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Public Health Engineering Department Jammy

PROJECT REPORT

For

Providing Water Supply to village Chowarian, Charangal and Parla

Gran under WSS Chowarian-Charangal (NABARD)

P.H.E DIVISION, NOWSHERA DISTRICT RAJOURI

SALIENT FEATURES

Name of scheme

Providing water supply to Chowarian, Charangal and Parla Gran

mohras of village Thandapani under WSS Chowarian- Charangal

(NABARD).

Authority

J&K Government PHE Department.

Name of State

Jammu and Kashmir

Name of District

Rajouri

Name of Tehsil

Sunderbani

6. Name of Constituency

Nowshera

7 Scope of Scheme

Chowarian, Charangal and Parla Gran mohras of village Thandapani

Type of source

Filtration Plant & Bore well.

Type of Scheme

Lift/gravity

10. Rate of discharge

5000 Glns per hour (Filtration Plant) + 1 No 3000 Glns

per hour(bore wells)

308.44 las

11 Estimated Cost

Rs 299.50 Lacs

Mode of Distribution

Through PSPs

Time of Completion

Two Years

Per Capita Rate of Supply

55 litres/capita/day

Type of Treatment 15. Chlorination

Maintenance charges @ 2% : 16. Rs. 5.990 lacs

17. Peak Factor 3.0

Cost per capita 18.

> 18536 Rs. 17998.00 a) As per present population:

> 132381 Rs. 12854.00 b) As per design population:

Assistant Engineer,

P.H.E. Sub Division, Sunderbani

Assistant Executive Engineer, P.H.E. Sub Division, Sunderbani

Executive Engineer, P.H.E. Division, Nowshera

TECHNICAL REPORT

NAME OF THE SCHEME

Providing water supply to Chowarian, Charangal and Parla Gran mohras of village Thandapani under WSS Chowarian- Charangal

ESTIMATED COST

308.44 Lach Rs 299.50 lacs.

AUTHORITY

Government of Jammu & Kashmir through PHE department Jammu.

LOCATION

Chowarian, Charangal and Parla Gran mohras of village Thandapani falls under the administrative jurisdiction of Sunderbani Tehsil and are located about 5 to 7 Kms towards North East of Sunderbani town.

HISTORY & NECESSITY

Just like air, water forms the basic need to sustain life. It is also the most effective agent required for maintaining hygiene and cleanliness. Besides, save drinking water is the primary requirement for good health of human beings and thus for their prosperity and the ultimate betterment of mankind and the country we live in. as such, providing safe and sufficient drinking water to citizens is the first and foremost duty of the government and for the overall well being and development of nation.

Mohra Chowarian, Charangal and Parla gran of village Thandapani still lacks the facility of adequate and safe drinking water. The habitants of Mohra Chowarian, Charangal and Parla gran, the school students and above all the floating population of Gujjar-Bakarwals and other nomadic population in the area, have to face lot of hardships in fetching

even, imagine their hardships to get water particularly during the scorching summer heat and torrential rains during monsoons. This available water, infact, no doubt, quenches their thirst but its quality, quantity and the hardships in getting it, renders them sick and effects their health. Consequently, their overall development is marred for no fault of theirs.

It is pertinent to mention here that construction of 5000 GPH slow sand filtration plant was already taken up in hand some years back under BADP. Since the funds provided were not sufficient to complete the water supply scheme, as such, a new detailed project report, amounting to Rs. 198.60 lacs, has been framed. It has been proposed to complete the slow sand filtration plant and drill a 200 mm dia bore well. The water from filtration plant and bore well is collected in 10,000 GLNS Sump tank and furthur the water is pumped through well designed 65 mm dia rising main to 20,000 GLNS GSR and 10.000 GLNS GSR. From these reserviors, the drinking water shall be supplied by gravity in different directions for over all use of the masses.

POPULATION & WATER REQUIREMENT OF THE SCHEME

S. No	Panchayat	Village	Habitation	Total (2011)		Populat	ion
1.	Thandapani	TI. 1		Population	SC	ST	General
	mandapani	Thandapani	Chowaraian	315	45	45	
2.	Thandapani	Thandapani	Charangal	175		43	225
	Thandapani	Thandapani	Sur	475	40	30	405
			Parla Gran	200	20	40	140
		TOTAL		990	105	-	140
) 330	105	115	770

a) School	=	250 souls
b) Gujjar/Bakarwal	=	300 souls
Total population in 2015 AD	=	1664 souls
Designed Population in year 2030 AD		
Present water requirement in 2013 AD	=	2330 souls
(a) 55 litres per capita per day	=	1664 × 55
,	=	91520 Litres per day
	=	20158 Gallons per day
Designed water requirement in 2030 AD		
@ 55 litres per capita per day	=	2330 × 55
	=	128150 Litres per day
	=	28227 Gallons per day
		(Say 30000 Gallons per day)
Present storage available	=	Nil
Proposed storage	=	a) 01 No 20000 Gallons GSR
		b) 01 No 10000 Gallons GSR
		Total = 30000 Gallons

TIME OF COMPLETION

The scheme shall be completed within three years provided the funds and material are made available.

J.E. Assistant Engineer, P.H.E. Sub Division, Sunderbani

Assistant Executive Engineer, P.H.E. Sub Division, Sunderbani

Executive Engineer, 1 P.H.E. Division,

Love Nowshera

ACCORD OF ADMINISTRATIVE APPROVAL

SOURCE CERTIFICATE

It is Certified:-

- 1. That the source of the scheme is free from any dispute.
- That discharge available is adequate and will cater to the need of designed population proposed to be covered under the scheme.
- 3. That the source tapped will not be adverse ably affecting water supply scheme in case the source has been tapped from the existing system.
- 4. That the scheme has been properly investigated and proposals are viable from techno-economic consideration.
- 5. That the population to be covered with the drinking water supply facility has been authenticated with the 2011 census population.
- 6. That the proposed source is dependable and is not expected to yield a discharge below the design level.

My A.E.

Assistant Executive Engineer P.H.E Sub Division Sunder Bani

PHE Division
Nowshera

Superintending Engineer
Hydraulic Circle

Rajouri

Check List for Drinking Water Supply Schemes

. No.	Description of the information/ Data required to be submitted	ed with each scheme fo
1,	6 Copies of the DPR.	
	(Attached/Not attached)	
2.		
di s	3 Signed copies of the maps of proposed service area	
	(Habitation) in which water supply is to be made available.	
Newson consumer	(Attached/Not attached)	
3.	Scheme category (District Sector/State Sector/NRDWP)	
4,	Location of the scheme (Rural/Urban)	
5.	Type of scheme (Lift/Gravity)	
6.	Type of source (Surface/Spring/Tube well/Dug well/any other)	
7.	Whether source is perennial/seasonal.	
8.	Whether source is free from any dispute. (Yes/No)	
9,	Quanity of water available at source during the lean period of	
	the year. (In Liters/Kiloliters per day)	
10.	Quantity of water required for the designed population of the	
	scheme. (In Liters/Kiloliters per day)	
11.	Proposed service level of water to be provided.	
	(In Liters/Kiloliters per day)	
12.	Whether scheme is consistent with the state water policy as per	
	its objectives. (Yes/No)	
13.	Whether the land required for construction / raising	
	infrastructure of the scheme is in the ownership/ possession of	
	the department. (Yes/No)	
14.	Whether is certificate to the effect by the Chief Engineer, in	
	case of a NRDWP or a state sector scheme /Superintending	
	Engineer in case of a District Sector Scheme, that source of	
	water proposed to be tapped has adequate/sustainable discharge	
	at least upto the designed life of the project.	
	(Attached/Not attached)	
15.	Certificate to the effect by the Chief Engineer, in case of a	
	NRDWP or a state sector scheme/ Superintending Engineer in	
	case of a District Sector scheme, that the proposed scheme is	
	economical and that there is no other viable alternative.	
	(Attached/Not attached)	
16.	Certificate to the effect by the Chief Engineer, in case of a	
	NRDWP or a state sector scheme/ Superintending Engineer in	
	case of a District Sector scheme, that the proposed scheme is	
	not detrimental to any existing, ongoing or proposed water	
	supply, irrigation, flood control, or any other scheme in the	
	area. (Attached/Not attached)	
17.	Whether safety measures for protecting public have been	
	envisaged and provided for in the detailed project report (Refer	
	Regulations on safety measured issued by the Authority vide	
	notification No. 07/JKSWRRA/2013 dated the 22 nd April.	
	2013. (Yes/No)	
18.	Whether the prescribed fees and service charges have been paid	
	by the user (proof by way of a Bank Draft/ Pay Order to be	

Title between	attached. (Attached/Not attached)	
19.	by the chief Engineer in a series on the scheme	
	Scheme/ Superintending Engineer in case of a District sector Scheme, has been attached (Attached Oliver)	
20,	Whether a copy of the No Objection certificate from the concerned department/ agency of the central government based in the state, in case the area proposed to be covered under the scheme includes the whole or any part of a cantonment area.	
	in the occupation of the central government for defence purposes, has been attached. (Attached/Not attached) Whether the Project required to the contract of the central government for defence whether the Project required to the contract of the central government for defence whether the Project required to the central government for defence whether the project required to the central government for defence whether the project required to the central government for defence whether the project required to the central government for defence whether the central government for defence whether the project required to the central government for defence whether the project required to the central government for defence whether the central government for	
21.	Whether the Project requires environment clearance under standing instruction of the state / Central Government. If so, a copy of the necessary clearance given by the competent authority to be attached. If not, a detailed note on the likely environment impact of the scheme to be prepared by the Chief Engineer/Superintending Engineer concerned and attached with	
22.	Whether a certificate to the effect by the Chief Engineer, in case of a AIBP or a state sector scheme, Superintending Engineer in case of a District sector scheme, that the proposed scheme is not detrimental to any existing, ongoing or proposed water supply, irrigation, flood control or any other scheme in the area, has been furnished. (Attached/Not attached)	

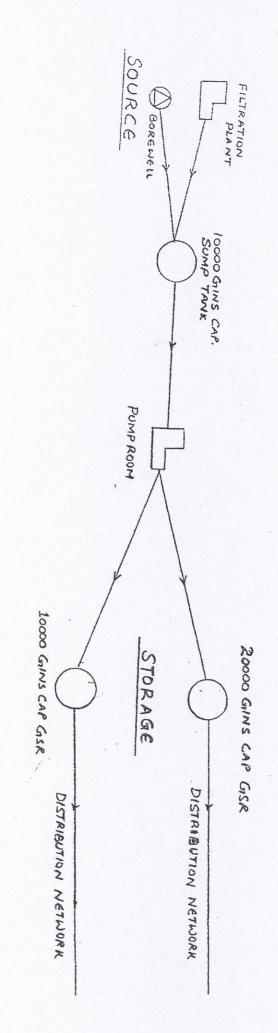
A.E.

Assistant Executive Engineer P.H.E Sub Division Sunder Bani

Executive Engineer
PHE Division
Nowshera

Superintending Engineer
Hydraulic Circle
Rajouri

FLOW DIAGRAM FOR WSS CHOWARIAN - CHARANGAL



Till Amiga

Assistant Executive Engineer
P.H.E Sub Division
Sunder Bani

Executive Engineer
PHE Division
Nowshers

Engineer Su

Superintending Englocer

Name of Scheme: Water Supply Scheme Chowarian - Charangal of village Thanda Pani.

Certificate

Certified that the case for land acquisition is under process and execution of WSS Chowarian – Charangal shall be taken under only after the land is made available.

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Assistant Executive Engineer P.H.E Sub Division Sunder Bani

Executive Engineer
PHE Division
Nowshera

Superintending Engineer

Hydraulic Circle

Rajouri

GENERAL ABSTRACT OF COST

PROVIDING WATER SUPPLY TO VILLAGE CHOWARIAN, CHARANGAL AND PARLA GRAN UNDER WSS CHOWARIAN-CHARANGAL

s.NO.	PARTICULARS	NO	RATE (in Lacs)	AMOUNT
1	Cost for construction of Intake Structure on River Tawi including pump room, protection work and other allied works (Lum-Sum).			(in Lacs)
2	Cost for construction of 5000 GPH Rapid Sand Filtration Plant at Chowarian	1	50.00	18.00
	Cost for construction of 10,000 Glns capacity Sump Tank near Filtration plant	1	5.67	50.00
	Cost for construction of Pump Room/Chowkidar Quarter Near Filtration plant	1	7.32	7.32
	Cost for construction of 20,000 Glns capacity GSR at Kadama Pahadi	1	11.15	11.15
	Cost for construction of 10,000 Glns capacity GSR at Charangal	1	5.82	5.82
	Cost for Drilling of 01 No 200mm Dia Bore Well at Charangal	1	12.00	12.00
8	Cost for Laying of G.I. Pipies for R/Mains	1	35.53	35.53
9	Cost for Laying of G.I. Pipies for Distribution System	1	47.34	47.34
	Cost for Realignment of Existing Distribution System(Lum- Sum)	1	8.00	8.00
11	Provision for Land compensation (Lum-Sum)	1	10.00	10.00
12	Provision for Boundary wall and barbed wire Fencing Around Filtration plant complex and other Structures(Lum-Sum)	1	16.20	16.20
13	Provision for providing and installation of Electrical and Mechanical Components	1	53.30 52.00	23.30
			Total	
	Add 2.50 % for Work	Charge an	d Contengencies	5.556.85/EXC
	Provision for operator/fitters/turn cocks for the runn	ning of Sc	heme for 2 years	27.76 48
			Grand Total	308.44

Say Rs. 308.44 Lacs

Assistant Engineer, P.H.E. Sub Division, Sunderbani

Assistant Executive Engineer, P.H.E. Sub Division, Sunderbani Executive Engineer, P.H.E. Division, Nowshera.

SE Hydralde Jestrele,

ESTIMATE FOR PROCUREMENT & INSTALLATION OF PUMPING MACHINERY FOR AUGMENTATION OF WATER SUPPLY TO VILLAGE CHANNI, PRAT & OTHER LEFT OUT MOHRAS UNDER WATER SUPPLY SCHEME CHANNI PRAT{PHASE-I}

S. No	Particular	Amount
1	Cost of providing and installation of 1 No HCP set of 5000 gallons per	(in lacs)
4	Cost of providing and installation of 1 No Pow W	12.50
	Structure Structure	11.00
5	Cost of providing and installation of 01 No submersible pump set of 3000 gallons per hour capacity & 100 m head with stand by unit	
6	Cost of providing and installation of 01 no's 250 KVA Voltage	5.00
	Voltage stabilizers and control panels resp	11.50
7	Cost of erection of 01 no 250 KVA, 01 no 100 KVA and 01 no 63 KVA Electric Sub Station at Filtration Plant, Intake and Bore Well Resp. including HT and LT Lines and HT and LT Poles.	12.00
	Add 25% for work charge and performance	52.00

Say Rs. 52.00 Lacs

53.30

Ghy 3cy J.E. A.E.

Assistant Executive Engineer, P.H.E. Sub Division Mech.,

Nowshera

Executive Engineer, P.H.E. Division Mech., Rajouri

Signed for Re53:30 laces

(Er. F. A. Zhoudhary)
Superintending Engineer
PANAGEN, Rural Circle
JAMMU.

ANNUAL FINANCIAL IMPLICATIONS

S. No	Particulars	Amount (in Rupees)	
(A)	Direct Charges		
1	06 No. of pump operators @ Rs. 12000/month	1728000.00	
2	02 No. T/Cock @ Rs. 9000/ month		
3	02 No. Fitter @ Rs. 12000/ month	432000.00	
		576000.00	
4	Bleaching powder and alum (LS)	40000.00	
	Total (A)	2776000.00	

B)	Indirect Charges			
1	Interest @ 8% on capital cost	2396000.00		
2	Maintenance charges @ 2%	599000.00		
3	Depreciation cost @ 2.5%	748750.00		
	Total (B)	3743750.00		
	Grand total (A) + (B)	6519750.00		

E. Assistant Engineer,
P.H.E. Sub Division,
Sunderbani

Assistant Executive Engineer, P.H.E. Sub Division, Sunderbani

P.H.E. Division,
Nowshera.