

ANNUAL PROGRESS REPORT 2017-18

Submitted To

Deutsche Gesellschaft Für Internationale Zusammenarbeit (GIZ) GmbH

&

State NREGA Unit

November 2017



Agrocrats Society for Rural Development

C/23, First Floor, Behind Bank of Baroda, Shailendra Nagar, Raipur (Chhattisgarh), INDIA 492001





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ACRONYMS AND ABBREVIATIONS

CRP	Community Resource Person
CSEB	Chhattisgarh State Electricity Board
FY	Financial Year
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
GP	Gram Panchayat
GPDP	Gram Panchayat Development Plan
GRS	Gram Rozgar Sahayak
GS	Gram Sabha (Village Meeting)
IEC	Information, Education & Communication
IPPE	Intensive Participatory Planning Exercise
ISEP	Inter State Exchange Programme
MGNREGA-EB	Mahatma Gandhi National Rural Employment Guarantee Act
MoRD	Ministry of Rural Development
NREGS	National Rural Employment Guarantee Scheme
NRM	Natural Resource Management
PMKSY	Pradhan Mantri Krishi Sinchayee Yojana
PRI	Panchayati Raj Institution
SHG	Self Help Group

INTRODUCTION

The Indo-German project “Environmental benefits of the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA-EB)” aims to contribute to the improvement of the livelihood resource base of the rural economy by promoting conservation, replenishment and sustainable use of natural resources. The focus areas will include works related to water conservation, improvement of vegetation and soil. The project is covering 13 panchayats located in Kurud block of Dhamtari district, situated in the fertile plains of Chhattisgarh Region.

In April 2013, GIZ and MoRD commissioned a five year joint project “Environmental benefits through Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA-EB). The objective of MGNREGA Project is “Gram Panchayat in the selected State implement MGNREGA works with high quality taking environmental aspects into consideration.” GIZ and MoRD jointly committed to this objective. The indicators to measure the resulting project objectives are:-

1. In at least 75% of demonstration sites, Gram Sabha have selected the shelf of projects based on integrated NRM planning approaches
2. The Participation rate of women in planning in these Gram Sabha is at least 20% higher than before the implementation of the project.
3. The monitoring and evaluation system regularly measures the quality of MGNREGA works, their environment impacts and impact on the women
4. At least 5 of the innovation in works design and implementation developed by the project to promote environmental benefits of MGNREGA are ready for national dissemination.

The project operates at the local, state, and national level under the following five components:

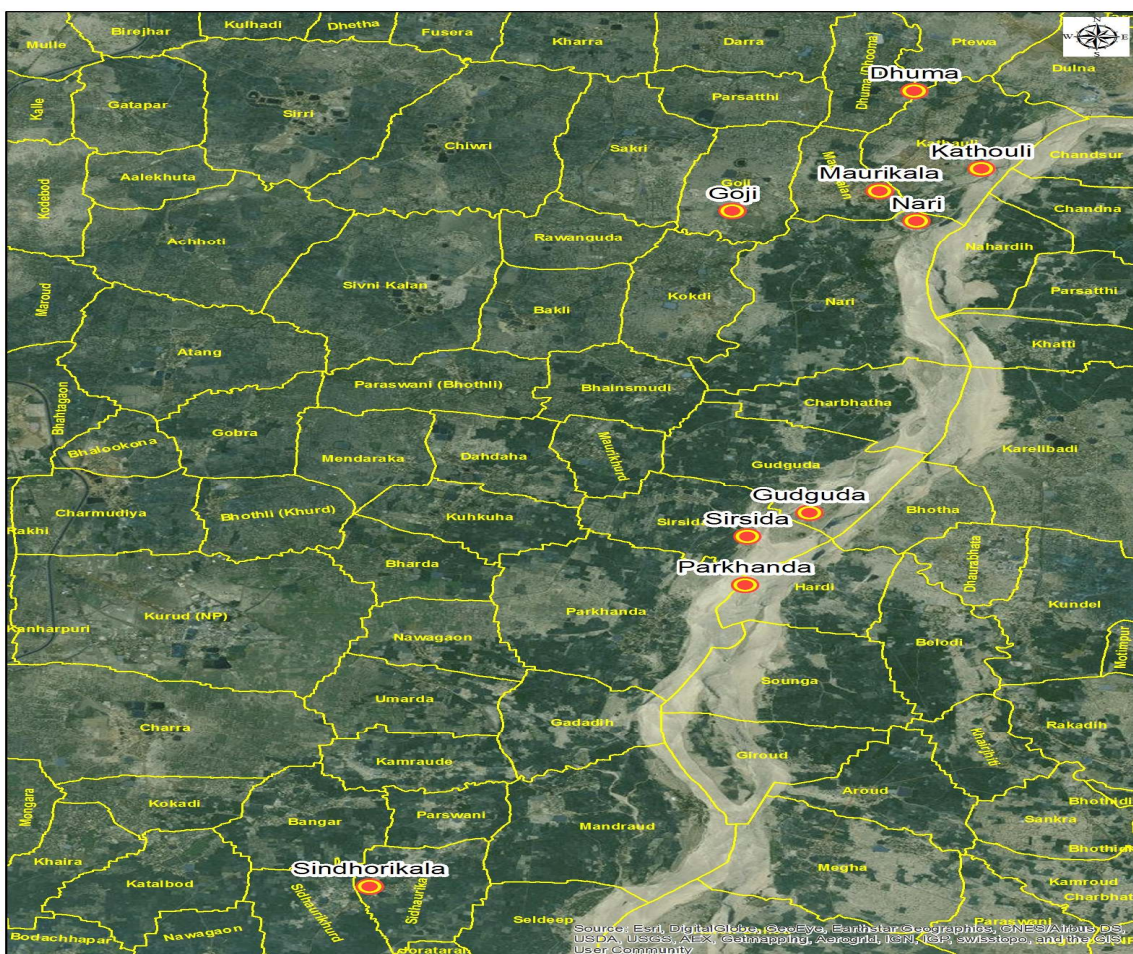
5. Information, education, communication
6. Technical designs and guidelines of MGNREGA work
7. Maintenance of MGNREGA works
8. Monitoring of environmental and gender effects
9. Capacity building

For effective implementation of NRM works, it was decided to adopt landscape approach in implementation of demonstration sites/model works. Last year, on the recommendation of State Steering committee (18th May, 2016), project area increased from 2 GP to 13 GP to cover the entire river bank of Mahanadi in the block for demonstration of river bank stabilization through horticulture plantation, increase the efficiency of irrigation facility through field channels and increase ground water through water conservation and harvesting structures.

BACKGROUND

MoRD – GIZ Pilot Project was initiated in Chhattisgarh state in Gram Panchayat Parkhanda and Nari, Blocks Kurud, District Dhamtari and Gram Panchayat Jhandatalab and Bijnapur, Block Dongargarh, District Rajnandgaon in Financial Year 2014 – 15. A key goal of the programme is to protect natural resources. It is important that these resources are used in a sustainable manner because of their relevance for ecosystems and agriculture. In the long term this will secure livelihoods for rural people, protecting them against the severe consequences of climate change.

In Kurud during first year of project four model works were finalized viz. Restoration of river bank through Horticulture and bamboo plantation and De-silting with Repairing of Irrigation Channel in GP Nari and Model Gothan (common resting place for cattle) and Model Pond in GP Parkhanda. During the first two year phase of project, it was found that due to high exploitation of ground water by farmers the Block Kurud is now under the category of “critical area”. So, for effective implementation of NRM works, it is decided to adopt landscape approach in implementation of demonstration sites/model works. On recommendation of State Steering committee (18th May, 2016), project area increased from



2 GP to 13 GP to cover the entire river bank of Mahanadi in the block with MGNREGS – PMKSY and approved three major interventions under the project:-

1. River Bank Stabilization through Horticulture plantation and soil conservation working 13 GPS located at the river Bank of Mahanadi with user facto right and in convergence with NRLM
2. Demonstrate effective system of canal irrigation through Participatory Irrigation Management

3. Demonstration of appropriate techniques for water conservation and ground water recharge considering with hydrogeology and watershed of the area

After approval of project's annual work plan of 2016-17, introductory interactions have been organized with GP members and active MGNREGA Mate at GP and block level. Out of 13 GPs, 9 GPs have implemented horticulture plantation work on river side common land and developed orchard of mix fruit species like Mango, Guava, Kanronda and Jamun on about 24 hectare land. For intervention on efficient irrigation, a rapid assessment carried out in Nari and Parkhanda GP to identify the scope of work and possible approach. It is recommended that a group of dependent farmers as sub Water User Association (as per PIM act of Chhattisgarh) should be organized for distribution of water, maintenance of canal and construction of field channels of two minors as demonstration site. Other NRM works like stop dam, and ground water recharge structures have been identified as potential works.

The Kurud block had a number of NRM-based works done in the past. Specifically, over the last three years, major focus areas have been traditional water bodies, land development, and afforestation. In recent years, the focus has increased in case of land development and afforestation, while works on promotion of fisheries and livelihoods remain abysmal. The table below shows the status of MGNREGA in Kurud block over the last three years.

Sl. No.	Category	2014-15		2015-16		2016-17	
		Project Area	%	Project Area	%	Project Area	%
1	Water Conservation	2	12.5	1	3.3	1	2.4
2	Irrigation	2	12.5	5	16.7	4	9.8
3	Traditional water bodies	7	43.8	4	13.3	8	19.5
4	Afforestation	0	0	3	10	10	24.4
5	Land development	1	6.3	12	40	14	34.1
6	Improving productivity of lands	0	0	3	10	3	7.3
7	Improving livelihoods	1	6.3	0	0	0	0
8	Promotion of livestock	0	0	2	6.7	1	2.4
9	Promotion of fisheries	0	0	0	0	0	0
10	Agriculture productivity	3	18.8	0	0	0	0
Grand Total		16	100	30	100	41	100

OBJECTIVES OF THE PROJECT

The project envisions to achieve six objectives namely:

1. Build capacity of Gram Panchayat and Block level MGNREGA unit in implementation and monitoring of works related to approved models of environment benefit works, maintenance of assets and develop climate change adaptation perspective among the key stakeholders.
2. Develop skills of user groups, farmer's group and SHGs on irrigation techniques, horticulture practices and maintenance of assets.
3. Provide on-field and off field support in timely and quality implementation of works in coordination with MGNREGA block and district units and in convergence with other line departments.
4. Integrate value chain initiatives in collaboration with other government initiatives like SRLM etc.

APPROACHES AND STRATEGIES

The project followed a multi-pronged approach to MNREGA-EB comprising of field demonstrations, capacity building, IEC, and exposure visits. The broad approaches and strategies to achieve the project outcomes are:

1. Access mainstream funds mainly MGNREGS through Panchayats and developing the leadership of women and vulnerable groups in the village development programmes and local governance of MGNREGS interventions by enhancing their participation in Gram Sabha and collective decision-making at all levels.
2. Build technical capacity of SHG and associative tiers, GS, Mate, Govt. Extension worker, PRI, CRP's, etc. primarily related to the establishment of environmental benefit productive assets and other MGNREGA interventions.
3. Support field in establishing of demonstration work sites by technical persons as pre finalised during the planning process, also train the labour groups and local community especially PRI members, GRS, Mate, and other stakeholders for future planning of MGNREGA works mainly related to environment benefits indicators.
4. Prepare participatory labour budget and village perspective plans on NRM and Livelihoods.
5. Create platform for women collectives, Labour groups, GP and Govt. Functionaries
6. Build institutional capacities to sustain livelihood activities work related to environmental benefits post-project period
7. Strengthen the existing provisions for community monitoring such as Social Audits, Wall Writings, Gram Sabhas and Village Monitoring Committees, etc. Also development of better system mechanism for regular assessment and maintenance of assets concerning environmental and social indicators at GP level

MAJOR ACTIVITIES UNDERTAKEN

A number of activities were conducted in year 2017-18 – in line with the project vision, approach, and deliverables. Broadly, the activities focused on plantations, minor renovation and lining, check dam, model pond, model gothan (common resting place for cattle). Additionally, a series of training programmes, and exposure visits were conducted with the technical support. A detailed overview of the activities undertaken is presented below.

PLANNING

An intensive field exercise of planning with community members was done before the initiation of field demonstrations, trainings, and IEC. Meetings with different stakeholders like Sarpanch, Secretary, GRS, all Panch, Mates, and Anganwadi workers GPs were organized to brief them about Gram Panchayat Development Plan (GPDP) and Mission Antyodaya – Intensive Participatory Planning Exercise-2 (IPPE-2). IPPE-2 was introduced as participatory planning exercise for the planning of works under MGNREGA to facilitate GPDP.

Since the inception of the project, radical changes were observed related to participation of the women in Nari and Parkhanda Gram Panchayat. During the initial phase of the project, the women were not interested in participating in the Gram Sabha or any village level activities like community level planning and other social issues. In order to strengthen the Gram Sabha, Ward Sabhas were organised in every ward of Nari and Parkhanda Gram Panchayat. The plans prepared in the Ward Sabhas were thoroughly discussed and individually approved by every villager by the voting method.



The detail project report of each model planned and approved by gram sabha were prepared to facilitate the MGNREGA functionaries and GP functionaries for better implementation of the models. The detailed project report consisted all the designs and estimates of the model as per MGNREGA prescribed formats. The DPR was prepared with the support of MGNREGA team, CGCOST and the concerning technical line department, so that the designs and estimates were approved by the concerned line department.

FIELD DEMONSTRATIONS

PLANTATION

During 2017-18, works worth 115.02 lakhs (70.29 lakhs under MGNREGA and 44.73 lakhs under PMKSY) was undertaken. The outcome of these plantations is that the plantation activities started in all

the seven scale-up GPs of block other than project GP. Further, beneficiary members of para 5 from the SHGs were finalized to provide “usufruct rights” of plantation site with signing of MOU. Notably, 126 women of SHG members were selected to whom usufruct rights were given and a Memorandum of understanding was signed with Gram Panchayat for the maintenance of the orchard – with a guarantee of SHG.



Further, usufruct rights were given to these as per the Point 2.5.2.6 of Master Circular of MGNREGA and these members have started doing intercropping on plantation sites. The maintenance committee for plants monitoring on the plantation site was finalized and the maintenance of works are monitored on the prescribed monitoring format designed by project team. A summary of the works done and amount in project area is shown in Table below.

Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Area (in acre)	Status
1	2016 - 17	Joratarai	3.62	6.66	10.28	8	Complete
2	2016 - 17	Parkhanda	8.95	18.67	27.62	15	Complete
3	2016 - 17	Gudguda	4.9	10.27	15.17	7	Complete
4	2016 - 17	Sirsida	7.09	10.24	17.33	8	Complete
5	2016 - 17	Nari Phase - 2	6.26	4.12	10.38	10	Complete
6	2016 - 17	Mourikala	2.47	7.3	9.77	6	Complete
7	2016 - 17	Kathouli – I	6.2	14.41	20.61	12	Complete
8	2016 - 17	Sindhourikala	2.56	6.34	8.9	6	Complete
9	2016 - 17	Goji	6.81	22.39	29.2	15	Complete
10	2016 - 17	Nari Phase - I	0	3.3	3.3	12	Complete
11	2015 -16	Nari Phase - I	15.32	3.72	19.04		Plantation complete, usufruct rights allotted, maintenance charges under

Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Area (in acre)	Status
							process
12	2017 - 18	Nari Phase - 3	0.88	0.28	1.16	15	TS and AS received, plantation to be done in next kharif season
13	2017 - 18	Nari Phase - 4	-	-	-	15	-
14	2017 - 18	Katholi – 2	-	-	-		Plantation site has been selected, estimate is under preparation
Total			65.06	107.7	172.26	129	

In phase 2 of project, in FY 2016-17, 13 sites were added – three in Nari, two in Kathouli, and one each in Paraswani, Charra, Gadadih – R, Bagdehi, Mandraud, Supela, Silouti, Charbhata. Thus, in addition to the 13 project GPs, model is going to be replicated in another 15 GPs, which reflects the scale-up effect of the interventions done earlier. A summary of the works done and amount is shown in Table below.

Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Area (in acre)	Status
1	2017 - 18	Paraswani	11.88	6.8	18.68	10	Plantation complete, usufruct rights under process (scale-up, outside GIZ project area)
2	2017 - 18	Charra – 1	10.89	7.62	18.51	8	
3	2017 - 18	Gadadih - R	5.25	4.23	9.48	7	
4	2017 - 18	Bagdehi	9.13	5.57	14.7	11	
5	2017 - 18	Mandraud	10.38	6.01	16.39	10	TS and AS received, plantation to be done in next kharif season
6	2017 - 18	Supela	11.84	6.15	17.99	8	
7	2017 - 18	Silouti	5.12	4.17	9.29	7	
8	2017 - 18	Charbhata	5.8	4.18	9.98	10	
9	2017 - 18	Jijamgaon	-	-	-	10	Plantation site has been selected, estimate is under preparation
11	2017 - 18	Godra	-	-	-	7	
12	2017 - 18	Bakali	-	-	-	10	
13	2017 - 18	Dahadaha	-	-	-	8	
14	2017 - 18	Charra – 2	-	-	-	10	

Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Area (in acre)	Status
15	2017 - 18	Sarbada	-	-	-	10	
Total			70.29	44.73	115.02	126	



In view of the interventions undertaken, the orchards on 99 acres have been completed with the installation of drip systems, and an area of 30 acres is proposed to be planted. Further, in the scale-up area, orchards on 36 acres have been completed with the installation of drip systems, and 90 acres is proposed to be planted. Additionally, works on new sanctioned sites have already started, and all old sites were handed over to 126 SHG members and they have started doing intercropping except Parkhanda. It may be noted that CRPs are selected from all GPs from SHGs for developing the “Vriksh Sakhi”. Because of this intervention, the SHGs started earning approximately Rs. 10,000 per month.

MINOR RENOVATION AND LINING

During the course of field surveys, it was realized that minors needed renovation in order to achieve the overall objective of PIM and enhance water flow in the streams. Hence, minor renovation works were taken up, and has been successfully completed. The lining work is under progress. It may further be noted that Joint Measurement Activity was also completed for planning of field channels, with selection of lead farmers. A summary of the works done and amount in project area is shown in Table below.



Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Status
1	2017-18	Goji	14.85	34.6	49.45	In Progress
2	2017-18	Nari	13.28	30.85	44.13	In Progress
3	2014-15	Nari	4.07	3.87	7.94	Completed
Total			32.2	69.32	101.52	

DRAINAGE LINE TREATMENT

It may be highlighted that kurud block is categorized as a 'distress' block by central groundwater board. Further, the problems of drainage line treatment, soil erosion, and less irrigation opportunities, check dams were planned in consultation with gram panchayat members – besides project activities. A drainage line treatment plan was prepared after doing dumpy level survey. While following a ridge to valley approach, a series of check dams were constructed across two nalas. Works on check dam has completed in all six GPs. An overview of Panchayats and amounts is given in table below.



Sl. No.	Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Status
1	Sirsida	13.04	21.93	34.97	Completed
2	Parkhanda	13.04	34.97	48.01	Completed
3	Joratarai	15.45	19.53	34.98	Completed
4	Goji	15.92	20.37	36.29	Completed
5	Goji	15.45	29.53	44.98	Completed
6	Parkhanda	18.68	25.43	44.11	Completed
Total		91.58	151.76	243.34	

MODEL POND

The construction of a diversion channel, and deepening of farm and pitching was completed during the period under review. The pond is situated in the centre of village and is the biggest pond of the village, but due to the excess back flow water of river, the pond walls always damaged, as there was no proper inlet and outlet. Due to this reason, inlet and outlet of pond was redesigned to protect the breaching of bund due to flow from nearby nala. Along with this, to slow down the flow of water coming in the pond,

diversion dam and diversion channel is designed. The bathing place was also built for the convenience of women, as well as the beautification of bunds with construction of walking path way and plantation. An overview of the work and amount is given in table below.

Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Status
I	2014 - 15	Parkhanada	24.31	24.5	48.81	In Progress



MODEL GOTHAN

The site is in khasra number 1393 with 1.630 ha total area. Overall area is having triangular in shape and is located towards east side of road. (South east location is Lat 20°50.397 N and long 80°47.064 E & North east location is Lat 20°50.442 N and long 80°47.143E). While towards South West, proposed plot is adjoining to khasra no. 1398, 1391; towards West, with khasra no. 1386, 1387 & 1388. Presently khasra number 1393 is non cultivable waste land and used as open grazing for cattle.

The works of leveling, water pond, plantation, fencing and vermicompost tank have been completed, and shed of vermicompost is under construction. Due to these concerted efforts, Gopala has been already selected for hand over. Further, the provisions of veterinary aid and medical facilities have been provided at model gothan by the Veterinary Department. From an environment perspective, model gothan minimizes rainwater runoff velocity and conserves 5.57 TMC water in the pond. An overview of the work and amount is given in table below.



Sl. No.	Financial Year	Name of Panchayat	MGNREGA Amount (in lakhs)	PMKSY Amount (in lakhs)	Total (in lakhs)	Status
I	2014-15	Parkhanada	9.02	5.4	14.42	In Progress

TRAININGS

PLANNING

A total of 13 trainings were conducted in each of the 13 gram Panchayats on the topic of “Capacity building of SHG and other stake holders on participatory planning, environment benefit productive asset, institutional monitoring & auditing systems and importance of Gram Sabha and their role in Gram Sabha”. The objectives of the training programmes were to make the SHG and community leaders aware about the list out the provisions of MGNREGA, explain purpose and role of community leader & SHG’s, and articulate the need of community leader and SHG’s for effective implementation of MGNREGA and other schemes. Most of these trainings were conducted in February, 2017 for SHG Leaders and Community members.



On similar lines, a GPDP participatory planning training was given to PRI members and field functionaries of both the panchayats. The training was organized to make them aware and provide descriptive knowledge on labour budget planning and environment benefit productive assets for financial year 2016-17, alongwith the preparation of GPDP. The participants, BRT and PRI members, were trained through 13 trainings in each GP during April, 2017.

HORTICULTURE

A series of training programme were conducted for selected community resource persons named as Badi & Pani Mitra selected from the beneficiaries who were given the responsibility of established orchard. The major objectives of the training were (a) role of Badi Mitra & Pani Mitra, (b) fundamentals of orchard establishment, and (c) role in strengthening SHG for the maintenance of orchard. A total of 13 trainings were conducted in May-June, 2017. The trainings helped the participants build technical capacity to understand the environmental benefits of the works undertaken under MGNREGS.



During the course of discussions, it was realized that for the effective development of the area, SHG members required training on the maintenance of the established orchard and monitoring. To address this need, SHG members and selected PRI members were trained through a series of 13 training programmes in each of the gram Panchayat in June, 2017. The training programme focused on Restoration of River Bank through Horticulture plantation, Species Selection, Layout of Different Plants, Pit Digging, Pit Filling & Plantation, Intercropping, Work Monitoring, and Work schedule. The trainings helped the participants develop capacity and confidence to take-up the horticulture activities in their areas.

PARTICIPATORY IRRIGATION MANAGEMENT

Two trainings on different aspects of participatory irrigation management were organised in both the selected pilot villages Nari & Goji in February, 2017. The main objectives of training were to orient the participants on different aspects of participatory irrigation management systems, norms and structure of water user association, different aspects of farmer's producer organization (FPO), development of the institutional mechanism of the developed assets through community based organization of user groups. The training helped the participants to understand the different aspects of participatory irrigation management and water user association with formation of farmers producers company.

TECHNICAL ASPECTS OF MGNREGA

TRAINING TO TECHNICAL ASSISTANTS AND ROZGAR SAHAYAKS

A two-day training on technical aspects of MGNREGS like planning, design, estimate, measurement, etc. was organized in both the Gram Panchayat Parkhanda & Nari, separately in April 2017. The training module covered basic watershed concepts, ridge & valley, slope, a-frame, centre line, farm pond, pond deepening, boulder check pond bund/field bund, gully plug, plantation, CCT/SCT, distribution of godi, drawing and design, quality of material, measurement of godi, muster roll & MB maintenance, rozgar divas, basics of NREGA soft, and para 5 category. The participants expressed confidence on their capacity to select sites and to do survey of catchment area and slope.



TRAINING TO MATES

A series of three training programmes on technical aspects of MGNREGA for mates were organized. The trainings covered three modules, viz. technical survey (2 days), layout of different structures (2 days), and quality measurement and monitoring (1 day). Each of the three trainings was attended by 30 participants. The training pedagogy involved use of different training aids like PPT, Video & Field Practical. The training helped the participants understand the technical aspects in detail, and the discussions stimulated during the course of these trainings helped the participants learn more than the defined boundaries of modules.



WATER CONSERVATION AND ARTIFICIAL GROUND WATER RECHARGE

Four team members (three clamp experts, and one civil engineer) and 45 Sarpanch and panch members from the project area participated in a training programme organized by Central Ground Water Board at Dhamtari. The main objective of the training was to make participants aware about critical status of area in respect to ground water and different methods of recharging the ground water.



CLIMATE CHANGE

A two-day training programme on “Climate Smart Gram Panchayat Development Plan” was conducted on 5-6 January, 2017. The objective of the training was on the basics of climate change adaptation and mitigation and process of integrating the climate change concerns into development planning. The training was attended by 50 participants from 13 Gram Panchayats. The training focused on sensitization of participants on impacts of climate change in rural areas. Gradually, the discussion focused on the context of activities undertaken in the area particularly within MNREGA, GIZ project, and other schemes of Gram Panchayat. Brain storming sessions and participatory tools like sticky notes were used to stimulate the participants to contribute to the discussions. Small groups of participants were formed to gather diverse views of the participants. The results of the discussions were that participants formulated the impacts of weather variability, Seasonality analysis, Sensitivity analysis, Vulnerability analysis, Adaptive Capacity.



This output of the training was that the participants gathered information on basics of climate change, how these impact their daily lives, the level of vulnerability of individuals viz-a-viz their occupations and socio-economic status. The participants expressed satisfaction with the training, and foresaw the role of MGNREGS in developmental planning, and how the synergy between the two can be leveraged for the benefit of the community.

INFORMATION, EDUCATION, AND COMMUNICATION

WALL PAINTINGS

हर हाथ को काम मिलेगा।
काम का पूरा दाम मिलेगा॥

जन जन का नारा है ।
रंजना गारंटी हमारा है ॥

IPPE-II आया है, पांच योजनाओं को लाना है ॥

हम सबने ठाना है ।
निर्मल ग्राम बनाना है ॥

[illegible]

AWARENESS CAMPAIGN

An innovative mode of awareness generation was used to spread awareness among community members through magic show. A magic show was organized in October, 2017 in which magic tricks were used to keep the audience engaged, and at the same time, various project issues were imparted in an engaging manner in-between the magic tricks. The magician aptly covered the significance of PIM and WUA, maintenance of water conservation related structures, plantations, intercropping, and so forth. The attendees gave a very positive response to the mode of event, as they could enjoy as well as learn.



EXPOSURE VISITS

PARTICIPATORY IRRIGATION MANAGEMENT

During the interaction with community, PRI members and field functionaries of MGNREGA block and village, it was found that they were not aware about the various aspects of PIM systems and norms, along with the FPO to develop the institutional mechanism of the assets developed under convergence of MGNREGA and PMKSY. Looking at the demand of the subject, an exposure visit to organisation “Yuva Mitra” based at Block Sinnar, District Nasik. The organisation has done unique work in the sector of PIM and FPO development and strengthening. So, an exposure visit of MGNREGA block and village functionaries, PRI members and SHG members of all the project panchayats Block Kurud, District Dhamtari was organised from 2nd to 6th May 2017 (including two travel days viz 2nd & 6th May, 2017). The objectives of the exposure visit were to orient different aspects of participatory irrigation management systems, understand the norms and structure of water user association, orientation of participants on different aspects of farmer’s producer organization (FPO), to understand different aspects of developing the institutional mechanism of the developed assets, by forming a community based organization of user groups. The participants visited

- a. diversified based irrigation and WUA
- b. Savitri Bai Bakri Palan Utpadak Company
- c. business centre of Bhojapur Producer Company
- d. canal based irrigation systems through WUA of Kawda Dam
- e. Agri Mall of FPO - Green Vision Company
- f. Samaj Parivartan Kendra of WUA, Wagad Dam



BARE FOOT ENGINEERS

The trainees of Bare Foot Engineers visited the plantation site and irrigation channel site to understand the works of MGNREGA and the process and technical details of the different works developed under the project. Two batches comprising of 70 trainees visited the area separately for one-day visit in January, 2017.



PARTNER NGO

About 50 villagers from partner NGO (Samarthan) working in Chhattisgarh visited the project area on 16 June, 2017. The participants visited shared their experiences and understood the approach followed in this case. Diverse types of activities on participatory irrigation management, plantations, and discussions with SHG members were visited during the one-day visit.



VISIT TO JHANDATALAB GP

A one-day exposure visit was conducted on 14-Nov-2017 to Jhandatalab GP for 110 community members. The objective of the exposure visit was to share and learn from the experiences of GP w.r.t works done under MGNREGS. The participants got a firsthand experience of stop dam, contour trench, boulder check, farm bunding, farm pond deepening, and gabion; and formation, importance and constitution of WUA. The participants learnt the linkages between works and environmental benefits derived from it, like soil erosion control, increment in ground water level.

DISTRICT AND BLOCK WORKSHOP

A district level workshop was organized on 10th November 2017, which was attended by the PRI members, SHG members and officials of MGNREGA and other concerned departments. The objectives of the workshop were: (a) review the progress of the ongoing works, (b) future plan and works finalization for next financial year to be taken under MGNREGA – PMKSY convergence, (c) distribute technical equipments used for survey and layout, (d) training of GIS based planning through cadastral and satellite mapping, (e) planning for installation drip irrigation system in orchard, and (f) training on maintenance of orchard.

RESULT BASED MATRIX

The result based matrix of the project is presented in table below.

Indicator #		2016-17	2017-18						
1	% of NRM works planned in the labor budget in core project GP's	50	65						
2	Women Participation in Gram Sabha in core project GP's (13 GPs)	50	60						
A1	1. Total number of technical designs shared with MoRD 2. Total number of GIS based approach shared with MoRD	-	-						
A2	Number of other GPs (other than 13) where the improved technical designs and handout are used Direct impact GP's = Indirect impact GP's	Horticulture Livelihood model scale up and measurement skills improved in 15 GPs							
B2	Works managed by functional user groups (name the models, and how many # are managed by user groups)	Usufruct rights given to 126 SHG members in 9 GPs							
B3	Total number of income generating works <table><tr><td>Name of model</td><td>If income generating</td></tr><tr><td>1. Vegetable cultivation</td><td>Yes</td></tr><tr><td>2. Model gothan</td><td>Yes</td></tr></table>	Name of model	If income generating	1. Vegetable cultivation	Yes	2. Model gothan	Yes	Vegetable cultivation in horticulture sites in Nari(CH) Vermicompost production in model gothan	
Name of model	If income generating								
1. Vegetable cultivation	Yes								
2. Model gothan	Yes								
D1	Courses or modules demonstrated and evaluated positively by states(name of course/module) (1) gender (2) mate (3) technical module (4) other	Under process							
D2	Number of EB based trainings for women	34							
D3	Guidelines for models in state submitted to MoRD/govt for mainstreaming	Under process							



Agrocrats Society for Rural Development
C/23, First Floor, Behind Bank of Baroda, Shailendra Nagar,
Raipur (Chhattisgarh), INDIA 492001
Tel.: +91-771-3291936
Fax: +91-771-4066808
agrocrats_society@rediffmail.com
www.agrocrats.org