

SCHEDULE OF QUANTITY

NAME OF WORK :-Aug. of LWSS Shillai in Tehsil Shillai Distt. Sirmour(HP)(SH:- Replacement of Old Centrifugal Pump Sets 1 No. each at both the stages) Stage-Ist.

Estimated Cost:Rs.420000/-

Earnest Money: Rs.8400/-

Time: Two months

S.NO.	DESCRIPTION		QTY	RATE	UNIT	AMOUNT
1	Stage-Ist.					
1	Supply, erection, testing & commissioning of horizontal spindle, horizontal split casing, radial split Single./Multistages centrifugal pumps of KSB make Model- HDA 65/11 , HP= 200 HP conforming to BIS 1520-1980 with upto date ammendments read with BIS 9137-1978 or latest edition to handle clear water having turbidity up to 50 ppm. with impelleres, casing ring, priming funnels & shaft sleeves of bronze, shaft of steel with cast iron casing of suitable capacity coupled directly through a flexible coupling on existing common base plate of Mild steel to the existing Crompton make Motor of 200 BHP alongwith slip ring /squirrel cage screen protected drip proof induction electric motor suitable for operation on the data given.		1		P/Set	
a)	Total Head in mtrs (i/c depth of Column Pipe in case of t/well) :	617.00 mtr.	Set			
b)	Discharge Capacity (in LPS)	12.84 LPS				
c)	Dia of R/Main (in mm)	125mm				
d)	Dia of Column pipe (in mm)					
A)	SITE CONDITIONS:-		Non Moterable			
	=====					
i)	Location of Site:-					
ii)	The altitude of place in which the motor is intended to work:-	915.00 mtr	mtr.			
iii)	Humidity:-	Wheather Generally remains humid during monsoon season				
iv)	Nature of atmosphere:-	As normally encountered in Shivalik Ranges				
v)	Detail of quality of water :-					
vi)	Water free from sand or not:-					
vii)	Water corosive or not:-	---				
viii)	Turbidity :-	---				
ix)	NPSH available:-	(+ve) Positive				
x)	Any other information or requirement	---				
B)	OPERATING CONDITIONS:-					

S.NO.	DESCRIPTION			QTY	RATE	UNIT	AMOUNT
	=====						
i)	Type of current:-	AC three/single phase					
ii)	Operating frequency:-	50 HZ					
iii)	Rated voltage:-	400 (+/-) 10% volts					
iv)	System of earthing if any to be adopted:-	Double loop earthing as per BIS 3043 1987 latest with upto date ammendments					
v)	No. of working hours per day:-	8 hours					
vi)	Speed of revolution:-	To be quoted by tenderer					
vii)	Direction of rotation:-	To be quoted by tenderer					
viii)	The max. Temp. of cooling air & water in the place in which the pumpset is intended to work in ordinary service:-	35 Degree Centigrade					
C)	PUMP :						
a)	Nos of pumps reqd.:-	1 No.Pump(Ist.will discharge of 12.84 LPS)					
b)	Spare parts required:-	For two years normal maintenance as recommended by manufacturer.					
c)	Optional fittings reqd.:-	Air cock for exhausting aire from each stage					
E)	PUMP OPERATING CONDITIONS:-						
				As per condition attached			
i)	Capacity (in LPS)	12.84 LPS					
ii)	Total head (in Mts).:-	617.00 mtr.					
	If total head is not known then following details be provided:-						
	i) Static head (in mtrs)	572.59 mtr.					
	ii) Minimum depth of water(in mtrs)						
	iii) Variation in water level (in mtrs)						

S.NO.	DESCRIPTION			QTY	RATE	UNIT	AMOUNT
	iv) Ground level to max. water level (in mtrs)						
	v) Ground level to delivery point (in mtrs)						
	vi) Pressure in the suction tank (in Kg/cm ²)						
	vii) Pressure in the delivery tank (in Kg/cm ²)						
iii)	Length of R/Main (in metres):-	1530.00 mtr.					
iv)	Dia of R/Main (in mm):-	125mm					
v)	Drive arrangement:-	Direct through flexible coupling on a common base plate					
vi)	Drive type:-	Electric driven					
vii)	NPSH reqd.:-	To be quoted by the tenderer					
viii)	Limits of total head in which the pump is reqd. to operate:-	(-) 15% to (+) 10% of total head.					
		To be specified by the tenderer					
ix)	Suction/delivery size of pump:-						
		To be specified by the tenderer					
x)	Efficiency of pump at:-						
	a) duty head						
	b) (+)10 % of head						
	c) (-) 15 % of head						
xi)	Material of construction:-	To be specified by the tenderer (manufacturers certificate to be appended)					
				TOTAL		Rs	

Executive Engineer,
IPH Division, Paonta Sahib