giz Office New Delhi

Terms of Reference:

Technical support in assets creation and community led asset management practices (CLAMP) for Models of Environment Benefit works under MGNREGA in Dhamtari, Chhattisgarh

1. Background

In 2005, Government of India passed the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA), which started an employment generation scheme in rural India with an annual budget of around [1]INR 38500 Crore for year 2016-17. The objective of the Act is to ensure livelihood security of people in rural areas by guaranteeing at least 100 days of wage employment per year to approx. 50 million rural households whose adult members willing to do unskilled manual labour. One of the core objectives is to enhance sustainable rural livelihood through rejuvenation of the natural resource base (soil, water, vegetation) and creation of respective productive assets of prescribed quality and durability.

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 MGNRGA 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.

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

1. Information, education, communication
2. Technical designs and guidelines of MGNREGA works
3. Maintenance of MGNREGA works
4. Monitoring of environmental and gender effects
5. Capacity development

The Project is being carried across 3 States; Andhra Pradesh, Chhattisgarh and Rajasthan.

2. **Description of the Assignment and Objectives**

Developing environmental benefit (EB) models under MGNREGA framework is one of the key deliverable of the project. As per approved plan of 2015-16, GIZ project facilitated implementation of Natural Resource Management works like renovation of community Pond, Integrated Model of Gothan (common resting place for cattle), Renovation of Irrigation

[1] http://www.deccanchronicle.com/nation/current-affairs/010316/u-turn-mgnrega-gets-rs-38-500-crore-in-budget-2016-17.html

channels and horticulture plantation on common land at the river bank in two select Gram Panchayats of Kurud block (District Dhamtari) of Chhattisgarh. GIZ mobilized and provided technical support in selection, implementation and maintenance of work. Considering the technical support from GIZ, additional fund as top up for material cost has been provided to the project for works related to water conservation and ground water recharge from Pradhan Mantri Krishi Sinchai Yojna (PMKSY) in March 2016.

State Steering Committee (SSC) reviewed the project progress in May 2016 and recommended adoption of Integrated Natural Resource Management for planning and implementation of Environment Benefits works with special focus on ground water recharge and water conservation. Kurud is declared as distress block by central ground water board and therefore, relevance of reduction of ground water demand by using efficient irrigation techniques is a key area of intervention. For optimization of results, SSC extended the project area from 2 to 13 GPs in Kurud block of Dhamtari District and approved three major intervention under the project:

- River Bank Stabilization through Horticulture plantation and soil conservation working 13 GPS located at the river Bank of Mahanadi with usufruct right and in convergence with NRLM
- Demonstrate effective system of canal irrigation through Participatory Irrigation Management
- Demonstration of appropriate techniques for water conservation and ground water recharge considering with hydrogeology and watershed of the area.

Project area in Dhamtari district of Chhattisgarh -

Block	**Landscape**	**Name of Core Gram Panchayat**	**No of Total GP (List of GP is given in the annexure 1)**
Kurud	River Bank of Mahanadi in Kurud block	Nari Parkhanda	13 GPs
	Command area of Irrigation Minor – Nari and Gadhadeeh	Nari Parkhanda	Same as above
	Watershed and geo-hydrological landscape of core GPs	Nari and Parkhanda	Same as above
Total GPs			**13 GPs**

After approval of project's annual work plan of 16-17, 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, ground water recharge structures have been identified as potential works.

Proposed assignment is to engage technical agency for implementation of the model (including works ongoing / completed) along with following key objectives:

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.

3. **Scope of Work**

a. Preparation of detail project report of approved models

GPs have identified works related approved models through annual planning process of MGNREGA. There is a need to assess the work sites, study the feasibility of proposed structures and prepare estimate and designs. The facilitating agency to be engaged has to prepare Detail Project Report (As per MGNREGA format) of models as lead technical agency with block level team of MGNREGA, Chhattisgarh Science and Technology Council (C COST) through participatory consultation, technical field survey and use of satellite imageries.

b. Technical support for implementation of MGNREGA works:

Based on approved DPRs, works will be carried out in project in 13 GPs that spread across 25 kms long bank of Mahanadi in Kurud block. Maximum works proposed for EB models have to be completed within one year in coordination with state / district / block units under MGNREGA in convergence with PMKSY and other relevant schemes. The Facilitating agencies to be engaged has to propose its methodology for implementation of DPRs within one year of timeline and provide on-site technical assistance.

c. Establish Community led Asset Management Practices (CLAMP)

Harnessing the benefits of assets through community led assets management practices (CLAMP) is another scope of this assignment. GIZ proposes to build user institution around the asset in appropriate numbers in project area around works during construction phase for the participatory irrigation, common land orchard, soil conservation structures and ground water recharge structures for use approaches and maintenance of the assets. Agency to be engaged should propose a methodology for creating such institutions and making them functional and sustainable, and should ground this in legal statuettes.

d. Capacity building of the MGNREGA and GP functionaries

For constructing durable assets, the technical competencies of the ground level functionaries such as technical assistants, gram rojgar sahayaks, mates and other block and district functionaries needs to be strengthened regularly during the one year of assignment and impact on the to be developed assets, its efficient usage and maintenance should be made visible. This is the basis for the exit-strategy at the end of the project period. Agency should be proposing the various types of CB measures /tools (theme wise) with the quantum of target beneficiaries and GPs to be covered under this

component of the assignment. Enabling the resources to plan and implement such model approaches in future is the key success mantra of this CB approach.

e. Skill development of user groups

Productive assets like orchard, field channels, and water harvesting structures will be developed while implementing the models. User groups especially SHG members and farmer's group will be promoted and linked with the assets. Developing the skill of user groups on generating the livelihood prospects and maintaining the assets is an integral part of the assignment. Facilitating agency should have competency in developing such skills among the user groups.

f. **Information, Education and Communication (IEC)**

Creating awareness about the environment, natural resources and its conservation is another important aspect of the assignment. The innovations around such IEC tools e.g. use of mobile communication or any other innovation to make MGNREGA information go viral is also one of the expected outputs from the facilitating agency under this assignment. Other knowledge products needed in case of any gap in the existing IEC processes of MGNREGA would also need to be developed. Facilitating productive Rojgar Diwas in each project GP and triggering the demand of works is to be considered as also an important activity under this assignment.

e. **Gender based interventions**

The GIZ project has a key mandate to enhance the active participation of women in Gram Sabhas during decision making process of MGNRGEA labour budget exercise. Besides that GIZ would like to support the betterment and wellbeing of the women in the rural areas through MGNREGA activities. Agency should propose a strategy and action plan to implement these intervention before the end of this assignment. Bringing some new approaches besides traditional trainings will be highly appreciated.

f. Convergence and partnerships

To deliver meaningful outputs, agency has to develop convergence strategies for relevant planned interventions with budget and implementation through PMKSY,SRLM and other the flagship initiatives of government. Partnerships with SIRD, CCOST, Agriculture Universities and other line departments for the technical and material support will be an added advantage for holistic approach of this assignment. Use of GIS based tools for planning, implementation and monitoring will be one of the key output to be considered for uniqueness of this assignment.

g. **Special initiatives for MGNREGA**

i. MGNREGA has mandated the geo-tagging of the all the MGNREGA assets in the project GPs and guidelines have been issued by MoRD / State MGNREGA cell and an online GIS based tagging device and software have been put in place. The agency has to ensure a quality based complete geo-tagging of all assets created under this support.
ii. GIZ has a developed an Environmental Matrix framework to prioritize the selection of NRM works and measure and monitor their impact from environmental benefits perspective. This approach will be piloted within the select GPs of the project area. Agency will need to support the piloting of this framework tool as part of its M&E process.
iii. Transiting from workers, especially women, from wage-earners to sustainable livelihoods emanating from assets created under implemented works is another mile stone to be achieved during this period of the assignment. Working on

common resources for other forms of income generation will be key. Enhancement of agricultural production as a result of project interventions and the assets developed under the assignment will be one possible value added by adopting the value chain approach. Agency should be capable and should propose potential interventions for selected GPs

h. **Monitoring and documentation**

The baseline for the three key parameters of environments soil, water and vegetation for the project area needs to be captured. Secondly the creating the baseline for social economic status of the members of the social institutions, women and other vulnerable sections. The agency should be documenting the best practices introduced, case studies at GP or individual level relevant to the project interventions. A state MIS for environmental and gender based indicator as per the project interventions proposed should be developed in coordination with GIZ and state / district MGNREGA MIS cell.

4. Duration of the Assignment: 1 December, 2016 to 20 November, 2017

5. Project Location - Kurud Block of District Dhamtari (State – Chhattisgarh)

6. Deliverables:

Assignment will have following deliverables

1. Capacity building manuals and other tools (bilingual – English and Hindi) for GP and block level functionaries especially GRS, Mate, Women Mate and User group/ labour group members for quality implementation of works, monitoring and maintenance as per the activities suggested in above sections

2. Finalised convergent plans for each of the 13 GPs, with labour budget and coordinated with Gram Panchayat Development Plan, etc. – in time and mainstreamed into MGNREGS cycle

3. Plantation User group, Sub water user association and other Livelihoods Groups based standard operating procedures, MOUs etc. for benefit sharing of irrigation facility and maintenance of assets created.
4. Guidelines, guidebook, policy feedback for GO and field books on the basis of experience and learning from the models

5. Capacitated local MGNREGA Resource Pool (trained Mate, Rojgar Sahyak and active Members) on planning, implementation and maintenance of watershed/INRM works

6. Skill development of user groups and SHGs on related livelihood opportunities and maintenance of assets like horticultural practices, efficient irrigation techniques, maintenance of field channels.

7. Innovations in enhancing technical backing up for quality implementation of works.

8. Mechanisms and System for tracking project indicators and environment and social indicators for assessment of results, including for baseline and endline. Agency has to facilitate EBM's use in planning of labour budget for 2018-19)

9. Documents and case studies on best practices and results

10. Demonstration of innovative value chain based interventions and convergence/linkages for livelihood promotion

11. Guidelines and SOPs for Orchard / PIM/ INRM in MGNREA in convergence with PMKSY for uptake and mainstreaming into Government systems

12. Development of DPR for the Model of intensive drainage line treatment and water conservation having maintenance and benefit sharing mechanisms through user groups, beneficiary group, and Gram Sabha committee etc.

13. Technical support to MGNREGA functionaries and user groups in creation of assets as per DPR and sanctioned order.

14. Support GIZ team and other consultants in field level process, reporting and coordination with GP, Block and District

15. 20 % higher involvement of women and weaker sections in gram sabhas as compared to baseline.

16. Ensuring that all assets developed are geo-tagged and all relevant information mainstreamed into NREGAsoft.

7. Required Qualifications and Experience

- Extensive experience in capacity building of community based organisations like SHGs, Irrigation user groups/ Water user associations, Gram Panchayat and block level functionaries on issues related to implementation of MGNREGA, NRM/ watershed Management through community based institutions like PRIs and Gram Sabha
- Proven commitment for advancement of women and MGNRGA target groups.
- Prior experience of working in the block Kurud (Dhamtari District) on NRM issues and have understanding of local context.
- Personnel with expertise related to technical capacity building of GP in Soil water conservation structures, horticulture, efficient irrigation facilities monitoring and documentation. Detail of team composition should be along with the CV of team members.
- Experience in implementation of government programs and track record of completion of tasks according to time lines
- Reporting and writing in English and Hindi
- Presence of office set up in the state of Chhattisgarh / project district will be an added advantage
- Credible and well known in the sector

8. Role of Stakeholders

Project is getting funded from MGNREGA, PMKSY and GIZ with corresponding commitments and guidelines.

Fund source	Basis of allocation	Major Heads	Role of GIZ	Expected role of Agency
MGNREGA	Demand of work for unskilled work from job card HHs and approved annual labour budget	INRM/ efficient Irrigation linked NRM activities	Coordinate with MoRD, State and District for fund flow as per demand and approved works Technical inputs on EB based on convergent model under MGNREGA as well as on Environmental Matrix	Facilitate demand for work from job card HHs, technically good implementation, follow up for timely payment
PMKSY	Budget of 14 cr is allocated as per sanction order of 15-16 (extended for 16-17) for top up material cost (40% above).	Material components above 40%, It includes admin, training, planning and impact assessment cost for NRM works related to efficient irrigation, water harvesting and ground water recharge	Coordinate with state MGNREGA for availability of fund for the project as per sanction letter Coordinate and follow up with District for availability of fund for capacity building and technical assistance as per PMKSY guideline	Utilization of PMKSY fund for material, capacity building, technical support
Others	To be proposed by agency			

It is expected that organization has to prepare an activity list (programs) in accordance with the above chart) as a part of technical proposal.

9. Reporting and Coordination

- Reports will be submitted as per reporting schedule mentioned in the time line and as and when required for the monitoring purposes.
- All reports will be submitted in English through soft copy in MS word and PDF.
- Training manuals, Case study, SOR and other programme documents will be submitted in Hindi and English along with soft copies.
- The consultant shall coordinate with the State Coordinator, Chhattisgarh and report to National Project Coordinator, GIZ New Delhi.

10. Team Composition

- Capacity Development Specialist: post graduate in Agriculture/ Horticulture with at least 10 years of experience on coordination and management of projects related to capacity building of GP level MGRNEGA functionaries, SHGs, federations, participatory development planning, community based livelihood institutions and natural resource management programs. Preference for on ground experience of Chhattisgarh and Dhamtari District.

- One Civil Engineer: with BE/ Diploma in Engineering / Graduation in Agriculture Engineering or similar courses with at least 5 years of field level experience in implementation of INRM/ Soil and Water conservation structures. Preference for on ground experience of similar geo-hydrological areas.

- Horticulture and Agriculture Expert – Post Graduate in Agriculture/Horticulture and professional experience of minimum 10 years in promotion of scientific horticulture and agricultural practices through community led processes. Experience of working with farmer's group and SHG will be an additional asset. Preference for on ground experience of agro-climatic context of Chhattisgarh and Kurud Block.

- One Participatory Irrigation Management Specialist: Graduate with experience of 5 years in promotion of community owned participatory irrigation management practices and efficient irrigation techniques. Experience of promotion of farmer's producer company will be added advantage.

- One Monitoring and documentation Specialist – Graduate with 3 years of experience and proven record of facilitating M & E in projects.

- Three CLAMP (Community led Asset Management Practices) Facilitators – Graduate in Agriculture/ Horticulture with experience of field level processes of MGNREGA and hand holding support to GP level stakeholders in implementation of works related to Natural resource management. Preference for on ground experience of Kurud Block.

Indicative Person days:

Resource Person/ Team Members	Total Person Days
Capacity development specialist	84
Civil Engineer	72
Horticulture and Agriculture Expert	84
Participatory Irrigation Management Expert	72
Documentation and M&E expert	48
CLAMP Facilitators 1	264
CLAMP Facilitators 2	264
CLAMP Facilitators 3	264
Total	1152

Annexure I: List of Select Gram Panchayat in Kurud block of Dhamtari District

District	Block	Core GPs		GP selected in Kurud block for expansion
Dhamtari	Kurud	1. Parkhanda	1	Joratarai
		2. Nari	2	Saledeep
			3	Mandroud
			4	Gadhadeeh
			5	Parkhanda*
			6	Sirseda
			7	Gudguda
			8	Charbhata
			9	Nari *
			10	Mourikala
			11	Katholi
			12	Goji
			13	Sindhourikala

List of abbreviations

CLAMP	Community led asset management practices
C COST	Chhattisgarh Science and Technology Council
EB	Environment Benefits
GP	Gram Panchayat
HHs	House Holds
INRM	Integrated Natural Resource Managment
M&E	Monitoring and Evaluation
MGNREGA	Mahatma Gandhi National Rural Guarantee Act
MoRD	Ministry of Rural Development
NRLM	National Rural Livelihood Mission
NRM	Natural resource management
PMKSY	Pradhan Mantri Krishi Sichai Yojna
SRLM	State Rural Livelihood Mission