

## Construction of Check dams by Irrigation & Waterways Department under RKVY within Districts: Purulia and Bankura

Category: - Natural Resource Management

### Introduction :

Construction of **Check Dams** within Bankura and Purulia has been undertaken under **RKVY** with an objective to support 24800 rural farmers by ensuring water resources as basic need for agriculture activities as well as daily life . The project as approved by **SLSC**, consists of construction of 30 Check Dams at Purulia and 05 Check Dams at Bankura in a period of 5 years with an outlay of Rs 4138 lakhs. So far 35 projects have been executed .

### Water Harvesting Structure : Check Dam

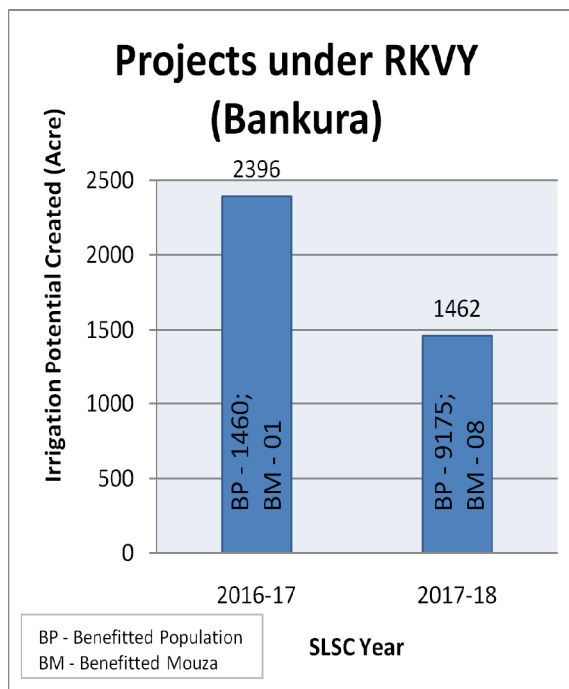
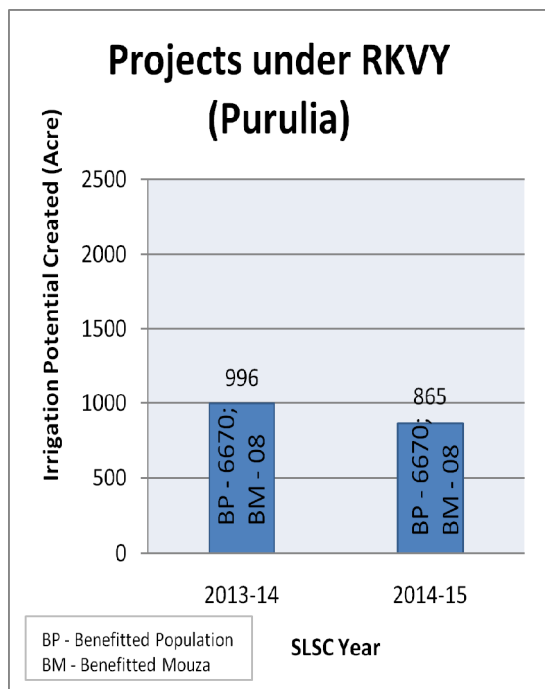
Check Dams are small height masonry structures built across rivers or rivulets to harvest the monsoon water to be utilized in late kharif / rabi season for irrigation and other purposes. Check Dam has been provided with required number of MS gates to allow monsoon flood to go downstream. These gates are put in, once the flow in the stream recedes. The water from these Check Dams is distributed to field level by gravity flow or either lifted through individual pumping devices by the farmers or through Community Lift Irrigation Schemes .

### Initiatives

30+5 Check Dams have been constructed so far in different villages. The details of these structures are as under:

Salient features of projects under RKVY implemented by I & W Department , GoWB.								
Sl. No.	SLSC Year	Name of project	Project ID	Project Cost (in crore)	Location	Benefited Mouza/Block	Benefitted Area in Acre	Benefitted Population
1	2013-14	Construction of 07 nos Check Dams in different blocks of Purulia district	WB/RKVY-IRRI/2014/753	5	At 07 different locations within Purulia district.	Benefitted mouzas : 08 nos. Benefitted blocks : 06 nos	996	6670 nos.

2	2014-15	Construction of 23 nos Check Dams in different blocks of Purulia district	WB/RKVY-IRRI/2014/658	15.22	At 23 different locations within Purulia district.	Benefitted mouzas : 25 nos. Benefitted blocks : 13 nos	865	7500 nos.
3	2016-17	Improvement of check dam/ Pick up Weir cum Bridge including canal and storage area of Niada check dam within Block and P.S.- Onda Dist.-Bakura	WB/RKVY-IRRI/2018/974	0.59644	23°4'23.0" N 87°11'27.0" E	Mouza - Niada Block - Onda	2396	1460 nos.
4	2017-18	<b>4 nos. check dams at Bankura</b>						
		a) Construction of Check Dam at mouza- Panahar over river Amodar under Kangsabati Canal Division-III, Bishnupur, Bankura	WB/RKVY-IRRI/ 2018/ 1025	0.19962	22°58'51.19" N 87°35'29.65" E	Mouza - Brahmada nga, Balitha, Baliarpur Block - Kotalpur	257	2428 nos.
		b) Construction of Check Dam at mouza- Baghajol over Baghajol Khal in Block- Joypur under Kangsabati Canal Division-III, Bishnupur, Bankura	WB/RKVY-IRRI/ 2018/ 1030	0.12813	22°55'24.37" N 87°37'19.95" E	Mouza - Baghajole, Salda, Barasat Block - Joupur	210	1720 nos.
		c) Construction of check dam at Mouza Marhadi over Marhadi Khal in Block - Khatra under Kangsabati canal Division-II, Khatra, Bankura	WB/RKVY-IRRI/2018/1036	0.59172	22°56'50.63" N 86°37'40.66" E	Mouza - Khatra Block - Marhadi G.P. - Khatra-II	452	2795 nos.
		d) Construction of Check Dam at mouza- Bhurudanga over Jamuna Jore in Block- Ranibandh under Kangsabati Canal Division-II, Khatra, Bankura	WB/RKVY-IRRI/ 2018/ 1035	0.59964	22°48'00.09" N 86°37'28.87" E	Mouza - Bhurudanga Block - Ranibandh G.P. - Roupura	543	2232 nos.



All the above Check Dams are functional and serving the purpose, for which they have been planned. The management of these Check Dams, particularly removal of Shutters before monsoon and fitting of those shutter after receding of flood is being taken care by local community themselves.

## Impact

The intervention has significant impact on the quality of life of farmers residing around the Check Dams. Farmers are extremely satisfied with these assets.

## Lessons Learnt

The execution of above project has a lesson that community ownership is essentially needed to be ensured to achieve the maximum benefit of community assets, particularly when it is created around critical element like ~~water~~ water. Since this is an infrastructure based project, there would be need for periodical maintenance / up keeping of these structures after certain period of time.

## Supporting Quotes and Images



**View of a typical check dam under RKVY within District : Purulia**



**Improvement of pick up weir cum bridge at Niada in block Onda, Dist : Bankura**



**Check dam over Baghajole khal at Baghajole, block: Joypor, Dist : Bankura**



**Check dam over Jamuna Jore at Bhurudanga in block : Ranibundh, Dist : Bankura**



**Check dam over Marhadi khal at Marhadi in block : Khatra, Dist : Bankura**



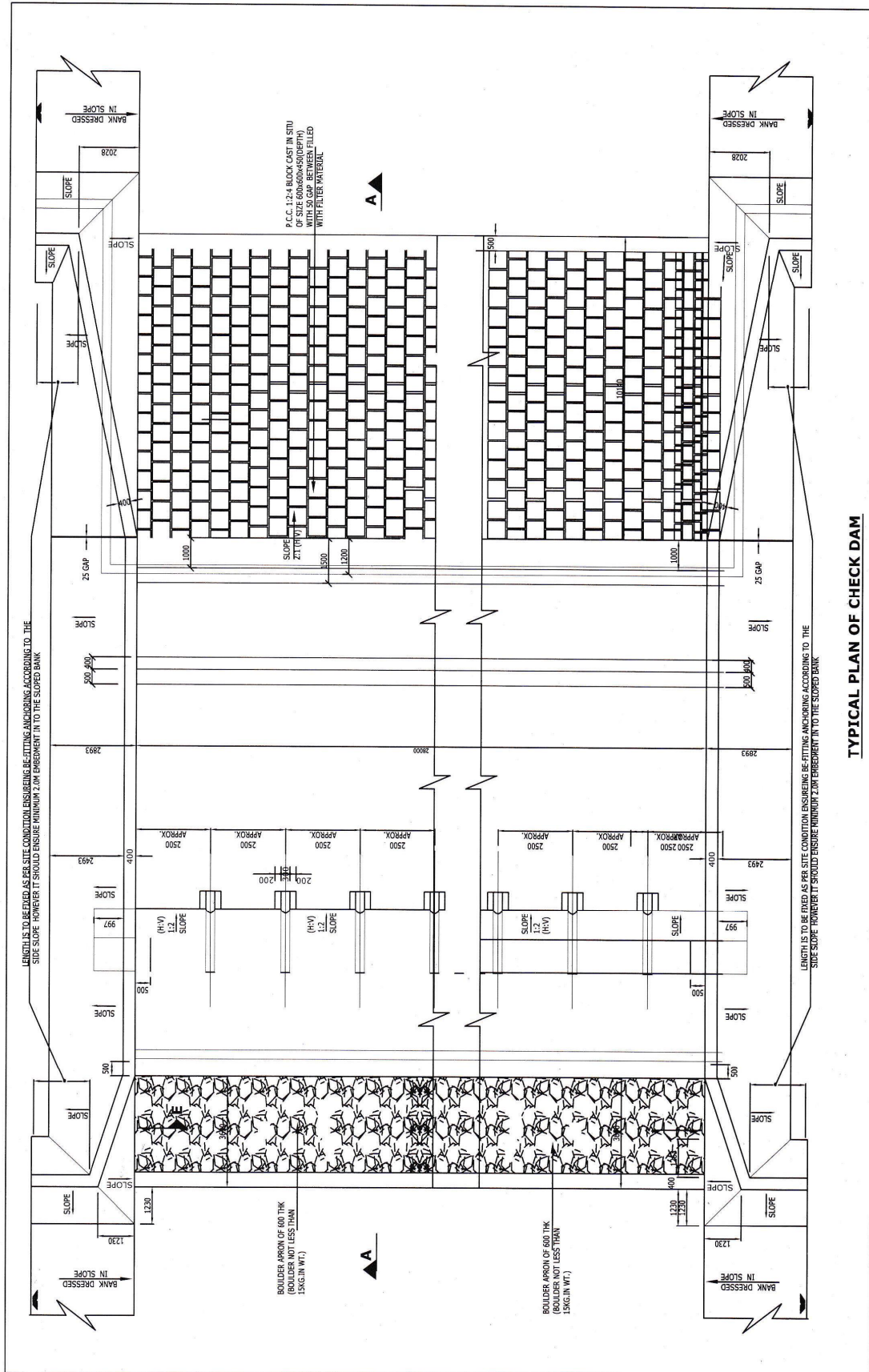
**Check Dam at Mouza- Sindurpur-Chunardih Block- Purulia-II**



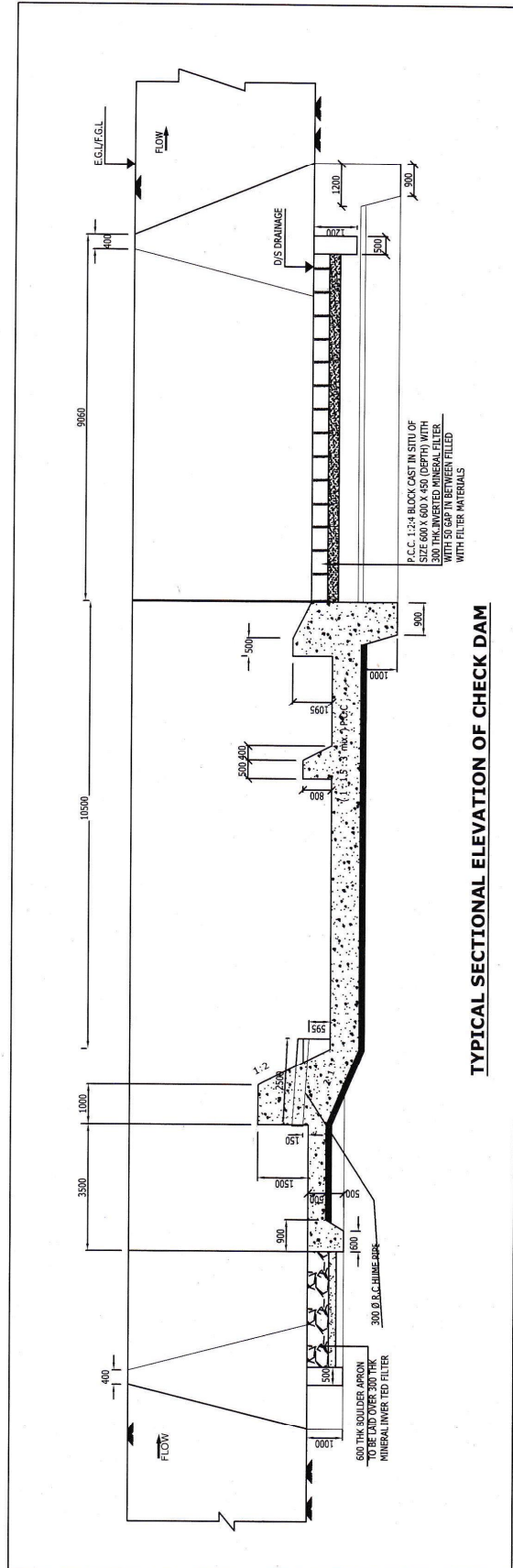
**Check Dam at Mouza-Kolakata-Chepra, Block-Purulia-II**



**Check Dam cum Causeway at Mouza-Alkusha, Block-Para**



**TYPICAL PLAN OF CHECK DAM**



**TYPICAL SECTIONAL ELEVATION OF CHECK DAM**