

Job No.1

SCHEDULE OF QUANTITY

Estimate 614000/-

Name of work:- Improvement and Extension of distribution system under WSS Chowkath Bh;
Tehsil Jawalamukhi District Kangra (H.P)

Earnest 12280/-

Time limit:- Three months.

(Sub-Head:- C/O RCC O.H.S.R. 50000 litres capacity with 2.00 mtrs. staging height at Vill. Ghurana)

Sr No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Construction of reinforcement cement concrete circular over head water storage reservoir 50000 Ltr capacity with 10.00 Mtr staging height including barbed wire fencing site development, supply of design and	50000 Ltrs.			Per Ltr	

Total:-

TERMS AND CONDITIONS.

- 1 Security, sale tax & Income tax will be deducted from each running bill as per prevalent rules.
- 2 All the necessary documents such as Income tax clearance certificate, renewal of registration and sale tax Numbers should be readily available with the contractor at the time of purchasing of the tender document.
- 3 Two sets of structural drawing and design calculations on the bases of appropriate seismic forces for the area shall be supplied by the firm within three weeks after issue of the letter of intent for checking and approval by the competent authority.
- 4 After checking of the detailed structural drawings by the competent authority, the firm have to supply four sets of the fair drawings duly incorporated the correction for approval of the competent authority.
- 5 The size of the manhole cover will be as per IS specification.
- 6 Testing for water tightness stability of the Over head tank will be the contractors responsibility.
- 7 The water will be arranged by the contractor for the construction of the work and filling of the tank at his risk and cost.
- 8 All equipments such as machineries and T&P will be arranged by the contractor/firm.
- 9 The design of the job shall be supplied by the contractor/firm and it will be according to relevant IS specification/code.
- 10 The cement will be issued by the Department @ Rs.262/- per bag and tor steel @ Rs.5046/- per quintal from Divisional Store Dehra against proper indent.
- 11 G.I.pipe for inlet, outlet, scour and over flow and railing pipe will be issued by the department free of cost from Divisional store Dehra against proper indent.
- 12 Crushed /screened aggregate will be used for RCC work.
- 13 The rates shall be written both in words and figures.
- 14 The contractor should have completed at least three Nos. of similar type of job.
- 15 The final payment will be released after sucessful testing of the tank.
- 16 SBC test will be carried out by firm at its own cost.
- 17 1% cess on account of building and other construction workers as per Act-1996.
- 18 The tank should be completed in all respect including making connection testing, laying and jointing G.I.pipe of required dia as per site from existing pipe net work. Other wise 1% amount shall be withheld.

**Executive Engineer,
IPH Division, Dehra.**

Job No.2**SCHEDULE OF QUANTITY**

Name of work:- C/o Rain Water Harvesting Structure(Check Dam) on various Nallahs/Khads under Unders Jaswan Praggpur Constituency(Phase-II) in Distt. Kangra (HP)
Khad in Tehsil Jawalamukhi District Kangra (H.P)
(Sub-Head:- Preparation of detailed project report)

Estimated cost:-Rs.708750/-
Earnest money:-Rs.14175/-
Time limit:- Three months.

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Deployment of consultants for the preparation of detailed project report including project feasibility, Hydrologic studies related to soil investigation, structural stability and other related field work for the construction of	1.00 Job			Job	

Total:-**Scope of Work:- Data Calculation shall include following activities:-**

- 1 Detailed map of project depicting Topography.
 - a Topography.
 - b Geological features.
 - c Availability of adequate water for irrigate available area on the down stream of the structure (The water availability studies should be based on the available Hydrological data and capacity of the reservoir)
- 2 Preparation of L-section of all the Nallah.
- 3 Contour map of the project area.
- 4 The consultants may also keep in view the sites already identified by IPH Department in this respect.
- 5 Estimation and study of necessary topography, soil surveys and geological investigations required for determining the sites for the proposed structures.
- 6 Study and Estimation of the site load from the catchment and the life span of the structure. Suitable water shed management techniques shall be used to maximize the life span with a detailed contour map of the catchment area of the Project report.
- 7 The availability of water for the project shall be ascertained from the locally available source viz, khads/reservoirs by proposing suitable intake points/water harvesting structure.
- 8 The approval of the competent authority for drawal of water from the source proposed in the project shall be the entire responsibility of the consultants/bidder/tenderer.
- 9 The agronomic and climatological data for determining the post project cropping pattern will be adopted in consultation with the Agriculture and Horticulture Departments of Himachal Pradesh. Documentary proof in this regard shall be attached with offer.
- 10 The Planning/design of water harvesting structure/intake points/pumping machinery/pump house/gravity main/distribution mains shall be done and also got vetted from IIT Roorkee/PEC Chandigarh/NIT Hamirpur and the consultant's charges for vetting design.
- 11 The preliminary cost of the project shall be worked out by the consultants as per issued by CWC/Ministry of water resources Govt. of India.
 - a Detailed of vulnerable sites in the study area.
 - b Any other related data required from the study.
 - c Field visits :- The necessary field visit shall be conducted by the consultants for collection of the necessary data including carrying out of the survey work. Revenue data shall be provided by Department.
- 14 The Report shall be forwarded through the HP I&PH Department to be concerned technical authorities of NABARD/Govt. of India. The consultant shall undertake liaison of this technical report with the concerned authorities for obtaining speedy technical approval and all the meeting and discussions with NABARD/Govt. of India officials shall be attended by the consultants on behalf of IPH Deptt. and the report be got technically cleared/ approved from the competent authority.
- 15 The detailed project report should contain specification of each component of the work giving latest code reference etc. The contour map of the catchment as well as of the distribution system for irrigation land from the proposed structure including other details such as L-Section of Rising main, Gravity main, Location of pump house,

Position of outlets, Grades of distribution system and field.

Terms & Conditions

- 1 The work shall be executed strictly in accordance with IPH/HPPWD and BIS specifications & standards.
- 2 The Contour plan, L-section shall be prepared at suitable and readable scale.
- 3 The existing structures within the HFL, flood zone shall be marked.
- 4 The X-section of the Vulnerable sites upto the HFL shall be prepared.
- 5 The quantity shall be increase or decrease as per site condition.
- 6 Department's field staff shall accompany the consultant during Traversing & investigation.
- 7 Taxes and securities shall be deducted as per norms.
- 8 Tender shall be issued to any such contractors, those having the relevant experience in same kind of works.
- 9 Any kind of No- Objection Certificate, Mathematical model studies etc. (If required) & Flood Damage reports shall be provided by the department.
- 10 Payment Schedule:-
 - a) One Submission of Survey/Field data--- 20% of awarded amount.
 - b) On submission of Draft DPr for STAC approval-- 40% of awarded amount.
 - c) On STAC approval & submission of DPR--20% of awarded amount.
 - d) On Clearance from E-in-C office Shimal--10% of awarded amount.
 - e) On TAC from Competent authority-- 10% of awarded amount.

Executive Engineer,
IPH Division, Dehra.

Job No.3**SCHEDULE OF QUANTITY**

Estimated cost:-Rs.460637/-

Name of work:- Providing Sewerage system to Dehra Town in tehsil Dehra Distt. Kangra (HF Earnest money:-Rs. 9215/-

Time limit:- Three months.

(Sub-Head:- C/O Retaining wall to protect the Wet Well)

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Excavation in foundation, trenches etc. in earth work in all kinds of soil lift upto all height, stacking the excavated soil not more than 3 mtrs. clear from the edge of excavation & then returning the stacked soil in 15cm	39.93 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 including centring, shuttering, strutting and propping etc. with wooden battons and ballies,					
a)	Vertical surfaces such as wall (any thickness) partitions and the like including attached pilasters, buttresses, plinth & string courses etc. and the like.	164.50 Sqm			Per square meter.	
3	Providing and laying cement concrete 1:5:10(One cement : five Sand : ten graded stone aggregate 40mm nominal size) with 15% plums & curing complete excluding the cost of form work in Retaining/wall &	121.86 Cum			Per cubic meter.	
4	P/F 100 mm PVC pipe for weep hole with in all leads and lifts.	40.00 Rmt			Per Rmt	
5	Boulder filling in back side of retaining wall within all leads and lifts .	24.60 Cum.			Per cubic meter.	

Total:-**TERMS & CONDITIONS.**

- 1 The work shall be executed as per PWD/IPH specifications.
- 2 Security, sale tax & Income tax shall be deducted from the bill as per prevalent rules.
- 3 Nothing shall be paid for rejected work/material.
- 4 The cement and steel shall be issued by the Department @ Rs.267/- per bag from Divisional Store Dehra.
- 5 1% cess on account of building and other construction workers as per Act-1996.
- 6 The final payment made to the contractor after completion of work and to the entire satisfaction of Engineer-in-Charge.

**Executive Engineer,
IPH Division, Dehra.**

Job No.4

Name of work:- Aug. & Extn. Of LWSs Jambal Behi and LWSS Bari Sanda Phase 1st & 2nd in tehsil Jaswan Distt. Kangra (HP)
 (Sub-Head:- C/O storage tank of 30000 litres capacity at Vill. Sanda)

SCHEDULE OF QUANTITY

Estimated cost:- 353050/-

Earnest money:- 7070/-

Time limit:- Three months.

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Excavation in foundation, trenches etc. in earth work in all kinds of soil lift upto all height, stacking the excavated soil not more then 3 mtrs. clear from the edge of excavation & then returning the stacked soil in 15cm	38.94 Cum			Per cubic meter.	
2	Providing and laying cement concrete 1:3:6(One cement :three sand : six graded stone aggregate 40mm nominal size and curing complete excluding the cost of centering & shuttering in foundation and plinth	4.41 Cum			Per cubic meter.	
3	Providing and laying cement concrete 1:1.5:3 (One cement:one & half sand:three graded stone aggregate 20mm nominal size) and curing					
a)	Foundation, footing bases of columns and the like and mass concrete within all leads and lifts .	5.07 Cum			Per cubic meter.	
b)	Wall (any thickness but not less than 0.10 mtrs.thickness) attached pillasters, buttresses plinth & string courses etc. from top of foundation level upto floor two level within all leads and lifts.	9.90 Cum			Per cubic meter.	
c)	Suspended floor, roofs, landing & shelves & their support balconies, beams, girder, bressumers & cantilever upto floor level.	1.820 Cum			Per cubic meter.	
d)	Arches upto floor two level.	2.600 Cum			Per cubic meter.	
4	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 etc. with wooden battons and ballies,					
b)	Vertical surface such as walls (any thickness) partitions and the like including attached pillasters,buttresses, plinth and string courses and the like within all leads and lifts.	98.96 Sqm			Per square meter.	

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
5	Providing form work of ordinary timber plankings, so as to give a rough finish including centring, shuttering, strutting and propping etc. with wooden battens and ballies height of propping and centring below					
a)	Arches upto 6.00 mtr. Span.	17.37 Sqm			Per square	
6	Providing in RCC work smooth finishing of the exposed surface with cement motor 1:3(One cement:Three sand) within all leads and lifts.	98.96 Sqm			Per square meter.	
7	Providing tor steel reinforcement for RCC work including bending, binding and placing in position complete upto floor two level within all leads and	2321.53 Kgs.			Per Kgs.	
8	Steel work welded in built up sections, trusses & framed work including cutting, hoisting and fixing in position and applying a priming coat of red paint:- In grating, framed, guards bars, ladders,railing, brackets & similar	102.24 Kgs.			Per Kg.	
9	Laying in trenches GMS pipe (L/M class) tube fitting (earth work in trenches to be measured and paid for separately) complete within all					
	i) 80mm dia	6.00 Rmt.			Per Rmt	
	ii) 80mm dia	12.00 Rmt.			Per Rmt	
10	Providing & fixing of Kirloskar/Leader make Cast Iron sluice valve following dia Class-PN-1.0 with M.S.flange table-5 conforming to IS:780-1984 latest with uptodate ammendments having seat pressure					
	i) 80mm dia	1.00 No.			Per Rmt	
	ii) 80mm dia	2.00 Nos.			Per Rmt	

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
11	Constructing chamber for sluice valve, with C.I.surface box 100mm top dia,160mm bottom dia & 180mm deep(inside) with chained lid RCC top 1:2:4 mix (One cement : Two sand :Four graded stone aggregate 20mm	2.00 Nos.			Each	
12	Providing and fixing of precast concrete SFRC manhole cover with internal frame & cover system conforming to IS specifications code-12592-Part-I & II with latest amendments having size of 560mm internal	2.00 Nos.			Each	
13	Finishing wall with water proofing cement paint of approved brand & manufacture and of required shade on undecorated wall surface (two coats) to give an even shade after throughly brushing the surface to	98.96 Sqm			Per squarem eter.	

Total:-

TERMS & CONDITIONS.

- 1 The work shall be executed as per PWD/IPH specifications.
- 2 Security, sale tax & Income tax shall be deducted from the bill as per prevalent rules.
- 3 Nothing shall be paid for rejected work/material.
- 4 The cement and steel shall be issued by the Department @ Rs.267/- per bag and Steel @ Rs.5046/ per quintal from Divisional Store Dehra.
- 5 The G.I.pipe will be issued free of cost from Divisional Store Dehra.
- 6 1% cess on account of building and other construction workers as per Act-1996.
- 7 The final payment made to the contractor after completion of work and to the entire satisfaction of Engineer-in-Charge.

**Executive Engineer,
IPH Division, Dehra.**

Job No.5**DRAFT SCHEDULE OF QUANTITY**

Name of v Improvement of distribution system of various water supply schemes under Jaswan Pra constituency (**Under Project**) in Tehsil Dehra District Kangra (H.P)
(Sub-Head: Laying, jointing & testing of G.I.pipe of various dia from Node No.41-47, 41-48,41-52, 41-50, 50-51 & 43-45 for distribution system of **WSS Rakkar Kharoti**)

Estimated cost:-Rs. 346415/-

Earnest money:-Rs. 6930/-

Time limit:- Three months

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Excavation in foundation, trenches etc. in earth work in all kinds of soil lift upto all height, stacking the excavated soil not more then 3 mtrs. clear from the edge of excavation & then returning the stacked soil in 15cm					
	i) Pick jumper	1220.63 Cum			Per cubic meter.	
2	Laying, jointing & testing in trenches Galvanised mild steel tube (Light class) of following diameter including tube fittings complete (earth work to be measured and paid for separately) including testing of joints,within all					
i)	25mm dia.	2715.00 Rmt.			Per Rmt.	
ii)	32mm dia.	1160.00 Rmt.			Per Rmt.	

Total:-**TERMS & CONDITIONS.**

- 1 The work shall be executed as per PWD/IPH specifications.
- 2 Security, sale tax & Income tax shall be deducted from the bill as per prevalent rules.
- 3 Nothing shall be paid for rejected work/material.
- 4 1% cess on account of building and other construction workers as per Act-1996.
- 5 The G.I.pipe will be issued by the Deptt. free of cost against indent from Divisional Store Dehra & all other fitting as required at site will be provided by the contractor in his quoted rate.
- 6 The final payment made to the contractor after completion of work and to the entire satisfaction of Engineer-in-Charge.
- 6 **Note:-** Dismantled pipe should be taken in the MAS register

**Executive Engineer,
IPH Division, Dehra.**

Job No.6**SCHEDULE OF QUANTITY**

Estimated cost:- 941076/-

Name of work:- Providing separate LWSS to Vill. Ghamruoor, Barnali & Bhoala in tehsil
Jaswan Distt. Kangra (HP)

Earnest money:- 18820/-

Time limit:- Three months.

(Sub-Head:- C/O RCC collection tank 35000 Ltr Cap. Node No. 2, RCC main storage tank 138000 L
Node No.3,C/o RCC Sector tank 33000 Ltr. Cap. Node No. 4, & RCC sector tank 15000 Ltr. Cap Node No 4-1)

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Excavation in foundation, trenches etc. in earth work in all kinds of soil lift upto all height, stacking the excavated soil not more then 3 mtrs. clear from the edge of excavation & then returning the stacked soil in 15cm	137.87 Cum			Per cubic meter.	
2	Providing and laying cement concrete 1:3:6(One cement :three sand : six graded stone aggregate 40mm nominal size and curing complete excluding the cost of centering & shuttering in foundation and plinth	10.32 Cum			Per cubic meter.	
3	Providing and laying cement concrete 1:1.5:3 (One cement:one & half sand:three graded stone aggregate 20mm nominal size) and curing					
a)	Foundation, footing bases of columns and the like and mass concrete within all leads and lifts .	18.16 Cum			Per cubic meter.	
b)	Wall (any thickness but not less than 0.10 mtrs.thickness) attached pillasters, buttresses plinth & string courses etc. from top of foundation level upto floor two level within all leads and lifts.	39.29 Cum			Per cubic meter.	
c)	Suspended floor, roofs, landing & shelves & their support balconies, beams, girder, bressumers & cantilever upto floor level.	5.640 Cum			Per cubic meter.	
d)	Arches upto floor two level.	4.530 Cum			Per cubic meter.	
4	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 etc. with wooden battons and ballies,					
a)	Flat surfaces such as soffits of suspended floor, roofs, landings and the like floor etc. upto 20mm thickness within all leads and lifts.	31.06 Sqm			Per square meter.	

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
b)	Vertical surface such as walls (any thickness) partitions and the like including attached pillasters, buttresses, plinth and string courses and the like within all leads and lifts.	392.82 Sqm			Per square meter.	
6	Providing in RCC work smooth finishing of the exposed surface with cement mortar 1:3 (One cement: Three sand) within all leads and lifts.	392.82 Sqm			Per square meter.	
7	Providing for steel reinforcement for RCC work including bending, binding and placing in position complete upto floor two level within all leads and	5034.19 Kgs.			Per Kgs.	
8	Steel work welded in built up sections, trusses & framed work including cutting, hoisting and fixing in position and applying a priming coat of red paint:- In grating, framed, guards bars, ladders, railing, brackets & similar	210.76 Kgs.			Per Kg.	
9	Laying in trenches GMS pipe (L/M class) tube fitting (earth work in trenches to be measured and paid for separately) complete within all					
	i) 100mm dia	24.00 Rmt.			Per Rmt	
	ii) 100mm dia	60.00 Rmt.			Per Rmt	
10	Providing & fixing of Kirloskar/Leader make Cast Iron sluice valve following dia Class-PN-1.0 with M.S. flange table-5 conforming to IS:780-1984 latest with upto date amendments having seat pressure					
	i) 100mm dia	4.00 Nos.			Per Rmt	
	ii) 100mm dia	8.00 Nos.			Per Rmt	
11	Constructing chamber for sluice valve, with C.I. surface box 100mm top dia, 160mm bottom dia & 180mm deep (inside) with chained lid RCC top 1:2:4 mix (One cement : Two sand : Four graded stone aggregate 20mm	8.00 Nos.			Each	

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
12	Providing and fixing of precast concrete SFRC manhole cover with internal frame & cover system conforming to IS specifications code-12592-Part-I & II with latest amendments having size of 560mm internal	8.00 Nos.			Each	

Total:-

TERMS & CONDITIONS.

- 1 The work shall be executed as per PWD/IPH specifications.
- 2 Security, sale tax & Income tax shall be deducted from the bill as per prevalent rules.
- 3 Nothing shall be paid for rejected work/material.
- 4 The cement and steel shall be issued by the Department @ Rs.267/- per bag and Steel @ Rs.5046/ per quintal from Divisional Store Dehra.
- 5 The G.I.pipe will be issued free of cost from Divisional Store Dehra.
- 6 1% cess on account of building and other construction workers as per Act-1996.
- 7 The final payment made to the contractor after completion of work and to the entire satisfaction of Engineer-in-Charge.

**Executive Engineer,
IPH Division, Dehra.**

Job No.7**SCHEDULE OF QUANTITY**

Estimated cost:-Rs.335578/-

Name of work:- Providing Irrigation facility to Vill. Jalandhar Lahar by C/o Check dam on Nak Earnest money:-Rs. 6715/-
in Vill. Maharera in tehsil Dehra Distt. Kangra(HP)
(Sub-Head:- C/O Retaining wall to protect the Pump house)

Time limit:- Three months.

Sr. No.	Description of Items	Qty.	Rate in Rs.		Unit	Amount
			Figures/	Words		
1	Excavation in foundation, trenches etc. in earth work in all kinds of soil lift upto all height, stacking the excavated soil not more then 3 mtrs. clear from the edge of excavation & then returning the stacked soil in 15cm	29.28 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 including centring, shuttering, strutting and propping etc. with wooden battons and ballies,					
a)	Vertical surfaces such as wall (any thickness) partitions and the like including attached pilasters, buttresses, plinth & string courses etc.and the like.	124.50 Sqm			Per square meter.	
3	Providing and laying cement concrete 1:5:10(One cement : five Sand : ten graded stone aggregate 40mm moninal size) with 15% plums & curing complete excluding the cost of form work in Retaining/wall &	89.36 Cum			Per cubic meter.	
4	P/F 100 mm PVC pipe for weep hole with in all leads and lifts.	40.00 Rmt			Per Rmt	
5	Boulder filling in back side of retaining wall within all leads and lifts .	18.04 Cum.			Per cubic meter.	

Total:-**TERMS & CONDITIONS.**

- 1 The work shall be executed as per PWD/IPH specifications.
- 2 Security, sale tax & Income tax shall be deducted from the bill as per prevalent rules.
- 3 Nothing shall be paid for rejected work/material.
- 4 The cement and steel shall be issued by the Department @ Rs.267/- per bag from Divisional Store Dehra.
- 5 1% cess on account of building and other construction workers as per Act-1996.
- 6 The final payment made to the contractor after completion of work and to the entire satisfaction of Engineer-in-Charge.

**Executive Engineer,
IPH Division, Dehra.**