

SCHEDULE OF QUANTITY

NAME OF WORK:- PLWSS to Sub- Village Nishani, Kuikod, Dagrech, Togi Garana, etc. in C.V Franali & Dingidhar in Anni Block Distt. Kullu (H.P). (SH: C/O steel roof truss.).

ESTIMATED COST **396345.00****EARNEST MONEY** **7927.00****TIME LIMIT:** **3 Months**

Sr. No	Description of items.	Qty	Unit	Rate		
				In Fig.	In Words	Amount.
1	2	3	4	5	6	7
1	Steel work welded in built up sections, trusses & framed work i/c cutting, hoisting & fixing in position & applying a priming coat of red paint :-In grating, framed ,guards,bars,ladders, railing,brackets & similar works complete with in all lead & lifts and to the entire satisfaction of the Engineer-in-Charge.	#####	Kg.			
2	Providing and fixing 0.60mm thick prepainted steel sheet in roofing with hot dipped metallic zinc coated sheet with top coat of regular modified polyster (RNP) organic coating of 20 microns over 5 microns primer coating to back coat of polyster of 5 microns over 5 microns primer coating i/c fixing with prepainted iron J or L hooks, bolts and nuts 6mm dia metre with prepainted limpet and rubber washers complete with all accesoriees as required as per the direction of Engineer-in-charge.	107.01	Sqm			
3	Providing and fixing plain asbestos cement sheet ceiling of approved quality with butt jointing and wood screws (frame work and cover fillets to be measured and paid for separately) complete with in all lead & lifts and to the entire satisfaction of the Engineer-in-Charge.	50.93	Sqm			
4	Providing and fixing 15cm wide 45 cm over all semicircual plain G.I. sheet gutter with iron brackets 40x3mm size bolts nuts nad washers etc, including making necessary connection with rain water pipe complete as per standard design : complete with in all lead & lifts and to the entire satisfaction of the Engineer-in-Charge.	39.80	Rmt.			
5	Providing and fixing ridges or hips 60 cm overall with 0.60mm thick prepainted steel sheets in roofing with hot dipped metalic zinc coated sheets with top coat of regular modified polyster organic coating of 20 microns over 5 microns primer coating + back coat of polyster of 5 microns over 5 microns primer coating i/c fixing with prepainted iron J or L hooks, bolts & nuts 6mm dia & prepainted G.I. limpet and bitumen washers complete with all accessories as required as per the direction of Engineer in Charges.	26.02	Rmt.			
6	Providing and fixing M.S. BP Sheet 1.66mm to 2mm thick in eaves board/facia/soffits/ceiling including cutting, fixing and welding to steel roof members and applying a coat of red lead primer complete as per the instruction of Engineer-in-charge (Base members of steel work shall be measured & paid separtely) complete with in all lead & lifts and to the entire satisfaction of the Engineer-in-Charge.	26.70	Sqm			
					Total	
					Executive Engineer,	
					I&P.H. Division	
					Anni	
TERMS AND CONDITIONS						
1	Work will be carried out as per HP.PWD/IPH Specifications					
2	The contractor shall be responsible himself for watch and ward of material at site of work issued to him by the department					
3	Final payment shall be released after successful testing and entire satisfaction of the Engineer-in-Charge.					
4	Income Tax , Sale tax,GST and labour cess shall be deducted from the bill of the contractor as applicable.					
6	The material shall be used of ISI Marked / reputed make					
					Executive Engineer,	
					I&P.H. Division Anni	

SCHEDULE OF QUANTITY

Name of Work :- PLWSS to NC/PC Habitation of CV Faranali Dingidhar in Anni Block in Distt. Kullu (H.P) SH:- C/O Sec. Storage tank 10000 litres Cap near village Sanetha and Laying,jointing & testing of G.I pipe 32mm (LC) from node N to Mode-M (RD 4000 to 7500)

Estimated Cost Rs 4,27,289/- only

Earnest Money :- Rs. 8550/-

Time limit:- Four months

Sr. No	Description of item	Qty.		Rate		Unit	Amount
				(In Fig.)	(In words)		
1	Excavation in foundation and trenches (For pipes and pits) up to all depths and in all classification of earth work such as pick work, jumper work, situated soil including bailing or pumping out of water, blasting soft or hard rock or chiseling or wedging out of soft/hard rock where blasting is prohibited, in all lifts including trimming and dressing of sides, labeling of beds to correct grade including shoring, strutting, planking, timbering and dewatering wherever required. Stacking usable and unusable material /soil separately and after lying jointing and testing of pipes, returning the usable soil in 15cm layers by ramming and watering and then disposing of all surplus excavated soil/ unusable material as directed with in all leads/ lifts including restoration of un-metalled surfaces to its original conditions and including cost of diversion for traffic, night signal boards, fixing caution boards, crossing over trenches for access to houses, fencing etc. Complete in all respects within all leads and lifts as per direction of the Engineer-in-Charge.	991.1	Cum				
2	Laying, jointing & testing of G.I pipe (LC) of following diameter in trenches including G.I fitting (like G.I union,tee,nipple, elbow& short pieces etc) complete in all respect as par the direction of Engineer-in charge with in all lead & lift.(Earth work to be measured & paid seperatly)						
	i)32 mm diameter (LC)	3500	Rmt				
3	Providing and laying cement concrete 1:3:6 (1 cement:3sand:6 graded stone aggregate 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth Complete in all respects within all leads and lifts as per direction of the Engineer-in-Charge.	0.94	Cum				
4	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: Complete in all respects within all leads and lifts as per direction of the Engineer-in-Charge.						
	Foundations, footings, basis of columns & the like and mass concrete.	1.4	Cum				
	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.	2.93	Cum				
5	Providing and laying cement concrete 1:1.5:3(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 floors :Complete in all respects within all leads and lifts as per direction of the Engineer-in-Charge.	0.62	Cum				
6	Providing tor steel reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level.Complete in all respects within all leads and lifts as per direction of the Engineer-in-Charge.	346	kg				
7	Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fairfinish I/c centring , shuttering , strutting and proping 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 Complete in all respects within all leads and lifts as per direction of the Engineer-in-Charge. :-						
	Vertical surfaces such as walls (any thickness), partitions and the like including attached pillasters, buttress,plinthand string courses and the like.	39.03	Sqm				
	Flat surfaces such as soffits of suspended floors , roofs,landings and the like.Floors etc up to 200mm in thickness.	4.8	Sqm				
8	Fixing MS steel sheet manhole cover & frame Issued by the Deptt. from Divisional Store to site of work complete in all respectwithin all leads and lifts as per direction of the Engineer-in-Charge. :-	1	No				

SCHEDULE OF QUANTITY

Name of work : Restoration of rain damages FIS Tikkari Thanas in Nirmand block Distt. Kullu (H.P) (S.H: Providing and laying of MSERW pipe 200mm dia 4.80 mm thick flange table-23.)

ESTIMATED COST 141237.00**EARNEST MONEY** 2824.00**TIME LIMIT** 2 Months

Sr. No	Description of items.	Quantity	Unit	Rate		Amount.
				In Fig.	In Words	
1	2	3	4	5	6	7
1	Excavation in foundation and trenches etc. in earth work in all kinds of soil such as pick work, jumper work, blasting soft or hard rock or by chiselling soft or hard rock where blasting is prohibited in all leads and lifts including trimming / dressing of sides and bed, stacking the excavated soil clear from the edge of excavation and returning the excavated soil after completion of work in 15cm layers when required into plinth, sides of foundation etc. consolidating each deposited layers by ramming and watering and then disposing of all surplus excavated soil complete in all respect as per direction and to the entire satisfaction of the Engineer-in-Charge.	24.57	Cum			
2	Providing , laying, fixing, jointing and testing in trenches ISO:3183 L-210 pipe of following dia meters (latest with upto date amendments) steel grade A having wall thickness as specified below with plain end and capable of withstanding required test pressure in random length of 4 to 7 meters, including specials, short pieces, bends, reducers, tees etc. made from parent tube, providing and welding of MS flanges detailed as below. The MS flanges shall confirm to BIS 6392-1971 (with latest up to date amendments) duly welded in two layers (two inner and two outer) with pipes at both ends as per relevant BIS standards along with nuts and bolts of required sizes, 3mm thick compressed asbestos fiber/synthetic rubber gaskets confirming to relevant BIS standards. The laying of pipe will include all operation such as cutting, welding, jointing, providing & fixing of MS flanges, fabrication of bends, tees etc. including lowering and laying in excavated trenches to ensure required level including flushing, cleaning and hydraulic testing complete in all respects to the 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 pipes shall be factory galvanized (zinc coating both inside and outside) as per relevant IS standards and the damaged portion of the pipes and specials made from the parent tube during welding or otherwise shall be provided anticorrosive treatment by applying two coats of anticorrosive bituminous paint over a priming coat as per AWWA specifications C-203-1978. The welding electrodes shall be as per IS 814 of Advani Oerlikon/ L&T or ISI marked make. The rates also includes entire carriage of material, flushing, cleaning & hydraulic testing complete to the best satisfaction & directin of Engineer in charge with in all leads and lifts. (Earth work in trenches will be measured and paid for separately). 200 mm dia.	42.00	Rmt.			
		Total				
TERMS AND CONDITIONS ATTACHED						
				Executive Engineer,		
				I&P.H Division, Anni		

SCHEDULE OF QUANTITY

Name of work :- Annual repair of LWSS to village Thachwa, Jagatkhana in G.P Tunan in tehsil Nirmand Distt Kullu (H.P) (S.H: Providing, fixing and commissioning of Centrifugal Pump & Motor 25BHP.)

ESTIMATED COST **306184.00**EARNEST MONEY **6124.00**TIME LIMIT: **3Months**

Sr. No	Description of items.	Quantity	Unit	Rate		Amount
				In Fig.	In Words	
1	2	3	4	5	6	7
1	Prov. fixing commissioning & testing of horizontal spindle, horizontal/redial spilt casing/end suction (back full out arrangement) single/double/multistage centrifugal pump in series/parallel of recommended make such as Mather and Platt/KSB/Beacon weir/Jyoti/Kirloskar/ASPEE (Asea Brown Boven LTD) as per BIS 1520-1980 with upto date ammendments,read with BIS 9137-1978 or latest edition suitable for lifting water for under mentioned characteristics with bronze,impeller, priming funnels, casing ring and shaft sleeves of bornze shaft of steel grade 45-C-8 with cast iron casing coupled directly through a flexible coupling on a common CI/Cast steel/base plate (base plate to be from the manufacturer of the pumping unit only) to slpring/squirrel cage screen protected drip proof induction motor /motors of standred make such as Kirlokar BEHL/ Crompton / NGEF /GEC/Siemens/Jyoti and suitable for opration on 415(+/-) 5% volts 50 cycles/second. 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 operation maximum power required by the pump/pumps in the operation range off(+) 10% and (-) 25% of the duty point head. The motor/ motors as per IS: 325-1978 with uptodate ammendements read with IS:900-1972. It should include cost of bearing,nuts,bolts and painting etc. and should meet the following requirements. Slip ring/squrrel cage screen protected drip proof electric induction motor suitable for operation on the data given below.	1 Set of 25 BHP	Per BHP			
A	Site Condition					
i	LWL in sump well (h)					
ii	Shaft level = 1380 mtr					
iii	Level at discharge point 1537.50 mtrs.					
iv	suction lift (+ve)					
v	Discharge head mtr					
vi	Static head 157.50 mtrs.					
vii	Rising main 80mm dia					
viii	Length of rising main - 900mtrs.					
ix	Pumping hours 8hours. Per day					
x	Altitude of installation above MSL 1380.00 mtrs.					
xi	Characteristics of water-clear cold water					
xii	Temperature - 10 degree					
xiii	Ambient temp - 38 Odegree					
xiv	Turbidity upto 50ppm					
B	Operatomg Condition					
i	Type of current = AC Three phase					
ii	Operating frequency 50HZ					
iii	Rated voltage = 400 (+/-) 10% Volts					
iv	Speed of revolution in RPM = To be coated by the tenderer					
v	Direction of rotation clockwise					
C	Motor					
i	Ref. to BIS Code BIS 9283-1979 with upto date ammendments					
ii	Type of enclouser of motor as per BIS 4691-1985 latest					
iii	Type of Duty continuous					

iv	Mechanical output in KW Suitable for diving centrifugal pumps required for duties specified against pump. To avoid overloading of motor suitable a margin of about 15-20% may be kept in the rated output prime mover as per requirement of CPHEEO manual on WS/relevant IS:code					
v	Class of insulation					
vi	Type of motor slipring / squirrel cage screen protected drip proof induction motor as per IS 325-1978 with up to date amendments read with IS 900-1972					
vii	Detail of shaft extension required work with the pump offered.					
viii	Type of slipring gear whether continuously rated or for starting purpose only and whether to be fitted with brush lifting or short circuiting arrangements or both if interlock are required continuously rated for squirrel cage/slipring motor.					
ix	Brake way torque in terms of rated load torque and the corresponding break way starting current which may be taken from the supply with the starting apparatus in circuit brake way torque to be given by the tenderer but the starting current should not exceed 2.5 times of the full load current.					
x	Nature of load and any information regarding the driven machine which has a bearing upon the torque required during the accelerated period the kinetic energy of the moving part to be accelerated and No of starts during a specified period to work the pump offered.					
xi	Where possible fault capacity of the system to which the motor is connected the motor should be able to withstand initial current of 2.5 times the rated current for 2 minutes without suffering damages or permanent deformations					
D	Pumps: BIS 1520-1980 read with BIS 9137-1978 both latest with up to date amendments					
i	No of pumps required 1 No of pump					
ii	Spare parts required for two years normal maintenance as recommended by manufacturer					
iii	Type of drive electrical induction motor					
E	Pump operating condition					
i	Total Head 174.14 mtrs.					
ii	Discharge (Q) 4.50LPS					
2	Providing and fixing of ICTP main switches with HRC fuses with suitable capacity of standard/ Kilburn /L&T /Siemens /Stands /Havell having 30 % extra of the operational rating as per IS:4064-1978 with upto date amendments.	1.00	No			
3	ACB/Oil circuit breaker/MCB/MCCB of Kilburn/L&T/MEI/GEC make and of suitable capacity on incoming feeder with or without initial oilfilling as the case may be with neutral linked under voltage releases as per IS:2516-1985 with upto date amendments.	1.00	No			
4	Earth leakage circuit breaker ELR of recommended make (Kilburn/L&T/MEI/GEC as per IS:2516-1977 with upto date amendments and of suitable of range which should have control box, operating handle and trip/reset button on/off indicators re-indicating off spring condition of the 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 end.	1.00	No			
5	The voltage meter relay of AE/L&T/Havell make 3 phase with all protection and usual indicators and electric siran against single phasing, Low voltage high voltage reverse phase over loading and phase voltage difference as per IS:3842(latest edition)	1.00	No			
6	Providing and fixing Digital A.C Supply voltmeter of recommended make AE/IMP/L&T/ Havells/ Mini lack of suitable range with selector switches as per IS: 4064-1978 with upto date amendments.	1.00	No			
7	Providing and fixing Digital A.C Supply Amper meter of recommended make AE/IMP/L&T/ Havells/ Mini lack of suitable range with selector switches as per IS: 4064-1978 with upto date amendments.	1.00	No			
8	Providing and fixing digital power factor meter of standard make AE/IMP/L&T/ Havells as per relevant amendments IS: code with upto date	1.00	No			











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