

SCHEDULE OF QUANTITY

Name of Work : Providing LWSS to NC/PC Habitation of various CV Kalhani Sarachi Khanwachi Baggi Khudagi, DPF Funjar Kuklah in GP Kalhani Kuklah Sub-Tehsil Balichowki Distt Mandi HP.					Estimated cost :- Rs. 2337336/- only	
(S.H :- C/o Pump House Cum attendant room 1st stage, Intake Chamber Near Sedimentation Tank , Raw water Tank 65000 Ltr cap. Sed/Tank 31500 Ltr Cap. And Slow Sand Filter Bed 78.77 Sqm and Site development)					Earnest Money :- Rs. 47000 /- only	
					Time Limit :- Six Months	
Sr. No.	Description of items	Quantity	Rates		Unit	Amount
			In Fig.	In Words		
1	2	3	4	5	6	7
1	Cutting in earth work in all kinds of soil such as pick work,jumper work,blasting work,chiselling in hard/soft rocks where blasting is prohibited and dipsosal of excavated earth upto all leads and lifts complete as per the entire satisfaction of the Engineer-in-charge.	575.59 Cum			Per Cubic Metre.	
2	Excavation in foundation and trenches etc.upto all depths in all kinds of soil such as pick work,jumper work,blasting work,chiselling soft/hard rocks where blasting is prohibited in all leads and lifts including trimming and dressing of sides levelling of bed to correct excavation and then returning the stacked soil in trenches in 15cm.layers inclduing consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated soil as directed in all leads and lifts	239.42 Cum			Per Cubic Metre.	
3	Providing and laying cement concrete 1:3:6(1cement:3 sand: 6 graded stone aggregate 20 mm nominal size) and curing complete excluding the cost of form work in foundation and plinth in all leads & lifts.	50.74 Cum			Per Cubic Metre	
4	Providing and laying cement concrete 1:6:12(1cement:6sand:12 graded stone agg.40mm nominal size)and curing complete excluding cost of form work in foundation and plinth in all leads and lifts.	16.06 Cum			Per Cubic Metre	
5	Random rubble masonry /polygonal rubble masonry uncoursed brought to courses)with hard stone of approved quality in foundation and plinth including levelling up with cement concrete 1:6:12(1cement:6 sand:12 graded stone 20mm nominal size)in cement mortar 1:6(1cement:6 sand)in all leads and lifts.	25.95 Cum.			Per Cubic Metre	
6	Squarred rubble masonry coursed with hard stone of approved quality in foundation and plinth including racking out joints in cement mortar 1:4(1cement:4 sand)in all leads and lifts.	1.92 Cum			Per Cubic Metre.	
7	Boulder filling behind retaining walls in all leads and lifts.	7.15 Cum.			Per Cubic Metre.	
8	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair finish including centring, shuttering ,strutting and propping et c.with wooden battens and ballies height of propping and centring below supporting floor to ceiling in all heights and removal of the same for insitu reinforced concrete and plain concrete workin:-					
i	Beams,cantilevers ,girders and lintles sides and soffits of beams,beam,haunchings,cantilevers girders,bressumers and lintels not aexceeding 1 mtr.depth in all leads and lifts.	26.62 Sqm			Per Square meter	

ii	Sloping or battering surfaces including folded plates where inclination to horizontal plane does not exceeding 30 degree in all leads and lifts.	61.35	Sqm.			Per Square Metre
iii	Flat surfaces such as soffits of suspended floors,roofs,landings and the like floors etc.upto 200mm in thickness in all leads and lifts.	78.52	Sqm.			Per Square Metre
iv	Edges of slabs and breaks in floors and walls in all leads and lifts.	12.2	Rmt			Per Running Metre
v	Vertical surfaces such as walls(any thickness)partitons and the like including attached pillasters,buttresses plinth and string courses and the like Columns,pillars posts and struts in all leads and lifts	536.32	Sqm.			Per Square Metre.
9	Providing and laying cement concrete 1:2:4 (1cement:2 sand:4 graded stone aggegate 20mm nominal size and curing complete including cost of form work and reinforced concrete work in :-					
i	Suspended floors,roofs,landing and shelves and their support balconies,beams,girders,bressumers,and cantilvers upto floor two level in all leads and lifts.	15.69	Cum			Per Cubic Metre.
10	Providing tor steel reinforcement for RCC work including bending, binding and placing in position compete up to floor two level in all leads and lifts.	8435.80	Kg			Per Kg
11	Providing and laying cement concrete 1:11/2 :3 (M 20) (1cement: 1 1/2 sand: 3graded stone aggregate 20 mm nominal size)and curing complete excluding the cost of form work and reinforcement for reinforced concrete work in :-					
(i)	Foundation and plinth in all leads & lifts.	53.24	Cum			Per Cubic Metre
(ii)	Walls(any thickness but not less than 0.1 mtr thickness) attached pilasters, buttresses, plinth and string courses etc. from top of foundation level up to floor two level in all leadfs & lifts.	51.07	Cum			Per Cubic Metre
(iii)	Suspended floors,roofs,landing and shelves and their support balconies,beams,girders,bressumers,and cantilvers upto floor two level in all leads and lifts.	0.61	Cum			Per Cubic Metre.
12	Providing and placing of horizontal layer filter media duly graded, screened, washed and cleaned as specified by the Engineer- in- charge.					
i	<u>Top Layer</u> :-FineSand (Eff: Size 0.20mm to 0.40 and Uniformity-co-efficient 2.0 to 3.0). in all leads and lifts.	65.61	Cum.			Per Cubic Metre
ii	<u>2nd Layer</u> :-Coursed sand screened, cleaned, washed & graded 3 mm to 6 mm from approved quarry in all leads and lifts.	8.75	Cum.			Per Cubic Metre
iii	<u>3rd Layer</u> :-Bajri screaned, washed and graded 6 mm to 20 mm from approved quarry in all leads and lifts.	8.75	Cum.			Per Cubic Metre
iv	<u>4th Layer</u> :-Bajri screaned, washed & graded 20 mm to 25 mm from approved quarry in all leads and lifts.	8.75	Cum.			Per Cubic Metre
v	<u>Bottom Layer</u> :- Brocken stone screaned, washed and graded for 50 mm to 75 mm from approved quarry in all leads and lifts.	13.12	Cum.			Per Cubic Metre
13	Providing and laying dry bricks in Two Layers in all leads and lifts.	3740.00	Nos.			Per 1000 Nos.
14	Fixing of GI pipes 100mm dia for inlet,outlet and scour pipe in all leads and lifts.	50.00	Rmt.			Per Running Metre.

15	Providing and fixing Cast Iron Sluice valve of Leader/Kartar/Kirloskar make with flange table-5 . The sluice valve conforming to IS-780 having class PN-1. The dia of valves as mentioned below complete in all leads and lifts and to the entire satisfaction of the Engineer-in-charge.					
i	100mmdia	5.00	Nos			Each
16	Providing and fixing Steel fibre reinforcement concrete(SFRC)manhole cover and frame conforming to IS-12592(Part-I)1988 with latest ammendments 560mmdia (Medium duty)in all leads and lifts.	3.00	Nos			Each
17	Brick work using common burnt clay building bricks in superstructure in cement mortar 1:6(1cement:6 sand)in all leads and lifts 2nd class brick.	34.01	Cum			Per Cubic Metre.
18	Providing and fixing pressed steel doors frames manufactured from commercial mild steel sheet of 1.25mm thick including hines jump lock,jamb,beed and if required angle threshold of mild steel angle of section 50x25mm or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means,adjustable lugs with split and tails to each jamb including steel but things 2.5mm thick with guards lock strike plate and shock as specified and applying a coat of approved steel primer after pretreatment of the surface as directed by the Engineer-in-charge.Profile-A in all leads and lifts.	59.15	Rmt			Per Running Metre
19	Providing and fixing panelled glazed or panelled and glazed shutters for doors,windows and clerestory windows including black enamelled iron butt hinges with necessary screws 40mm thick 2nd class deodar wood in all leads and lifts.	15.55	Sqm.			Per Square Metre
20	Providing and fixing M.S.grills of required pattern in pressed steel frame of windows etc.with M.S.flats sqaere or round bar with round headed volts or by screws plain grills in all leads and lifts.	104.00	Kg			Per Kilogram
21	Cement concrete flooring 1:2:4(1cement:2 sand:4 graded stone agg. 20mm nominal size)laid in one layer finished with a floating coat of neat cement 40mm thick in all leads and lifts.	40.57	Sqm.			Per Square Metre
22	6mm thick plaster to ceiling in cement mortar 1:3(1cement:3 sand)in all leads and lifts.	74.32	Sqm.			Per Square Metre
23(i)	15mm thick cement plaster in single coat on rough side of brick/concrete/stone walls for interior plastering upto floor two level brick/concrete/stone walls for interior plastering upto floor two levels including arrises internal rounded angles chamfers and or rounded angles not exceeding 80mm in girth and finished even and smoothing cement mortar 1:6(1cement:6 sand)in all leads and lifts.	123.88	Sqm.			Per Square Metre
(ii)	15mm thick cement plaster in single coat on rough side of brick/concrete/stone walls for interior plastering upto floor two level brick/concrete/stone walls for interior plastering upto floor two levels including arrises internal rounded angles chamfers and or rounded angles not exceeding 80mm in girth and finished even and smoothing cement mortar 1:3(1cement:3 sand)in all leads and lifts.	4.80	Sqm.			Per Square Metre
24	Pointing on brick work with cement mortar 1:3(1cement:3 sand)Raised and cut pointing)in all leads and lifts.	97.97	Sqm			Per Square Metre
25	White washing with lime on undecorated wall surface two coats to give an even shade including thoroughly brooming ther surface to remove all dirt,dust and other foreign matters in all leads and lifts.	74.32	Sqm.			Per Square Metre

26	Distempering with dry distemper of approved brand and manufacatrure(two coats)and of required shasde on undecorated wall surface to given an evcen shasde over and including primer coat of whitening after thoroughly brushing the surface free from mortar droppings and other foreign matter including preparing the surface even and sand papered smooth in all leds and lifts.	123.88	Sqm.				Per Square Metre	
27	Applying priming coat on new wood and wood based surfaces after and including preparing the surface by throughly cleaning oil,grease ,dirt and other foreign matters,sand papering and knotting.Readymixed paint brushing wood primer pink in all leads and lifts.	34.99	Sqm.				Per Square Metre	
28	Painting two coats(excluding priming coat)on new wood and wood based surfaces with enamel paint to give an even shade including cleaning the surface of dirt,dust and other foreign matters sand papering and stopping with enamel paint other than white in all leads and lifts.	34.99	Sqm.				Per Square Metre	
29	Providing and fixing oxidized MS sliding door bolts with bolts and nuts screws etc.complete 300x16mm in all leads and lifts.	2.00	Nos				Each	
30	Providing and fixing M.S.Tower bolts(Barrel type)with screws etc.complete in all leads and lifts.							
i	250x10mm	4.00	Nos				Each	
ii	150x10mm.	26.00	Nos				Each	
31	Providing and fixing oxidized MS handles with necessary screws etc.complete in all leads and lifts.125mm.	20.00	Nos				Each	
32	Providing plinth protection 50mm thick in cement concrete 1:3:6(1cement:3 sand:6 sand graded stone agg.20mm nominal size)in all leads and lifts.	17.73	Sqm.				Per Square Metre	
33	Providing under layer for plinth protection of 75mm (Unconsolidated bed dry brick/stone agg.40mm nominal size well rammed and consolidated and grouted with fine sand including preparation of grtound in all leads and lifts.	23.64	Sqm.				Per Square Metre	
34	Precast terrazzo tiles 20mm thick with marble chips of specified size laid in floors treads of steps and landings on a bed of 25mm average thickness of cement mortar 1:6(1cement:6 sand)jointed with neat cement slurry mixed with pigment jto match the shade of tiles(Where ever required)including rubbing and polishing complete with tiles of flooring Dark shade in all leds and lifts.	7.20	Sqm				Per Square Metre	
35	Half brick masonry in common burnt clay building bricks superstructure in cement mortar 1:4(1cement:4 sand)in all leads and lifts 2nd class.	17.38	Sqm				Per Square Metre	
							Total:-	

Terms and Conditions.

- 1 The work should be executed as per PWD specifications and to the entire satisfaction of the Engineer-in-Charge.
- 2 Cement ,Steel and GI pipes will be issued by the Department at IPH Store Raghunath Ka Padhar Mandi @ Rs.196/-per bag and Steel @ Rs.4510/-per qtl.and GI pipes
- 3 The Contractor shall be responsible for watch and ward of material at site of work.
- 4 Crushed stone aggregate Will be used for concrete work.
- 5 Nothing shall be payable for rejected material/work
- 6 The use of Machanical Mixer and vibrator is mandatory for Cement Concrete work.
- 7 Sand should be used of approved quarry.
- 8 All GI fittings as required at site will be arranged by the contractor at his own cost.

**Executive Engineer,
IPH Division,Mandi.**