

Executive Summary of the DPR of Bhikhi Microwatershed Gawan Block, Giridih District, Jharkhand

1. Project details, present status of the area:

Gawan Milliwatershed (IWMP-10) project is located in Gawan Block, Giridih District of Jharkhand state. The project is a cluster of eleven micro-watersheds which are 2A4C2n1g, 2A4C2n1e, 2A4C2s2c, 2A4C2s2b, 2A4C2l1a, 2A4C2l1f, 2A4C2l1b, 2A4C2s3a, 2A4C2l1g, 2A4C2l1h and 2A4C2l1c being their respective codes. The total project area of the watershed is about 7216.540 hectare, out of which 6494.62 hectare has been undertaken to be treated under Integrated Watershed Management Programme (IWMP) year 2010-14. The project area lies in the edges of Mica Mining of Koderma and Giridih district and also known for *Dibhra Collection and Extremist activity*.

Bhikhi Microwatershed (2A4C2l1h) lies in the Gawan block, Giridih district of the Jharkhand state. It has the geographical area of 746.14 hectare. The proposed treatment area is 671.526 hectare and the total cost of **Bhikhi Microwatershed (2A4C2l1h)** is 80.58 lakhs (Eighty Lakhs and Fifty Eight Thousands). The **Bhikhi Microwatershed** is bounded by 24°33'56.49" to 24 °36'30.74" North latitude and 85° 51' 14.06" to 85 ° 53'06.06" East longitude. Biodiversity refers to variation and abundance of species in their living environment. The people are solely dependent on forest for firewood, fodder, food and timber.

Bhikhi Microwatershed (2A4C2l1h) has a total of 974 households with a population of 5804 (*as per base-line survey*) out of which 2955 are male and 2849 female. The sex ratio is 1:00.96. There are 570 BPL families. The average family size is 6. The major castes in the village are Schedule Caste and OBC. Majority of population is involved in agriculture and animal husbandry. For employment they go to the mining in forest for Dibhra collection. During summer peoples are facing problem for drinking water.

2. Vision Statement:

Community organization in the form of SHG, UG and WC would be the basic of watershed processes and it would cover 70% of the watershed families. Natural Resource Management (NRM) interventions such as soil moisture conservation measures, water harvesting structures tanks, horticulture plantation etc are proposed to benefit 65% of the project families. It is expected that the NRM activities would increase ground water table by 3-4 meters, increase irrigated command area by additional 126 hectares. Additionally, it will check soil erosion, reduce run off, improve moisture

availability and improve the soil quality. 49% (net 327.82 Ha) of the watershed area will be brought under treatment. Cropping intensity will be increase up to 180% through different type of agriculture related intervention like demonstration and training. Through promotion of modern agriculture practices and proper management of water crop productivity will be increase 2-3 times in the case of Paddy and 1.5-2 times for wheat as compare to the present productivity. For vegetable cultivation the increase will be 8-10 times through increments in cultivation area. Micro enterprises such as Dairy, Poultry, goat rearing, Mushroom cultivation will ensure the livelihood of 30% of the project families with an additional annual income of over Rs. 20,000. These interventions are aimed to reduce the migration up to 25%.

Nearly 75% of the watershed families would be capacitated through various trainings, exposures, demonstrations etc. and to participate in activities implementation, monitor the progress of work at different level. The institutions promoted in the project villages are expected to take care of the assets and infrastructures. The Community Based Organizations will continue, expand and sustain the effort even after the completion of the project period.

3. PIAs strength: The DFO, Giridih is the PIA of Bhikhi Microwatershed. The PIA is responsible for supervising, planning, implementing, documenting and promoting watershed development projects in the area as per guidelines. The PIA have Dedicated and experienced staff and a multidisciplinary team to execute the watershed programme. PIA has experienced Civil Engineer, Agricultural Scientist, Horticulturist and Community Organizer as WDT member.

4. Salient Project Activities: In *Bhikhi Microwatershed*, People's participation and collective action are important ingredients for watershed management. Sustainability, equity and participation are the three basic elements which have been followed to execute the programme. Continuous Contour Trench, Farm Bunding, Water Absorption Trench, Seepage Tank, Farm Pond, Horticulture, Afforestation, Demonstration Plot to introduce rabi crop has taken to execute in the watershed. Various demonstrations Plot to improve agriculture practice and Trainings programme for capacity building to improve livelihood is planned to execute in the village. The details of the activity are given in **Annexure I**. The development activity will be carried out by the secretary and other member of Watershed Committee under joint supervision of President of WC and PIA. Further it is evaluated by the villager in Gram Sabha. Technical support to construction of water harvesting structure and capacity building programme will be looked after by the WDT member and PIA. A Total 26060

mandays have been created and a sum of Rs. 1.41 lakhs has been generated as watershed development fund.

5. Convergence: The total cost required for treatment of Bhikhi Microwatershed (2A4C2I1h) is ` 113.08 lakhs (One Crore Thirteen Lakhs and Eighty Thousands). The 32.50 lakhs has more funds for integrated development of village, so that amount would be pooled from convergence. For convergence programme MGNREGA, TSC , SSA and SGSY fund of Gawan Block and afforestation fund of Department of Forest will be used. In addition KVK, Giridih; BAU, Ranchi; and some NGO have been identified and approached for taking help for sustainable livelihood programme.

6. Exit policy: Watershed development fund has been collected and it will deposit in separate account for repairing and maintenance of watershed structure in future. Beside this the WC will also decide to charge some ` to users which is known as user charges which will also deposit in WDF account. Gram Sabha will be the last and final institution to take any decision to implement the programme and PIA will help to strengthen it. After completion of the project the entire watershed structures constructed in the area will be handed over the villagers through Gram Panchayat. The outcomes of the project will increase the income level, change standard of living, generate off farm and farm income and established linkage with bank.

Bhikhi Microwatershed (2A4C2I1h)									
Giridih, Jharkhand									
State Level Nodal Agency- Jharkhand State Watershade Mission (SLNA- JSWM)									
Name of PIA : DFO Giridih					No. of Families existing under Micro watershed : 974				
Name of micro Watershed: Bhikhi(Code 2A4C2I1h)					No. of BPL Families: 570				
Block covered: Gawan					No. of Exiting SHG : 00				
District: Giridih					No. of SHG to be formed : 52				
Name of villages: Aragaro, Jagtara, Parariya, Bhikhi, Khakhaswakoni, Kumhiatari					No. of Exiting UG : 00				
Total geographical area of Micro Watershed (Ha) : 746.140					No. of UG Formed : 42				
Total proposed area to be treated (Ha) : 671.526					No. of Exposure visit to be Conducted :14				
Total Budget (Rs. In Lakh): 80.58					No. of training to be proposed : 55				
					No. of Person Days to be Generated: 26060				
					Date of Approval from Gram sabha : 28/03/11				
Bhikhi Microwatershed (2A4C2I1h)									
Cumulative physical breakup for five Year Plan (2009-2014)									
S.No	Activities	Unit	physical target	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
1	Soil Conservation								
	i. Continuous Contour Trench	Ha. (400m/ha)	23.28	P	23.28	0	0	0	0
	ii. Water Absorption Trench	Ha. (100m/ha)	23.28	R	0	23.28	0	0	0
	iii. Loose Boulder Check	No.	50.00	O	50	0	0	0	0
	iv. Farm Bunding	Ha. (120m ³ /ha)	30.16	J	0	0	30.16	0	0
2	Water Conservation			E					
	i. Farm Pond (100x100x12 ft)	No.	12	C	1	4	3	3	1

	ii. Farm Pond (60x60x12 ft)	No.	2	T	1	0	1	0	0
	iii. Earthen Check Dam - 100ft length	No.	2	S	1	2	2	1	0
	iv. Earthen Check Dam - 150ft length	No.	6	A	1	1	2	2	0
	v. Earthen Check Dam - 220ft length	No.	2	N	0	0	1	1	0
	vi. Pond Renovation (100x100x6 ft)	No.	1	C	1	0	0	0	0
	vii. Ahar Renovation (400 ft)	No.	1	T	0	0	0	1	0
	viii. Ahar Renovation (250 ft)	No.	2	I	0	1	0	1	0
3	Plantation			O					
	i. Afforestation	Ha. (1100plant/ha)	23.28	N	0	23.28	0	0	0
	ii. Horticulture Dev.	Ha. (100 plant/ha)	12.60	E	0	0.00	12.60	0	0
4	Production System and Micro Enterprises(13%)			D					
	i. Agriculture demonstration	30 demo	30		5	10	10	5	0
	ii. SRI	33 families	33		8	10	10	5	0
	iii. Composite farming	2 families	2		0	0	1	1	0
	iv. Kitchen Garden	600 families	600		100	100	200	200	0
	v. Irrigation system	10 farmers	10		0	0	3	3	4
	v. Fruits plant distribution	513 families	513		513	0	0	0	0
5	Livelihood Activity (10%)								
	i. Goat farming	46 families	46		6	10	10	20	0
	ii. Poultry	30 families	30		10	10	10	0	0
	iii. Dairy Development	19 families	19		0	4	5	10	0
	iv. Mushroom cultivation	20 families	20		0	10	0	10	0
6	Institution and capacity building(5%)								
	i. SHG conceptual & basic training		6		3	3	0	0	0
	ii. Watershed Workshop		2		2	0	0	0	0
	iii. SHG exposure		2		1	1	0	0	0
	iv PIA		2		1	1	0	0	0

	v. UG for Resource Using		2		1	0	1	0	0
	vi. Training on Soil water Conservation		2		1	1	0	0	0
	vii. Vermicompost & Organic farming training		2		0	0	1	1	0
	viii. Training on forest & Horticulture Development		2		1	1	0	0	0
	ix. Exposure Visit W/s village		1		1	0	0	0	0
7	Entry Point Activity(4%)								
	i. Renovation of well		3		3				
	ii. Pond (50ft x 50ft x 8ft)		2		2				
	iii. Distribution of fruit trees		675		675				
	iv. Distribution of vegetable seeds		1		1				
	v. Training for vermicompost		1		1				
	vi. Distribution of school bags		104		104				
	vii. Onstruction of steps in Pond		1		1				
	viii. Promotion of hand weaving		1		1				
	ix. Drip Irrigation		1		1				
8	Preparatory phase								
	i. DPR preparation		1		1				

Signature of CEO, SLNA

Signature of PIA

Signature of
WDT

Signature of WC, secretary

Bhikhi Microwatershed (2A4C211h)										
Giridih, Jharkhand										
State Level Nodal Agency- Jharkhand State Watershed Mission (SLNA- JSWM)										
Name of PIA : DFO Giridih										
Name of micro Watershed: Bhikhi (2A4C211h)										
Block covered: Gawan										
District: Giridih										
Cumulative Financial breakup for five Year Plan (2009-2014)										
S.No	Activities	Quantity	Unit Cost (Rs)	Total Cost (Rs)	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
1	Soil Conservation									
	i. Continuous Contour Trench	23.28 Ha.	1903/-ha	44302	P	44302	0	0	0	0
	ii. Water Absorption Trench	23.28 Ha.	5500/- ha	128040	R	0	128040	0	0	0
	iii. Loose Boulder Check	50 No.	2900/- unit	145000	O	145000	0	0	0	0
	iv. Farm Bunding	30.16 Ha.	7490/ha	225898	J	0	0	225898	0	0
	Sub Total			543240	E	189302	128040	225898	0	0
2	Water Conservation				C					
	i. Farm Pond (100x100x12 ft)	12 no.	127100/- unit	1525200	T	127100	508400	381300	381300	127100
	ii. Farm Pond (60x60x12 ft)	2 no.	46700/- unit	93400	S	46700	0	46700	0	0
	iii. Earthen Check Dam - 100ft length	2 no.	87700/-unit	175400	A	0	0	87700	87700	0
	iv. Earthen Check Dam - 150ft length	6 no.	109300/-unit	655800	N	109300	109300	218600	218600	0
	v. Earthen Check Dam - 220ft length	2 no.	185000/-unit	370000	C	0	0	185000	185000	0
	vi. Pond Renovation (100x100x6 ft)	1 no.	48600/- unit	48600	T	48600	0	0	0	0
	vii. Ahahar Renovation (400 ft)	1 no.	64900/- unit	64900	I	0	0	0	64900	0
	viii. Ahahar Renovation (250 ft)	2 no.	60800/- unit	121600	O	0	60800	0	60800	0
	Sub Total			3054900	N	331700	678500	919300	998300	127100
3	Plantation				E					
	i. Afforestation	23.28 Ha.	13926/- ha	324197	D	0	324197	0	0	0
	ii. Horticulture (Mango etc.)	12.60 Ha.	16675/-ha	210151		0	0	210151	0	0
	Sub Total			534348		0	324197	210151	0	0

	Total 1+2+3 (51.28%)			4132488		521002	1130737	1355349	998300	127100
4	Production System and Micro Enterprises(13%)									
	i.Agriculture demonstration	30	4000/- unit	120000		20000	40000	40000	20000	0
	ii.SRI technique	33	5000/- unit	165000		40000	50000	50000	25000	0
	iii. Composite farming	2	30000/-unit	60000		0	0	30000	30000	0
	iv. Kitchen Garden	600	500/- unit	300000		50000	50000	100000	100000	0
	v. Irrigation system	10	30000/-unit	300000		0	90000	90000	120000	0
	vi. Fruits plant distribution	513	200/- unit	102581		102581	0	0	0	0
	Sub Total			1047581		212581	230000	310000	295000	0
5	Livelihood Activity (10.00%)									
	i.Goat farming	46	5000/- unit	229145		29145	50000	50000	100000	0
	ii.Poultry	30	6000/-unit	180000		60000	60000	60000	0	0
	iii. Dairy Development	19	15500/-unit	294500		0	62000	77500	155000	0
	iv. Mushroom cultivation	20	5000/-unit	102186		0	50000	0	52186	0
	Sub Total	115		805831		89145	222000	187500	307186	0
6	Institution and capacity building(5.00%)									
	i. SHG conceptual & basic training	150	12000/ unit x 6	72000		36000	36000	0	0	0
	ii. Watershed Workshop	50	13000/ unit x 2	26000		26000	0	0	0	0
	iii. SHG exposure	50	24000/unit x 2	48000		24000	24000	0	0	0
	iv PIA	10	28400/unit x 2	56800		28400	28400	0	0	0
	v. UG for Resource Using	50	13000/unit x 2	26000		13000	0	13000	0	0
	vi. Training on Soil water Conservation	30	24000/unit x 2	48000		24000	24000	0	0	0
	vii. Vermicompost & Organic farming training	20	24000/unit x 2	48000		0	0	24000	24000	0
	viii. Training on forest & Horticulture Development	50	13000/unit x 2	26000		13000	13000	0	0	0
	ix. Exposure Visit W/s village	40	52116/unit	52116		52116	0	0	0	0
	Sub Total	450		402916		216516	125400	37000	24000	0
7	Entry Point Activity(2.72%)									

	i. Renovation of well	3	48000		48000	0	0	0	0
	ii. Pond (50ft x 50ft x 8ft)	2	62000		62000	0	0	0	0
	iii. Distribution of fruit trees	675	27000		27000	0	0	0	0
	iv. Distribution of vegetable seeds	1	18000		18000	0	0	0	0
	v. Training for vermicompost	1	5000		5000	0	0	0	0
	vi. Distribution of school bags	104	16000		16000	0	0	0	0
	vii. Onstruction of steps in Pond	1	28000		28000	0	0	0	0
	viii. Promotion of hand weaving	1	8000		8000	0	0	0	0
	ix. Drip Irrigation	1	7000		7000	0	0	0	0
	Sub Total		219000		219000	0	0	0	0
8	Prepatory phase (1.00%)								
	i. DPR preparation		80583		80583	0	0	0	0
	Sub Total		80583		80583	0	0	0	0
9	Management Component (12%)								
	i. Administration cost (10%)		805831		161166	161166	161166	161166	161165
	ii. Monitoring (1%)		80583		16117	16117	16117	16117	16116
	iii. Evaluation (1%)		80583		16117	16117	16117	16117	16116
	Sub Total		966997		193400	193400	193400	193400	193397
10	Consolidation phase (5%)		402916						402916
	G.Total 1+2+3+4+5+6+7+8+9		8058312		1532227	1901537	2083249	1817886	723413

Signature of CEO, SLNA

Signature of PIA

Signature of WDT

Signature of WC, secretary

ACTIVITY MAP - Bhikhi Microwatershed

