

Sugave Water Scheme Report

Konkan Gyanpeeth College of Engineering, Karjat

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Introduction

The Sugave rural regional pipeline scheme was proposed by Maharashtra Jeevan Pradhikaran (MJP) to provide drinking water to 15 habitations in Karjat taluka, Raigad district, Maharashtra. The scheme was sanctioned in 1998 with the original cost of Rs 234 lakhs and was designed to provide 55 litres per capita per day (LPCD) of water to a design population of 8835 souls (year 2030). The source of water for this scheme is the perennial Pej River. However, as of April 2012, the scheme remains incomplete and is yet to be handed over by MJP to the people.

A report on the analysis of the Sugave scheme was published by CTARA, IIT Bombay in September 2011 (<http://www.cse.iitb.ac.in/~sohoni/AS-MVS.pdf>). A response to this report was submitted by MJP (http://ctara.iitb.ac.in/tdcc/MJP_CTARA_Report.zip). Subsequent to this, a stakeholders' day was conducted at IIT Bombay in November 2011 where stakeholders such as sarpanch and villagers from the Borivali grampanchayat (the largest beneficiary of the scheme), Disha Kendra (NGO), MJP, CEO of Raigad district, Secretary rural development as well as Minister of rural development (GoM) were present. Minutes of this meeting are available here: http://ctara.iitb.ac.in/tdcc/2nd%20Stakeholders%20day_minutes%20of%20meeting.pdf. In December 2011, another report was submitted by CTARA IIT Bombay to MJP after field measurements and analysis of the Naldhe ESR elevation.

In March 2012, at the request of CTARA IIT Bombay, faculty from Konkan Gyanpeeth Engineering College, Karjat took the initiative of studying the current situation of the Sugave scheme and submitting an updated report. This report includes the survey done by Mr. P.M.Bhoir and Mr. A. M. Dagade of Konkan Gyanpeeth College of Engineering, Karjat on 22nd March 2012 and also with contractor's fellow on 24th March 2012.

Survey Report

During this survey we visited 14 villages under Sugave multi-village drinking water scheme to assess current status of water.

Antrad t Need, Dharachiwadi and Ramachiwadi





Antrad t Need



Dharachiwadi

Antrad t Need is currently having four standposts. One standpost having four taps and another stand-post having three taps installed earlier, remaining two standpost are having two taps recently installed, **Dharachiwadi** has three standposts, each stands post having two taps. **Ramachiwadi** has three standposts, each standpost having two taps having three standposts. These numbers of taps installed in the villages are sufficient to fulfill their daily water requirement of villagers.

Water supply timing to these villages is fluctuating between 8:00am to 9:00a.m. Water running time from taps is approximately one hour. Villagers are happy with the current water scheme.

Dharachiwadi people gave one suggestion that their shall be one connection to water storage tank installed near primary school of wadi having approximate capacity 2000 Liter so that they can use that water anytime when they need.

Before installation of these taps the villagers were using water from the other sources i.e.

Antrad t need people has 2 well and 2 bore wells , **Dharachiwadi** has 2 wells and **Ramachiwadi** has 1 well along with 2 bore wells, but after installation of new standpost there no such need to use that other sources.



Ramachiwadi

Gudvan, Gudvanwadi, Borivali



Gudvan



Gudvanwadi

Gudvan village does not have a standpost for the scheme. A 15000 litre tank has been constructed on the outskirts of the village near lordShiva temple which is filled by a pipe from the scheme. Waterflows from the pipe till up to fill up the tank. Water from this tank is only used for household purpose. Drinking water is provided by a borewell in Borivali. In Gudvan construction of new standpost is in progress and according to contractor this work will finish by next month.

Gudvanwadi is situated on a higher ground so for this reason water is pumped from the sump which is just outside of Gudvan and is pumped from this sump into a sintex tank which has storage capacity of 4000 litres but this tank is not fully filled because the water pressure is not proper to fill the tank. There is a problem with valve due to which water may not rise up to fill the tank. Construction of storage tank having capacity of approximately 10000 litre is completed and this tank is constructed near the sintex tank, According to villagers the water comes after every 2 days of span. Villagers totally depend upon this scheme water.

Borivali



Borivali has 11 standposts out of which 9 standpost have 2 taps and 2 standpost having 1 tap. The village has got three borewells of which two are public while one is private. It also has two public wells.

The time of water supply is fluctuating between 10:00 a.m. to 11:00 a.m. in Borivali And in Gudvan water supplying timing is same but water supplied is sufficient to full the tank .In Gudvanwadi water supplies between 11:00 a.m. to 12:00 p.m. because water first comes in sump tank then after filling the sump tank this water is supplied in Gudvanwadi.

Water supplied to Borivali and Gudvan should be from Borivali ESR having capacity of 102000 liter. During our survey we noticed that water was not supplied from that ESR. According to contractor's person water is supplied to Gudvan and Borivali by MBR because there was some technical problem on 21st March 2012.

We contacted Contractor Mr. Chauhan on 30th April 2012 he told that now water is supplied from Borivali ESR to Gudvan and Borivali village but this was not physically verified.

Borivali people are more satisfied with this scheme compared to Gudvanwadi because though Gudvanwadi people have 2000 litre water storage tank but they did not get proper benefit of the scheme.

Saraiwadi



Saraiwadi has 4 standpost with two taps each. Water supply timing to these village is fluctuating between 3:00 p.m. to 4:00 p.m. and water running period from this taps is approximately one

hour, Saraiwadi is placed on higher ground hence water flow is reduced from first stand post to last stand post or pressure is uneven at all standposts according to villagers there should be proper arrangement to solve this problem.

The village has 1 well and 1 borewell as other sources. People are not satisfied with this scheme according to them water timing is not proper also pressure is not sufficient to fulfill their daily water need especially last stand post which is situated much higher than the other. Village people who use that stand post suffer a lot because of this reason.

Pingalewadi



Pingalewadi has 4 standpost and having 2 taps on each, water supply timing to this village is fluctuating between 4: 00 p.m. to 5:00 p.m. and water running period from this tap is approximately 1 hour. This village has 1 well and 1 borewell as other source of water.

Villagers are satisfied with this scheme but according to them water running period should be more than 1 hour.

Naldhewadi, Lobhyachiwadi



Naldhewadi

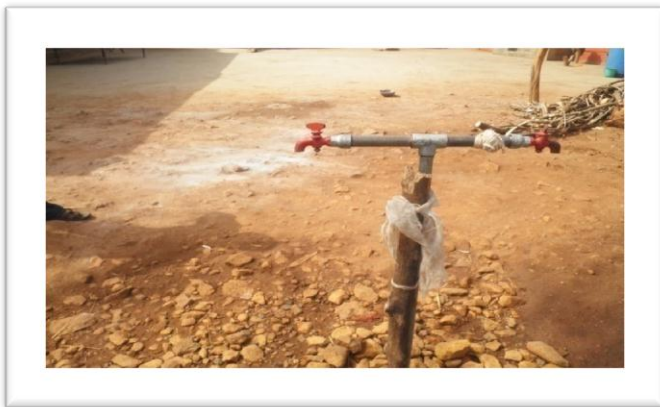
Now at Naldhewadi 3 standposts are installed as per scheme, each stand post having 2 taps but still water supply is not given to these stand posts. According to contractor's person the supply line is ok, and he will start the water supply from 26th March 2012 to the Naldhewadi village. At Lobhyachiwadi, the condition is worse than Naldhewadi, there is not a single stand post installed till date, the supply line is under construction. Both Naldhewadi and Lobhyachiwadi villagers are not happy with Sugave water scheme till date.

So both Naldhewadi and Lobhyachiwadi villagers are using water supplied by **Patraj panchayat** scheme, they have to pay rupees 30 per home per month for the water supply under this scheme. The water supply from the panchayat is now alternate day basis, each day water running time is approximately two hours.

Naldhe, Sugave



Naldhe



Sugave

Naldhe has 4 standposts and 2 taps each also **Sugave** has 10 standpost and having 2 taps each, water supply timing to these villages is fluctuating between 4: 00 p.m. to 5:00 p.m. and water running period from the tap is approximately 2 hour. Naldhe has 2 wells and 2 borewells and Sugave has 1 well and 1 borewell as other source of water. Villagers are quite satisfied with the scheme.

The scheme does not currently provide water to **Anjap, Antrad t waredi** and **Kalyachiwadi**. Hence these sites were not visited in the survey.

Summary of Sugave water supply scheme

Name of Village	No. of stand posts in March 2012	No. of taps	Timing of water coming	Period of running water from tap	No. of stand posts in Sept 2011	Any other sources of water
Antrad-t-need	4	1*4,2*2,1*3	08:00-09:00am (Fluctuating)	1 hour approx.	2	1 well, 2 borewell
Dharachiwadi	3	3*2	08:00-09:00am (Fluctuating)	1 hour approx.	1	2 wells
Ramachiwadi	3	3*2	08:00-09:00am (Fluctuating)	1 hour approx.	1	
Gudwan	-	-	04:00pm upto full the tank	-	-	1 well, 1 borewell, villagers go to Borivali borewell to fetch drinking water
Gudvanwadi	-	-	11:00am-12:00pm (Fluctuating)	1 hour approx.	-	2 wells, 1 boring and 1 check dam
Borivali	11	9*2,2*1	10:00am-11:00am	1 hour approx.	2	2 wells, 1 borewell
Naldhe	4	4*2	04:00pm-05:00pm (Fluctuating)	1 hour approx.	1	2 wells, 2 borewell
Pinglewadi	4	4*2	04:00pm-05:00pm (Fluctuating)	1 hour approx.	1	1 well
Sugave	8,2 is in progress	8*2	04:00pm-05:00pm (Fluctuating)	2 hour approx.	0	2 wells, many borewell
Saraiwadi	4	4*2	03:00pm-04:00pm (Fluctuating)	1 hour approx.	1	1 well (a hole dug up in the Shilar river)
Naldhewadi	2,1 is in progress	2*2	No supply from Sugave scheme. Water used by this hamlet is from Patraj panchayat scheme		2	2 wells (1 of which is a hole in the Shilar river), 2 borewell, standposts of private water scheme (shared with Lobhyachiwadi) that draws from a well
Lobhyachiwadi	-	-	No supply from Sugave scheme. Water used by this hamlet is from Patraj panchayat scheme		-	2 wells, 2 borewell, standposts of private water scheme (shared with Naldhewadi) that draws

Note:- 2*2 means 2 standposts*2 taps. Also note that scheme does not provide water to Anjap, Antrad-t-wardi and Kalyachiwadi and so these are excluded from the table above.

Comparison of MJP response (November 2011) and our survey report (March 2012)

Sr. No.	Reference	MJP'S Response on Nov 2011	Current Status as per March 2012	Work Completed or Not	
				Yes	No
1	Page 1, item 4	As per M.J.P. report Water treatment plant is in progress under R.C.C. due date to finish this work was December 2011	As per survey performed by us water treatment plant is unfinished and the work is stopped till date	--	No
2	Page 1,item 1 Page 4,Table 3 Page 10,item 2,3	ESR at Naldhe: According to MJP work would be completed before December 2011	ESR is incomplete and work has stopped	--	No
3	Page 2,item 1	Water treatment plant is yet to be constructed so T.C.L. powder is provided for water purification under this MJP scheme	Some of the villages like Gudvanwadi Not get that T.C.L. powder regularly	Yes	--
4	Page 6,item 2 Page 10,item 1	As per M.J.P. whenever Naldhe E.S.R. would be completed then all wadis are supplied with water at constant pressure	Pressure gets reduced at elevated area, Since dead line for completion of Naldhe E.S.R. was December 2011, ESR is incomplete and work has stopped due to this water supplied to all wadis is from Anjap MBR.	--	No
5	Page 12 ,item 1	According to M.J.P. report Construction of New standpost will be completed as per Guideline suggested by	Construction of New standpost is completed at decided location of	Yes	

		Grampanchayat and all standpost will be allocated at pre decided location suggested by Grampanchayat	Grampanchayat		
6	Page 4,item2	proposed new pipeline for Lobhyachiwadi and Gudvanwadi under the scheme	--	Yes??	
7	Page 5,Table 4	New pipeline for Anjap,Antrat- t –waradi as per MJP the respected Grampanchayat not yet contacted to MJP for this reason sanction scheme is not provided	Water is not provided under this scheme		
8	Page 4,Table3	Arrangement of electricity for pumping of water, As per M.J.P. report proposal of electricity supply was send to M.S.E.B. on 27.09.2011	At Gudvanwadi water is pump through sump tank and its drawn by generator and supplied to same		No
9	Page 10,item 1	According to MJP report water is supplied with proper pressure	At elevated areas water pressure is reduced		No
10	Page 3,item 2 Page 12,Para.2	According to MJP there has been delay for scheme because of Unavailability of fund there has been no contact with higher authority.	Due to unavailability of fund the proposed work under this scheme has been stopped		No