Environmental Benefits of Mahatma Gandhi National Rural Employment Guarantee Act (MGNGREA-EB)
TOR for
Facilitating Convergent Planning and Implementation of MGNREGA to Leverage Environmental Benefits through Sustainable NRM in Rajasthan for 2016-17

1. Background

Government of India is implementing Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA), with the objective to ensure livelihood security of people in rural areas by guaranteeing at least 100 days of wage employment per year to approximately 50 million rural households whose adult members willing to provide 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. The MGNREGA works have mostly focussed on income generation but also has the potential to generate environmental benefits such as increasing water availability and quality, minimizing land degradation improving soil health and building resilience to climate risks. 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.
GIZ and MoRD are jointly committed for project "Environmental benefits through Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA-EB). The objective of the project is "Gram Panchayat in the selected State implement MGNREGA works with high quality taking environmental aspects into consideration." Therefore, it is important to generate detail plans for assets to be created under the MGNREGA/ flagship schemes to achieve the objectives of sustainable and durable assets and climate resilience. 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

A set of indicators for monitoring and evaluating the quality and environmental and gender impacts of the works have been developed and tested.

The indicators:
Indicator 1: The Gram Sabhas take environmental aspects into account at 75% of the demonstration sites, when selecting Mahatma GandhiNREGA measures;
Indicator 2: Participation by women in these Gram Sabhas is at least 20% higher on average than at the start of the programme;
Indicator 3: The Mahatma GandhiNREGA M&E system in the three Federal States documents regularly the quality of performance, environmental impacts and results for women for the implemented projects;
Indicator 4: The MoRD has recommended five of the proposals for promoting the positive environmental impacts of Mahatma GandhiNREGA for national dissemination; these proposals are taken into account in the planning at other sites.

2. Project Location

GIZ supports the Union Ministry of Rural Development as well as Governments, districts and Gram Panchayats (GPs). The Project is being carried across 3 States of Andhra Pradesh, Chhattisgarh and Rajasthan at 6 districts and 12 Gram Panchayats. The project is focusing on implementing MGNREGA works with high quality, taking environmental aspects into consideration.

This assignment is primarily covering 4 panchayats located in Kotri block of Bhilwara district and Chittorgarh block of Chittorgarh district, situated in the undulating terrains central and south parts of Rajasthan. Some of the project components will be up-scaled at block level in respective blocks. Hence it will expand to 72 GPs of Chittorgarh block (39 GPs) district-Chittorgarh and Kotri block (33 GPs), district-Bhilwara (list of blocks wise GPs is enclosed as annexure).

3. Description of the Assignment and Objectives

The aim of the initiative is to facilitate participatory processes for planning & implementation, setup maintenance systems and build up capacity of local team (panchayat representative, local institutions) for developmental planning based on convergence of MGNREGA and flagship schemes. The village planning exercise will be strengthened with application of modern technology of **Geographic Information System (GIS)**.This will help them in arriving at informed planning decisions through optimisation exercises based on convergence of traditional geographical knowledge and data obtained through application of modern technology of GIS, Remote Sensing and Global Positioning System.

The main objectives of the assignment are:

- **a)** Generate awareness about environment benefits among different stakeholders including Mahatma Gandhi NREGA functionaries, MGNREGA workers and villagers
- **b)** Enhance effectiveness of Gram Sabha related to MGNREGA by increasing participation of women and vulnerable section and mainstreaming the environmental concerns in decision making process.
- **c)** Build capacity to plan, implement and maintain works related to environment benefits among stakeholders including functionaries, MGNREGA workers and villagers.
- **d)** Facilitate planning and execution of activities from convergence of MGNREGA and CSS/Flagships schemes while using modern technology of GIS
- **e)** Provide technical and process support in implementation and maintenance of demonstration site.
- **f)** Develop systems and procedures for regular assessment and maintenance of assets of environmental and social indicators at GP level.

4. Place of assignment :

State	District	Block	GPs
Rajasthan	Bhilwara	Kotri	33 Gram Panchayats
	Chittorgarh	Chittorgarh	39 Gram Panchayat
	Total no. of GPs (Villages)		72 Gram Panchayat (360 villages) *List of GPs enclosed as annexures*

4. Duration of the Assignment: 25th October, 2016 to 24th October, 2017

5. Expected Deliverables and Time Line

S.N.	Task	Time Line
1	**GIS based perspective plan Document**	
a	GIS based "Perspective Planning and Annual Action Planning and Labour Budgeting 2017-18" under MGNREGA in 4 project GPs	**Oct-Dec, 2016**
b	Mapping of potential works with the help of GIS technology for 'Annual Action Planning and Labour Budgeting 2017-18' in all 72 GPs of Chittorgarh & Kotri block	**Oct-Dec, 2016**
c	Upscaling of GIS based "Perspective Planning and Annual Action Planning and Labour Budgeting 2018-19" under MNREGA for all 68 GPs of Chittorgarh block (37 GPs) district-Chittorgarh and Kotri block (31 GPs), district-Bhilwara	**Jan-Aug, 2017**
d	Technical backstopping to the agency selected by GIZ for 'Digitisation and database creation' for "Perspective Planning and Annual Action Planning and Labour Budgeting 2018-19" under MNREGA for all 68 GPs of Chittorgarh block and Kotri block	**Oct-Dec, 2016**
2	**Preparation of GIS technology supported Detail Project Report (DPR) for 'Watershed Management Project Approach' under MGNREGA in 72 GPs of Chittorgarh and Kotri blocks.**	**Oct, 2016-July, 2017**
3	**Implementation of Environmental benefits works about 10 crores under MGNREGA in core 4 pilot GPs**	**Regular**
4	**Geo-Tagging of Mahatma Gandhi NREGA Assets in all 72 GPs of Chittorgarh & Kotri blocks**	**Oct-Dec, 2016**
5	**Knowledge Product Development**	
a	GIS-RS based planning tools (Module & virtual tour) for robust planning process.	**June, 2017**
b	Software for design & estimation of works for implementation of sustainable assets.	**May, 2017**
6	**Capacity Development Products**	
a	ICT based capacity building module on 'MGNREGA & technical aspects' for officials i.e. Mate, BFTs and JTA etc for capacity development.	**May, 2017**
b	Develop and implement capacity building manuals and programs for GP and block level functionaries especially GRS, Mate, Women Mate and SHG members for quality implementation of works, monitoring and maintenance	**June, 2017**
7	**Environmental Matrix / indicators piloting as per GIZ guidelines**	**Regular**
8	**IEC and Capacity building activities to achieve project outcomes indicators 1 & 2**	**Regular**
9	**Gender based trainings and other intervention under MGNREGA as per GIZ guidelines**	**Regular**

6. Expected Out comes

1. Gram sabhas with participation of women (40%) and marginal sections finalize Annual plans considering environmental benefits of the works.
2. Gram Sabha will take in the proceeding for approval at least 75% Environmental benefits works for Annual Action Plan & Labour Budgeting under MGNREGA.

3. Monitoring system for quality of work, tracking changes on environment and social indicators for assessment of results.
4. Methodology evolved for ensuring processes, mandated social equity and environmental aspects.
5. GIS-RS based planning tools developed and used for 4 Perspective Plans.
6. Work design & estimates of NRM works in 4 GPs prepared with software designed.
7. App based capacity building module on 'MGNREGA & technical aspects' developed
8. Dissemination of model works for upscaling.
9. Framework for convergence of programmes.
10. community based systems(including developing standard operating procedures) for benefit sharing and maintenance of assets created

7. Report and Time Line:

S.No.	Reports	Time Line
1	Inception report	15 November, 2016
2	GIS based Participatory planning	December, 2016 & July, 2017
3	GIS based DPRs for Watershed Approaches	March, 2017 & June, 2017
4	Design and estimates	October to December & April to August
5	Training of GP level functionaries	As per training schedule
6	Community mobilization	Regular
7	Technical support and monitoring	Regular
8	End term Report	October 17

The final report shall be provided as word file and be shared latest by 31s August, 2017. The consultant shall coordinate the assignment with and report to the Programme Director – NRM, and coordinate with Technical Expert, GIZ New Delhi.
All soft and hard copies of documents (strategy, plans, etc), reports, tools and materials developed and submitted by the agency will become and remain the property of the GIZ and they will not have any rights to copy, retain, reproduce, use the documents (strategy, plans, etc), reports, tools and materials without written approval of GIZ. The agency will, not later than upon termination/ foreclosure or expiration of the contract, deliver all soft and hard copies to GIZ, together with a detailed inventory thereof.

8. Required Qualifications and Experience for the agency

The agency must have the following qualifications and experience:

1. Be a registered as national organization or entity, must have registered office set up in Rajasthan
2. A proven track record of professionalism and ethical conduct,
3. Relevant technical knowledge, skills and extensive work experience in: Assessing the technical designs of different civil structures especially related to soil and water conservation and other climate resilience measures and, as well as in capacity building,
4. Expertise and experience in management of Natural resources and Mahatma Gandhi NREGA
5. Have expertise of using GIS in planning and designing of natural resources works under Mahatma Gandhi NREGA.
6. Having good knowledge and rapport with local communities
7. Experience in providing consulting services / implementation and excellent track record of completion of tasks according to time lines,
8. Excellent reporting and writing skills.
9. Well qualified and experienced key professional staff

10. Person Days

The anticipated person days for each proposed expert for this assignment are depicted below:

Resource Person	Man days
Team Leader (NRM Expert)	120
GIS Expert	150
CD & Gender Expert	150
Software Expert	150
Field Coordinator(two)	400
Total	**970**

Annexure: List of Gram Panchayats in Kotri Block (Status March 2016)

	Panchayat	Job cards			HHs worked			Person-days		HHs with 100 day
		Total	SC	ST	Total	SC	ST	Total	women	
1	Akola	1,009	196	54	219	51	21	10,254	6,935	11
2	Ama	1,140	139	16	220	19	3	7,534	6,081	0
3	Asop	1,213	164	69	299	65	13	10,651	8,603	1
4	Badla	995	201	52	179	54	8	7,443	5,468	5
5	Badliyas	845	291	11	167	57	1	5,336	4,711	3
6	Banka Khera	1,102	124	38	220	45	6	10,424	9,319	10
7	Birdhol	1,448	135	79	389	46	30	11,142	9,083	2
8	Bishniya	2,261	277	44	153	55	4	2,447	2,022	0
9	Borda	744	62	105	258	27	57	7,254	6,025	0
10	Chaprel	1,220	183	65	388	53	27	9,529	7,951	0
11	Dantada	813	158	77	326	84	33	16,472	13,411	8
12	Gehunli	2,056	327	56	373	68	22	11,886	9,400	1
13	Gendaliya	1,004	248	24	126	52	4	1,823	1,175	0
14	Genga ka Khera	1,446	297	50	168	54	8	2,323	2,020	0
15	Jawal	1,173	182	104	221	47	33	9,789	8,091	6
16	Jiwakhera	1,599	196	42	458	65	14	14,048	12,588	3
17	Kakroliya Ghati	2,579	296	127	594	80	51	21,069	18,341	10
18	Kanti	962	104	98	507	67	78	21,777	18,048	13
19	Kisangarh	857	230	20	168	68	9	6,794	5,447	1
20	Kothaj	1,151	182	136	204	8	52	4,135	3,080	0
21	Kotri	3,579	398	47	250	61	1	7,202	6,267	1
22	Lasariya	1,108	183	78	347	62	53	12,564	10,499	15
23	Mansha	1,357	182	153	543	94	71	27,153	24,232	6
24	Nandrai	2,376	338	84	405	65	23	13,588	11,556	26
25	Paroli	2,084	369	64	532	96	22	19,911	17,069	15
26	Rached	828	190	92	345	117	49	18,341	15,871	27

27	Redwas	1,392	324	59	206	60	1	8,260	7,406	3
28	Reeth	2,366	221	104	152	17	2	5,048	3,389	0
29	Sankhara	1,042	188	31	214	60	7	6,629	5,624	0
30	Satola ka Khera	1,243	274	74	74	27	4	1,527	1,345	0
31	Sawaipur	1,263	373	50	53	27	9	1,163	702	0
32	Suthepa	1,555	258	31	163	48	0	5,350	4,820	0
33	Udliyas	1,573	191	51	310	58	10	11,711	9,286	1
	Total:	**47,383**	**7,481**	**2,185**	**9,231**	**1,857**	**726**	**3,30,577**	**2,75,865**	**168**

Annexure: List of Gram Panchayats in Chittaurgarh Block (Status March 2016)

S no.	Panchayat	Job cards			HHs worked			Person-days		HHs with 100 day
		Total	SC	ST	Total	SC	ST	Total	women	
1	Abhaypur	983	50	460	333	15	181	16,341	11,297	29
2	Amarpura	1,052	149	332	219	35	86	10,542	6,712	10
3	Anwalheda	763	107	205	99	13	27	4,460	3,490	3
4	Arniya Panth	703	129	62	106	17	26	3,465	2,628	1
5	Badodiya	1,085	132	71	98	16	4	5,191	3,724	12
6	Bassi	1,003	373	52	172	65	1	9,083	8,022	32
7	Chiksi	706	193	14	174	55	3	7,643	7,106	3
8	Dewri	682	60	129	94	18	19	3,836	2,517	6
9	Dhanet Kalan	494	221	46	85	49	6	3,501	2,737	7
10	Eral	754	188	144	167	61	36	6,742	5,625	7
11	Gatiyawali	694	154	124	162	27	47	9,196	7,032	25
12	Ghosunda	911	255	42	136	46	1	6,785	6,409	5
13	Ghosundi	592	143	168	36	15	8	1,574	777	1
14	Gilund	792	182	173	315	70	66	16,009	12,676	38
15	Jalampura	527	183	183	120	47	59	4,317	2,901	3
16	Kashmir	568	73	90	121	30	30	6,316	4,430	15
17	Kelzar	795	120	402	273	16	176	13,514	8,628	12
18	Nagri	864	290	69	116	23	31	6,405	4,251	9
19	Narela	1,002	338	39	117	36	16	6,612	5,623	6
20	Netawal Maharaj	881	206	91	132	51	14	7,835	5,296	15
21	Netawalgarh	1,067	221	281	157	26	43	7,636	4,233	1
22	Ochhadi	225	59	43	30	11	2	1,373	885	0
23	Odund	785	108	85	305	51	31	14,447	10,364	14
24	Paal	530	59	41	64	7	5	3,270	2,264	1
25	Palka	987	158	82	184	36	22	10,220	7,331	16
26	Pandoli	782	171	100	195	41	30	12,046	8,908	24
27	Rolahera	608	206	70	104	62	11	6,050	4,520	19
28	Sadi	597	58	205	89	16	56	4,320	3,229	4
29	Sambhupura	564	157	74	108	26	20	6,071	4,245	8
30	Samri	1,022	164	82	224	24	5	8,606	7,197	2
31	Satpuda	673	133	49	151	40	15	7,274	5,921	12

32	Sawa	1,013	155	10	168	48	0	5,807	5,071	8
33	Sehnawa	523	136	28	108	35	7	6,269	4,978	17
34	Semaliya	642	157	53	170	57	24	9,339	7,068	10
35	Semalpura	845	435	101	109	73	12	6,640	4,932	3
36	Songar	839	165	159	190	53	20	10,078	6,315	2
37	Tumbadiya	733	128	66	195	43	40	11,111	7,731	29
38	Udpura	925	93	409	335	33	174	19,482	11,132	9
39	Vijaypur	936	207	181	237	39	69	12,682	10,054	30
	Total:	**30,147**	**6,516**	**5,015**	**6,198**	**1,426**	**1,423**	**3,12,088**	**2,28,259**	**448**