

SCHEDULE OF QUANTITY				Estimated Cost :- Rs.		151709 Only	
Name of Work : Restoration of rain damages to LWSS Kanarg fagla in Tehsil Lad Bharol Dist.				Earnest Money :- Rs.		3034 Only	
(SH:- C/O RCC Main Storage tank of 40000 litre capcity).				Time Limit :- Three Month			
S/No.	Description	Quantity		Rate		Unit	Amount
				In Fig.	In word		
1	Excavation in foundation and trenches in earth work,lifts up to 1.50 meters attacking the excavated soil not more than 3 meters clear from the edge of the excavation and then returning the stacking soil in 15cm .layers, when required in to plinths sides of foundations etc, consolidating each deposted layer by ramming and watering and then deposing of all surplus excavated earth as directed with in a lead of 20 metres in all respect with in all leads and lifts as per the direction of Engineer-in-Charge.	29.16	Cum			Per cubic metre	
2	Providing and laying cement concrete 1:4:8 (1cement:4 sand:8 graded stone aggregate 40mm nominal size) and curing complete excluding cost of from work in foundation and plinth complete in all respect with in all leads and lifts and as per the entire satisfaction of Engineer-in Charge.	4.32	Cum			Per Cubic metre	
3	Providing and laying cement concrete 1:1.5:3 (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)	Foundation , footing basis of columns & the like and mass concrete complete in all respect and as per the direction of Enginer-in-Charge	3.26	Cum			Per Cubic meter	
(b)	Wall (any thickness but not less than 0.1 m thickness) attached pillasters, buttresses, plinth and string courses, etc. from top of foundation level upto floor two level complete with in all leads and lifts as per direction of the Engineer-in-Charge.	6.04	Cum			Per Cubic meter	
(c)	Suspended floor ,roofs, lendings and shalves and thier suports balconies,beem griders and bressumers and cantiliver upto floor two level complete with in all leads and lifts as per direction of the Engineer-in-Charge.	1.90	Cum			Per Cubic metre	
4	Providing tor steel reinforcement for R.C.C. work including bending,binding and placing in position complete upto floor two level in all respect complete with in all leads and lifts as per the direction of Engineer-in-Charge.	784.00	Kg.			Per kilogram	
5	Providing form work of steel plate 3.15mm thick planking so as to give a rough finish including shuttering, centring, shuttering and propping hight of propping and centring below supporting floor to ceiling not exceeding 4 mtrs and removal of the same for in-situ reinforced concrete and plain concrete work in lintels, beams etc. including all leads and lifts in: and as per the entire satisfaction of Engineer-in Charge.						
(a)	Vertical surface such as walls (any thickness) portion and the like including attached pillars,buteress plinth and staircases and the like.	80.49	Sqm			Per square metre	
(b)	Flat surfaces such as soffits of suspended floors roofs landing and the like . Floors etc up to 200mm in thickness. complete in all respect and as per the entire satisfaction of Engineer-In-Charge.	16.88	Sqm			Per square metre	
(c)	Edge of slabs & Breaks in floors & walls under 20 cm wide complete in all respect and as per the entire satisfaction of Engineer-In-Charge.	15.54	Rmt.			Per running metre	
6	Providing and fixing man hole cover with locking arrangement as per approved by I&PH deptt.	1.00	No.			Each	
7	Laying,Jointing, testing of GI pipe (Light grade) tube fitting for inlet pipe, outlet pipe and scour pipe complete with in all leads & lifts as per the direction of Engineer-in-Charge.						
	(a) Inlet pipe =65mm	6.00	Rmt.			Per Running Meter	

	(b) Out let pipe=65mm	6.00	Rmt.			Per Running Meter	
	(c) Scour pipe=80mm	6.00	Rmt.			Per Running Meter	
8	P/F brass full way wheel valve with following size						
	(a) Inlet pipe =65mm	1.00	Each			Each	
	(b) Out let pipe=65mm	1.00	Each			Each	
	(c) Scour pipe=80mm	1.00	Each			Each	
Term & Conditions						Total:	
1	The work shall be executed as per IPH/ PWD specification						
2	The pipe shall be issued free of cost from sub divisional store Lad Bharol on proper indents.						
3	The contractor shall be fully responsible for watch and ward of material at the site of work and in case of any theft or loss the recovery shall be made at the double cost of store issue rates.						
4	Cement and steel will be supplied to the contractor by the department at store issue rate @ 223/- per Bag and steel @ Rs. 4874/-per qtl.at sub-division store Lad Bharol						
5	The work shall be completed with in stipulated period.						
6	The rates are inclusive of carriage of all material to the site of work in all leads and lifts.						
7	The concrete should be volume batched, machinically mixed and vibrated only mechanically crushed stone aggregate should be used in concrete works.				Executive Engineer,		
8	1% Labour cess will be deduct from contractor bill.				IPH Division, Padhar.		
SCHEDULE OF QUANTITY					Estimated Cost :- Rs.	170061	Only
Name of Work : Restoration of rain damages to LWSS Neri Chimanoo Langna in Tehsil Lad					Earnest Money :- Rs.	3401	Only
(SH:- C/O RCC Storage tank of 50000 litre capacity).					Time Limit :- Three Month		
S/No.	Description	Quantity		Rate		Unit	Amount
				In Fig.	In word		
1	Excavation in foundation and trenches in earth work,lifts up to 1.50 meters attacking the excavated soil not more than 3 meters clear from the edge of the excavation and then returning the stacking soil in 15cm .layers, when required in to plinths sides of foundations etc, consolidating each deposited layer by ramming and watering and then depositing of all surplus excavated earth as directed with in a lead of 20 metres in all respect with in all leads and lifts as per the direction of Engineer-in-Charge.	35.14	Cum			Per cubic metre	
2	Providing and laying cement concrete 1:4:8 (1cement:4 sand:8 graded stone aggregate 40mm nominal size) and curing complete excluding cost of from work in foundation and plinth complete in all respect with in all leads and lifts and as per the entire satisfaction of Engineer-in Charge.	5.21	Cum			Per Cubic metre	
3	Providing and laying cement concrete 1:1.5:3 (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)	Foundation , footing basis of columns & the like and mass concrete complete in all respect and as per the direction of Enginer-in-Charge	3.93	Cum			Per Cubic meter	
(b)	Wall (any thickness but not less than 0.1 m thickness) attached pillasters, buttresses, plinth and string courses, etc. from top of foundation level upto floor two level complete with in all leads and lifts as per direction of the Engineer-in-Charge.	6.73	Cum			Per Cubic meter	

(c)	Suspended floor ,roofs, lendings and shalves and thier supports balconies,beem griders and bressumers and cantiliver upto floor two level complete with in all leads and lifts as per direction of the Engineer-in-Charge.	1.35	Cum			Per Cubic metre	
4	Providing tor steel reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level in all respect complete with in all leads and lifts as per the direction of Engineer-in-Charge.	908.00	Kg.			Per kilogram	
5	Providing form work of steel plate 3.15mm thick planking so as to give a rough finish including shuttering, centring, shuttering and propping hight of propping and centring below supporting floor to ceiling not exceeding 4 mtrs and removal of the same for in-situ reinforced concrete and plain concrete work in lintels, beams etc. including all leads and lifts in: and as per the entire satisfaction of Engineer-in Charge.						
(a)	Vertical surface such as walls (any thickness) portion and the like including attached pillers,buteress plinth and staircases and the like.	89.67	Sqm			Per square metre	
(b)	Flat surfaces such as soffits of suspended floors roofs landing and the like . Floors etc up to 200mm in thickness. complete in all respect and as per the entire satisfaction of Engineer-In-Charge.	20.83	Sqm			Per square metre	
(c)	Edge of slabs & Breaks in floors & walls under 20 cm wide complete in all respect and as per the entire satisfaction of Engineer-In-Charge.	17.15	Rmt.			Per running metre	
6	Providing and fixing man hole cover with locking arrangement as per approved by I&PH deptt.	1.00	No.			Each	
7	Laying,Jointing, testing of GI pipe (Light grade) tube fitting for inlet pipe, outlet pipe and scour pipe complete with in all leads & lifts as per the direction of Engineer-in-Charge.						
	(a) Inlet pipe =65mm	6.00	Rmt.			Per Running Meter	
	(b) Out let pipe=65mm	6.00	Rmt.			Per Running Meter	
	(c)Scour pipe=80mm	6.00	Rmt.			Per Running Meter	
8	P/F brass full way wheel walve with following size						
	(a) Inlet pipe =65mm	1.00	Each			Each	
	(b) Out let pipe=65mm	1.00	Each			Each	
	(c)Scour pipe=80mm	1.00	Each			Each	
	Term & Conditions					Total:	
1	The work shall be executed as per IPH/ PWD specification						
2	The pipe shall be issued free of cost from sub divisional store Lad Bharol on proper indents.						
3	The contractor shall be fully responsible for watch and ward of material at the site of work and in case of						
4	Cement and steel will be supplied to the contractor by the department at store issue rate @						
5	The work shall be completed with in stipulated period.						
6	The rates are inclusive of carriage of all material to the site of work in all leads and lifts.						
7	The concrete should be volume batched, machinically mixed and vibrated only mechanically crushed					Executive Engineer,	
8	1% Labour cess will be deduct from contractor bill.					IPH Division, Padhar.	
	SCHEDULE OF QUANTITY					Estimated Cost Rs.:-	141751 /- only
	Name of work:- Restoration of rain damages to LWSS Khadder in Tehsil Lad Bharol Distt.					Earnest Money Rs.:-	2835 /- only
	(SH:- Jecting of existing Storage tank 150000ltr cap.)					Time:-	Three months.
S.No.	Description or item.	Quantity	Rate	Unit.	Amount		

SCHEDULE OF QUANTITY				Estimated Cost :- Rs.		128252 Only	
Name of Work : Restoration of rain damages to WSS Kharihar in Tehsil Lad Bharol Distt. Mandi				Earnest Money :- Rs.		2565 Only	
(SH:- C/O RCC Main Storage tank of 30000 litre capcity).				Time Limit :- Three Month			
S/No.	Description	Quantity		Rate		Unit	Amount
				In Fig.	In word		
1	Excavation in foundation and trenches in earth work,lifts up to 1.50 meters attacking the excavated soil not more than 3 meters clear from the edge of the excavation and then returning the stacking soil in 15cm .layers, when required in to plinths sides of foundations etc, consolidating each deposted layer by ramming and watering and then deposing of all surplus excavated earth as directed with in a lead of 20 metres in all respect with in all leads and lifts as per the direction of Engineer-in-Charge.	23.76	Cum			Per cubic metre	
2	Providing and laying cement concrete 1:4:8 (1cement:4 sand:8 graded stone aggregate 40mm nominal size) and curing complete excluding cost of from work in foundation and plinth complete in all respect with in all leads and lifts and as per the entire satisfaction of Engineer-in Charge.	3.52	Cum			Per Cubic metre	
3	Providing and laying cement concrete 1:1.5:3 (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)	Foundation , footing basis of columns & the like and mass concrete complete in all respect and as per the direction of Enginer-in-Charge	2.66	Cum			Per Cubic meter	
(b)	Wall (any thickness but not less than 0.1 m thickness) attached pillasters, buttresses, plinth and string courses, etc. from top of foundation level upto floor two level complete with in all leads and lifts as per direction of the Engineer-in-Charge.	5.16	Cum			Per Cubic meter	
(c)	Suspended floor ,roofs, lendings and shalves and thier suports balconies,beem griders and bressumers and cantiliver upto floor two level complete with in all leads and lifts as per direction of the Engineer-in-Charge.	1.52	Cum			Per Cubic metre	
4	Providing tor steel reinforcement for R.C.C. work including bending,binding and placing in position complete upto floor two level in all respect complete with in all leads and lifts as per the direction of Engineer-in-Charge.	655.00	Kg.			Per kilogram	
5	Providing form work of steel plate 3.15mm thick planking so as to give a rough finish including shuttering, centring, shuttering and propping hight of propping and centring below supporting floor to ceiling not exceeding 4 mtrs and removal of the same for in-situ reinforced concrete and plain concrete work in lintels, beams etc. including all leads and lifts in: and as per the entire satisfaction of Engineer-in Charge.						
(a)	Vertical surface such as walls (any thickness) portion and the like including attached pillers,buteress plinth and staircases and the like.	68.85	Sqm			Per square metre	
(b)	Flat surfaces such as soffits of suspended floors roofs landing and the like . Floors etc up to 200mm in thickness. complete in all respect and as per the entire satisfaction of Engineer-In-Charge.	13.37	Sqm			Per square metre	
(c)	Edge of slabs & Breaks in floors & walls under 20 cm wide complete in all respect and as per the entire satisfaction of Engineer-In-Charge.	13.93	Rmt.			Per running metre	
6	Providing and fixing man hole cover with locking arrangement as per approved by I&PH deptt.	1.00	No.			Each	
2	Laying , jointing , testing & carrige of galvanized steel tube fittings in trenches of following dia (L) class (Earth work in trenched to be measured and paid or seperately .) complete in all respect with in all leads and lift and as per the direction of Engineer-in-Charge.						

	(a) Inlet pipe =50mm	6.00	Rmt.			Per metre	
	(b) Out let pipe=50mm	6.00	Rmt.			Per Running Meter	
	(c)Scour pipe=50mm	6.00	Rmt.			Per Running Meter	
8	P/F brass full way wheel valve with following size						
	(a) Inlet pipe =50mm	1.00	Each			Each	
	(b) Out let pipe=50mm	1.00	Each			Each	
	(c)Scour pipe=50mm	1.00	Each			Each	
	Term & Conditions					Total:	
1	The work shall be executed as per IPH/ PWD specification						
2	The pipe shall be issued free of cost from sub divisional store Lad Bharol on proper indents.						
3	The contractor shall be fully responsible for watch and ward of material at the site of work and in case of						
4	Cement and steel will be supplied to the contractor by the department at store issue rate @						
5	The work shall be completed with in stipulated period.						
6	The rates are inclusive of carriage of all material to the site of work in all leads and lifts.						
7	The concrete should be volume batched, machinically mixed and vibrated only mechanically crushed				Executive Engineer,		
8	1% Labour cess will be deduct from contractor bill.				IPH Division, Padhar.		
SCHEDULE OF QUANTITY					Estimated Cost Rs. 2,95,353/- Only		
Name of Work:Providing LWSS Shanan Makriri Chatarbhuja and Jhamed Tehsil Joginder Nagar					Earnest Money Rs. 5,910/- Only		
(S.H:- C/O Balance work Dome slab and providing and placing Filter media)					Time:- Six Months.		
S.No	Item of work	Quantity		Rate		Unit.	Amount
				In Fig.	In words		
1	Providing and laying cement concrete 1:1.5:3 (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) Suspended floor roofs, landing and shelves and their support balconies,beams,girders,bressumers and cantilevers up to floor two level.	8.88	Cum			Per Cubic Meter	
2	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair finish l/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 :-						
	Arches (Dome)	70.65	Sqm			Per Square Meter	
3	Providing tor steel reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level.	621	Kg			Per Kilogram	
4	Providing and placing in horizontal layers filtering media duly graded, screaned washed and cleaned as specified by the Engineer-in-charge.						
(a)	Top layer :-	94.19	Cum			Per Cubic Meter	
	Fine sand of size 0.2 to 04 and uniformity co-efficient 2.00 to 3.00						
(b)	Second layer :-						
	Course sand 3mm to 6mm.	12.56	Cum			Per Cubic Meter	
(c)	Third layer :-						
	Bajri 6mm to 20mm.	12.56	Cum			Per Cubic Meter	

(d)	Fourth layers:- Bajri 20mm to 25mm.	12.56	Cum			Per Cubic Meter		
(e)	Bottom layer :- Broken stone 50mm to 75mm.	18.84	Cum			Per Cubic Meter		
5	Providing and placing in horizontal layer dry bricks in two layers as specified by the Engineer-in-charge.	5546	Nos.			Each		
TERM AND CONDITIONS:-						Total :-		
1	The work shall be executed as per IPH/ PWD specification							
2	The contractor shall be fully responsible for watch and ward of material at the site of work and in							
3	Cement and steel will be supplied by the department at store issue rate @ Rs. 223/- per Bag							
4	The work shall be completed with in stipulated period.							
5	The rates are inclusive of carriage of all material to the site of work in all leads and lifts.							
6	The concrete should be volume batched, machinically mixed and vibrated only mechanically							
7	Royalty, sale tax octroi etc. will be born by the contractor and proof there of shall have to be							
8	Before placing the filter media in filter bed, the sieve analysis of sand shall be got done by the						Executive Engineer,	
9	1% Labour cess will be deducted from the bill of contractor.						IPH Division, Padhar.	

SCHEDULE OF QUANTITY							Estimated Cost Rs.:- 3,53,107/- Only
Name of work:- Aug. of LWSS Dhagon Pipli in Tehsil Jogindernagar Distt. Mandi (H.P.)							Earnest Money Rs.:- 7,065/-Only
(SH:- C/O By Pass arrangement of Treatment Plant Unit, Electrical Installaction & Street Light to Pump							Time:- Six Months.
Sr. No.	Description or item.	Quantity		Rate		Unit.	Amount
				In Fig.	In words		
1	Excavation in foundation, trenches etc. for pipes upto all depths in all kinds of soil such as spade work, pick work, jumper work, blasting work, chiselling work, kankar, mooram singles including decomposed in soft /hard work, chiselling/wedging out of hard and soft rocks where blasting is prohibited, in saturated soil including bailing out the watering, by cutting in slopes where ever required, in rocky portion suitable anchorage shall be provided (anchorage will be paid separately) and stacking the excavated materials not more than 3.00 meters clear from the edge of excavation and then returning the stacked soils in 15 cm (fifteen centi meter) layer when required into sides of trenches and above the laid pipes etc. consolidating in each deposited layer by ramming and watering and then disposing of all surplus excavated soil in all leads and lifts. After disposal, the surface shall be neatly dressed and leveled and shoring to its original shape complete in all respect, including all leads and lifts and as per entire satisfaction of Engineer - in - charge	35.36	Cum			Per Cubic Metre	
2	Laying, jointing, with circumferential butt joints by electrical arc welding (Welding thickness shall be equal to pipe wall thickness) and testing of G.I Pipes of following diameter confirming to IS:1239:1990 (Part-ii) (latest with up to date amendments having wall thickness as specified below capable of withstanding required test pressure, including manufacturing and fabrication of reducers taper all shorts pieces, bends etc as per site requirement made from parent tubes. The laying of pipe shall also include flanged joints duly welded in three layer (Two inner and one outer) Where ever required as per direction of Engineer in charge (Earth work in trenches and the cost of flanges I/C nut and bolts gasket will be measured and paid for separately) and all operation such as cutting welding and jointing fabrication of bends i.e lowering and laying in excavated trench to ensure required level including flushing cleaning and hydraulic testing complete in all respect to the entire 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 welding electrodes shall be as per IS 814 of Advani Overlikon/Over cord s/s make. The damaged portion of the pipe and all specials (if damaged during laying and jointing operation of pipe) made from the parents tube shall be provided anticorrosive treatment by applying two coats of anticorrosive bituminous paints over a priming coat as per AWWA specification C-203-1978. The rates also includes entire carriage of material, flushing, Cleaning and Hydraulic testing, DP test of butt welded joints complete in all respect and to the entire satisfaction of Engineer in charge with in all leads and lifts						
	a) G.I Pipe 100 mm dia (L)	79.00	Rmt			Per Running Metre	

3	Providing MS Flange (in pairs) for Joints of G.I pipe mentioned as below and same shall conform to BIS 6392-1971 (Latest with upto date amendments) Including the cost of nuts and bolts of required sizes 3 mm thick compressed asbestos fiber/synthetic rubber gaskets conforming to relevant BIS standard and direction of Engineer in Charge. The cost of laying jointing and welding shall be paid as per item no 2 for flange joint.					
	a) M.S. Flange 100 mm dia T-5	1.00	No.			Each
4	Providing & fixing C.I. Sluice valves / Scour valves (with hand wheel) as per IS: 780 Class I, PN 1.0 leader / Bir / BHEL / GLED / Kirloskar make of 100 mm diameter including stainless spindle complete with bolts, nuts, rubber insertions.	13.00	Nos.			Each
5	Providing and laying cement concrete 1:6:12 (1cement:6 sand:12 graded stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth.	3.85	Cum			Per Cubic Metre
6	P/L Cement Concrete 1:5:10 (1cement, 5sand, 10 graded stone aggregate, 40mm nominal size) with 15% plum and curing complete excluding cost of form work in retaining wall/ breast wall, the size of plum shall usually be 150mm to 300mm as per HPPWD specification.	19.50	Cum			Per Cubic Metre
7	Providing form work with steel plate 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair finish i/c centring, shuttering, shurting and propping etc. with wooden battens and ballies, height of propping and centring below supporting floor to ceiling not exceeding 4mts. and removal of the same for insitu - reinforced concrete and plain concrete work in:-					
a)	Vertical surface such as walls (any thickness) portion and the like including attached pillars, buteress plinth and staircases and the like.	101	Sqm			Per Square Metre
8	Wiring for light point / fan point / exhaust fan / call bell point with 1.5 Sq. mm. PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping and earthing the light point with 1.5 Sq.mm. HRFRLS/PVC insulated single core copper conductor cable as required.					
	a) Group C.	11	Nos.			Each
9	Wiring for circuit / sub-main with following size PVC insulated heat resistant flame retardant (HRFR) and low smoke single core (flexible) copper conductor cable in PVC casing & capping along with 1 No.HRFRLS/PVC insulated single core copper conductor cable of same size for earthing as required.					
	i) 2 x 1.5 Sq. mm.	35	Rmt			Per Running Metre
	ii) 2 x 2.50 Sq. mm.	40	Rmt			Per Running Metre
10	(a) Supplying and fixing 3 pin 5/6 amps. Socket outlet on the exists switch box/covers including connections etc. as required.	3	Nos.			Each
	(b) Supplying and fixing 2 way 5/6 amps. Tumbler/piano type switch on the existing switch box on the switch box/cover including connections etc. as required.	3	Nos.			Each
11	(a) Supplying and fixing 3 pin 15/16 amps. Socket outlet on the exists switch box/covers including connections etc. as required.	2	Nos.			Each
	(b) Supplying and fixing 15/16 amps. Tumbler/piano type switch on the existing switch box on the switch box/cover including connections etc. as required.	2	Nos.			Each

12	Supplying and fixing wooden box of following size (nominal) on surface or recess with suitable size of phenolic laminated sheet cover of in front as required.					
	(a) 229 mm.x 102 mm.x 60 mm. deep	3	Nos.			Each
	(b) 203 mm.x152 mm.x 60 mm. deep	3	Nos.			Each
13	Supplying and fixing ceiling rose on existing junction box/ wooden block including connections etc. as required.	9	Nos.			Each
14	Supplying and fixing plain pendant with 16/20 mm twin twisted, flexible PVC insulated copper cable and bakelite pendant holder including connections, etc. as required.	3	Nos.			Each
15	Supplying and Fixing 5 Amps to 32 Amps rating, 240 Volts, L series miniature circuit breaker of following poles in the existing MCBDB complete with connections, testing and commissioning etc. as required Cat - A. (Single Pole)	4	Nos.			Each
16	Supplying and Fixing of following way, single pole and neutral, sheet steel, MCB distribution board, 240 Volts on surface/ recess, complete with tinned copper busbar, natural link, earthbar, dibnbar, detachable gland plates, inter connections, i/c painting, earthing etc. as required busbar 8 way.	1	No.			Each
17	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. (63 amp. CAT - A)	1	No.			Each
18	Providing, installing, testing and commissioning of ceiling fan and regulator i/c wiring the down rod of standard length (upto 30 Cm with 1.5 Sqmm PVC insulated copper conductor single core cable etc. as required.Ceiling fan 1400 mm sweep category A	2	Nos.			Each
19	Providing and fixing ultra slim decorative extruded box fixture with domestic electronic ballast, snap-on installers, suitable for 28 watt FTL (T5), complete with all accessories (including one No. T-5 Tube), connections, testing and commissioning etc. as required.					
	a) 1 x28 watt-FTL(T5) (Category-A)	4	Nos.			Each
20	Providing and fixing LED Lighting ROADWAY LUMINAIRES Single Piece, Pressure Die-Cast Aluminium Housing, Top Opening Luminaires (IP 65) with all accessories including cost of lamp ISI mark LHETBAU7PN6J020 Havell's make or Bajan Make BCLST 20 W LED complete with all accessories and ballast i.e. 15/16 amp. switch & socket with board,copper wire 8 SWG (4 mm dia) Bracket and suitable angle clamps for fixing and other fittings etc.complete in all respect in all leads and lifts.	1	No.			Each
21	Providing and fixing two core service wire 6 Sqmm thick.	30	Rmt			Per Running Metre
Sub- Head No 2 (Supply and erection of Pumping Machinery)						

(a)	Supply of submersible pump sets for clear water of reputed make such as KSB/ Kirloskar/ Oswal/BS /SU/JOHNSTON conforming to latest relevant BIS code. The pump should be fitted with free flow impellers of bronze /suitable alloy as per BIS 5659-1970 latest suitable for raw water 3000 PPM having greased packed bearing and shaft with bound stator on motor side & with shaft protection sleeve on pump side ensuring better life for shaft conforming to BIS specifications. The pump shall be directly coupled to a submersible squirrel cage electric induction motor of Kirloskar /NGEF/Jyoti/Crompton 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 bearing & 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 the heating of motor. The pump set should include water level guard erection clamps, cable clips & depth gauge etc & suitable for operation on data given below:-		
i	Providing vertical spindle, horizontal / radial split casing/ end suction (backpull out arrangement) single / double / multistage submersible pump or combination of pumps, in series / parallel of recommended make such as Mather & Platt / KSB / Beacon weir / Kirloskar / BE / Jyoti as per BIS : 1520 - 1980 with upto date amendments, read with IS : 9137-1978 or latest edition suitable for lifting water for under mentioned characteristics with bronze impellers/ priming funnels, casing ring and shaft sleeves of bronze, shaft of steel grade ____ with cast iron casing coupled directly through a flexible coupling on a common Mild Steel base plate (base plate to be from the manufacturer of the		
	(a) Pumps :	2	Nos.
	Specifications		
	i) Make:		
	ii) Model:		
	iii) No. of stages:		
	iv) Material. (Manufacturers certificate to be appended)		
	Performance		
	i) Head (H) : 161.99		
	ii) Discharge (Q): 3.98 LPS		
	ii) BHP absorbed :		
	iii) Efficiency (n):		
	iv) NPSH:		
ii	pumping unit only) to slipring / squirrel cage screen protected drip proof induction motor / motors of standard make such as Kirloskar / BHEL / Crompton / NGEF / GEC / Siemens / Jyoti and suitable for operation on 415 (+/-) 5% volts, 50 cycles / secnd, 3 phase AC electric supply. The power of electric motor / motors should be at least +10% in excess of the maximum power required by the pump / pumps in the operating range of (+) 10% and (-) 25% of the duty point head. The motor / motors as per IS: 325-1978 with upto date amendments read with IS: 900-1972. It should include the cost of bearing, nuts, bolts and painting etc, and should meet the following requirements:-	(b) Motors	
	2 Set of 3 HP	6	HP
	Specifications		Per HP
	i) Make:		
	ii) Model:		
	iii) Motor rating (KW):		

	iv) Speed:						
	v) Insulation:						
	(C) Coupling.						
	(d) Base plate.						
i)	Discharge (Q)	4.200	Lps. Or				
		15.120	Cum/hr. Per pump				
ii)	Total Dynamic head (H)	21.94	metre.				
(a)	LWL in sumpwell	900	metre.				
(b)	Pump shaft level	900	metre.				
(c)	Level at discharge point.	918	metre.				
(d)	Suction lift.	0	metre.				
(e)	Discharge head	0	metre.				
(f)	Static head	18	metre.				
	Altitude of installation above MSL		Metre.				
	Characterstics of water.						
(a)	Temperature		°C				
(b)	Ambient temp		°C				
(c)	Turbidity		JTU				
(d)	Alkalanility		mg/1 Ca Co 3.				
(e)	Size of the solids		mm.				
(f)	Others.						
2	Providing ICTP Main switch with HRC fuses of Kilburn / L&T / Siemens / Standard / Havell's make and having capicity 30% extra of the operational rating as per IS: 4064-1978 with upto date ammendments, immediately after the power of the HPSEB.						
	ICTP Switch	1	No.				
	i) Make						
	ii) Type						
	iii) Capacity						
3	Providing M.S. Sheet, steel fabricated floor /mounted closed (almirah type) switch board including angle iron post of suitable height and size ISA 48x48x6mm,duly painted with steel sheet of 16 gauge comprising and capable of mounting the following accessories with all internal connections:						
	Panel / Switch Board	1	No.				
	i) Drawing						
	ii) Layout Plan						
	a (i) MCB / ACB / Oil circuit breaker of Kilburn / L&T /MEI /GEC make and of suitable capacity on incoming feeder with or without initial oil filling as the case may be with neutral linked under voltage releases as per IS:2516-1985 with upto date ammendments with,						
	MCB /ACB /OCB		1 No.				
		i) Make					
		ii) Type					
		iii) Range					
		iv) Capacity					

a(ii) Earth leakage circuit breaker /Earth leakage relay of recommended make Kilburn / L&T / MEI / GEC as per IS: 2516 - 1977 with upto date ammendments and of suitable range which should have control box, operating handle and trip/rest bush button on / off indicators, re-indicating off spring condition of circuit breaker for over current protection.The circuit should be equipped with magnet thermal release with metallic tape CTS. It should also be fitted with earth fault for tripping of breaker on occurrence of earth fault on off breaker load side and,					
<u>E.L.C.B /E.L.R.</u>	1 No.				
i) Make					
ii) Type					
iii) Range					
a(iii) The voltage monitor relay three phase with all protection and usual indicator and electric siran against single phasing, low voltage, high voltage, reverse ph-asing,over loading and phase voltage difference as per IS: 3842 (latest eddition).					
<u>Voltage Monitor Relay</u>	1 No.				
i) Make					
ii) Type					
iii) Range					
b) 100mm diameter circular dial A.C. supply,voltmeter of recommended make AE/ IMP/ Havell's of suitable range with selector switches as per IS:4064-1978 with upto date ammendments.					
<u>Voltmeter</u>	1 No.				
i) Make					
ii) Type					
iii) Range					
c) Power factor meter of standard make as per relevant IS code with upto date ammendments.					
<u>Power Factor Meter</u>	No.				
i) Make					
ii) Type					
d) Frequency meter of standard make as per relevant IS Code with upto data ammendments.					
<u>Frequency Meter:</u>	1 No.				
i) Type					
ii) Make					
iii) Range					
e) Bus bar chamber having three bars of suitable rating for full length equal to the width of the board for three live phases and suitable for induced current, one coppor bar of half the rating of full length for neutral phase as per IS: 8084-1976 and IS: 11353-1985 read with BIS: 5578-1985 with upto date ammendments.					
<u>Starter</u>	1 Nos.				
i) Type					
ii) Make					
<u>Single Phase Preventor</u>	1 Nos.				
i) Type					
ii) Make					
Providing Hour run meter of recommemded make and suitable capacity as per IS: 722 (Latest edition).					
<u>Hour Run Meter</u>	1 Nos.				

	i) Type						
	ii) Make						
	iii) Capacity						
4	Providing double flanged cast Iron sluice valves of Leader/ BHEL / GLED / Kirloskar / Kilburn / Fouress make and of 80mm dia for the delivery line of pump and capable of withstanding the normal seat pressure and as per IS: 780 -1984 with upto date ammdnements.	2	Nos.				
	Sluice Valve						
	i) Make						
	ii) Class PN-1	PN-1					
	iii) Seat Pressure						
	iv) Material						
5	Providing double flanged swing type cast Iron reflux valves of leader / BHEL / GLED / Kirloskar / Kilburn / Fouress make and of 80 mm dia having bypass arrangement on the delivery line of the pump and capable of withstanding the normal seat pressure as per IS: 5312- 1984 (P-I) with upto date ammdnements.	2	Nos.				
	Reflux Valve						
	i) Make						
	ii) Class	PN-1					
	iii) Seat Pressure						
	iv) Material						
6	Installation of all the items appearing at serial No.1 to12 as per the systematic drawing attached with the tender document.(Drg.No.1)	1	Job.				
7	Providing and laying copper PVC insulated armoured power cable (one cable carrying all the three phases) of suitable size and capacity to motor and all other electrical equipments as per IS: 1554 (P-I), 1988 or latest with upto date ammdnements of Siemens / Gloster / IEC / ICC / EICC / NATIONAL / BRMDLA make including all other accessories such as thimbles flexible pipes, solder, nuts and bolts ,cable glands etc. laid in pipes or trenches under floor.	(A) Motor side (from switch to starter & starter to motor)					
		1	Job.				
	i) Size						
	ii) Make						
	iii) Type						
	iv) Capacity						
	v) Core						
	(B) Supply side from meter of HPSEB to bus bar & switch)						
	i) Size						
	ii) Make						
	iii) Type						
	iv) Capacity						
	v) Core						
8	Providing and fixing double loop earthing with copper plate 600x600x3mm thick electrode complete with material such a thimbles,nuts and bolts,charcoal and common salt,25x5mm coppor strips as per IS: 3043 - 1987 with upto date ammdnements for motors and other electrical equipments and digging of pits etc. complete in all respects.	1	Job.				
						Total:-	
	TERM AND CONDITIONS:-						
1	The work shall be executed as per IPH/ PWD specification						
2	The pipe shall be issued free of cost from sub divisional store J/Nagar on proper indents.						
3	The contractor shall be fully responsible for watch and ward of material at the site of work and						
4	Cement and steel will be supplied by the department at store issue rate @ Rs. 223/- per Baq						

5	The work shall be completed with in stipulated period.						
6	The rates are inclusive of carriage of all material to the site of work in all leads and lifts.						
7	The concrete should be volume batched, machinically mixed and vibrated only mechanically						
8	1% Labour cess will be deducted from the bill of contractor.					Executive Engineer,	
						I&PH Division Padhar.	

SCHEDULE OF QUANTITY					Estimated Cost :	6,71,479/-only	
Name of Wrok:-C/O LIS Bella Sakmand and Alga Petu in Tehsil J/Nagar Distt. Mandi (HP)					Earnest Money:	13,430/-only	
(SH:-Balance work C/O Sump well =2 Nos, C/O Pump house = 2 Nos, Desilting Tank = 2					Time:	Six Months	
Sr. No.	Description of item	Qty		Rate		Unit.	Amount
				In Fig.	In words		
1	Excavation in foundation and trenches etc.in earth work in all depths and in all classification of earth work such as pick wok,jumper work,saturated soil including balling or pumping out 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 trmbering and dewatering wherever required stacking usable and unusable material/soil seperaterly and after laying jointing and testing of pipes returning the useable soil in 15cm layers by ramming and watering and then drisposing of surplus excavated soil/unusable material as directed within all leads/lifts including cost of diversion for traffic night signal boards,fixing caution boards,crossing over trenches for access to houses,fencing etc.complete in all respect with in all leads and lifts as per the direction of Engineer-in-Charge.	121.05	Cum			Per Cubic meter	
2	Excavation in drain and channels etc. in earth work including dressing of sides and bed disposal of excavated earth up to a lead of 20 metre in pick work with in all leads and lifts.	72.80	Cum			Per Cubic metre	
3	Providing and laying cement concrete 1:1.5:3(1cement:1.5 sand:3 graded stone aggregate 20mm nominal size) and curing cimplete excluding cost of form work and re-inforcement for reinforced concrete work in:						
(a)	Walls(any thickness but not less than 0.1 m thickness)attached pillasters, buttresses, plinth and string courses,etc. from top of foundation level upto floor two level with in all leads & lifts and as per the entire satisfaction of Engineer-in Charge.	36.15	Cum			Per Cubic meter	
(b)	Suspended floor,roofs, landings,shelves and their supports balconies, beams,girders, bressumers and centilevers upto floor two level complete with in all leads & lifts as per direction of Engineer-in-Charge.	9.89	Cum			Per Cubic meter	
4	Providing and laying cement concrete 1:6:12 (1cement:6 sand:12 graded stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth complete with in all leads & lifts as per direction of Engineer-in-Charge.	10.80	Cum			Per Cubic meter	
5	Random rubble masnory/ polygonal rubble masonry (uncoursed/brought to courses) with hard stone of apporved quailty in foundation & plinth including levelling up with cement concrete 1:6:12 (1Cement :6 sand :12graded stone aggregate) in CM 1:6 (1cement : 6sand) complete with in all leads and lifts.	7.90	Cum			Per Cubic meter	
6	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair firnish l/c centring,shuttering,strutting and propping etc.with wooden battens and ballies,height of propping and centring below supporting floor to ceiling not exceeding 4mtrs. and removal of the same for insitu-reinforced concrete & plain concrete work in foundation footings basis of columns etc.						
(a)	Vertical surface such as walls (any thickness) portion and the like including attached pillers,buteress plinth and staircases and the like.	60.08	Sqm			Per Square meter	

(b)	Slopping of battering surfaces including folded plates where inclination to horizontal plane does not exceed 30° complete with in all leads & lifts as per direction of Engineer-in-Charge.	96.3	Sqm			Per Square meter	
(c)	Edges of slab and breaks in floors & walls under 20 cm. wide complete with in all leads & lifts as per direction of Engineer-in-Charge.	71.29	Rmt.			Per Running Meter	
7	Providing tor steel reinforcement for reinforced cement concrete work including bending, binding in position complete upto floor two level complete in all respect and as per the direction of Engineer-in-Charge	2265.90	Kg			Per kilogram	
8	Brick work using common burnt clay building bricks in super structure above plinth level upto floor two level in cement mortar 1:6 (1 cement : 6 sand) 1st class brick complete with in all leads and lifts.	0.42	Cum			Per Cubic metre	
9	Providing and fixing pressed steel doors frames manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges, jumb lock jamb, beed and if required angle threshold of mild steel angle of section 50x25 mm or base ties of 1,25 mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split and tails to each jamb including steel butt hinges 2.5 mm thick with gaurds, lock strike plate and shock absorbes as specified and applying a coat of approved steel primer after pretreatment of the surface as directed by Engineer-in-charge. Profile- B complete with in all leads & lifts as per direction of Engineer-in-Charge.	12.60	Rmt.			Per Running Meter	
10	Providing and fixing paneled glazed or paneled and glazed shutters for doors, windows and clerestory windows, including black enamelled iron butt hinges with necessary screws 40 mm thick 2nd class deodar wood complete with in all leads & lifts as per direction of Engineer-in-Charge.	16.54	Sqm			Per Square Meter	
11	Providing & fixing M.S. grills of required pattern in wooden frame of window etc. with M.S. flats, square or round bars with round headed bolts and nuts by screws plain grill complete with in all leads and lifts.	2.08	Qtl.			Per Qtl.	
12	Cement concrete flooring 1:2:4 (1cement : 2sand : 4 graded stone aggregate 20mm nominal size) laid in one layer finished with a floating coat of neat cement 40mm thick complete with in all leads and lifts.	51.40	Sqm			Per Square meter	
13	15 mm cement plaster in single coat on rough side of brick/ concrete/ stone wall for interior plastering upto floor two level including arrises internal rounded angles, chamfers and or rounded angles not exceeding 80mm in girth and finished even and smooth in cement mortar 1:6 (1cement:6sand) complete with in all leads & lifts as per direction of Engineer-in-Charge.	113.74	Sqm			Per Square meter	
14	Flush pointing on brick work with cement mortar 1:3 (1: cement 3: sand) complete with in all leads & lifts as per direction of Engineer-in-Charge.	160.30	Sqm			Per Square meter	
15	6mm cement plaster to ceiling in cement mortar 1:3 (1cement:3sand) complete with in all leads & lifts as per direction of Engineer-in-Charge.	81.17	Sqm			Per Square meter	
16	Distemping with dry distemper of approved brand and manufacture (two coats) and of required shade on undecorated wall surfaces to give an even shade sand papered smooth complete with in all leads & lifts as per direction of Engineer-in-Charge.	223.47	Sqm			Per Square Meter	
17	Applying priming on new wood and wood based surface after and including preparing the surface by thoroughly cleaning oil, grease, dust and other foreign matter, sand preparing and knotting. Ready mixed paint brushing wood primer pink.	69.98	Sqm			Per Square meter	
18	Painting two coats (excluding priming coat) on new wood and wood based surfaces with enamel paint to give even shade including cleaning the surface of dust and other foreign matter, sand preparing and stopping with enamel paint other than white.	69.98	Sqm			Per Square meter	

19	Providing and fixing oxidized M.S. sliding door bolts with nuts and screws etc. complete 250x16mm complete with in all leads & lifts as per direction of Engineer-in-Charge.	4.00	Nos			Each	
20	Providing and fixing anodised M.S. Tower bolts (Barrel type) with necessary screws etc.complete with in all lead and lifts.						
	i) 200 x 10 mm.	8.00	Nos			Each	
	ii) 150 x 10 mm.	50.00	Nos			Each	
21	Providing and fixing Oxidized M S Handle with necessary screws etc complete with in all leads and lifts 125 mm	40.00	Nos			Each	
22	Providing plinth protection 50mm thick in cement concrete 1:3:6 (1cement: 3sand:6graded stone aggregate 20mm nominal size) including finishing the top surface of concrete smooth complete with in all leads and lifts.	11.37	Sqm			Per Square meter	
23	Providing under layer for plinth protection of 75mm thick (unconsolidated) bed of dry brick/stone aggregate 40mm nominal size) well remmed and consolidated and grouted with fine sand including preparation of ground complete with in all leads and lifts.	20.13	Sqm			Per Square meter	
24	Precast terrazzo tiles 20 mm thick with marble chips of specified size in flooring cement mortar 1: 6 (1 cement :6 sand) jointed with neat cement slurry. (Dark shade) complete with in all leads & lifts as per direction of Engineer-in-Charge. (MR)	14.40	Sqm			Per Square Meter	
25	Half brick masonry in common brunt clay building bricks in cement mortar 1:4 (1 cement:4 sand) 2class bricks complete with in all leads and lifts.	30.44	Sqm			Per Square meter	
26	Dressing of bed and preparation of sub grade for lining in pick work as per entire satisfaction of Engineer-in-Charge.	161.50	Sqm			Per square metre	
27	Dressing of side slopes and preparation of sub grade for lining in pick work	425.00	Sqm			Per square metre	
28	Cement concrete lining in 15 cm . Thick or less for irrigation channels using cement concrete 1:3:6 (1 cement: 3sand: 6 graded stone aggregate 20mm nominal size)						
a	Hand mixed cement concrete lining in bed with in all leads and lifts	10.35	Cum			Per Cubic metre	
b	Hand mixed cement concrete lining in sides slopes with in all leads and lifts.	29.85	Cum			Per Cubic metre	
29	Boulder filling dry hand packed tightly as in wire crate apron bunds complete with in all leads and lifts as per the direction of Engineer-in-Charge.	5.77	Cum			Per Cubic metre	
30	Extra allowances for form work in concrete lining in sides/side slopes with in all leads and lifts	29.85	Cum			Per Cubic metre	
	Term & Conditions					Total:	
1	The work shall be excuted as per IPH specification & to the entire satisfaction of Engineer-in-						
2	The contractor shall be fully responsible for watch and ward of material at the site of work and						
3	Cement and steel will be supplied by the department at Sub-Divisional store J/Nagar , Cement						
4	The work shall be completed with in stipulated period.						
5	The rates are inclusive of all carraige of material to the site of work in all leads and lifts.						
6	The concrete should be volume batched, machinically mixed and vibrated only						
7	The sand will be used from the opproved quarry.						
8	The crushed stone aggregate will be used						
9	Nothing shall be paid for rejected material/work.						Executive Engineer,
10	1% labour cess will be deducted from the bill of contractor.						IPH Division, Padhar.

SCHEDULE OF QUANTITY						
Name of Work:- Restoration of Land Slide in Kotropi to damage WSS Urla Kotropi Badwahan in G.P. Urla in Tehsil Padhar				Estimated Cost :- Rs.	4,42,910	/- Only
(SH:- C/O RCC Storage Tank of 21,000 Lit. Capacity i/c locking arrangement, C/O R/Wall / Protection Wall to protect civil structure Length = 7.00 Mtr. & Height = 2.00 Mtr., C/O Sedimentation Tank = 4352 lit. Capacity Phase-II & C/O Slow				Earnest Money :- Rs.	8,860	/- Only
				Time :-	Six	Months
Sr. No.	Description of Items	Quantity	Rate		Unit	Amount
			In Figures	In Words		
1	Excavation in foundation and trenches etc. in earth work in all kind of soil such as pick work jumper work,saturated soil including bailing or pumping out water, blasting soft/hard rock, chiseling soft/hard rock where blasting is prohibited in all lifts including trimming and dressing of sides, levelling of bed, stacking the excavated soil clear from the edge of excavation and then returning the excavated soil in 15cm. layers including consolidating each deposited layer by ramming , watering and then disposing of all surplus excavated soil as directed in all leads/lifts and shoring strutting,timbering and dewatering where ever required as per the direction of the Engineer-in-Charge.	46.84 Cum			Per Cubic Metre	
2	Providing and 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 with in all leads and lifts.	10.26 Cum			Per Cubic Metre	
3	Providing and laying cement concrete 1 : 1½ : 3 (1Cement : 1½ Sand : 3 graded stone aggregate 20mm nominal size)and curing complete excluding cost of form work and re-inforcement for reinforced concrete work in :-					
	a) Foundations, footings, basis of columns & the like and mass concrete with in all leads and lifts as per the direction of Engineer-in-Charge.	9.04 Cum			Per Cubic Metre	
	b) Wall (any thickness but not less than 0.1 m thickness) attached pillasters, buttresses, plinth and string courses, etc. from top of foundation level upto floor two level with in all leads and lifts.	15.94 Cum			Per Cubic Metre	
4	Providing and laying cement concrete 1 : 2 : 4 (1Cement : 2 Sand : 4 graded stone aggregate 20mm nominal size)and curing complete excluding cost of form work and re-inforcement for reinforced concrete work in suspended floor roofs, landing and shelves and their support balconies, beams, girders, bressumers and cantilevers up to floor two level with in all leads and lifts as per the direction of Engineer-in-Charge.	1.2905 Cum			Per Cubic Metre	
5	Providing tor steel reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level with in all leads and lifts.	2176.30 Kg.			Per Kilogram	
6	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair finish 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 4mtr and removal of the same for insitu- reinforced concrete & plain concrete work in :-					
	a) Vertical surfaces such as walls (any thickness), partitions and the like including attached pillasters, buttresses,plinth and string courses and the like with in all leads and lifts.	228.65 Sqm.			Per Square Metre	
	b) Flat surfaces such as soffits of suspended floors , roofs,landings and the like up to 200 mm in thickness with in all leads and lifts.	11.12 Sqm.			Per Square Metre	
7	Fixing precast concrete man hole cover and frame conforming to IS- 12593-1988, part-I & IS- 12592-1991 , part-II for 500 mm diameter medium duty and to the entire satisfaction of Engineer-in-Charge with in all leads and lifts.	1.00 No.			Each	
8	Providing and placing in horizontal layers filtering media duly graded ,screened, cleaned and washed as specified:-					
	a) Top layer, fine sand (eff. Size 0.20mm to 0.40 and uniformity co-efficient 2.00 to 3.00) with in all leads and lifts.	7.68 Cum			Per Cubic Metre	
	b) Second layer, coarse sand, 3mm to 6mm with in all leads and lifts.	1.02 Cum			Per Cubic Metre	
	c) Third layer : Bajri 6mm to 20mm with in all leads and lifts.	1.02 Cum			Per Cubic Metre	
	d) Fourth layer : Bajri 20mm to 25mm with in all leads and lifts.	1.02 Cum			Per Cubic Metre	
	e) Bottom layer: Broken stone 50mm to 75mm with in all leads and lifts.	1.54 Cum			Per Cubic Metre	
9	Providing and placing 1st class standard bricks in filter bed in two layers so as to make cross drains as per direction of Engineer-in-Charge.	434.00 Nos.			Each	

10	Laying of G.I. pipes (light grade) tube fittings in trenches excluding earth work complete with all leads & lifts.						
	i) For Inlet & outlet & scour pipe for Storage Tank 25 mm dia	50.00	Rmt			Per Running Metre	
	ii) For Inlet & outlet & scour pipe for Sed. Tank dia 50 mm	12.00	Rmt			Per Running Metre	
	iii) For Inlet & outlet & scour pipe for Filter Bed dia 65 mm	50.00	Rmt			Per Running Metre	
11	Providing and fixing gun metal wheel valve with wheel with below mentioned nominal bore with in all leads and lifts.						
	i) 25 mm nominal bore	1.00	No.			Each	
	ii) 50 mm nominal bore	2.00	Nos.			Each	
12	Providing and fixing of C.I. sluice valve of pressure rating PN-1 50 mm dia of ISI marked conforming to IS: 14846 including welding, nuts & Bolts and gaskets etc. with in all leads and lifts and to the entire satisfaction of Engineer-in-Charge.	8.00	Nos.			Each	
13	Providing and laying cement concrete 1: 5 :10 (1 Cement : 5 Sand : 10 graded stone aggregate 40 mm nominal size) with 15% plum and curing complete excluding cost of form work in retaining wall/ breast walls, the size of plum shall be 150 mm to 300 mm as per HPPWD specification with in all leads and lifts.	12.60	Cum			Per Cubic Metre	
14	Stone filling behind retaining wall with in all leads and lifts.	2.63	Cum			Per Cubic Metre	
15	Manufacturing, Supplying, Fabrication and fixing of MS fabricated protection panel 750 x 750 mm made with MS angle 40 x 40 x4 mm for frame, MS angle 30 x 30 x 3 mm for cover cover MS flat 25 x 5 mm for fixing of sliding door bolt and MS sheet (12 gauge) 2.50 mm thick for protection of manhole cover of storage tank including cost of cutting and welding of MS angle, MS flat & MS sheet embedding in RCC slab by drilling holes in MS angle & in RCC slab, provision for providing and fixing sliding door bolt 300 x 16 mm, MS handle 100 mm, lock and applying the coat of red lead paint & paninting two coats with steel panit (Firoza Blue) complete job in all respect in all leads and lifts and to the entire satisfaction of the Engineer-in-Charge.	1.00	No.			Each	
16	Steel work in single sections including cutting, hoisting, fixing in position and applying a priming coat of red lead paint in R.S. joints, channels angles, tees and M.S. sheet etc. complete in all respect with in all leads and lifts and to the entire satisfaction of Engineer-in-Charge.	0.26	Qtl.			Per Quintal	
						Total:-	
Terms & Conditions :-							
1	Cement and steel shall be supplied by the department at IPH Divisional store Padhar @ Rs. 223/- per Bag and steel						
2	The work shall be completed with stipulated period .						
3	The concrete should be volume batched mechanically mixed and vibrated. Only mechanically crushed stone						
4	The work shall be strictly executed as per HPPWD / IPH specifications.						
5	The contractor shall be fully responsible for watch and ward of material at site of work and in case of any theft or						
6	The rates are inclusive of all carriage of materials in all leads and lifts to the site of work.						
7	Nothing shall be paid for rejected and defective work / materials.						
8	The crushed stone aggregate will be used for all cement concrete work and shall be of approved quarry.					Executive Engineer,	
9	1% labour cess will be deducted from the bill of contractor.					IPH Division, Padhar.	