192/NCR

Government of Jammu and Kashmir
OFFICE OF THE SUPERINTENDING ENGINEER, HYDRAULIC CIRCLE, RAJOURI.
Telephone/Fax No.01962-263219, e-mail: sehydcirclerajouri@gmail.com

(W)

Sub: Accord of Administrative Approval

Order No.: SEHR/PHE/AA/12 of 2018.
Dated: 15/9/2018

Administrative Approval is accorded to the Water Supply Scheme "GARAN" of PHE Division Nowshera, District Rajouri for an amount of Rs. 191.15 lacs (Rupees One Hundred Ninety One Lacs & Fifteen Thousand only) under NRDWP by debit to Major Head 4215 subject to following terms and conditions:-

(3)

1. That the works/habitations mentioned in the detailed project report are not covered under any other programme/Head of execution.
2. That the Accord of Administrative Approval does not entitle the executing agency to incur any expenditure in absence of release of funds.
3. That the expenditure to be incurred against the AA shall be in accordance with the standing procedures which besides others inciude fulfillment of all the codal procedures as required under rules.
4. That there shall be no deviation in account of provision as contained in the AA.
5. That the expenditure shall be restricted within the approved cost of the project and expenditure shall be made in accordance with the norms of the programme

Superintending Engineer
Hydraulic Circle
Rajouri

No: SEHR/PHE/W-1/ 906-908
Dated: 15/9/2018

Copy to the:-

1. Accountant General, J&K Jammu for information.
2. Chief Engineer, PHE Department, Jammu for information.
3. Executive Engineer, PHE Division, Nowshera for information and n/a.

GOVERNMENT OF JAMMU & KASHMIR

PUBLIC HEALTH ENGINEERING DEPARTMENT, JAMMU

PROJECT REPORT

WATER SUPPLY SCHEME

GARAN UNDER NRDWP

SALIENT FEATURES

ACCORD OF ADMINISTRATIVE APPROVAL WATER SUPPLY SCHEME GARAN (NRDWP)

1. Name of Scheme : Water supply scheme Garan
2. Name of District : Rajouri
3. Name of Tehsil : Nowshera
4. Name of Block : Doongi
5. Name of Constituency : Kala Kote
6. Type of Scheme : Lift
7. Type of Source of Scheme : Sub Surface Water
8. Proposed Source : Percolation Well
9. Name of Habitations benefited with population as on 2012

S. No	Name of Panchayat	Name of village	Name of Habitatiion	Population 2001 AD	Present Pop. 2012 AD	Design Pop. 2027 AD
1.	Garan	Kanwan	Fafra	171 Souls	244 Souls	396 Souls
2.	Garan	Kanwan	Garan Bala	144 Souls	206 Souls	335 Souls
3.	Garan	Kanwan	Garan Kot	225 Souls	321 Souls	521 Souls
4.	Garan	Kanwan	Garan Pain	307 Souls	438 Souls	712 Souls
5.	Garan	Kanwan	Jattan Kot	125 Souls	178 Souls	289 Souls
6.	Garan	Kanwan	Karila	71 Souls	101 Souls	164 Souls
	Floating Population and New settlement				223 Souls	363 Souls
	Total				**1711 Souls**	**2780 Souls**

10. Present Population i.e. 2012 AD : 1711 Souls
11. Designed Population i.e. 2027 A.D : 2780 Souls
12. Proposed Rate of water supply : 09 GPD
13. Designed Water Requirement : 28743 GPD
14. Availability of Water : 35,000 GPD
15. Cost of Scheme : Rs. ~~190.08~~ 191.25 lacs
16. Cost Per Capita on Present Pop. : Rs. ~~11109.00~~ 11177
17. Cost Per Capita on Designed Pop. : Rs. ~~6837.00~~ 6895

J.E.

Asstt. Executive Engineer
PHE Sub Division
Nowshera

Executive Engineer
PHE Division
Nowshera

PROJECTED POPULATION, WATER REQUIREMENT AND FEASIBILITY REPORT FOR WATER SUPPLY SCHEME . GARAN .

FEASIBILITY REPORT

Percentage decadal growth rate of district Rajouri

1991-2001 = 25.71%

2001-2011 = 32.93%

As per census 2001 Population of Habitation Fafra, Garan Bala, Garan Kot, Garan Pain, Jattan Kot and Karila = 1043 Souls

POPULATION BASED ON GROWTH RATE

Present Population as on 2012 AD = $1043 \times (1+ 3.29/100)^{11}$ = 1488 Souls

Present Population as on 2027 AD = $1488 \times (1+ 3.29/100)^{15}$ = 2417 Souls

Floating Population @ 15% of designed Population = 363 Souls

Total = 2780 Souls

REQUIREMENT OF WATER

Total Designed Population of 2027 AD = 2780 Souls

Proposed rate of water supply/Capita/day = 09 GPD

Total requirement of water per day = 25020 GPD

Water available from source proposed sources = 35,000 GPD

The scheme has been framed to cover the Main habitation Garan along with adjoining habitations of Fafra, Garan Bala, Garan Kot, Garan Pain, Jattan Kot and Karila out of which at present Jattan Kot, Garan Pain Fafra has no piped water supply. The Proposed source i.e. Percolation well with an anticipation discharge of 20,000 Glns per day, Spring source at Fafra with anticaped discharge of 5000 Gallons per day and Existing spring source at Papi Nallah having a discharge of 10,000 Gallons per day and thus total water available shall be 35000 Gallons per day shall cater to the water requirement of the scheme. Hence the scheme is feasible.

STORAGE REQUIRED

Total ultimate demand of water		= 25020 GPD
Add 15% losses for wastage, leakage etc.		= 3753 GPD
	Total	= 28743 GPD
Storage for half day demand		= 14386 GPD

J.E.

Asstt. Executive Engineer
PHE Sub Division
Nowshera

Executive Engineer
PHE Division
Nowshera

TECHNICAL REPORT

ACCORD OF ADMINISTRATIVE APPROVAL FOR WATER SUPPLY SCHEME GARAN

1. **Name of the Scheme** : Water Supply Scheme Garan
2. **Authority** : Government of Jammu & Kashmir
3. **Name of District** : Rajouri
4. **Name of Tehsil** : Nowshera
5. **Name of Constituency** : Kalakote
6. **Scope of the Scheme** : Percolation

S. No	Name of Panchayat	Name of village	Name of Habitatiion	Population 2001 AD	Present Pop. 2012 AD	Design Pop. 2027 AD
1.	Garan	Kanwan	Fafra	171 Souls	244 Souls	396 Souls
2.	Garan	Kanwan	Garan Bala	144 Souls	206 Souls	335 Souls
3.	Garan	Kanwan	Garan Kot	225 Souls	321 Souls	521 Souls
4.	Garan	Kanwan	Garan Pain	307 Souls	438 Souls	712 Souls
5.	Garan	Kanwan	Jattan Kot	125 Souls	178 Souls	289 Souls
6.	Garan	Kanwan	Karila	71 Souls	101 Souls	164 Souls
	Floating Population and New settlement				223 Souls	363 Souls
	Total				**1711 Souls**	**2780 Souls**

7. **Location** : Water supply scheme Garan is located near North eastern side of Nowshera town and is about 17 Km from Tehsil Head Quarter Nowshera. The population of the area is scattered and terrain hilly.

8. **History & Necessity** : Garan its adjoining habitations of of Fafra, Garan Bala, Garan Kot, Garan Pain, Jattan Kot and Karila are presently being supply water from spring source at Papi Nalla through lift scheme. The discharge of the spring well depletes considerably during peak summer season and public has to suffer for want of drinking water and moreover the habitation of Jattan kot

and Garan Pain doesn't have any pipe water supply and public of the area are repeatedly demanded water supply to the area. Hon'ble MLC Nowshera constituency have also desired for providing water supply to the area

8. **Water Requirement** : Designed population after 15 years i.e. 2027 AD @ 3.29% per year increase including floating population @ 15%=2780 souls

Present water requirement @ 09 GPD = 25020 gallons

Design water requirement after 15 years i.e.

2027 AD @ 09/GPD including 15% leakages = 28743 gallons

9. **Proposals** : To overcome the designed water requirement, it has been proposed to be construct a Percolation well at Doogani with an expected yield of about 25,000 gallons per day. It has been proposed to lift water for this scheme from Percolation well to the 10,000 Gallons Capacity Sump Tank. The water from the Sump Tank shall be lifted to newly proposed 10,000 Gallons capacity GSR at Jattan kot through a well designed Rising Main 80mm dia having a length of 800 mtrs. Moreover it has also been proposed to lift water from Percolation well to new proposed Ground Storage reservoir at Garan Pain through 80 mm dia Rising main line having a length of 1200mtr. The existing storage reservoir at Garan Bala is also proposed to be connected with the percolation well through 80mm rising main having a length of 1000 mts.The Sump Tank near Percolation weii is also proposed to be connected through gravity line 80mm dia 3200 mts in length from 20,000 Gallons Sump tank at Ghawan. The water than shall be supplied through proposed Ground Storage Reservoirs at Garan Pain, Garan Bala and Jattan Kote through well designed distribution system.Creation of electric sub-stations of 100 KVA capacities including laying of H.T lines and L.T line and near Pump Room

and extension of L.T line up to Percolation Well have also been kept in the project. Provision for construction of Pump room near percolation well have also been envisaged in the project. Provision for installation of pumping machinery including Standby at Percolation Well and Pump Room including upgradation of the machinery at existing pumping station at Papi Nallah have also been kept in the Project. Installation of Voltage Stabilizer to safeguard machinery from Voltage fluctuations and low voltage have also been kept in the project.

10. Estimated Cost : The total estimated cost works out to the tune of Rs. ~~190.08~~ 191.15 lacs

11.Time Of Completion : The scheme shall be completed within two years subject to availability of funds and key construction material well in time.

J.E.

Asstt. Executive Engineer
PHE Sub Division
Nowshera

Executive Engineer
PHE Division
Nowshera

GENERAL ABSTRACT OF COST FOR WATER SUPPLY SCHEME GARAN UNDER NRDWP

S. No.	Name of Work	Estimated Cost (Rs. In lacs)
1.	Cost for Construction of Percolation well at Garan. .	~~12.35~~ 14.92
2.	Cost for Construction of 10,000 Gallons Ground Service reservoir/ Sump Tank 2No's @ ~~Rs. 3.66~~ 3.65 (Each)	7.30 ~~7.32~~
3.	Cost for Construction of 5,000 Gallons Ground Storage Reservoir at Garan Pain.	2.47
4.	Cost for Construction of Pump room near Percolation well at Garan.	3.86 ~~3.57~~
5.	Cost for providing and laying of Rising mains	19.47
6.	Cost for laying of gravity main from Sump Tank Kanwan to Sump tank near Percolation well	17.27
7.	Cost for providing and laying of Distribution system	86.20 ~~86.42~~
8.	Cost for improvement to existing Rising Main and Distribution system	3.W ~~4.00~~
9.	Cost for improvement and repair to existing structures	~~3.00~~
10.	Cost for creation Electric Sub-station including laying of LT and HT lines and transformer near Pump Room.	2.50 5.50
11.	Cost for Providing and installation of Pumping machinery including standby at Percolation well and up gradation of machinery at existing pumping station	24.60
	Total	182.09 ~~186.24~~
	Add 2.5% work charge establishment and contingencies except item No. 11	~~4.04~~ 4.06
	G.Total	~~190.28~~ 191.15

Say 191.15 lacs
Say ~~190.08~~ Lacs

J.E.

Asstt. Executive Engineer
PHE Sub Division
Nowshera

Executive Engineer
PHE Division
Nowshera

Superintending Engineer,
Hydraulic-Circle,
H.Q. Rajouri.