

PUBLIC KEALTKI ENGINEERING
DEPARTMENT,

JAMMU

\$108.60 Kg

APPLICATION FOR ACCORD OF ADMINISTRATIVE
APPROVAL FOR AUGMENTATION OF WATER SUPPLY
FOR UPPER KULDABI UNDER WSS UPPER KULDABI

P.H.E. DIVISION, NOWSHERA DISTT. RAJOURI

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Government of Jammu & Kashmir Public Health Engineering Department Jammu

Sub: Accord of Administrative Approval.

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ORDER No: PHEJ/DB/288 of 2008
Dated: 2/6/2018

Administrative approval is hereby accorded to the Improvement, Augmentation & Extension of Water Supply Scheme Kuldabi for an amount of Rs. 108.60 lacs (Rupees One Crore Eight Lacs & Sixty Thousand only) under ARWSP MH-4215, subject to the following conditions:

- That the work mentioned above is not covered under any other 1. programme / Head for execution.
- That the Accord of Approval does not entitle the executing agency to 2. incur any expenditure in absence of release of funds.
- That the expenditure to be incurred against the AA shall be in 3. accordance with the standing procedure which besides other include fulfillment of all the codal formalities as required under rules.

That there shall be no deviation in amount of provision as contained 4.

No : PAETOB/1781-85 Dr. 06.06.208

Chief Engineer Public Health Engineering Department Jammut-

Copy to the:-

- Principal Secretary to Govt. PHE, I & FC Deptt. J&K Govt. New Sectt. Srinagar for information.
- Accountant General J&K Jammu for information. 3.
- Superintending Engineer Hydraulic Circle Rajouri for information & necessary action. 4.
- Executive Engineer PHE Division Nowshera for information and necessary action.
- Assistant Director P&S Direction Office for necessary action. 5.

PROFORMA

1. Name of scheme : Augmentation of water supply for

upper Kuldabi under WSS Upper

Kuldabi

2. Name of Distt. : Rajouri

3. Name of Tehsil : Sunderbani

4. Name of villages : Upper Kuldabi including new

settlements - 353-1c Slifted.

5. Present population 2007 AD: 1200 souls

6. Design population 2022 AD: 1680 souls

7. Source of Supply : Springs and Borewell

8. Type of Treatment : Chlorination

9. Per Capita Rate of Supply : 9 Gallons/capita/day

10. Type of scheme : Lift cum Gravity

11. Method of Distribution : Through PSPs

12 Estimated Cost : Ps 100 42 lace

13. Mode of maintenance

Departmentally

14. Time of completion

2 years

15. Peak Factor

2.25

16. Cost per capita

Designed population = Rs. 9118/-

Present population = Rs. 6513/-

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Assistant Executive Engineer P.H.E. Sub. Div.

Sunderbani

P.H.E. Division
Nowshera

SALIENT FEATURES

1. Name of scheme : Augmentation of water supply for

upper Kuldabi under WSS Upper

Kuldabi

Name of State : Jammu and Kashmir

3. Name of Distt. : Rajouri

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4. Name of Tehsil : Sunderbani

5. Name of Constituency : Nowshera

6. Type of Scheme : Lift cum Gravity

7. Type of source : Springs and Borewell

8. Scope of scheme : Upper Kuldabi including new

settlements

9. Present population 2007 AD: 1200 souls

10. Design population 2022 AD: 1680 souls

11. Capacity of Reservoir : Two reservoirs of 5,000 gallons

capacity each.

12. Present requirement of : 10800 GPD

water

13. Design requirement of : 18000 GPD

water

14. Peak Factor : 2.25

15. Estimated cost : Rs. 109.43 lacs

16. Cost per capita : Present : Rs. 9118.00

: Design: Rs. 6513.00

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A.F.

Assistant Executive Engineer
P.H.E. Sub. Div.
Sunderbani

P.H.E. Division
Nowshera

TECHNICAL REPORT

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Name of work : Augmentation of water supply for upper
 Kuldabi under WSS Upper Kuldabi

Authority : Govt. of Jammu and Kashmir through
 PHE Department

3. History & Necessity : The population of upper Kuldabi reside

Jhulla road-which is linked with

Sunderbani - Seri road at Bajabaien

on the right-left side of Dhok Baniyar

Chowk. The population of the said area

do not get adequate drinking water due

to inadequate sources. Also due to in-

flux of new settlement and present tur-

moil in the state the population of the

sad area has increased resulting in-

crease in the requirement of water sup-

ply. Natural calamity disaster i.e. Earth

quake occurring during last few years

has depleted the existing sources and

the adequate discharge required to feed

the said area of Upper Kuldabi from the

existing sources has decreased result-

ing in short fall of the water requirement

for which is to be augmented and ne-

cessitated to tap additional sources to

meet the shortfall.

So it has become necessary to go for additional sources to meet the short-fall occurred due to above cited reasons. Hence it has become necessary to conceive a new scheme which has been formulated on the following habitations.

| S. No. | Name of Village | Census Code | Pop. (2001) | Habitation to be covered under scheme | S. No. in Cap 99 Survey List | Status of Habitation | Present Population of the village | Present population under scheme | Designed Population 2120 |
|-----------|--------------------|----------------|-------------|---|---------------------------------|-------------------------|--|---------------------------------|--------------------------------|
| 1 | Kuldabi | 00490900 | 1090 | Upper Kuldabi | 353 | PC | 1247 | 1000 | 1400 |
| 2 | New Settlements | | | | | • | | 200 | 280 |
| | Total | | | | | 1200 | 1680 | | |

a) Present population

(as on 2007 AD) = 1200 souls

b) Present water

0

0

10800 GPD

requirement

c) Designed pop. after:

@ 40% increase = 1680 souls

15 yrs. i.e. 2022 AD

d) Designed water

15120 GPD

requirement

e) Add 15% above for

2268 GPD

losses due to leakages

Total

17388 or say 18000 GPD

The requirement of 18000 gallons of water shall be met out of the following sources:-

- i) Discharge from newly proposed springs= 15000 gallons
- ii) Expected yield from spring at Sofa =10000 gallons
- iii) Expected yield from Bore well =6500 gallons

Total = 18000 gallons

4. Proposals

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It has been proposed to construct 4 No. spring coverings. Two No. spring coverings at Kuldabi and the rest two No.s at lower Kuldabi. The water from the springs at Kuldabi shall be collected into a collection tank of 5000 gallons capacity proposed to be constructed near existing collection tank so as to reach the water supply to the population residing at tail end points. The water from proposed spring coverings at lower Kuldabi shall be supplied through newly proposed collection tank of 5000 gallons capacity to the left out population of Kuldabi.

It has also been proposed to construct a bore well to meet the requirement. The

water from bore well shall be collected in 10,000 gallons capacity sump tank proposed near bore well. The water from the sump tank shall be pumped to 20,000 gallons capacity GSR by laying a rising mains of 65 mm dia for a length of 2300 m. The water from Sofa spring has been proposed to collect in newly proposed sump tank near old sump tank. Water from this sump tank shall be pumped to newly proposed 10,000 gallons capacity GSr at Kuldabi and old 20,000 gallons capacity GSR. A pump room has been proposed near sump tank.

Time

1

The provision of pumping machinery alongwith standby unit alongwith voltage stabilizer of 100 KVA has been kept in the project. The provision for improvement for existing distribution pipe network system and improvement for existing rising main has been kept in the project as the population due to over loading system in pipe network is also not getting adequate water. Provision for land compensation, protection work and construction of B-wire fencing has also been kept in the

project.

5. Estimated Cost : The estimated cost of scheme works out

to be Rs. 109.42 lacs

6. Time of completion : The scheme shall be completed within

three years provided the material and

funds are made available.

J.E

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Assistant Executive Engineer
P.H.E. Sub. Div.
Sunderbani

Executive Engineer P.H.E. Division Nowshera

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(T.O.) to S.E.
Hydraulio Rajouri

Superinte Sing Engine of Hydraulic Circle

ABSTRACT OF COST

UPPER

| S. No. | Particulars | | |
|-----------|--|--------|--|
| 1 | Cost for construction of 2 No. sump tanks 10,000 gallons capacity each | 7.08 | |
| • | near Bore well and near spring Sofa including protection work | (de | |
| 2 | Cost for construction of 1 No. GSR 5000 gallons capacity at Kuldabi | 0.99 | |
| 3 | Cost for construction of 5000 gallons capacity collection tank at Kuldabi | -0.99 | |
| 4 | Cost for construction of 4 No. spring coverings at Kuldabi | 1.00 | |
| 5 | Cost for construction of 1 No. borewell at Dok Baniyar | 9.00 | |
| 6 | Cost for construction of 1 No. Chowkidar quarter cum pump room near | 1.50 | |
| 7 | bore well Cost for providing / laying of GI pipes for Rising Main & 97-44 10 K | 13.05 | |
| 8 | Cost for providing / laying of GI pipes for Distribution system | 30.14 | |
| 9 | Installation of electric sub-station 100 KVA at bore well | 9.00 | |
| 10 | Provision for land compensation | 2.00 | |
| 11 | Provision for Barbed wire fencing | 3.00 | |
| | Total | 77.75 | |
| | Add 2.5% work charges and contingencies | 1.94 | |
| | Grand Total (A) 79.73 | 79.69 | |
| Cost | for procurement and installation of pumping machinery | 29.73 | |
| | Net Total 108.64 | 109.42 | |

trol: Condara Juitonwa Provision bas been lift . St 1/08.60 15 per 59 p 2014 af us | Say Rs. 109.42 Lacs Stephen of won.

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Hydraulic Rajouri

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A.E.

Assistant Executive Engineer P.H.E. Sub. Div.

Sunderbani

P.H.E. Division Nowshera

Executive Engineer

Name of WSS

Augmentation of water supply for upper Kuldabi under WSS Upper Kuldabi

Certified that:-

- The proposed source of scheme is free from any dispute.
- 2. Discharge available is adequate and will cater the need of designed population proposed to be covered under the scheme.
- The source tapped will not adversely effect the water supply scheme 3. (In case the same has been tapped from the existing scheme).
- The scheme has been properly investigated and proposals are 4. vilable from techo-economic considerations.

Assistant Executive Engineer P.H.E. Sub. Div.

Sunderbani

Executive Engineer P.H.E. Division

Nowshera

ANNUAL FINANCIAL IMPLICATIONS

| S. No. | Particulars | Amount (in Rupees) | | |
|-----------|--|--------------------|--|--|
| (A) | Direct Charges | | | |
| 1 | 8 No. of pump operators @ Rs. 2170/month | 208320.00 | | |
| 2 | 3 No. T/cock @ Rs. 2170/month | 97200.00 | | |
| 3 | 2 No. Fitter @ Rs. 4500/month | 108000.00 | | |
| 5 | Bleaching powder and alum (LS) | 50000.00 | | |
| | Total (A) | 463520.00 | | |

| (B) | Indirect Charges | |
|-----|-------------------------------|------------|
| 1 | Interest @ 8% on capital cost | 875360.00 |
| 2 | Maintenance charges @ 2% | 218840.00 |
| 3 | Depreciation charges @ 2.5% | 273550.00 |
| | Total (B) | 1367750.00 |
| | Grand Total (A) + (B) | 1831270.00 |

Say Rs. 18.31 lacs

41

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Assistant Executive Engineer P.H.E. Sub. Div.

Sunderbani

Executive Engineer P.H.E. Division

Nowshera

Estimate for Procurement and Installation of Pumping machinery for WSS Upper Kuldabbi

| S. No. | Particulars | Rs. (in lacs) | |
|-----------|--|------------------|-----|
| 1 | Cost for procurement and installation of pumping machinery HCP unit of 5000 gallons 240 mt at Sofa with stand by | 8.00 | |
| 2 | Cost for procurement and installation of standby p/machinery for existing station | 4.00 | |
| 3 | Cost for procurement and installation of 2 No. voltage stabilizers 100 KVA one each for old and new pumping stations | 4.00 | |
| 4 | Cost for procurement and installation of 1 No. sumbersible pump (5000×41) (for Bore well) along with standby unit | 1120 | |
| 5 | Cost for procurement and installation of 1 No. voltage stabilizer 100 KVA for borewell | 2.00 | |
| 6 | Providing and installation of HCP pumping machinery 2500 | 9.00 | |
| | gallons / 230 for bore well along with stand by unit TOTAL | 29.00 | |
| | Add 2.5% above as work charge contingencies | -0.73 <i>O</i> 1 | . 7 |
| | Grand Total | 29.73 | |

Rs. 29.73 Lacs 20.91

28.91

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Nowshera

Executive Engineer P.H.E. Division (Mech.) Rajouri

Detailed estimate for providing and laying of Rising Main from Spring at Sofa to Proposed 5000 gallons capacity GSR for Upper Kuldabi under WSS Upper Kuldabi

| S. No. | Particulars | | Amount |
|-----------|--|---|-----------|
| A. | Cost of Material | | |
| | G.I. pipe 80 mm dia (B-Class) = 700 m @ Rs. 414/m | = | 289800.00 |
| | G.I. Pipe 80 mm dia (A-Class) = 75 m @ Rs. 346/m | = | 25950.00 |
| | Total | = | 315750.00 |
| | Add 5% for pipe specials | = | 15787.50 |
| | Grand Total | = | 331537.50 |
| В. | Labour Component | | |
| 1) | Earth work in bulk excavation in trenches for pipe, cables in all kinds of soils | | |
| | G.I. 80mm dia=1×775×0.80×0.80=496.00cum @ Rs. 56.30/cum | | 27924.80 |
| 2) | Laying and fitting of G.I. Pipes in trenches | | |
| | G.I. Pipe 80 mm dia = 700 m @ 16.40/m | = | 11480.00 |
| | G.I. Pipe 80 mm dia = 75 m @ 15.85/m | = | 1188.75 |
| 3) | Labour required for cutting and rethreading of pipes damaged during transportation and during carriage @ 1.5% of cost of pipes | = | 4736.25 |
| 4) | Carriage of pipes from divisional store to site of stacking site by Mechanical Transport average distance 55 km and 2 km by Head | | |
| | Load G.I. Pipe 80 mm dia = 775 m @ 6.81 kg/m = 5277 kg | | |
| | 5.277 MT @ Rs. 304.30/MT | = | 1605.79 |
| 5) | Watch and ward of pipe including carriage of pipe from stacking | = | 9472.50 |

| 6) | Labour required for fitting of pipes special like check valves, air valves @ 0.5% of cost of pipes | = | 1578.75 |
|----|--|---|-----------|
| 7) | Refilling of earth back into trenches after 90% of qty. vide item No. 1 i.e. 496 cum @ 90% = 446.40 cum @ 22/cum | = | 9820.80 |
| 8) | General site clearance including cutting of bushes, heavy boulders etc. $775 \times 1.00 \times 2 = 1550$ | | 1041.60 |
| | Total | = | 68849.24 |
| | Add 500% above on item No. 4 | = | 8028.96 |
| | Total | = | 76878.20 |
| | Net Total | = | 408415.70 |

Say 4.08 lacs

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P.H.E. Division
Nowshera

DRAWING SHOWING PLAN & CHOWKIDAR QUARTER ROOM BUILDING UNDER WSS UPPER KULDABI CROSS SECTION FOR CONSTRUCTION OF

