

Maximizing the benefit by revival, mordenisation  
and rejuvenation of water harvesting sturcture  
(check Dam) in Dahod District of Gujarat

Lukhawada Check dam across River hadaf, Taluka :  
Limkheda

Funded by :  
Gujarat State Seed Corporation Ltd.,

Implemented by  
Sadguru Foundation-Dahod



### Project Summary

<b>Project Title</b>	Financial support for maximizing the benefit by revival, modernization and rejuvenation of water harvesting structures (Check dams) in Dahod district of Gujarat		
<b>Vertical</b>	Skilling for Livelihood	<b>Project Location</b>	Lukhawada Check dam in limkheda taluka of Dahod District
<b>Project Status</b>	Completed	<b>Date of project Inception</b>	01-05-2017
<b>Name of Supporting Partner</b>	Gujarat State Seed Corporation Ltd.	<b>Name of Implementation Partner</b>	N.M.Sadguru Water and Development Foundation, Dahod.
<b>Total cost of the project</b>	Rs.2254380.00/-	<b>Complete project period (in years)</b>	15-06-2017
<b>Report Submission Date</b>	03/07/2017		
<b>Report</b>	1.GCSRA's Technical visit report before the repairing work 2.Ongoing Work Photographs 3. Completed Work Photographs 4. GCSRA's Project officer visit report		

### Project Brief (in 100 words)

Lukhawada Check dam is constructed in year 1997-98 with financial support from DRDA (JRY-III Scheme), and it require renovation or modernization since numbers of floods have been passing over the structures over the past several years leading to some structural damages and erosions of soil. Because of robust design and quality work done by the Sadguru Foundation's staff, structure is always intact but some damages in apron and embankment occurs which was require immediate attention. On lukhawada check dam 3 lift irrigation shceme are existing and nearly 1000 acres of land is getting irrigation in rabi (winter) seasons and partial irrigation in summer too.

### Outcomes and Impact of Project

<b>Framework</b>	
<b>Activities</b>	Water Storage of 20.00mcft created because of this irrigation in 1000 acres in Rabi (Winter) will be possible from 3 Lift irrigation schemes. Because of availability of water summer crop irrigation is possible.
<b>Outputs</b>	Taking of two season's crop (winter and summer). Increasing in yield of crop. Improvement in economic and social conditions. Drinking water availability, Recharge of aquifers.

### Technical Visit Report :

GCSRA's Senior Technical Consultant, Shri A.L.Patel had visited this check dams at Lukhawada village, Dahod. Ms. Sunita Chaudhary & Mr. samir were present from the Sadguru Foundation Team.

The purpose of visit was to review the requirement of revival/repair of Lukhawada Check Dam, Ta. Limkheda, Dist. Dahod.

### **Introduction:**

The Lukhawada Check Dam was constructed in the year 1998. It was funded by DRDA and implemented by Sadguru Foundation.

This check dam is constructed on the river Hadaf. As such there are three check dams constructed on this river at a distance of about 3 KM between each. These Dams are viz. Moti Bandibar Dam, Lukhawada Dam and Dhabudi Dam. Due to passing over of flood water during heavy rain fall in the past over these Dams some typical structural damages has occurred on all these three Dams.

Out of these three Dams, proposal is for revival/repair of **LUKHAWADA CHECK DAM** on river Hadaf. ( Image of Dam attached herewith).

### **Repair Required.**

Major repair required is of horizontal Apron, Chambers erosion, embankment strengthening (refilling, pitching, copying) etc. The repair cost would be about **Rs.22.50 Lac.**

### **Benefit of Repair:**

- 1) Check Dam water is utilized for irrigation by Tribal Community by way of common lift irrigation schemes and through individual portable pump sets. Due to Check Dam there is a assured irrigation for farmers in two seasons (Kharif and Ravi). It has resulted reducing migration of community in Ravi season. It can also further help in taking summer crop by farmers.
- 2) Irrigation area covered by this Dam water is about 1,000 Acres with beneficiaries of about 500 households.

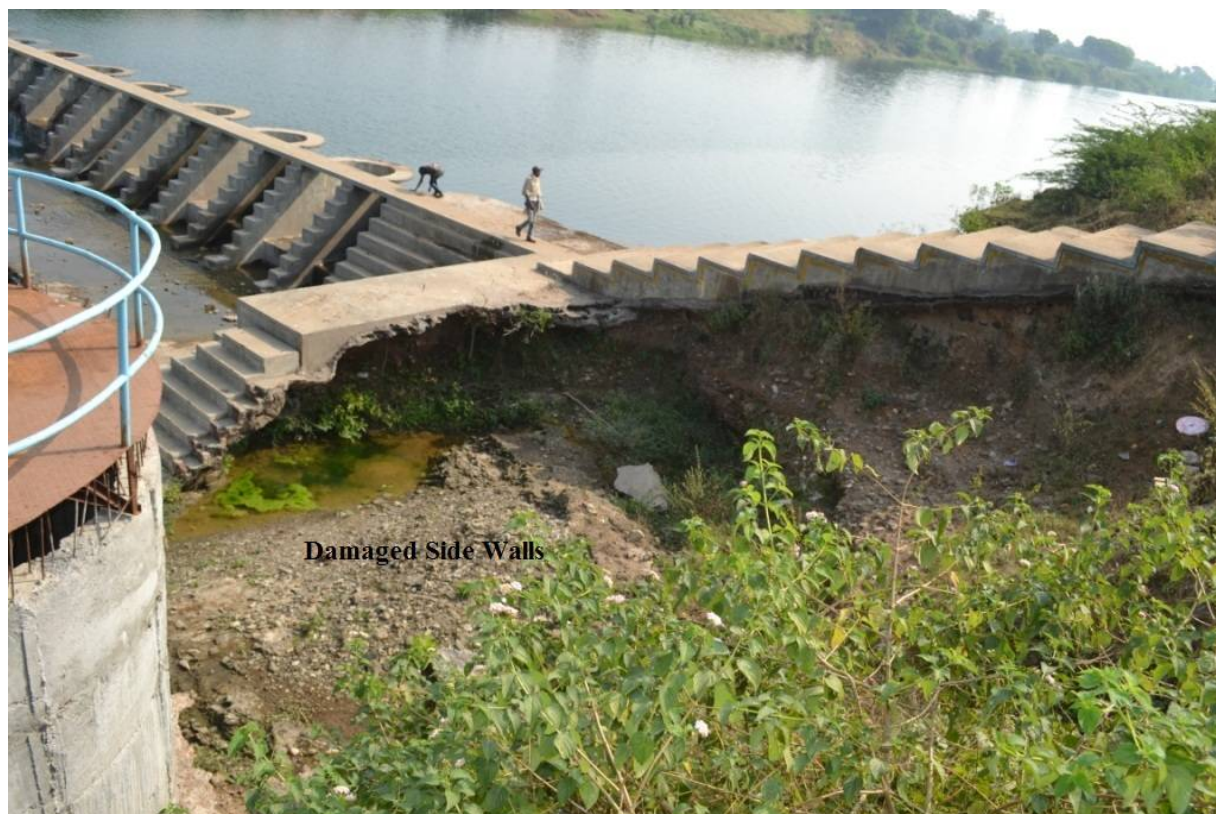
### **Recommendation:**

- 1) To avoid further damages to check Dam and to keep it healthy for maximizing future irrigation requirement financial support may be provided to Sadguru Foundation for repair of Lukhawada Check Dam.
- 2) Area of agriculture land is undulated and enough quantum of water available for irrigation. Thus drip irrigation is not much feasible and not recommended.
- 3) Apron top cover RCC shall be considered as of M-20 grade instead of M-15 grade for better strength.

**Pre Project Photographs**







Ongoing Construction Work:

































Field Visit by GCSRA Team:





