4	Extended Aeration Tank	2	Dia 7.40 height 3.50+0.50	RCC	
5	Secondary Clarifier	2	7.40x7.40x3.50	RCC	
6	Lab Building	1 No	10x6.60	RCC/masonry	
7	Pump house	1 No	5.60x3.60	RCC/masonry	

7	Pump house	1 No	4.60x2.30	RCC/masonry
8	Rising main	225		D.I pipe
8	Sludge thickner	1 No	1.50 mtr x 6 mtr height	RCC
9	Sludge drying beds	4 Nos	12.50x5.15	RCC
10	Filtrate Sump	1 No	1.80x1.80x3.00	RCC
11	Parshal flume	1 No	2.30x.27	RCC
12	Chlorine contact Tan k	1 No	3.60x3.00x1.80	RCC
13	Campus boundary	Job		
C	Mechanical Units			
1	CI gates	1 No		MS
2	Manual bar screens	2 Nos	-	MS epoxy painted
3	Pumping machinery		2x5BHP	
4	Fixed type slow speed aerators	2 Nos	5.00 HP	MS epoxy painted
5	Sludge Agitator	2 Nos	2HP	SS316
6	Sludge Recycle pumps and sludge thickner	4 Nos	1 HP	As per manufacturer recommendation
7	Campus Lighting	Job		

Executive Engineer
IPH Division No.II
Kullu at Bhunter