

## Success Story based on Distribution of Diesel/ Electric Pump Sets under RKVY Madhya Pradesh

1. **Title:-** "Creating Resources for Increasing Irrigated area through lifting devices" - Multipurpose Resource to farmer.
2. **Category:-** Agriculture
3. **Background / Challenges:-** The geographical area of Madhya Pradesh is 308.252 thousand sq. kilometer which is one of the second largest state in the country. The whole state is full of land degradation including gullies and ravenous land. The major rivers which flows from the state are Narmada, Betwa, Dhasan, Ken, Son , Shipra and Jamni. The M.P. state was formed on 1st November 1956, till then every effort has been made to increase the irrigated area of the state. Normally irrigation is taken in to account by way of canal irrigation, tube well, and dug well. The other source of irrigation which farmers adopt are by virtue of lifting water either from perennial Nala or river. From very beginning the diesel pump and electric pump are the main source of lifting water from the water source. The data of land records show that there are various schemes under department of FW&AD and Rural development as well , from which the pump sets are being given to the farmers on subsidy. The number of diesel and electric pump sets distributed are as given below :-



Use of Lifting Devices in the state				
S. No	Year	Diesel Pump set Distributed	Electrical pump sets distributed	Schemes
1	1999-00	194662	11,75,625	Schemes other than RKVY
2	2000-01	193328	1095147	
3	2001-02	190415	1121257	
4	2002-03	218076	1158512	
5	2003-04	348334	1411640	
6	2004-05	358373	1435975	
7	2005-06	322918	1459184	
8	2006-07	328188	1493099	
9	2007-08	325211	1552159	
10	2008-09	343500	1551635	
		1074	0	From RKVY
11	2009-10	10000	0	
12	2010-11	12400	0	
13	2011-12	19010	0	
14	2012-13	21630	0	
15	2013-14	0	0	
16	2014-15	10232	0	
17	2015-16	8168	0	
	Total	29,05,519	1,22,78,608	

It is understood that if the source of water is perennial then the 5HP diesel pump can irrigate at least 3 to 5 Ha of land. With this speculation 2905519 diesel pump can irrigate additional approximately 14.5Lakh Ha to 29 Lakh Ha , but this area has not been taken in assured irrigation .

- 4. Initiative:-** The RKVY was started in the state in the year 2007-08. till than the projects for the distribution of Diesel / electric pump sets are being sanctioned. The details there off is as given below:-

Rs in lakh

S. No	Date of SLSC	Cost of the project	Expenditure	No of Diesel / Electric pump distributed
1	18.07.2008	200.00	92.15	1074
2	09.07.2009	1000.00	986.12	10000
3	12.05.2010	1200.00	1200.00	12400
4	30.04.2011	2500.00	1900.94	19010
5	09.06.2012	2500.00	2000.00	21630
6	26.06.2014	1000.00	1000.00	10232
7	18.05.2015	2000.00	680.21	8168
	Total	9900.00	7859.42	82514

The farmers of the state have been given the privilege to purchase diesel pump or electric pump on 50% subsidy on first come first basis. As on date department has made software for the online registration of such items .Director Agriculture Engineering opens the slot for the registration of farmer twice a year depending on the targets of various implements, machines and other equipments. The time duration is normally from April to June, than October to December every year.

- 5. Key Result/ Insight /Interesting Facts:-** Most of the farmers have taken interest from those areas where canal irrigation is not available, and previously they are hiring diesel pump set for the lifting of water either from Nala or nearby river The project was most popular as it was directly related to provide irrigation water. Secondly farmers have rent out their sets also to earn additional income. secondly they are operating other machines and equipments with the help of diesel or electric pump. The above table reveals that the number of electric pump are much more than number of diesel pump. The reasons behind this scenario may be because of this fact that electric pump are easy to handle with, in comparison to diesel pump , secondly those farmers who have any water source at their field itself they have purchased electric pump and fitted at the field itself where as those farmers who does not have their own water source they have gone for the purchase of diesel pump so that it can be fitted near by the water source at variable sites.

- 6. Impact:-** The details of distribution of pump sets shown above has a clear cut indication that farmers are getting benefit out of it . This may either in shape of availability of irrigation water by lifting or operating other appliances and equipments or giving it on rent to other farmers. To know the impact of this project a Impact Evaluation Study have been conducted by the department through Atal Bihari Bajpai Institute of Good Governance and Policy Analysis, Bhopal . Under the study they have chosen four districts namely Sagar, Jabalpur, Harda and Burhanpur with 250beneficiaries of 17 blocks and 103 villages. This study shows that according to 94% farmer's opinion the pump sets have been purchased with their own choice. The study also reveals that as mentioned above, 100% farmers have used pump set for agriculture purpose but it has also been used for Horticulture, Animal husbandry and house hold works. such uses are 34%, 24% and 30% respectively

**7. Lesson Learnt :-** In the beginning years the process of purchasing the diesel / electric pump was such farmers use to deposit the farmers share to the supplier and lift the pump set. All the identified supplier later on raised the demand for giving subsidies according to the list of farmers and the product they have purchased. Now a day when DBT has been enforced the farmers have to deposit 100% cost of the pump to the supplier and then claim the subsidy from the Dy. Director of the district. It is observed that this process is putting farmers in to financial burden as they have to spent 100% amount initially then only they get the subsidy. Sometimes it takes months together.

**8. Supporting Quotes and Images:-**



Irrigated Crop



Irrigated Crop

**9. Additional Information:-** The contact person who is dealing with Minor Irrigation in the directorate of FW&AD, Madhya Pradesh is as given below :-  
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