

**GOVERNMENT OF JAMMU AND KASHMIR**



**PUBLIC HEALTH ENGINEERING DEPARTMENT KASHMIR**

**DETAILED  
PROJECT REPORT**

*For*

**WATER SUPPLY SCHEME**

**AUGMENTATION BRINNAL**

**PUBLIC HEALTH ENGINEERING DIVISION QAZIGUND**

## SALIENT FEATURES OF WATER SUPPLY SCHEME AUGMENTATION BRINNAL

i)	Name of Scheme	Augmentation Brinnal
ii)	Constituency	Noorabad
iii)	Tehsil	Devsar
iv)	District	Kulgam
v)	Source of Scheme	Vesdraman Nallah
vi)	Type of Scheme	Gravity

### SCOPE OF SCHEME.

S.No	Name of Village	Census code	Status of Habitations	Population as per 2011 census	Present Population @ 3.26 %	Design population for next 30 years @ 3.26%
a)	Brinnal	004017	P.C	8043 @ 30% = 2413 ✓	2885 ✓	5706 ✓
b)	Wandar	-	NC	190	227 ✓	449 ✓
c)	Hapatward & Pratabpora	-	NC	188	225 ✓	445 ✓
TOTAL				2791	3337	6600 ✓

vii)	Rate of Supply	70 liters per capita per day
viii)	Requirement of water	4,62,000 liters ✓
ix)	Add 15 % losses	69,300 litres ✓
x)	Net Water Requirement	5,31,300 liters = 1,17,026 gallons (Say 1,20,000 Gallons) ✓
xi)	Half Day requirement	60000 gallons
xii)	Existing storage capacity	20,000 gallons
xiii)	Capacity of New S.R required	40,000 gallons ✓
xiv)	Capacity of F.Plant	1,20,000 gallons ✓
xv)	Estimated Cost	306.60 Lacs ✓
xvi)	Time for completion	Two working seasons ✓
xvii)	Mode of Execution	Kashmir PHE Department through PHE Div. Qzd. ✓

*Jr. Engineer*

*Asstt. Ex. Engineer*

*Executive Engineer*

*Superintending Engineer*

*Hydraulic Div.*

*HO: Anantnag*

## TECHNICAL REPORT FOR WATER SUPPLY SCHEME Augmentation Brinnal

**INTRODUCTION:** The Villages Brinnal, Wandar, Hapatward are situated at an average distance of about 15Kms from Qazigund Town. At present the village Brinnal is being fed from WSS Brinnal, which has been completed and commissioned long back and has exhausted its design period. The existing storage capacity is 0.20 lac gallons comprising of two service reservoirs of 0.10 lac gallons capacity each which are deteriorated and need to be renovated. Besides the habitations of Hapatward, Wandar and Pratabpora are the new outgrowths, which are yet to be provided piped water. Moreover the water supply scheme Brinnal is without any filtration unit, and the provision for same has been incorporated in this project.

**NECESSITY:** At present the water available is not equal to meet the needs of the people. The area is facing acute shortage of water due to various reasons which include less storage capacity, deteriorated pipe network, various uncovered pockets and some new outgrowths. More over the habitation of Wandar is located at higher contour, creating problems to the general people in collection of water, especially during winters. To address the above



water scarcity the following proposals are hereby put forward:-

**PROPOSALS:**

**1) Construction of intake chamber at head works:**

As the source of the scheme is to be taken from the Vesdraman Nallah, the intake chamber at head site is proposed to deload the sediments to entering into the raw water main pipe.

**2) Construction of 0.40 Lac Gallons Reservoir Capacity:**

To provide potable drinking water supply facility to the villages under the scope of the said scheme, it is proposed to construct 0.40 Lac Gallons Capacity at higher ups of village with its all allied necessary features as required.

**3) Construction of 1.20 lac gallon capacity slow sand Filtration plant**

To provide potable drinking water facilities to all the inhabitants of villages coming under the scope of the scheme, it is necessary to construct SSFP at Higher ups of village with all allied necessary features viz; under drainage system, filter media and sludge disposal arrangements and control/sluiice valves and necessary interconnection between the inflow/outflow systems. This filtration plant will also feed the existing service reservoirs.

**4) Construction of Chain Link Fencing:**

To safe guard the vital installations / assets of the scheme and in order to maintain the hygiene of the services, chain link fencing around the premises is required and has been envisaged in the proposals.

**5) Construction of Sluice Valve Chamber:**

To regulate the water supply and safeguard the vital sluice valves, provision for construction of sluice valve chambers is envisaged in the DPR.

**6) Construction of Chowkidar Quarter:**

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**6) Construction of Chowkidar Quarter:**

To keep watch and ward and to maintain security of the vital structures of the scheme like filtration plant, service reservoir etc a chowkidar quarter is proposed to be constructed.

**6) Renovation/ Jacketing of old SR's:**

To make the existing storage system effective and to remove the leakages in current service reservoirs, renovation by way of Rcc jacketing of structures is proposed.

**ESTIMATED COST:** The estimated cost of the scheme works out to 'Rs.306.60 Lacs as per the general abstract of cost enclosed.


**TIME OF COMPLETION:** The scheme is proposed to be completed within two working seasons provided funds are made available well in time.

**RECOMMENDATION:**

To supply safe and adequate water supply to beneficiaries of scheme, in fact yard stick while measuring the standard of living/development of area and to improve the health and protection from water born diseases, it is strongly recommended that the proposals of the said scheme may be accorded and funds be made available for implementation of the scheme.

  
Jr. Engineer

  
Asstt. Executive Engineer  
P.H.E. Sub Division Qazigund

  
Executive Engineer  
P.H.E. Division Qazigund

**GENERAL ABSTRACT OF COST FOR  
WATER SUPPLY SCHEME AUGMENTATION BRINNAL**

S. No	Item of Work	Amount (Lacs)
01.	Cost of pipes and pipe specials.	101.85
✓ 02.	Laying and fitting of pipes @ 40% vide item No. 01	40.74
03	Construction of Intake Chamber At Head site ( 03 No) (Two No. intake chambers required at head site of wss Lammer)	14.40
✓ 04	Construction of 0.40 Lac Gallons Capacity service reservoir	19.40
✓ 05	Construction of 1.20 lac Gallon capacity slow sand filtration plant.	50.79
✓ 06	Construction of 02 No sluice value chambers.	5.36
✓ 07	Construction of Chain Link Fencing.	15.00
✓ 08	Leveling & Dressing of Ground.	3.50
09	Land compensation 2 kanals @6 lacs/ kanal	12.00
✓ 10	Construction of Chowkidar Quarter	16.55
✓ 11	Construction of Retaining Wall at S.R and Filtration plant site	10.58
✓ 12	Renovation / Jacketting including laying of Dome to existing SR's(2 No)	9.72
13	Provision for Preparation of DPR's, Surveying, Soil Investigation and Structural Design. (Lump Sum)	2.00
	<b>Total</b>	<b>301.89</b>
	Add 2.5% for W. C. & Contingencies except for item 1 & 09	4.71
	<b>GRAND TOTAL</b>	<b>306.60</b>

*[Signature]*  
Jr. Engineer

*[Signature]*  
Assistant Executive Engineer  
P.H.E. Sub Division Qazigund

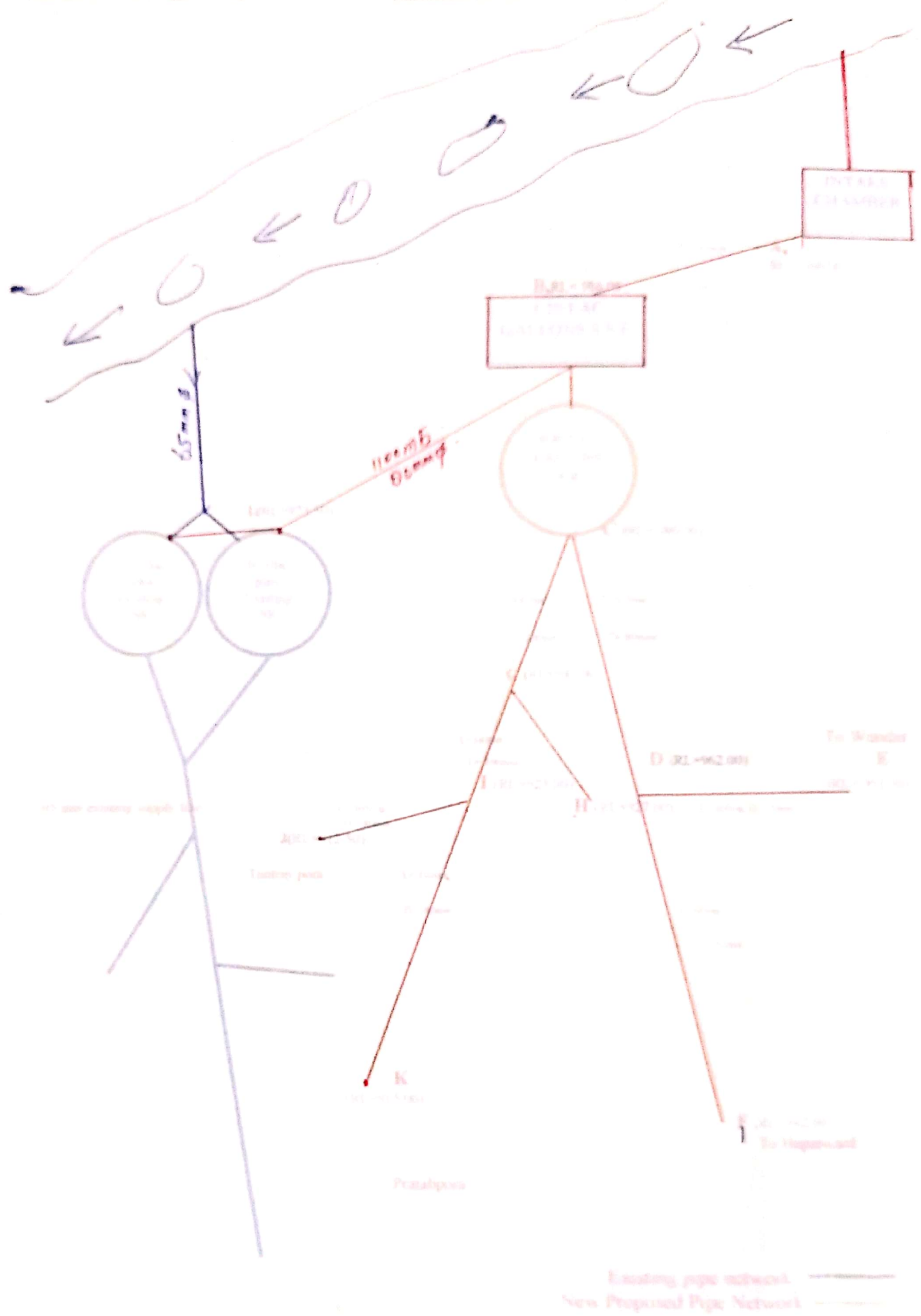
*[Signature]*  
Executive Engineer  
P.H.E. Division Qazigund

Superintending Engineer,  
Hydraulic Circle Anantnag

*[Signature]*  
Superintending Engineer,  
Hydraulic Circle,  
HQ: Anantnag.

*Accorded amt  
= 307.09 lacs*





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J.E

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A.E.E

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Ex. Engineer.  
*Handwritten signature*  
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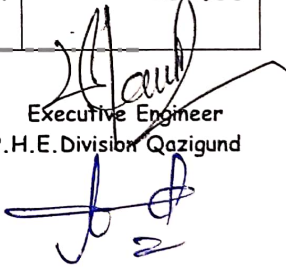
# ABSTRACT OF COST FOR PIPES & PIPE SPECIALS FOR WATER SUPPLY SCHEME Wandar Brinal

S. No.	Description of Pipes	Unit	Quantity	Rate (Rs/Mtr.)	Amount (In Lacs)
1.	150 mm $\phi$ D I	RM	2700	1,252.00	33.80
2.	100 mm $\phi$ G I	RM	2900	685.00	19.87
3.	80 mm $\phi$ G I	RM	5700	485.00	27.64
4.	65 mm $\phi$ G I	RM	1500	410.00	6.15
5.	50 mm $\phi$ G I	RM	3000	295.00	8.85
6.	40 mm $\phi$ G I	RM	2100	235.00	4.94
5.	25 mm $\phi$ G I	RM	2000	150.00	3.00
6.	20 mm $\phi$ G I	RM	2500	110.00	2.75
Total					97.00
Add 5% for Pipe Specials					4.85
Grand Total					101.85

  
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