

SCHEDULE OF QUANTITY

NAME OF Work:- Providing sewerage system to Parwanoo Town Tehsil Kasauli Distt. Solan HP
(SH:- Survey, investigation including permission for connecting STP-2 with NH-22).

Estimated cost:- 392000/-

Earnest money:- 7850/-

Time:- One Month

Sr. No.	Description of item	Qty	Rate	Unit.	Amount
1	Survey & Investigation:- Investigation for connecting STP-2 with NH-22 through road including permission for through face from NHAI complete along the road alignment and pipe alignment with highway. The contractor will provide soft copy and hard copy 6 sets of alignment and detailed cost at analysed rates.	1		Job	

Total:-

TERMS & CONDITIONS:-

- 1 Tentative map of the project depicting availability of area to irrigate with adequate water/discharge, Crop water requirement.
- 2 Preparation of L-Section of all the Rising Mains.
- 3 Map of the project area and marking of villlage boundary
- 4 The consultant may also keep in view the sites already identified by the IPH Department.
- 5 The agronomic and climatological data for determing the post-project cropping pattern will be adopted in consultation with the Agriculture and Horticulture Departments.
- 6 Field Visit:- The necessary field visit shall be conducted by the Consultant for collecting the data including carrying out of the survey work.
- 7 The Working estimate with workable drawings should contain specification of each component of the work giving latest code reference etc. from the proposed structure including other details such as L-Section of Rising Main, location of pump house, grades of distribution system etc.
- 8 Security, GST, income tax shall be deducted from each bill as applicable.
- 9 SUBMISSION OF REPORT:-
 - a) The consultant shall be required to furnish the reports in 4 copies of each tube well & one soft copy within stipulated time period.
 - b) Payment Schedule:-
 - i) On Submission of Survey & Proposal (02 copies) = 30% of the Total awarded amount.
 - ii) On submission of DPR (4 copies) = 50% of the Total awarded amount
 - iii) On clearance from Zonal Office, if applicable = 20% of the total awarded amount.
- 10 The tenders of enlisted HPIPH Contractors having relevant expeience in the similar works shall be accepted.

Executive Engineer
J.S. Division Solan

SCHEDULE OF QUANTITY

Estimated Cost Rs:- 4,23,750/-

Earnest Money Rs:- 8475/-

Time Period :- One Month

Name of Work:- Stock Storage. (SH:-Unloading and loading of material from/ into Wagon/ Non tipping trucks).

<u>Sr. No.</u>	<u>Description of item</u>	<u>Qty</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
1	Unloading of cement from non tipping trucks and stacking inside departmentalised store complete including all leads, lifts and carriage of material and as per the direction and entire satisfaction of Engineer-in-charge.(50 kg) complete in all respects.	12000		Each	
2	Loading of cement into Wagon/Non tipping trucks/departmentalised truck and stacking complete including all leads lifts and carriage of material and entire satisfaction of Engineer-in-charge of the work.(50 kg) complete in all respects.	500		Each	
3	Unloading of G.I, C.I., CC & RCC pipes upto 500 mm dia and their specials like short pieces, tee, bend, elbows, and other fittings, steel and other store materials from non tipping truck and stacking inside the store complete including all leads lifts and carriage of material and to the entire satisfaction of Engineer-in-charge complete in all respects.	400		MT	
4	Loading of G.I, C.I, CC and RCC pipe upto 500 mm dia and their specials like short pieces, stacks and other store materials into departt. Truck, nontipping truck/Wagoan and stacking complete including all leads lifts and carriage complete and to the entire satisfaction of Engineer-in-charge of the work.complete in all respects.	300		MT	

Total:-

TERMS AND CONDITIONS:-

- 1 The undersigned reserves the right to accept or reject any or all the tenders without assigning any reason thereof
- 2 The work will be got executed as per IPH/PWD specification.
- 3 GST,Security will be deducted from the contractor's bills as applicable.
- 4 Quoted rates should include all taxes and carriage charges etc.
- 5 The recoveries will be imposed for destroyed materials at store issue rates+10% surcharge on store issue rate from the bill of
- 6 No payment will be made for rejected/destroyed materials loading and unloading.

**Executive Engineer
J.S. Division Solan**

SCHEDULE OF QUANTITY

Name of work:- R/M of LWSS to Solan Town from Ashwani Khad. (SH:- Deployment of labour for upkeep of water treatment plant at LWSS Ashwani Khad for six month). (Job No.1).

Estimated Cost Rs:- 1,26,720/-
Earnest Money Rs:- 2550/-
Time Period :- Six month.

<u>Sr. No.</u>	<u>Description of item</u>	<u>Qty</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
1	Deployment of labour for upkeep of water treatment plant at LWSS Ashwani Khad. Beldar (2x180 days=360 days)	360		Days	
					Total Rs.:-

TERMS AND CONDITIONS:-

- 1 The undersigned reserves the right to accept or reject any or all the tenders without assigning any reason thereof.
- 2 The work will be got executed as per IPH specifications.
- 3 Security, GST & other statutory deduction shall be made as applicable.
- 4 Work shall be started within 15 days after the date of award and completed in stipulated period.

Executive Engineer
J.S. Division Solan

SCHEDULE OF QUANTITY

Name of work:- A/R & M/O Drinking water supply to Solan Town. (SH:- O&M of pumping machinery of main pump house for five month job).

Estimated Cost Rs:- 4,68,660/-
Earnest Money Rs:- 9400/-
Time Period :- Five months

<u>Sr. No</u>	<u>Description of item</u>	<u>Qty</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
1	Operation & maintenance (except for major repair of pumps, motor) of 6 No. pump motor sets (4 Nos. working + 2 Nos. stand by) 1050 KW, 3000 RPM HT motors of BHEL make, 6 Nos. oil lubricating machines and 6 Nos. centrifugal pumps (4 working +2 stand by) of KSB make 1100 mtrs head, 55.60 LPS discharge per pump installed at pump house at Gaura by deployment of adequate staff i.e. for a period of 6 month. The firm shall provide general consumable material like florescent tubes, indicating lamps, cleaning materials, gasket of required size and pressure rating lubricating materials i.e. Servo oil - 46 grease and spare parts etc. The offer shall be subjected to all term & conditions given in the DNIT. the firm shall operate, run & maintained the all equipments strictly as per O&M manual of the manufactures.	5		Per month Job	

Total Rs.:-

TERMS AND CONDITIONS:-

- 1 The contractor/ Firm /his employees to be deployed should have a valid Electrical license for handling of HT switch gear and
- 2 If the performance of the firm is not satisfactory and the pumping station remain shut down for a period of more than 24 hours due to failure of timely repair to pumping machinery, the work may be rescinded and the same shall be got carried out on the risk and cost of the firm.
- 3 The firm shall deploy adequate staff, i.e pump operator, Helper, Beldar, Chowkidar, Supervisor, Electrician, Electrical and Mechanical Engineer and the visit of expert Electrical and Mechanical Engineer of original manufacturers /contractors own for Periodic maintenance/ inspection of machinery/ panels once in a month.
- 4 The contractor/ firm shall be responsible for workmen compensation of workers deputed at site of work for any casualty and he should abide the labour laws of the state and shall be solely responsible for its violation.
- 5 The T&P shall be provided by the department for O&M purposes.
- 6 Energy charges will be borne by the department.
- 7 No escalation will be allowed under any circumstance.
- 8 The contractor will be responsible for restoration of damaged pumping machinery and its allied accessories and panel board etc. if damage is due to negligence on the part of staff deputed by the contractor for such work.

- 9 The contractor shall ensure daily pumping of 16 hours. In case of less hours of pumping, the number of days in a month for payment shall be counted by dividing total hours of pumping in that month by 16 hours and payment shall be made accordingly.
- 10 The contractor/ firm shall make all necessary arrangements for repairs of pumps, motors, and other allied equipments etc at site or at manufactures work, or as directed by the Engineer -in-charge.
- 11 If the pumping machinery is kept idle for undue reasons without the permission of the Engineer-in-charge a compensation of @ 1.5% of monthly charges shall be levied per day to recover the liquidated damages. This will be however subject to FORCE MAJEURE.
- 12 The O & M staff of contractor/ firm shall have to maintain log books of pumping machinery on Performa provided by
- 13 The contractor/ firm shall provide general consumable i.e servo System 46 for forced oil lubrication, grease, florescent tube, indicating lamp,
- 14 The contractor/ Firm shall be responsible for proper housekeeping of plant during all time.
- 15 The contractor shall have to arrange himself adequate tools and plants required for operation and maintenance of
- 16 The contractor/ firm shall be responsible for undertaking of all kinds of minor repairs, if any to electrical and mechanical equipment including preventive maintenance. The contractor shall engage experienced vendor for maintenance of equipments.
- 17 The contractor/ firm will submit the weekly report on performance of machinery on the performa supplied by the
- 18 The firm will not be allowed to sublet the work after award of work, failing which the agreement shall be terminated immediately and security
- 19 The contractor/ firm will engage professionals who have requisite qualification/sufficient experience in O&M of pumping machinery and should be able to understand the advice of the department; the firm will submit name and qualification of such professionals so deployed to the office of the Engineer -in-charge before start of work at site.
- 20 The contractor/ firm should have experience of operating running & maintenance of pumping machinery on 11 KV HT power supply.
- 21 The scope of work can be increased subject to the satisfactory performance of the work.
- 22 The firm/ contractor must be registered with EPF department and must provide the registration No of the employees engaged to the
- 23 Repair work conducted at site of work should be recorded in the log book date wise and the dismantled material should be recorded in the dismantled item register issued by the department.
- 24 The visit of the Electrical / Mechanical Engineer be recorded in the log book with remarks of Engineers and should be attached
- 25 The contractor will be responsible for painting of all equipments annually installed in pump house and common header inside and
- 26 The contract can be terminated by giving 3 months notice by the department, if the firm is unable to operate and maintain plant as per satisfaction of the Engineer-in-charge, a panel fee @ 2 % of amount put to tender shall be deducted from security of contractor as inconvenience charge and the plant shall be operated and maintained at the risk and cost of the firm as per condition No. 5

- 27 The contractor/ firm shall ensure that at the time of handing over the plant all mechanical and electrical machinery/ equipment are in working order and fit condition.
- 28 Release of security shall be subject to satisfactory handing over the pumping machinery back to the department.
- 29 The contractor/ Firm shall organize regular trainings and workshops for his staff in consultation with the IPH department so that they are competent to trouble shoot any system failure.
- 30 Performance bond in shape of an unconditional bank guarantee of a nationalized bank amounting to 5% of the awarded amount shall be executed by the firm/contractor in favour of Executive Engineer concerned within 15 days of issue of award letter i.e. before entering in to the agreement. The department shall be at liberty to adjust appropriate amount or forfeit the full amount in case the above mentioned conditions are not adhered to by the contractor /firm.
- 31 Spare parts used for repair shall be of the original make and manufacture and test certificate shall be supplied by the firm.
- 32 The contractor/ firm will be eligible only if they have completed/ executed/ maintained similar nature of the work before quoting the rates. Necessary certificate in this regard duly signed by concerned Executive Engineer is mandatory.

Executive Engineer
J.S. Division Solan

SCHEDULE OF QUANTITY

Name of work:- Providing LWSS Samot in GP Jadhana Tehsil Kandaghat Distt. Solan HP. (SH:- C/O RCC sump well 10000 ltrs. capacity).

Estimated Cost Rs:- 1,55,041/-
Earnest Money Rs:- 3100/-
Time Period :- Six month.

<u>Sr. No.</u>	<u>Description of item</u>	<u>Qty</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
1	Excavation in foundation and trenches in all type of soil such as pickwork jumper work blasting soft & hard rock and through conglomeraterock upto all leads & lifts stacking the excavated soil not more than 3mtrs clear from the edge of excavation and then returning the stacked soil in 15cm layers when required into plinths sides of foundations etc. consolidating each deposited layers by ramming and watering and then disposing of all surplus excavated earth in all leads and lifts & as per directed of the Engineer in-charge.	6.38		Cum	
2	Providing and laying cement concrete 1:4:8 (1cement:4approved sand:8app.graded stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth and as per the direction of Engineer-in-charge including entire carriage of material upto all leads and lifts.	0.71		Cum	
3	Providing and laying cement concrete 1:1.5:3(1cement:1.5approved sand:3approved graded stone aggregate 20mm nominal size)and curing complete excluding cost of form work and reinforcement for reinforced concrete work in:-				
(a)	Wall (any thickness but not less than 0.1m thickness) attached pillasters,buttresses plinth and string courses etc. from top to foundation level upto floor two level and as per the direction of Engineer-in-charge.including entire carriage of material upto all leads and lifts.	4.25		Cum	
(b)	Foundation and plinth including entire carriage of material upto all leads and lifts..	1.41		Cum	
4	Providing & laying cement concrete 1:2:4 (1 cement :2 sand :4 graded stone aggregate 20mm nominal size and curing omplete excluding cost of form work & reinforcement for RCC work in suspended floors, roofs landings shelve & their supports balconies girders bresumers and cantilevers upto floor two level i/c entire carriage of material upto all leads & lifts.	0.67		Cum	
5	Providing tor steel reinforcement for RCC work including bending,winding and placing in position complete upto floor two level.as per the direction of Engineer-in-chief including entire carriage of material upto all leads and lifts.	626		Kg	
6	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 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 and plain concrete work in:-				

i)	Vertical surface such as wall of (any thickness) partition and the like including attached pillaster buttresses plinth and string courses and like and as per the direction of Engineer-in-charge .including entire carriage of material upto all leads and lifts.	42.48	Sqm
ii)	Flat surfaces such as soffits suspended floors roofs, landings and the like floors etc upto 200mm in thickness.and as per the direction of Engineer-in-charge.	3.97	Sqm
iii)	Edges of slabs & breaks in floors & walls under 20cm wide.	8.5	Rmt.
7	Providing & fixing man hole cover with frame 500mm dia (medium duty) total weight of frame and cover should not be less than 116 Kg. (weight of frame 58 kg and weight of cover 58 kg).	1	Each
8	Laying of G.I. pipe (light grade), tube fittings in trenches including earth work complete in all respect.		
	Inlet pipe (50mm dia)	5	Rmt.
	Outlet pipe (50mm dia)	5	Rmt.
	Scour pipe (50mm dia)	5	Rmt.
9	Providing 200mm wide cast iron rungs with chequered or ribbed non slip surface including fixing in manholes with 200x200x100mm cement concrete 1:3:6(1cement:3sand:6graded stone aggregate 20mm nominal size) including entire carriage of material upto all leads and lifts.	10	Each
10	P/F C.I. ventilating pipe 100mm dia. 1 mtr. high with C.I. cowl fixed at top.	1	Each
11	Constructing chamber for sluice valve, with CI surface box 100 mm top dia.,160 mm bottomdia. & 180 mm deep(inside) with chained lid RCC top 1:2:4 mix (1 cement :2 sand :4 graded stone aggregate 20 mm nominal size) 100 mm thick foundation concrete 1:5:10 mix (1cement : 5 sand : 10 graded stone aggregate 40 mm nominal size) & inside plastering with cement mortar 1 :3 (1 cement : 3 sand) finished with a floating coat of neat cement i/c curing complete. 600 x 600 x 750 mm inside size With 150 mm thick walls of RCC 1:2 :4 (1 cement :2 sand :4 graded stone aggregate 20 mm nominal size) complete with form work & reinforcement with 6 mm bars at not exceeding 150 mm centres both ways.	1	Each

Total Rs.:-

TERMS AND CONDITIONS

- 1 The undersigned reserves the right to accept or reject any or all the tenders without assigning any reason thereof.
- 2 The work will be got executed as per IPH/ PWD specification.
- 3 Security, GST and other statutory deduction will be deducted from the contractor's bill as applicable.

- 4 Nothing will be paid for sub-standard work/material.
- 5 Work shall be started within 15 days after the date of award and completed in stipulated period.
- 6 Stone aggregate/sand shall be used of approved quarry.
- 7 The quoted rates should include all taxes and carriage charges etc. and nothing extra will be paid on this account.
- 8 Useable material found at site while execution will be stacked properly and the same will be the property of the department.
- 9 Cement @ 275/-per bag & steel @ 4700/- Per Qtl. will be issued from the IPH Store Solan.
- 10 Empty bag required to be handed over to the deptt otherwise the recovery @ Rs. 5/-per bag will be made.

- 11 Royalty for the material i.e. Sand, aggregate & stone shall be deducted from the bills as applicable

- 12 G.I. pipes will be issued to the contractor free of cost on proper indent at IPH Store Solan. Further carriage and watch and ward will be the responsibility of the contractor. Shortage of G.I. pipe will be recovered on

Executive Engineer
J.S. Division Solan

SCHEDULE OF QUANTITY

Name of work:- Restoration of rain damages LIS Satrol Kanshi Patta in GP Satrol Tehsil Kandaghat Distt. Solan HP. (SH:- C/O out lets, laying & jointing of HDPE pipe, repair of sump well, removal of slips, P/F water opening gate & repair of RCC joints).

Estimated Cost Rs:- 3,35,719/-
Earnest Money Rs:- 6700/-
Time Period :- Two months

<u>Sr. No.</u>	<u>Description of item</u>	<u>Qty</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
1	Excavation in foundation and trenches in all type of soil such as pickwork jumper work blasting soft & hard rock and through conglomeraterock upto all leads & lifts stacking the excavated soil not more than 3mtrs clear from the edge of excavation and then returning the stacked soil in 15cm layers when required into plinths sides of foundations etc. consolidating each deposited layers by ramming and watering and then disposing of all surplus excavated earth in all leads and lifts & as per directed of the Engineer in-charge.	5.48		P/Cum	
2	Excavation in drains and channel etc in earth work in all kinds of soil such as kankar, moorum shingles conglomerate saturated soil and decomposed soft and hard rock hard rock including including dressing of sides and beds , disposing of excavated earth with all leads, lifts disposed earth to be levelled and neatly dressed and then returning the stacked soil into foundation and trenches etc. including ramming and consolidating the same wherever required with all leads, lifts and including jungle clearance and as per the direction of Engineer-in-charge.	324		P/Cum	
3	Providing and laying cement concrete 1:4:8 (1cement:4approved sand:8app.graded stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth and as per the direction of Engineer-in-charge including entire carriage of material upto all leads and lifts.	1.08		Cum	
4	Providing and laying R.C.C 1:1.5:3 (1 cement:1.5approved sand :3app.graded stone aggregate 20mm nominal size) and curring complete excluding cost of form work reinfprcement for rainforced concrete in wall (any thickness but not less then 0.1mtr thickness) attached pilasters, buttresses, plinth and string courses etc.from top of foundation level up to floor to level with all leads and lifts.				
	(a) Base	0.88		P/Cum	
	(b) Walls (any thickness but not exceeding 0.1mt. Thickness) i/c attached lilasters, buttersses, plinth and string concrete etc. from top of foundation level up to floor to level	4.05		P/Cum	

5	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 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 and plain concrete work in vertical surface such as wall of (any thickness) partition and the like including attached pillaster buttresses plinth and string courses and like and as per the direction of Engineer-in-charge .including entire carriage of material upto all leads and lifts.	52.28	Sqm
6	Providing tor steel reinforcement for RCC work including bending,winding and placing in position complete upto floor two level.as per the direction of Engineer-in-chief including entire carriage of material upto all leads and lifts.	471	Kg
7	Removal of slips in all kinds of soil including saturated soil but excuding boulders and rocky portion requiring blasting upto a distance of 20 meters disposing of un- serviceable material, stacking serviceable material and neatly dressing the surface as per direction of Engineer-in-charge.	97.79	Cum
8	Providing and fixing water opening gate including all leads & lifts complete in all respect as per direction of the Engineer-in-charge.	10	Nos.
9	Laying, jointing & testing in trenches high density polythelene pipe for use for buried water main and services jointing of pipe shall be done by butt welding which shall be BIS marked (BIS-4984-1995 or latest with upto date amendments) of PE-80 PN-6 & pressure rating complete in all respect. Earth work to be measured and paid separately in all leads and lifts as directed by Engineer-in-charge.		
	90mm dia	600	Each
10	Jointing of existing RCC pipe line of following internal diameter in position including jointing socket/ collar of old pipe with mixture of cement mortar 1:1 (1cement :1 Sand) complete in all respect.	86	Each

Total Rs.:-

TERMS AND CONDITIONS:-

- 1 The undersigned reserves the right to accept or reject any or all the tenders without assigning any reason thereof.
- 2 The work will be got executed as per IPH/ PWD specification.
- 3 Security, GST will be deducted as applicable
- 4 Nothing will be paid for sub-standard work/ material.
- 5 Work shall be started within 15 days after the date of award and completed in stipulated period.
- 6 Stone aggregate/sand shall be used of approved quarry.
- 7 The quoted rates should include all taxes and carriage charges etc. and nothing extra will be paid on this account.
- 8 Useable material found at site while execution will be stacked properly and the same will be the property of the department.
- 9 Cement @ 275/- per bag will be issued from the IPH Store Solan.
- 10 Empty bag required to be handed over to the deptt otherwise the recovery @ Rs. 5/-per bag will be made.

- 11 HDPE pipes will be issued to the contractor free of cost on proper indent from IPH Store Solan. Further carriage and watch and ward will be the responsibility of the contractor. Shortage& theft of pipe or non return of balance HDPE

Executive Engineer
J.S. Division Solan