



GOVERNMENT OF JAMMU & KASHMIR

Chief Minister's Monitoring Cell

Monitoring of Developmental Projects in J&K

**PHYSICAL VERIFICATION REPORT OF
Water Supply Scheme Baderwah under UIDSSMT**



By Under Secretary,
CM's Monitoring Cell.

Water Supply Scheme Bhaderwah under UIDSSMT

A. Project Details:

1	Name of the scheme	<i>Water Supply Scheme Bhaderwah under UIDSSMT</i>
2	Location	<i>Bhaderwah Town Latitude 32 ° – 59' Longitude 75° - 45' Altitude 1600-1800 mtrs</i>
3	Executing agency	<i>PHE, Division Doda</i>
4	Physical progress Financial progress	<i>Around 50%</i> <i>Around 50%</i>
5	Source	<i>Nallah source: Neeru Nallah for Zone I Halyan Nallah (Puneja Nallah) for Zone II Banjilla Nallah for Zone III Discharge: Halyan Nallah 06 cusecs (Minimum) Neeru Nallah 20 cusecs (Minimum) Banjilla Nallah 03 cusecs (Maximum)</i>
6	Population	<i>Local- population 2001- 10516 souls 2006- 11631 2016- 13871</i>

7	Rate of water supply	<p>a) existing : 10-20 Liters per capita per day</p> <p>b) proposed: i) 135 LPCD for 90% of population</p> <p>ii) 40 LPCD for 10% of population</p> <p>iii) 25 LPCD for 15% floating population of basic.</p> <p>iv) & 15 system losses</p>
8	Design demand	<p>Intermediate 2016 AD= 2001.92 (2.001 Mld)</p> <p>Ultimate 2034 AD = 3673 Kld (3.673 Mld)</p>
9	Type of scheme	<p>Gravity</p> <p>Three no raw water mains form different source are proposed for different phase.</p>
<i>Source: PHE Division -Doda</i>		

B. Basic information:

Water Source: There are five perennial nalahs flowing nearby and through the town namely Neeru Nallah (minimum discharge 20 cusecs), Basti Nallah (Min discharge 08 cusecs) Halyan Nallah (Min discharge 06 cusecs), Banjala Nallah and Chaka Nallah with minimum 03 cusecs each. The water of these nalalhs also meet the irrigation requirement of the area. The requirement of water for irrigation purpose is only for Kharief cropping seasons when discharge in these nallahs is large enough. As such tapping of these sources may be enough to meet the growing requirements of water supply in the town. The Bhaderwah town is segregated naturally in to three zones with zone I between Neeru and Halyan nallah, Zone II between Halyan Nallah and

<i>Total</i>	<i>529.90</i>	<i>527.00</i>
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***C. General Abstract of cost for augmentation of Water Supply Scheme,
Bhaderwah Town under UIDSSMT***

<i>S. No</i>	<i>Particulars of items as per project</i>	<i>Amount (` in lacs)</i>	<i>Description of work executed upto ending 05/2011</i>	<i>Amount (` in lacs)</i>	<i>Remarks</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
1	Land acquisition: Acquisition of land for intake structures plain sedimentation tank, filtration plants (Sub divisional office), Reservoirs, Chowkidar & operator	30.00	Land acquired for filtration plant at Halyan Chinote	-	Acquired under ARWSP at Gagah & Kahi only.
2	Intake works: cost of intake structure of Neeru Nallah source for Zone-I and at Banjala Nallah for Zone- III	10.26	Work in progress	-	Payment yet to be made
3	Treatment works: cost of construction of plain sedimentation tank at Banjala Nallah for Zone – III Halyan Nallah for Zone II and Neeru Nallah for Zone - I	11.67	Const. of plain sed/tanks at Neeru Nallah 01 No. and at Halyan Nallah 01 No. completed and at Banjala Nallah in progress.	8.900	
4	Raw water Gravity mains: cost of laying gravity mains from Neeru Nallah, Banjala Nallah and Halyan Nallah	192.24	Cost for laying & fitting of gravity main from Neeru Nallah (partially) & Gravity main from Banjala Nallah & Halyan Nallah, D I Pipes Banjala Nallah 100 mm = 1690 mtrs & Halyan Nallah 200mm = 2190 & 150mm = 4200mtrs.	196.210	Including cost of pipes
5	Provision for const. of protection work to existing new gravity mains ay Halyan nallah/Neeru Nallah and Banjala nallah	16.95	Work in progress.	8.660	
6	Cost of re-alignment of gravity main for water treatment plant at kahi to service reservoir at Qilla Mohalla	19.23	Not taken up	-	
7	Cost for laying & fitting of D.I pipes 200 mm for replacement old smaller dia G.I pipes from filtration plant Gagah to cinema hall.	19.57	Work completed	19.000	

8	Distribution system: Augmentation of water distribution system to Bhaderwah town.	344.15	Work in progress	235.350	
9	Cost for const., of valve zones and stop chambers.	1.82	100% completed	1.820	
10	Cost for const. of 100 Nos public stand posts	7.02	Not taken up		
11	Repairs of road and lane likely to be damaged during laying of distribution system	4.79	100% completed	3.000	
12	Cost for construction of 02 Nos. 50000 gallons ground service reservoir for Zone – I, Zone – II and 10000 Gallons Zone- III	12.22	Work completed	11.770	
13	Cost for const. of approach road upto filtration plant Gagal and inspection road along gravity main upto source 2300 mtrs	144.30			Not required
14	Cost for const. of operator quarter 01 No. each ay Gagal, Kahi, Banjala & Qilla Mohalla 4.49 X 4	10.22	Cost for const. of operator quarter at kahi in progress	1.000	
15	Cost for providing and fixing fencing around intake structure, filtration plant, service reservoir & Washout	15.94	Cost for const of fencing at kahi completed, washout drain at Gagal completed.	1.000	
16	Cost for const. of AEE/JE residential quarter 02 Nos	26.67	Not taken up	-	
17	Cost for const. of Sub Divisional Office-cum-store at Gagal.	13.93	Not taken up	-	Payment not given yet.
18.	Estimate for providing power supply to new Filtration Plant at Gagal.	2.88	Completed	0.860	
19.	Cost for construction of Washout Drain at Gagal Filtration Plant.	8.79	Completed	1.000	
20.	Development of lawn at Filtration Plant Kahi, Gagal & Service Reservoir Qilla 3x1.91	7.14	Leveling of Lawn at Gagal completed	-	
21.	Cost for construction of Pipe chamber along with Lane 2.90x40	166.32			Not required
22.	Replacement/Setting right of Old Distribution System	26.00	Work in progress		
23.	Cost for construction of RSFP 10000 GPH Capacity at Dharmakote & 5000 GPH Capacity in Zone-III at Halyan	42.07	Work in progress	-	
24.	Cost of construction of R/Wall at Old Rapid Sand Filtration Plant complex	7.61	Completed	7.000	

	Kahi.				
25.	Construction of Nallah crossing through Bed of Haloon Nallah.	1.88	Completed	1.880	
26.	Misc. expenditure A/C Hire Charges	5.50	Hire charges for carriage of material viz pipes, cement, steel & B.A. Wire crates.	5.500	
	Total	1149.17		506.110	
	Add 3% for W.C. Establishment and Contingencies expect item No. 17 and i.e on ` 2553.38	(+) 34.31	Strengthening of Gravity mains Neeru Nallah & Halyan Nallah.	20.89	
	G. Total	1183.48		527.000	

D. Problem areas:

1. *Faulty DPR:* An overview of DPR followed by field visit of the project clearly indicates that the DPR has been drafted very casually and without proper survey. The general abstract of DPR contains at least two major components viz-a-viz construction of pipe chambers along lane with an estimated cost of ` 166.32 lacs and item No 13 in 'C' with an estimated cost of ` 144.30 lacs respectively, which are not feasible/required for execution. This was also reiterated by the site engineers. These two components are reducing the estimated cost of the project by around, 25%. This is a serious concern as the cost of these components in this project and similar unnoticed errors in other projects could have been utilized in some fresh developmental projects.
2. That no required efforts have been put up in the making of DPR portrait a very bad picture about the functioning of this engineering wing. However this problem has been repeatedly observed during my inspection in almost all developmental projects with variation in %age of error. The DPR are seldom made with inclusive requirements of projects. This may be also due to lack of expertise and capacity to make DPR's among the engineers.
3. The manner and way for creating DPR of this project has also been blind to schemes/projects under execution which has led to chaotic situation at various sites in the project e.g. the service reservoir and sedimentation tank in Zone- I at take off point (Neeru Nallah) is part of this DPR whereas these components were already being constructed in some other scheme (according to engineers) at the time of making of DPR. This has led to duplicacy of few components with funding from different heads for same scheme/project.
4. *Flow Process Mechanism:* As observed in earlier inspections, there is no PERT Chart for execution of the project. At some places the pipes have

been laid without construction of filtration plant/service reservoir, therefore no exhibition of impact is seen on ground.

5. *Awareness and branding:* It was observed that there is no branding of scheme under execution. The branding helps to increase the psychological receptivity among the citizens about the functioning of the Govt; It was also observed that the small component of the project like construction of public stand was neglected which for that matter may also have the impact among the people.

On spot instructions were given to prioritize the construction of public stand with proper branding. It was also instructed to write the information on constructed sedimentation tank/service room, filter plant etc about the project.

E. Recommendations:

1. A policy at state level to build and augment the capacity and expertise of engineers, on ground, responsible for making DPR is the need of the hour. In this regard all engineering departments viz-a-viz R&B, PDD & PHE may be requested to submit a comprehensive proposal for building capacity and expertise of engineers for making DPRs. The proposal may include the training module, identification of institution and source of funding.
2. It is recommended to request Administrative department PHE to fix the responsibility on Engineers who are involved in making of DPR and investigate the reason for casual approach of making DPR which has involved unnecessary components in DPR which were in no way connected to this project and have also been as blind to ongoing schemes at the time of preparation of DPR. The department may fix the responsibility on erring official followed by initiating action.

3. PHE Deptt; may be requested to customize the project envisaging the future requirements of water supply scheme in Bhaderwah town. They may also be requested to make a PERT Chart in this project and other similar projects in a manner which will ensure the implementation/execution of various components of the projects which are connected to results/desired goals on ground.

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