

**SCHEDULE OF QUANTITY**

NAME OF WORK: Rejuvenation of GWSS to (Fire Effectd) village Kaisheni in G.P.Tikkar Tehsil Rohru Distt., Shimla (H.P) (SH:C/o. Head work, C/o. 1No. Intake chamber as per standard design & drawing, C/o. 1No. RCC storage tank of 10000 ltr.cap., Providing sanitary protection round the civil structures & Trenching laying and jointing of GMS tube of various dia).

Estimated cost:- **686351** /-  
 Earnest money:- **13800** /-  
 Time limit:- 3Months.

S.No.	Sub-Head and item of work.	Quantity.	Rate in:-		Unit.	Amount.
			Figure:-	Words.		
1	2	3	4	5	6	7
1	Excavation in earth work and disposal of all excavated earth upto a lead of 20 mtrs. (twenty metres) and lift upto 1.50 mtrs. (one point fifty metres) disposing earth to be leveled and neatly dressed pick jumper work within all leads and lifts as directed by the Engineer-in-charge.	2.81 Cubic metres.			Per cubic metre.	/-
2	Excavation in foundation trenches etc. in earth work lift upto 1.50 mtrs. stacking the excavated soil not more than 3 mtr. Clear from the edge of excavation and then returning the stacked soil in 15cm. 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 all kinds of soil within all leads and lifts and as directed by the Engineer-in-charge.	2778.16 Cubic metres.			Per cubic meter.	/-
3	Providing and laying cement concrete work 1:3:6(1cement:3approved sand:6approved graded stone aggregate 20mm nominal size) & curing complete excluding cost of form work in foundation and plinth with in all leads and lifts.	4.83 cubic metres.			Per cubic meter.	/-
4	Providing form work with steel plate 3.15mm thick welded with angle iron frames 30x30x5mmso as give a fair finish i/c centring, shuttering, & centring below supporting floor to ceiling not exceeding 4mtrs. & removal of the same for in-situ reinforced concrete & plain concrete work in:					
a).	Vertical surface such as wall(any thickness) partitions and the like including attached pillasters, buttresses, plinth and string courses and the like within all leads and lifts.	48.71 Square meters			Per Square metre.	/-
b).	Flat surface such as soffits of suspended floor, roofs, landing and the like floor etc. upto 200mm in thickness within all leads and lifts.	8.74 Square meters			Per Square metre.	/-
c).	Edges of slab and breaks in floors and walls under 20cm. Wide within all leads and lifts.	18.47 Running meters			Per Running metre.	/-
5	Providing and laying cement concrete 1:1:2(1cement:1approved sand: 2approved graded stone agg. 20mm nominal size) & curing complete excluding cost of form work in foundation and plinth:					
i).	Foundation and plinth(bed) within all leads and lifts.	0.51 cubic metres.			Per cubic metre	/-

1	2	....2....	3	4	5	6	7
ii).	Walls including attached buttress, pillasters and their caps and string courses etc. upto floor to level within all leads and lifts.		5.08 cubic metres.			Per cubic metre	/-
6	Providing mild steel/tor steel for RCC work including bending binding and placing in position complete upto floor two level within all leads and lifts & as directed by the Engineer-in-charge.		460.02 Kgs.			Per Kg.	/-
7	Providing and laying cement concrete 1:1.5:3(1cement:1.5approved sand: 3approved graded stone agg. 40mm nominal size) & curing complete excluding cost of form work in foundation and plinth:						
i).	Suspended floor, roofs, landing and shelves and their supports, balconies beams, griders, bressumers and cantilivers upto floor two level.		0.82 cubic metres.			Per cubic metre	/-
8	Providing and laying cement concrete concrete work 1:2:4(1cement: 2sand:4graded stone agg. 20mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work in lintels, beams, girders bressumers and cantilevers upto floor two level within all leads and lifts and as directed by the Engineer-in-charge.		0.16 cubic metres.			Per cubic metre.	/-
9	R/R masonry/polygonal rubble masonry un-coursed quality in foundation and plinth including leveling by cement concrete 1:6:12(1cement:6Sand: 12graded stone at plinth in cement mortar 1:6(1cement:6sand) within all leads and lifts.		7.35 cubic metres.			Per cubic metre	/-
10	Construction of dry rubble masonry in breast and retaining wall within all leads and lifts and as directed by the Engineer-in-charge.		0.61 cubic metres.			Per cubic metre	/-
11	P/L (Pours)nofine concrete 1:4(1cement:4graded stone agg. 40mm and above and curing complete with weep hole or pours etc. within all leads and lifts and as directed by the Engineer-in-charge.		0.20 cubic metres.			Per cubic metre	/-
12	Providing and placing horizontal layers filtering media duly graded screened washed and cleaned as specification by the Engineer-in-charge.						
(a)	Bottam layer" Broken stone 50mm to 75mm....		0.56 cubic metres.			Per cubic metre.	/-
13	10mm cement plastering in single coat on fair side of brick/ concrete wall for internal plastering upto floor two level i/c arrises internal angles, chamfers and rounded angles not exceeding 80mm in girth and finished even and smooth in cement mortar 1:3(1cement:3sand)within all leads and lifts and as directed by the Engineer-in-charge.		27.95 square metres.			Per square metre.	/-

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1	2	3	4	5	6	7
14	White washing with lime on undecorated wall surfaces(two coats) to give an even shade i/c thoroughly brooming the surface to remove all dust dirt & other foreign matter	27.95			Per square metre.	/-
15	Providing and fixing Man Hole cover with frame of MS sheet and angle size 450x450mm(weight of Man-hole not less 35kg) including welding and cutting charges complete within all leads and lifts and as directed by the Engineer-in-charge.	0.70 Qtl.			Per Qtl.	/-
16	Supplying and fixing galvanised steel barbed wire(IS: 278-1962 type-I) heighting 9.30 kg. per 100 mtrs. Straing and fixing to any type of standard rail, straining the belts, including, securing with and providing of GMS wire stapler etc.(past, of wood cement steel paid for separately) within all all leads and lifts and as directed by the Engineer-in-charge.	720.63 Rmt.			Per/100 Rmt.	/-
17	Wire crates made of G.I. wire filled with boulders with square cut faces against the wire. (Boulder filling to be measured and paid for separately) GI wire 5mm thick corresponding to SWG-6(15cm.x 15cm. Mesh) within all leads and lifts and as directed by the Engineer-in-charge.	31.26 Square metres.			Per square metre.	/-
18	Wire crate of G.I. wire filles with boulders with square cut faces against the wire (Wire crates to be measured and paid for separately) within all leads and lifts and as directed by the Engineer-in-charge.	7.82 Cubic metres.			Per cubic metre.	/-
19	Boulder filling behind retaining wall & crate wall within all leads and lifts within all leads and lifts and as directed by the Engineer-in-charge.	2.02 cubic metres.			Per cubic metre.	/-
20	Laying trenches galvanized mild steel tube (Light class) with fitting (earth work in treanches to be measured and paid for separately) including all leads and lifts and as directed by the Engineer-in-charge.					
	15mm dia(Fifteen milimetres)nominal size.	2000.00 Running metres.			Per Running metre.	/-
	20mm dia(twenty milimetres)nominal size.	1210.00 Running metres.			Per Running metre.	/-
	25mm dia(twenty five milimetres)nominal size.	1250.00 Running metres.			Per Running metre.	/-
	32mm dia(thirty two milimetres)nominal size.	2800.00 Running metres.			Per Running metre.	/-

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1	2	....4....	3	4	5	6	7
	40mm dia(forty milimetres)nominal size.		800.00			Per	/-
			Running			Running	
			metres.			metre.	
	50mm dia(fifty milimetres)nominal size.		150.00			Per	/-
			Running			Running	
			metres.			metre.	
21	Dismantling of Galvanised mild steel (earth work in trenches to be paid for seperately) and stacking the same within all leads and lift and as directed by the Engineer-in-charge.		880.00			Per	/-
	40mm dia(forty milimetres)nominal size.		Running			Running	
			metres.			metre.	
22	Relaying jointing and testing in trenches Galvanised Mild steel tube of the following dia metres including smooth bending by necessary bends, or through pipe bending machine with necessary all pipe fitting such as Tees, Elbows, Union & Reducers etc. of ISI marked & testing for leakage complete within all leads and lifts as per entire satisfaction of Engineer-in-charge (Earth work in trenches to be measured and paid for separately).		616.00			Per	/-
	40mm dia(forty milimetres)nominal size.		Running			Running	
			metres.			metre.	
						Total:-	<u>          </u> <u>          </u> /-

#### TERMS AND CONDITIONS:

1. The work will be got done as per PWD specification applicable in H.P.
2. 10% security 1% income tax and 1% labour cess will be deducted from the bill of contractor.
3. Any theft or loss of material will be entire responsibility of contractor.
4. The rates quoted by the contractor will be considered inclusive of all taxes, octori including royalty etc.
5. The work will be completed within the stipulated period.
6. Cement will be issued to the contractor @ Rs. 290 per bag i/c storage charges from IPH store at Rohru.
7. Empty bag will be returned to the department other-wise recovery will be made @ Rs. 5/- per bag.
8. Steel will be issued to the contractor @ 50.00 per kg. i/c storage charges from IPH store at Rohru.
9. GMS tubes will be issued free of cost from IPH store at Rohru.
10. All fittings will be provided by the contractor at his own cost.
11. Wire will be issued free of cost by the IPH Department if available in case the wire not available in the store contractor can be provided at his own cost.
12. GST will be deducted as applicable as per Govt. Notification.

**SCHEDULE OF QUANTITY**

NAME OF WORK: R/M of various WSS under IPH Sub-Division, Tikkar in Tehsil Rohru Distt., Shimla (H.P)  
(SH: Repair of filter bed & sedimentation tank & replacement of filter media, C/o. 3Nos. Intake chamber, C/o. 3Nos. Storage tank of 10000 ltr.cap. Each for Melti, Kupri and Gavni).

Estimated cost:- **529601** /-  
Earnest money:- **10600** /-  
Time limit:- 3Months.

S.No.	Sub-Head and item of work.	Quantity.	Rate in:-		Unit.	Amount.
			Figure:-	Words.		
1	2	3	4	5	6	7
1	Excavation in foundation trenches etc. in earth work lift upto 1.50 mtrs. stacking the excavated soil not more than 3 mtr. Clear from the edge of excavation and then returning the stacked soil in 15cm. 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 all kinds of soil within all leads and lifts and as directed by the Engineer-in-charge.	54.01 Cubic metres.			Per cubic meter.	/-
2	Providing and laying cement concrete work 1:3:6(1cement:3approved sand:6approved graded stone aggregate 20mm nominal size) & curing complete excluding cost of form work in foundation and plinth with in all leads and lifts.	26.89 cubic metres.			Per cubic meter.	/-
3	Providing form work with steel plate 3.15mm thick welded with angle iron frames 30x30x5mmso as give a fair finish i/c centring, shuttering, & centring below supporting floor to ceiling not exceeding 4mtrs. & removal of the same for in-situ reinforced concrete & plain concrete work in:					
a).	Vertical surface such as wall(any thickness) partitions and the like including attached pillasters, buttresses, plinth and string courses and the like within all leads and lifts.	146.13 Square meters			Per Square metre.	/-
b).	Flat surface such as soffits of suspended floor, roofs, landing and the like floor etc. upto 200mm in thickness within all leads and lifts.	26.22 Square meters			Per Square metre.	/-
c).	Edges of slab and breaks in floors and walls under 20cm. Wide within all leads and lifts.	55.41 Running meters			Per Running metre.	/-
4	Providing and laying cement concrete 1:1:2(1cement:1approved sand: 2approved graded stone agg. 20mm nominal size) & curing complete excluding cost of form work in foundation and plinth:					
i).	Foundation and plinth(bed) within all leads and lifts.	1.53 cubic metres.			Per cubic metre	/-

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1	2	....2....	3	4	5	6	7
ii).	Walls including attached buttress, pillasters and their caps and string courses etc. upto floor to level within all leads and lifts.		15.24 cubic metres.			Per cubic metre	/-
5	Providing mild steel/tor steel for RCC work including bending binding and placing in position complete upto floor two level within all leads and lifts & as directed by the Engineer-in-charge.		1380.06 Kgs.			Per Kg.	/-
6	Providing and laying cement concrete 1:1.5:3(1cement:1.5approved sand: 3approved graded stone agg. 40mm nominal size) & curing complete excluding cost of form work in foundation and plinth:						
i).	Suspended floor, roofs, landing and shelves and their supports, balconies beams, griders, bressumers and cantilivers upto floor two level.		2.46 cubic metres.			Per cubic metre	/-
7	Providing and laying cement concrete concrete work 1:2:4(1cement: 2sand:4graded stone agg. 20mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work in lintels, beams, girders bressumers and cantilevers upto floor two level within all leads and lifts and as directed by the Engineer-in-charge.		4.28 cubic metres.			Per cubic metre.	/-
8	R/R masonry/polygonal rubble masonry un-coursed quality in foundation and plinth including leveling by cement concrete 1:6:12(1cement:6Sand: 12graded stone at plinth in cement mortar 1:6(1cement:6sand) within all leads and lifts.		22.05 cubic metres.			Per cubic metre	/-
9	Construction of dry rubble masonry in breast and retaining wall within all leads and lifts and as directed by the Engineer-in-charge.		1.83 cubic metres.			Per cubic metre	/-
10	P/L (Pours)nofine concrete 1:4(1cement:4graded stone agg. 40mm and above and curing complete with weep hole or pours etc. within all leads and lifts and as directed by the Engineer-in-charge.		0.60 cubic metres.			Per cubic metre	/-
11	10mm cement plastering in single coat on fair side of brick/ concrete wall for internal plastering upto floor two level i/c arrises internal angles, chamfers and rounded angles not exceeding 80mm in girth and finished even and smooth in cement mortar 1:3(1cement:3sand)within all leads and lifts and as directed by the Engineer-in-charge.		232.03 square metres.			Per square metre.	/-

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1	2	....3....	3	4	5	6	7
12	White washing with lime on undecorated wall surfaces(two coats) to give an even shade i/c thoroughly brooming the surface to remove all dust dirt & other foreign matter within all leads and lifts and as directed by the Engineer-in-charge.		232.03			Per square metre.	/-
13	Providing and fixing Man Hole cover with frame of MS sheet and angle size 450x450mm(weight of Man-hole not less 35kg) including welding and cutting charges complete within all leads and lifts and as directed by the Engineer-in-charge.		18.85 Qtl.			Per Qtl.	/-
14	Supplying and fixing galvanised steel barbed wire(IS: 278-1962 type-I) heighting 9.30 kg. per 100 mtrs. Straing and fixing to any type of standard rail, straining the belts, including, securing with and providing of GMS wire stapler etc.(past, of wood cement steel paid for separately) within all all leads and lifts and as directed by the Engineer-in-charge.		577.45 Rmt.			Per/100 Rmt.	/-
15	Applying cement slurry on RCC cement concrete work using 2.75kg of cement per sqm of vertical area before laying cement plaster and cleaning the plaster surface complete within all leads and lifts and as directed by the Engineer-in-charge.		148.18 Square meters			Per Square metre.	/-
16	Supplying and fixing wovenplains GI wire fencing of mesh 50mm X 50mm to any type of standard rails, straining bolts etc.including bolts etc. including provision of binding wire, staples etc. within all leads and lifts.		55.18 Square metres.			Per square metre.	/-
17	Lifting of filter media from existing filter tank and stacking the same within all leads and lifts and as directed by the Engineer-in-charge.						
a).	Top layer: Fine Sand(Eff. Size 0.20mm to 0.40mm and Uniformity-co-efficient 2.00 to 3.00)		22.82 cubic meters			Per cubic meter.	/-
b).	Second layer: 3mm to 6mm.		6.08 cubic meters			Per cubic meter.	/-
c).	Third layer: Bajri 6mm to 20mm		1.52 cubic meters			Per cubic meter.	/-
d).	Fourth layer: Bajri 20mm to 25mm		3.04 cubic meters			Per cubic meter.	/-
e).	Bottom layer: Broken stone 50mm to 75mm.		4.56 cubic meters			Per cubic meter.	/-

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1	2	....4....	3	4	5	6	7
18	Providing and placing horizontal layers filtering media duly graded screened washed and cleaned within all leads and lifts and as directed by the Engineer-in-charge.						
a).	Top layer: Fine Sand(Eff. Size 0.20mm to 0.40mm and Uniformity-co-efficient 2.00 to 3.00)	22.82 cubic meters				Per cubic meter.	/-
b).	Second layer: 3mm to 6mm.	6.08 cubic meters				Per cubic meter.	/-
c).	Third layer: Bajri 6mm to 20mm	1.22 cubic meters				Per cubic meter.	/-
d).	Fourth layer: Bajri 20mm to 25mm	2.12 cubic meters				Per cubic meter.	/-
e).	Bottom layer: Broken stone 50mm to 75mm.	2.60 cubic				Per cubic	/-
19	Placing of existing filter media to filter tank in horizontal layers within all leads and lifts and as directed by the Engineer-in-charge.						
a).	Third layer: Bajri 6mm to 20mm	0.30 cubic meters				Per cubic meter.	/-
b).	Fourth layer: Bajri 20mm to 25mm	0.92 cubic meters				Per cubic meter.	/-
c).	Bottom layer: Broken stone 50mm to 75mm.	3.64 cubic meters				Per cubic meter.	/-
						<b>Total:-</b>	<b>/-</b>

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**TERMS AND CONDITIONS:**

1. The work will be got done as per PWD specification applicable in H.P.
2. 10% security 1% income tax and 1% labour cess will be deducted from the bill of contractor.
3. Any theft or loss of material will be entire responsibility of contractor.
4. The rates quoted by the contractor will be considered inclusive of all taxes, octroi including royalty etc.
5. The work will be completed within the stipulated period.
6. Cement will be issued to the contractor @ Rs. 290 per bag i/c storage charges from IPH store at Rohru.
7. Empty bag will be returned to the department other-wise recovery will be made @ Rs. 5/- per bag.
8. Steel will be issued to the contractor @ 50.00 per kg. i/c storage charges from IPH store at Rohru.
9. GST will be deducted as applicable as per Govt. Notification.