

INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP)

Executive Summary
Of
DETAILED PROJECT REPORT (DPR)
(2009-2014)

PIA
Dalbhum Forest Division,
Jamshedpur, Jharkhand



S. No	Micro Watershed Name	Micro Watershed Code
1	Kadamdiha	4H3A4a4d
2	Karkata	4H3A4b1c
3	Kadokota	4H3A4b1e
4	Kesharda	4H3A4b1d
5	Pochakali	4H3A4a4c
6	Baharagora	4H3A4a4e

**STATE LEVEL NODAL AGENCY- JHARKHAND STATE WATERSHED
MISSION**

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DEPARTMENT OF LAND RESOURCES
MINISTRY OF RURAL DEVELOPMENT
GOVERNMENT OF INDIA
NEW DELHI

Message

One of the greatest legacies we can leave for future generations is clean and safe drinking water, availability of water for irrigation, improving the rural economy through alternative livelihoods and introducing the concept of sustainability in their lives. And I strongly believe that programmes like watershed development in Baharagora block is very important for the development of these areas which experience pronounced drought. The watershed development include soil conservation, water conservation, forestry development, agriculture development keeping people at the centre of development. If the people from villages in this watershed start work and cooperate with the PIA the impact of next drought will be greatly reduced.

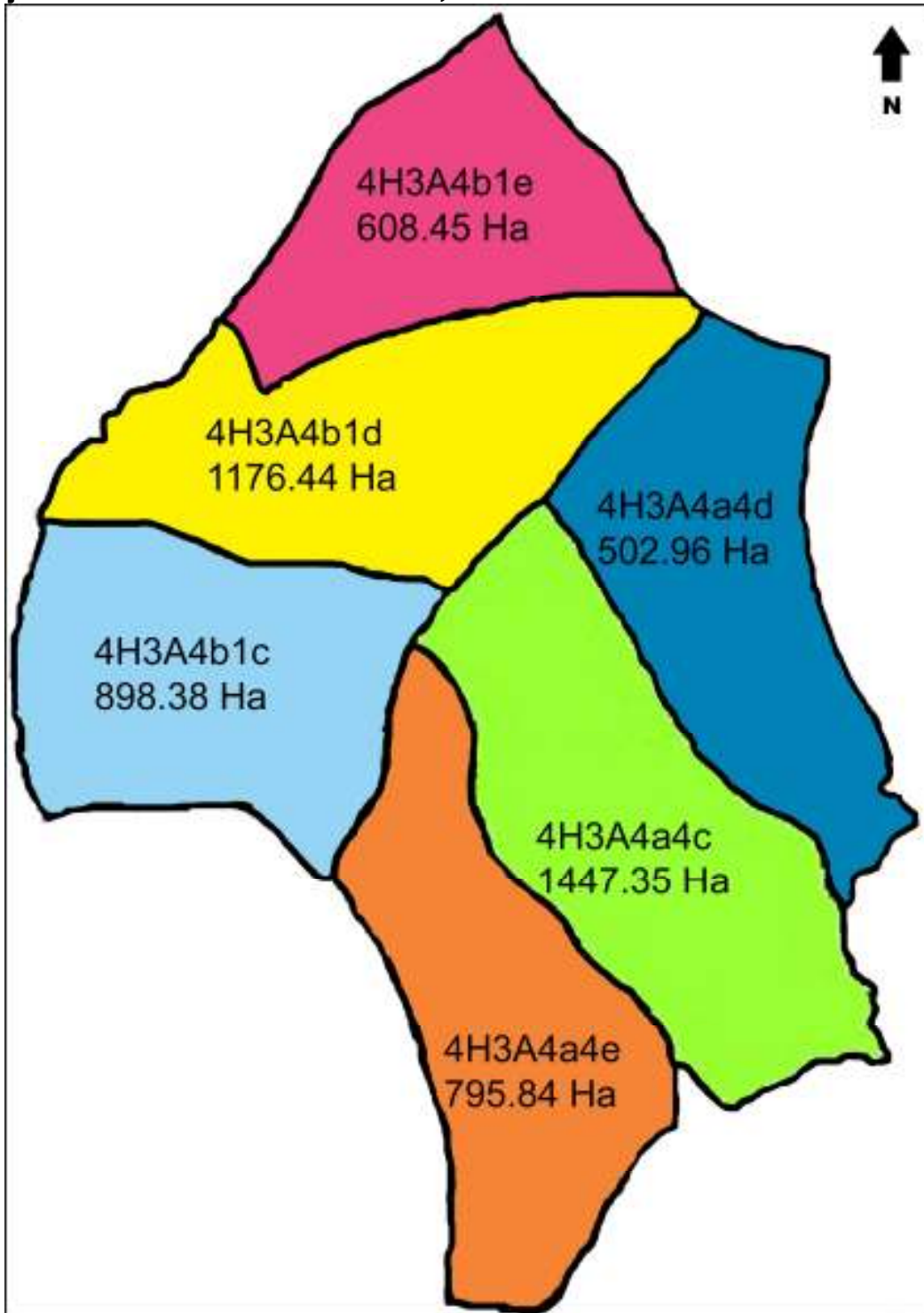
I appeal to all the concerned to kindly join hands and work together in spreading the message of watershed development among grass root and begin a process of maintaining ecosystem balance of rural India.

**Divisional Forest Officer,
Dalbhum Forest Division, (PIA)**

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Project Cluster- IWMP 2009-2010, Batch-I



*Map not in scale

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA - JSWM)																	
Abstract of Detailed Project Report (DPR) under / WMP 2009 - 10																	
Name of PIA : Daibhum Forest Division		Code of Micro Watershed : 4H3A4a4d, 4H3A4b1c, 4H3A4b1e, 4H3A4b1d, 4H3A4a4c, 4H3A4a4e															
Name of Micro Watershed : Kadamdiha, Karkata, Kadokota, Kesharda, Pochakhali & Baharagora		No of families existing under Micro Watershed : 3116 HH, Landless- 548 HH															
Districts : East Singhbhum		No of SHG to be formed : 112 No															
Blocks Covered : Baharagora		No of UG to be formed : 58 No															
No of Village : 54 Villages		No of Training to be Proposed : 221 No															
Total Geo. Area of Micro Watershed (Ha) : 5429.42 Ha		No of Exposure Visits to be Conducted : 48 No															
Total Proposed Area to be Treated (Ha) : 3955.30 Ha		Nos of Persons Days to be Generated : 119647 No															
Total Budget (Rs. In Lakhs) : 474.64 Lakhs		Approval from Gram Sabha : Approved															
Micro Watershed Wise Physical (Nos / Ha / Rmt / Others) and Financial (in Rs. Lakhs) Details																	
S.N	Budget Head	Details of Activities	Unit	Grand Total		4H3A4a4d		4H3A4b1c		4H3A4b1e		4H3A4b1d		4H3A4a4c		4H3A4a4e	
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	Entry Point Activities	a) Distribution of Mango Graft Seedling	No	9205	4.14	800	0.36	1450	0.65	805	0.36	2725	1.23	2550	1.15	875	0.39
		b) Distribution of seeds through revolving fund	No	1841	1.38	160	0.12	290	0.22	161	0.12	545	0.41	510	0.38	175	0.13
		c) Repairing of drinking well	No	13	1.87	2	0.21	3	0.46	1	0.18	1	0.17	4	0.56	2	0.29
		d) Distribution of gattor sprayer for farmers group	No	77	4.85	7	0.44	14	0.88	9	0.57	17	1.07	22	1.39	8	0.50
		e) Distribution of fertilizer cum seed broadcaster for farmers group	No	73	3.29	7	0.32	14	0.63	7	0.32	15	0.68	22	0.99	8	0.36
		f) Cattle vaccination camp	No	25	1.25	3	0.15	4	0.20	4	0.20	5	0.25	5	0.25	4	0.20
		g) Solar street light	No	7	2.10	1	0.30	1	0.30	1	0.30	1	0.30	0	0.00	2	0.60
		h) Health Camp	No	1	1.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	1.00
	Sub Total			19.88		1.90		3.34		2.05		3.80		5.31		3.48	
2	Water Conservation works	a) Constructions of pond	No	16	29.28	1	1.83	2	3.66	2	3.66	3	5.49	5	9.15	3	5.49
		b) Dari Chuan	No	32	12.61	7	2.87	3	1.22	4	1.62	7	2.84	9	3.25	2	0.81
		c) Constructions of pucca Check Dam	No	10	46.51	1	4.65	2	9.31	1	4.65	1	4.65	3	13.95	2	9.30
		d) Pucca Well	No	4	6.68	0	0.00	1	1.67	0	0.00	2	3.34	1	1.67	0	0.00
		e) Earthen Dam	No	2	4.70	0	0.00	0	0.00	0	0.00	1	2.35	1	2.35	0	0.00
		f) Ring Well	No	1	0.82	0	0.00	1	0.82	0	0.00	0	0.00	0	0.00	0	0.00
	Sub Total			100.61		9.35		16.68		9.93		18.67		30.37		15.60	

S.N	Budget Head	Details of Activities	Unit	Grand Total		4H3A4a4d		4H3A4b1c		4H3A4b1e		4H3A4b1d		4H3A4a4c		4H3A4a4e			
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin		
3	Soil conservation works	a) Loose Boulder structure (100x4' x 4')	No	44	45.76	6	6.24	10	10.40	5	5.20	7	7.28	13	13.52	3	3.12		
		b) Loose Boulder structure (25x4'x 4')	No	91	24.57	14	3.78	19	5.13	12	3.24	10	2.70	25	6.75	11	2.97		
		c) Contour trench	Ha	307	23.40	33	2.57	19	1.48	28	2.18	92	7.18	85	6.08	50	3.90		
		d) Levelling of land	No	231	42.11	10	1.80	45	8.10	28	5.04	65	11.70	51	9.71	32	5.76		
		Sub Total				135.84		14.39		25.11		15.66		28.86		36.06		15.75	
3	Institutional & capacity building	a) SHG/UG/WC	No	52	8.81	7	1.06	9	1.31	11	0.79	8	1.76	14	3.33	3	0.55		
		b) NRM Related	No	47	2.66	6	0.22	6	0.22	6	0.24	9	0.32	14	1.48	6	0.17		
		c) Production System	No	55	6.41	7	0.64	9	1.42	14	1.02	10	1.46	5	0.40	10	1.47		
		d) Livelihood & Micro Enterprise	No	42	4.41	5	0.38	9	0.86	7	0.43	9	0.86	8	1.20	4	0.67		
		e) PIA/WDT	No	20	0.80	2	0.07	4	0.14	2	0.07	4	0.14	4	0.22	4	0.14		
		f) Convergence/ Rights and entitlement/Well being related training	No	15	0.64	0	0.00	5	0.21	0	0.00	5	0.21	0	0.00	5	0.22		
		Sub Total				23.73		2.38		4.18		2.56		4.75		6.64		3.22	
		4	Livelihood activities	a) Goatry	No	32	16.00	4	2.00	3	1.50	2	1.00	9	4.50	10	5.00	4	2.00
				b) Poultry	No	21	19.53	1	0.93	5	4.65	2	1.86	3	2.79	6	5.58	4	3.72
				c) Art craft Dokra	No	2	1.42	2	1.42	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
d) Piggery	No			7	5.95	0	0.00	2	1.70	1	0.85	2	1.70	2	1.70	0	0.00		
e) Mudhi Making	No			2	0.27	0	0.00	0	0.00	0	0.27	0	0.00	0	0.00	0	0.00		
f) Fisheries	No			4	1.75	0	0.00	0	0.00	1	0.70	1	0.70	2	0.70	1	0.35		
g) Market Linkages of SHG Products	No			6	2.54	1	0.40	1	0.50	1	0.44	1	0.51	1	0.31	1	0.38		
Sub Total						47.46		4.75		8.35		5.12		9.50		13.29		6.45	
a) Stitching Machine	SHG			28	5.77	8	1.65	0	0.00	0	0.00	6	1.24	4	0.82	6	1.24	4	0.82
5	Production system and Micro enterprises	b) Mushroom unit	No	8	3.23	1	0.43	0	0.00	2	0.80	0	0.00	0	0.00	5	2.00		
		c) SRI Cultivation in Rice	Ha	65	12.30	8	1.51	8	1.51	8	1.52	6	1.14	24	4.54	11	2.08		
		d) Reclamation of Soil	Ha	69	1.63	15	0.36	4	0.10	11	0.26	20	0.46	10	0.24	9	0.22		
		e) Mango cultivation	Ha	53	21.12	5	2.00	17	6.77	6	2.40	4	1.60	15	5.97	6	2.39		
		f) HYV Tomato Demonstration	Ha	29	6.34	1	0.22	5	1.10	2	0.44	14	3.06	3	0.66	4	0.87		
g) Cashew Plantation	Ha	15	9.91	0	0.00	0	0.00	0	0.00	0	0.00	8	5.28	7	4.63	0	0.00		
h) Fishery	Ha	4	1.40	0	0.00	4	1.40	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00		
Sub Total				61.70		6.17		10.87		6.66		12.36		17.27		8.38			

S.N	Budget Head	Details of Activities	Unit	Grand Total		4H3A4a4d		4H3A4b1c		4H3A4b1e		4H3A4b1d		4H3A4a4c		4H3A4a4e	
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
6	Consolidation phase	a) Institutional linkages with Watershed Committee	No	9	9.00	1	1.00	2	2.00	1	1.00	2	2.00	2	2.00	1	1.00
		b) Experience sharing workshop at District Level	No	16	4.80	1	0.30	3	0.90	1	0.30	2	0.60	6	1.80	3	0.90
		c) Revolving fund for Village Level Institution	No	41	4.10	5	0.50	7	0.70	1	0.10	10	1.00	11	1.10	7	0.70
		d) Contingency fund to Watershed Committee	No	9	5.83	1	0.58	1	0.58	1	1.16	2	1.15	3	1.74	1	0.62
		Sub Total				23.73		2.38		4.18		2.56		4.75		6.64		3.22
7	Project Admin				47.46		4.75		8.35		5.12		9.50		13.29		6.45
8	Monitoring				4.75		0.48		0.84		0.51		0.95		1.33		0.64
9	Evaluation				4.75		0.48		0.84		0.51		0.95		1.33		0.64
10	DPR				4.75		0.48		0.84		0.51		0.95		1.33		0.64
Grand Total					474.64		47.49		83.58		51.20		95.04		132.86		64.47

Executive Summary of Kadamdiha Micro-Watershed

1. Present Status & Situational Analysis of the Project Area

The declining per capita land and fresh water availability coupled with soil erosion and depleting /degrading land and water resources are posing serious threat to food, environmental, social and economic security in the country.

The present micro watershed 4H3A4a4d is situated in Baharagora block of East Singhbhum district. This micro watershed covers essentially 4 village which includes Parasiya, Ghagra, Chandrapur and Kadamdiha, the total geographical area of which is 502.96 ha. The main occupation of the people living in this region is rainfed agriculture and the most important crop being rice. The two important tribes in the region include Santhal and Munda. Apart from agriculture the tribals earn their living by cattle rearing, selling firewood, etc. The most important centre for their economic activity is the weekly shandies and haats.

The area lies between 86° 32' E - 86° 54' E and 22°12' N to 22° 26' N. It is in Baharagora Block of east Singhbhum District .It shares its border with states of Orissa and West Bengal. The area is part of subarnarekha basin and the present micro watershed belongs to second order watershed .The soils are lateritic soils, they are acidic and fine in texture, they belong to older Alfisols. Due to dissected terrain there is severe erosion which is eating up the cultivated area. Some areas around Ghagra and Kadamdiha are vulnerable to erosion where small to medium type gullies are formed.

The status of water in the region is very poor, hardly 10% of the area is irrigated and the rest is rainfed .Due to water deficit only one crop is taken in a year from most of the region. There is lack of irrigation facilities due to poor ground water table and lack of water harvesting structures. There are two streams running in the area i.e. Rangro and Poochakali which lead into Swarnarekha river. The canal from Swarnarekha multipurpose project passes through one village in the micro watershed, however the development of the project is very slow. The water table is also very low, especially in the village Parasiya the water table is as low as 17 m .But as observed the region has a huge potential for exploitation of ground water resources, very small amount of water is extracted through tube wells. The main reason being it is difficult to strike the aquifer at majority of places, it is found at a depth of 200 feet and it is very expensive.

Agriculture is largely rainfed, with upland rice as monocrop. In rabi season rice is grown only by farmers who are in downstream around the water pockets. The flow of water is obstructed by putting a bund across the flow. As a whole agriculture is not flourishing in the region as there is no diversification of crops, crops are not grow according to capability class, low agriculture inputs, farmers cannot afford modern implements or high yielding varieties, These are some of the reasons of low agriculture productivity. Livestock rearing is second most important activity in the region. The total numbers of cows are around 502 but the milk yield is very less as no superior breeds are found in the region as there is deficiency of fodder and pastures, moreover tribal in the area do not consume milk. Buffaloes are very few but goats and sheep are in plenty as they are hardy type and kidding is very fast and they generate lots of revenue.

2. Vision Statement:

The implementation of proposed perspective and strategic plan of IWMP in Jharkhand during 11th, 12th, 13th and 14th plan periods is expected to have outcomes and impacts on social, economical and ecological dimensions. The state will have large numbers of grass-root social institutions of farmers / entrepreneurs / service providers / community leaders / women / etc. in the form of Watersheds Committees, Self Help Groups, User Groups, Water User Associations and its' associated tiers. The treatment will have impacts on water table, drinking water availability, irrigated area in the state, cropping intensity and diversification of crops, development of production clusters pertaining to various farm, farm allied and forest based sub – sectors and overall rural economy and state gross domestic production.

Some of the expected outcomes from this project in Kadamdiha Micro Watershed of Baharagora Block are as follows:

- ✚ Conservation, development and sustainable management of natural resources including their use.
- ✚ Enhancement of agriculture productivity and production in sustainable manner.
- ✚ Restoration of ecological balance in the degraded and fragile rainfed ecosystem by greening these areas through appropriate mix of trees and shrubs and grasses.
- ✚ Reduction in regional disparity between irrigated and rainfed areas.
- ✚ Creation of sustained employment opportunities for the rural community including the landless
- ✚ Water will be available for a longer period of time for irrigation and domestic use.
- ✚ Increase in crop yield and diversification of crop will be imminent.
- ✚ The tendency to migrate to other places will decrease a lot during the off seasons

Nearly 75% of the watershed families would be capacitated through various trainings, exposures; demonstrations etc. to plan, implement, productivity enhancement and monitor the progress of work. The Watershed Development Fund would be created from the contribution of beneficiaries, as proposed in Common Guideline 2008 and the fund would be utilized after the completion of the project. 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. Institutional Arrangements

The watershed development mainly focuses on local communities as natural resource managers. The present agreement is of mutual Interactions between stake holders which could enhance the efficiency of watershed program. Critical Institutional mechanisms and actors linkages in the program is done for efficient implementation and overall development of social capital in terms of gender, equity, sustainability and improved livelihood .And in doing so the natural resources would be managed in a proper perspective i.e. sustainable. It has been seen that DRDAs over the years have been loaded with implementation of various developmental programme. Watershed development programme being participatory in approach, process oriented and time bond, the SLNA expressed concern over the dynamics of fund flow, and overall implement ability of the programme in the state. Watershed programme being critical for the state, it was decided by the SLNA to explore for an alternate mechanism for the implementation of the programme and proposed that FDA/ DWDU should be given the responsibility of implementation and monitoring of the

programme at the district level under the overall supervision of SLNA. Considering the above, the Government of Jharkhand proposes to administer, implement, supervise, monitor and evaluate IWMP directly through SLNA physically and financially.

4. Salient Project Activities

- Integrated and overall development by strengthening the production systems and livelihood support systems.
- Conservation of natural resources like soil and water and making it available for a longer period of time leading to protection of biodiversity.
- Generate employment to the people and reduce poverty.
- Capacity building and provide livelihoods to people below poverty line and landless in watershed.
- People participation by way of forming WC, SHGs, UGs and to see that there is no friction in the institutional arrangement.
- Overall development of the habitat, by diversification in rural activities, like vegetable farming, fruit orchards, mushroom cultivation, etc. Moreover encouraging new farming systems like SRI(systems for rice intensification), micro irrigation in form of drip irrigation for efficient use of water.

Considering the context, baseline data analysis, PRA exercises and net planning; activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are one Diesel pump set, two well repairing at Parasiya & Ghagra village, 1 solar light at Kadamdiha village, 4 sprayers, 4 Paddy threshers, 1163 mango grafts which would cost 4% of the whole budget i.e.Rs.1.90 lakhs (approx.). 50% of the total budget of Rs. 47.49 lakhs will be spend over various activities under NRM like loose boulder check dams, contour trenches, Dari chua, renovation of water reservoirs, construction of pond, soil and moisture conservation technique etc. which covers almost all the families of the project area, Small holder's broiler poultry and goat rearing , stitching machine, Sal leaf plate making are under livelihood plans for the landless and marginalized families which is 10% of the budget amounting of Rs. 4.74 lakhs. Groups will be performing stitching, Sal leaf plate making, goatery, hatchery activities and will be imparted skill enhancement trainings like Cutting & tailoring, sal leaf plate making etc

A comprehensive training and capacity building plan would capacitate during the project period (2010-2014). The entire proposed plans would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

5. Convergence:

This fund is proposed to be mobilized at PIA level from the various schemes under the department of rural development, Govt. of Jharkhand. The schemes proposed for convergence are MGNREGS, KVK, DAO, State Agriculture department, Minor Irrigation department, Forest Department Other department etc. An effort is to be given in facilitation to the CBOs to influence external stakeholders to mobilize resources, e.g., various line departments locally and statewide. A coordinated effort of SLNA, DWDU and PIA would be required for the convergence.

6. Exit policy:

Suitable systems and processes proposed to be designed and implemented to manage and maintain all the assets created under the project with the help of Watershed development fund (WDF) collected from beneficiary in the form of contribution and deposited in a separate bank account. WDF will not be utilized during the project implementation period. However, it would be utilized for maintenance of community assets, common assets and other new initiatives after completion of the project. The interest accrued in this account may be utilized for meeting the administrative overhead expenses of the WC in post project period.

The interventions will be designed to ensure that after project implementation, the SHGs, UG and WC will not require any support for their operations. Village-based accountant and automated MIS system will be in place for SHGs and the operating cost of MIS system will be met by the SHGs. Further, all SHGs would be federated into a cluster to provide solidarity for SHGs. The WC members would be enabled to take up the responsibility of maintenance of assets and infrastructures and governance of the various institutions promoted. The business institutions like Producers' Collective would provide business support to producers on a sustainable basis with the help of trained Community Resource Persons (CRP). These systems will be in place and will be essential condition for the safe exit from the area.

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM)		Annexure I		Batch I	
Name of PIA : Dalbhum Forest Division		Code of Micro Watershed : 4H3A4a4d			
Name of Micro Watershed : Kadamdiha		No of families existing under Micro Watershed : 469 HH, Landless- 28 HH			
Districts : East Singhbhum		No of SHG to be formed : 17 No			
Blocks Covered : Bahargora		No of UG to be formed : 04 No			
Name of Village : Chandrapur, Kadamdiha, Parasiya and Ghagra		No of Training to be Proposed : 31 No			
Total Geog. Area of Micro Watershed (Ha) : 502.96 Ha		No of Exposure Visits to be Conducted : 00 No			
Total Proposed Area to be Treated (Ha) : 395.77 Ha		Nos of Persons Days to be Generated : 12863 No			
Total Budget (Rs. In Lakhs) : 47.49 Lakhs		Date of Approval from Gram Sabha : 26th Feb 2011			

Year Wise Physical Details for the Selected Micro-watershed

Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	Grand Total	
					Phy	Phy	Phy	Phy	Phy		
1	Entry Point Activities (EPA)	a) Distribution of Mango Graft Seedling	800	No	800	0	0	0	0	800	
		b) Distribution of seeds through revolving fund	160	No	160	0	0	0	0	160	
		c) Repairing of drinking well	2	No	2	0	0	0	0	0	2
		d) Distribution of gattor sprayer for farmers group	7	No	7	0	0	0	0	0	7
		e) Distribution of fertilizer cum seed broadcaster for farmers group	7	No	7	0	0	0	0	0	7
		f) Cattle vaccination camp	3	No	3	0	0	0	0	0	3
		g) Solar street light	1	No	1	0	0	0	0	0	1
		a) Construction of Pond	1	No	1	0	0	0	0	0	1
		b) Dari Chuan	7	No	7	3	2	2	2	0	7
		c) Check Dam Construction	1	No	1	0	0	1	0	0	1
2	Soil and Moisture Conservation	a) Loose Boulder Structure (100'x4'x4')	6	Ha	3	2	1	0	0	6	
		b) Loose Boulder Structure (25'x4'x4')	14	No	1	8	5	0	0	14	
		c) Staggered Contour Trenching	33	No	6	15	12	0	0	33	
		d) Levelling of land	10	Ha	2	2	2	4	0	10	
		a) SHG/UG/WC	7	No	0	2	1	4	0	7	
		b) NRM Related	6	No	0	2	2	2	0	6	
3	Capacity Building	c) Production System	7	No	0	2	2	3	0	7	
		d) Livelihood & Micro Enterprise	5	No	0	1	1	3	0	5	
		e) PIA/WDT	2	No	0	1	0	1	0	2	

Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy	Phy	Phy	Phy	Phy	Phy	Phy	Phy			
4	Livelihood for Assetless	a)Goatry	4	unit	0	0	1	0	0	0	3	0	0	0	4
		b)Poultry	1	Ha	0	0	1	0	0	0	0	0	0	0	1
		c)Art Crafts	2	No	0	0	1	0	0	0	1	0	0	0	2
		d)Market Linkages of SHG Products	1	No	0	0	0	0	0	0	0	0	1	0	1
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	8	Ha	0	0	2	1	1	5	0	0	0	0	8
		b)Mushroom Unit	1	Unit	0	0	0	0	0	1	0	0	0	0	1
		c)SRI Cultivation in Rice	8	Ha	0	0	0	1	1	7	0	0	0	0	8
		d)Reclamation of Soil	15	Ha	0	0	3	4	4	8	8	0	0	0	15
		e)Mango Plantation	5	Ha	0	0	1	1	1	3	0	0	0	0	5
		f)HYV Tomato Demonstration	1	No	0	0	0	1	1	0	0	0	0	0	1
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	1	No	0	0	0	0	0	0	0	0	1	0	1
		b)Experience sharing workshop at District Level	1	No	0	0	0	0	0	0	0	0	0	1	1
		c)Revolving fund for Village Level Institution	5	No	0	0	0	0	0	0	3	3	2	2	5
		d)Contingency fund to Watershed Committee	1	No	0	0	0	0	0	0	0	0	1	0	1
7	Project Admin.			...	...	...	...	...	...	...	...	...	...	...
8	Monitoring			...	...	...	...	...	...	...	...	...	...	...
9	Evaluation			...	...	...	...	...	...	...	...	...	...	...
10	DPR.			...	...	...	...	...	...	...	...	...	...	...
Total															

CEO,SLNA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure II Batch I

Name of PIA : Dalbhum Forest Division

Code of Micro Watershed : 4H3A4a4d

Name of Villages Covered :04

Year Wise Financial Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. in Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin		Fin		Fin		Fin		Fin		
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	800	No	0.00045	0.36		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
		b)Distribution of seeds through revolving fund	160	No	0.00075	0.12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
		c)Repairing of drinking well	2	No	0.107	0.21		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
		d)Distribution of gator sprayer for farmers group	7	No	0.063	0.441		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
		e)Distribution of fertilizer cum seed broadcaster for farmers group	7	No	0.045	0.32		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
		f)Cattle vaccination camp	3	No	0.05	0.15		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
		g)Solar street light	1	No	0.30	0.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
2	Water Conservation	a)Construction of Pond	1	No	1.83	1.83		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83
		b)Dari Chuan	7	No	0.41	0.00		1.23	0.82	0.00	0.00	0.82	0.00	0.00	0.00	2.87
		c)Check Dam Construction	1	No	4.65	0.00		0.00	0.00	4.65	0.00	0.00	0.00	0.00	0.00	4.65
		a)Loose Boulder Structure (100'x4' x4')	6	Ha	1.04	3.12		2.08	1.04	1.04	0.00	0.00	0.00	0.00	0.00	6.24
		b)Loose Boulder Structure (25'x4'x4')	14	No	0.27	0.27		2.16	1.35	1.35	0.00	0.00	0.00	0.00	0.00	3.78
		c)Staggered Contour Trenching	33	No	0.078	0.47		1.17	0.94	0.94	0.00	0.00	0.00	0.00	0.00	2.57
		d)Levelling of land	10	Ha	0.18	0.36		0.36	0.36	0.36	0.72	0.61	0.00	0.00	0.00	1.80
3	Capacity Building	a)SHG/UG/WC	7	No	0.152	0.00		0.30	0.15	0.15	0.07	0.07	0.00	0.00	0.00	1.06
		b)NRM Related	6	No	0.037	0.00		0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.22
		c)Production System	7	No	0.091	0.00		0.18	0.18	0.18	0.27	0.00	0.00	0.00	0.00	0.64
		d)Livelihood & Micro Enterprise	5	No	0.077	0.00		0.08	0.08	0.08	0.23	0.00	0.00	0.00	0.00	0.38
		e)PIA/WDT	2	No	0.036	0.00		0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.07

Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. in Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
4	Livelihood for Assetless	a)Goatry	4	unit	0.50	0.00	0.50	0.00	0.00	0.00	1.50	0.00	0.00	0.00	2.00	
		b)Poultry	1	Ha	0.93	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	
		c)Art Crafts	2	No	0.71	0.00	0.71	0.00	0.00	0.00	0.71	0.00	0.00	0.00	1.42	
		d)Market Linkages of SHG Products	1	No	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.40	
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	8	Ha	0.206	0.00	0.41	0.21	0.00	0.21	1.03	0.00	0.00	0.00	1.65	
		b)Mushroom Unit	1	Unit	0.43	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.43	
		c)SRI Cultivation in Rice	8	Ha	0.19	0.00	0.00	0.19	0.00	0.19	1.32	0.00	0.00	0.00	1.51	
		d)Reclamation of Soil	15	Ha	0.02	0.00	0.07	0.10	0.00	0.10	0.19	0.00	0.00	0.00	0.36	
		e)Mango Plantation	5	Ha	0.40	0.00	0.40	0.40	0.00	0.40	1.20	0.00	0.00	0.00	2.00	
		f)HYV Tomato Demonstration	1	No	0.22	0.00	0.00	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.22	
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	1	No	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	
		b)Experience sharing workshop at District Level	1	No	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.30	
		c)Revolving fund for Village Level Institution	5	No	0.10	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.20	0.00	0.50	
		d)Contingency fund to Watershed Committee	1	No	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.58	
7	Project Admin.				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	4.75		
8	Monitoring				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.48		
9	Evaluation				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.48		
10	DPR.				0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48		
Total						9.56	11.84	11.89	10.58	3.61	47.49					

CEO, SLNA
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PIA
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WDT
Signature

(WC - Secretary)
Signature

Executive Summary of Karkata Micro-Watershed

1. Present Status & Situational Analysis of the Project Area

The declining per capita land and fresh water availability coupled with soil erosion and depleting /degrading land and water resources are posing serious threat to food, environmental, social and economic security in the country.

The present micro watershed 4H3A 4blc is situated in Baharagora block of East Singhbhum district. This micro watershed covers essentially 8 villages which includes Karkata, Angarishol, Jhariya, Thakurdih, Purbajambari, Amdiha, Sirsi and Maheshpur, the total geographical area of which is 898.38 (ha). The main occupation of the people living in this region is rainfed agriculture and the most important crop being rice. The two important tribes in the region include Santhal and Munda. Apart from agriculture the tribals earn their living by cattle rearing, selling firewood, etc. The most important centre for their economic activity is the weekly haats.

The area lies between 86° 32' E - 86° 54' E and 22°12' N to 22° 26' N. It is in Bahragora Block of east Singhbhum District .It shares its border with states of Orissa and West Bengal. The area is part of subarnarekha basin and the present micro watershed belongs to second order watershed .The soils are lateritic soils, they are acidic and fine in texture, they belong to older Alfisols. Due to dissected terrain there is severe erosion which is eating up the cultivated area.

The status of water in the region is very poor, hardly 10% of the area is irrigated and the rest is rainfed .Due to water deficit only one crop is taken in a year from most of the region. There is lack of irrigation facilities due to poor ground water table and lack of water harvesting structures. The water table is also very low; especially in the village Angarisol & Karkata the water table is as low as 15 m.

Agriculture is largely rainfed, with upland rice as monocrop. In rabi season rice is grown only by farmers who are in downstream around the water pockets. The flow of water is obstructed by putting a bund across the flow. As a whole agriculture is not flourishing in the region as there is no diversification of crops, crops are not grow according to capability class, low agriculture inputs, farmers cannot afford modern implements or high yielding varieties, These are some of the reasons of low agriculture productivity. Livestock rearing is second most important activity in the region. The total numbers of cows are around 82 but the milk yield is very less as no superior breeds are found in the region as there is deficiency of green fodder and pastures, moreover tribal in the area do not consume milk. Buffaloes are very few but goats and sheep are in plenty as they are hardy type and kidding is very fast and they generate lots of revenue.

2. Vision Statement:

The implementation of proposed perspective and strategic plan of IWMP in Jharkhand during 11th, 12th, 13th and 14th plan periods is expected to have outcomes and impacts on social, economical and ecological dimensions. The state will have large numbers of grass-root social institutions of farmers / entrepreneurs / service providers / community leaders / women / etc. in the form of Watersheds Committees, Self Help Groups, User Groups, Water User Associations and its' associated tiers. The treatment will have impacts on water table, drinking water availability, irrigated area in the state, cropping intensity and diversification of crops, development of production clusters pertaining to various farm, farm allied and forest based sub – sectors and overall rural economy and state gross domestic production.

Some of the expected outcomes from this project in 4H3A4blc Micro Watershed of Baharagora Block are as follows:

- ✚ Conservation, development and sustainable management of natural resources including their use.
- ✚ Enhancement of agriculture productivity and production in sustainable manner.
- ✚ Restoration of ecological balance in the degraded and fragile rainfed ecosystem by greening these areas through appropriate mix of trees and shrubs and grasses.
- ✚ Reduction in regional disparity between irrigated and rainfed areas.
- ✚ Creation of sustained employment opportunities for the rural community including the landless
- ✚ Water will be available for a longer period of time for irrigation and domestic use.
- ✚ Increase in crop yield and diversification of crop will be imminent.
- ✚ The tendency to migrate to other places will decrease a lot during the off seasons

Nearly 70 to 75% of the watershed families would be capacitated through various trainings, exposures; demonstrations etc. to plan, implement, productivity enhancement and monitor the progress of work. The Watershed Development Fund would be created from the contribution of beneficiaries, as proposed in Common Guideline 2008 and the fund would be utilized after the completion of the project. 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. Institutional Arrangements

The watershed development mainly focuses on local communities as natural resource managers. The present agreement is of mutual Interactions between stake holders which could enhance the efficiency of watershed program. Critical Institutional mechanisms and actors linkages in the program is done for efficient implementation and overall development of social capital in terms of gender, equity, sustainability and improved livelihood .And in doing so the natural resources would be managed in a proper perspective i.e. sustainable. It has been seen that DRDAs over the years have been loaded with implementation of various developmental programme. Watershed development programme being participatory in approach, process oriented and time bond, the SLNA expressed concern over the dynamics of fund flow, and overall implement ability of the programme in the state. Watershed programme being critical for the state, it was decided by the SLNA to explore for an alternate mechanism for the implementation of the programme and proposed that FDA/ DWDU should be given the responsibility of implementation and monitoring of the programme at the district level under the overall supervision of SLNA. Considering the above, the Government of Jharkhand proposes to administer, implement, supervise, monitor and evaluate IWMP directly through SLNA physically and financially.

4. Salient Project Activities

- Integrated and overall development by strengthening the production systems and livelihood support systems.
- Conservation of natural resources like soil and water and making it available for a longer period of time leading to protection of biodiversity.
- Generate employment to the people and reduce poverty.
- Capacity building and provide livelihoods to people below poverty line and landless in watershed.

- People participation by way of forming WC, SHGs, UGs and to see that there is no friction in the institutional arrangement.
- Overall development of the habitat, by diversification in rural activities, like vegetable farming, fruit orchards, mushroom cultivation, etc. Moreover encouraging new farming systems like SRI(systems for rice intensification), micro irrigation in form of drip irrigation for efficient use of water.

Considering the context, baseline data analysis, PRA exercises and net planning; activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are one Diesel pump set, one Solar Lamp. At every village on Paddy Thresher and one Spray Machine has been distributed under EPA.

A comprehensive training and capacity building plan would capacitate during the project period (2010-2014). The entire proposed plans would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

5. Convergence:

This fund is proposed to be mobilized at PIA level from the various schemes under the department of rural development, Govt. of Jharkhand. The schemes proposed for convergence are MGNREGS, KVK, DAO, State Agriculture department, Minor Irrigation department, Forest Department Other department etc. An effort is to be given in facilitation to the CBOs to influence external stakeholders to mobilize resources, e.g., various line departments locally and statewide. A coordinated effort of SLNA, DWDU and PIA would be required for the convergence.

6. Exit policy:

Suitable systems and processes proposed to be designed and implemented to manage and maintain all the assets created under the project with the help of Watershed development fund (WDF) collected from beneficiary in the form of contribution and deposited in a separate bank account. WDF will not be utilized during the project implementation period. However, it would be utilized for maintenance of community assets, common assets and other new initiatives after completion of the project. The interest accrued in this account may be utilized for meeting the administrative overhead expenses of the WC in post project period.

The interventions will be designed to ensure that after project implementation, the SHGs, UG and WC will not require any support for their operations. Village-based accountant and automated MIS system will be in place for SHGs and the operating cost of MIS system will be met by the SHGs. Further, all SHGs would be federated into a cluster to provide solidarity for SHGs. The WC members would be enabled to take up the responsibility of maintenance of assets and infrastructures and governance of the various institutions promoted. The business institutions like Producers' Collective would provide business support to producers on a sustainable basis with the help of trained Community Resource Persons (CRP). These systems will be in place and will be essential condition for the safe exit from the area.

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure I Batch I																
Name of PIA : Dalbhum Forest Division		Code of Micro Watershed :4H3A4b1c														
Name of Micro Watershed : Karkata		No of families existing under Micro Watershed : 259 HH, Landless- 14 HH														
Districts : East Singhbhum		No of SHG to be formed : 12 No														
Blocks Covered : Bahargora		No of UG to be formed : 05 No														
Name of Village : Karkata, Angarishol, Jhariya, Thakurdih, Purbajambari, Amdiha, Sirsi & Maheshpur		No of Training to be Proposed : 42 No,														
Total Geog. Area of Micro Watershed (Ha) : 898.38 Ha		No of Exposure Visits to be Conducted : 00 No														
Total Proposed Area to be Treated (Ha) : 696.48 Ha		Nos of Persons Days to be Generated : 20894 No														
Total Budget (Rs. In Lakhs) : 83.58 Lakhs		Date of Approval from Gram Sabha : 18th March 2011														
Year Wise Physical Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total	
					Phy		Phy		Phy		Phy		Phy			
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	1450	No	1450	0	0	0	0	0	0	0	0	0	0	1450
		b)Distribution of seeds through revolving fund	290	No	290	0	0	0	0	0	0	0	0	0	0	290
		c)Repairing of drinking well	3	No	3	0	0	0	0	0	0	0	0	0	0	3
		d)Distribution of gattor sprayer for farmers group	14	No	14	0	0	0	0	0	0	0	0	0	0	14
		e)Distribution of fertilizer cum seed broadcaster for farmers group	14	No	14	0	0	0	0	0	0	0	0	0	0	14
		f)Cattle vaccination camp	4	No	4	0	0	0	0	0	0	0	0	0	0	4
		g)Solar street light	1	No	1	0	0	0	0	0	0	0	0	0	0	1
		a)Construction of Pond	2	No	1	1	1	0	0	0	0	0	0	0	0	2
		b)Dari Chuan	3	No	1	1	1	0	0	1	0	0	1	0	0	3
		c)Check Dam Construction	2	No	0	0	0	1	1	1	1	0	0	0	0	2
2	Water Conservation	d)Pucca Well	1	No	0	1	1	0	0	0	0	0	0	0	1	
		e)Ring Well	1	No	0	1	1	0	0	0	0	0	0	0	1	
		a)Loose Boulder Structure (100'x4'x4')	10	Ha	4	3	3	3	0	0	0	0	0	0	0	10
		b)Loose Boulder Structure (25'x4'x4')	19	No	5	7	7	7	0	0	0	0	0	0	0	19
		c)Staggered Contour Trenching	19	No	7	7	7	5	0	0	0	0	0	0	0	19
		d)Levelling of land	45	Ha	12	14	14	19	0	0	0	0	0	0	0	45

SI no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy		Phy		Phy		Phy		Phy		
3	Capacity Building	a) Training for SHG/UG/WC/PI Related	9	No	0		3		2		4		0		9
		b) NRM Related	6	No	0		2		2		2		0		6
		c) Production Enhancement related training	9	No	0		3		2		4		0		9
		d) Livelihood & Micro Enterprise	9	No	0		3		2		4		0		9
		e) PIA/WDT	4	No	1		1		2		0		0		4
		f) Convergence/ Rights and entitlement/Well being related training	5	No	2		1		2		0		0		5
4	Livelihood for Assetless	a) Goatry	3	unit	0		1		1		1		0		3
		b) Poultry	5	Ha	0		1		1		3		0		5
		c) Piggery	2	No	0		0		0		2		0		2
		d) Market Linkages of SHG Products	1	No	0		0		0		0		1		1
5	Productivity Enhancement and micro Enterprises	a) Fisheries	4	Ha	0		2		1		1		0		4
		c) SRI Cultivation in Rice	8	Ha	0		0		4		4		0		8
		d) Reclamation of Soil	4	Ha	0		1		1		2		0		4
		e) Mango Plantation	17	Ha	0		6		4		7		0		17
		f) HYV Tomato Demonstration	5	No	0		1		1		3		0		5
		a) Institutional linkages with Watershed Committee	2	No	0		0		0		0		2		2
6	Consolidation Phases Activities	b) Experience sharing workshop at District Level	3	No	0		0		0		1		2		3
		c) Revolving fund for Village Level Institution	7	No	0		0		0		1		6		7
		d) Contingency fund to Watershed Committee	1	No	0		0		0		0		1		1
				
7	Project Admin.														
8	Monitoring														
9	Evaluation														
10	DPR.														
		Total													

CEO, SLNA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure II Batch I

Name of PIA : Dalbhum Forest Division

Code of Micro Watershed : 4H3A4b1c

Name of Villages Covered :08

Year Wise Financial Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin		Fin		Fin		Fin		Fin		
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	1450	No	0.00045	0.65		0.00		0.00		0.00		0.00		0.65
		b)Distribution of seeds through revolving fund	290	No	0.00075	0.22		0.00		0.00		0.00		0.00		0.22
		c)Repairing of drinking well	3	No	0.15367	0.46		0.00		0.00		0.00		0.00		0.46
		d)Distribution of gattor sprayer for farmers group	14	No	0.063	0.882		0.00		0.00		0.00		0.00		0.88
		e)Distribution of fertilizer cum seed broadcaster for farmers group	14	No	0.045	0.63		0.00		0.00		0.00		0.00		0.63
		f)Cattle vaccination camp	4	No	0.05	0.20		0.00		0.00		0.00		0.00		0.20
2	Water Conservation	g)Solar street light	1	No	0.30	0.30		0.00		0.00		0.00		0.00		0.30
		a)Construction of Pond	2	No	1.83	1.83		1.83		0.00		0.00		0.00		3.66
		b)Dari Chuah	3	No	0.41	0.41		0.41		0.00		0.41		0.00		1.22
		c)Check Dam Construction	2	No	4.65	0.00		0.00		4.65		4.65		0.00		9.31
		d)Pucca Well	1	No	1.67	0.00		1.67		0.00		0.00		0.00		1.67
		e)Ring Well	1	No	0.82	0.00		0.82		0.00		0.00		0.00		0.82
		a)Loose Boulder Structure (100'x4'x4')	10	Ha	1.04	4.16		3.12		3.12		0.00		0.00		10.40
		b)Loose Boulder Structure (25'x4'x4')	19	No	0.27	1.35		1.89		1.89		0.00		0.00		5.13
		c)Staggered Contour Trenching	19	No	0.078	0.55		0.55		0.39		0.00		0.00		1.48
		d)Levelling of land	45	Ha	0.18	2.16		2.52		3.42		0.00		0.00		8.10
3	Soil and Moisture Conservation	a)Training for SHG/UG/WC/PI Related	9	No	0.146	0.00		0.44		0.29		0.58		0.00		1.31
		b)NRM Related	6	No	0.037	0.00		0.07		0.07		0.07		0.00		0.22
		c)Production Enhancement related training	9	No	0.158	0.00		0.47		0.32		0.63		0.00		1.42
		d)Livelihood & Micro Enterprise	9	No	0.096	0.00		0.29		0.19		0.38		0.00		0.86
		e)PIA/WDT	4	No	0.036	0.04		0.04		0.07		0.00		0.00		0.14
		f)Convergence/ Rights and entitlement/Well being related training	5	No	0.0426	0.09		0.04		0.09		0.00		0.00		0.21
4	Livelihood for Assetless	a)Goatry	3	unit	0.50	0.00		0.50		0.50		0.50		0.00		1.50
		b)Poultry	5	Ha	0.93	0.00		0.93		0.93		2.79		0.00		4.65
		c)Piggery	2	No	0.85	0.00		0.00		0.00		1.70		0.00		1.70
		d)Market Linkages of SHG Products	1	No	0.50	0.00		0.00		0.00		0.00		0.50		0.50

Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. in Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
5	Productivity Enhancement and micro Enterprises	a) Fisheries	4	Ha	0.35	0.00	0.70	0.35	0.35	0.00	0.35	0.00	0.00	0.00	0.00	1.40
		c) SRI Cultivation in Rice	8	Ha	0.19	0.00	0.00	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	1.51
		d) Reclamation of Soil	4	Ha	0.02	0.00	0.02	0.02	0.02	0.02	0.05	0.00	0.00	0.00	0.00	0.10
		e) Mango Plantation	17	Ha	0.40	0.00	2.39	1.59	2.79	1.59	2.79	0.00	0.00	0.00	0.00	6.77
		f) HIV Tomato Demonstration	5	No	0.22	0.00	0.22	0.22	0.66	0.22	0.66	0.00	0.00	0.00	0.00	1.10
		a) Institutional linkages with Watershed Committee	2	No	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
6	Consolidation Phases Activities	b) Experience sharing workshop at District Level	3	No	0.30	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.60	0.60	0.90	
		c) Revolving fund for Village Level Institution	7	No	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.60	0.60	0.70	
		d) Contingency fund to Watershed Committee	1	No	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.58	0.58	
7	Project Admin.				1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	8.35		
8	Monitoring				0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.84		
9	Evaluation				0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.84		
10	DPR.				0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84		
Total						16.76	20.92	20.88	18.73	6.28	83.58					

CEO, SLNA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

Executive Summary of Kadokota Micro-Watershed

1. Present Status & Situational Analysis of the Project Area

The declining per capita land and fresh water availability coupled with soil erosion and depleting /degrading land and water resources are posing serious threat to food, environmental, social and economic security in the country.

The present micro watershed 4H3A4ble is situated in Baharagora block of East Singhbhum district. This micro watershed covers essentially five villages which includes Chandodaya, Tilo, Kadokota, Kuldiha and Shimlabandi, the total geographical area of which is 898.38 ha. The main occupation of the people living in this region is rainfed agriculture and the most important crop being rice. The two important tribes in the region include Santhal and Munda. Apart from agriculture the tribals earn their living by cattle rearing, selling firewood, etc. The most important centre for their economic activity is the weekly haats.

The area lies between 86° 32' E - 86° 54' E and 22°12' N to 22° 26' N. It is in Bahragora Block of east Singhbhum District .It shares its border with states of Orissa and West Bengal. The area is part of subarnarekha basin and the present micro watershed belongs to second order watershed .The soils of some parts are lateritic soils, they are acidic and fine in texture, they belong to older Alfisols. Due to dissected terrain there is severe erosion which is eating up the cultivated area. All the villages are vulnerable to erosion where small to medium type gullies are formed.

The status of water in the region is very poor, hardly 10% of the area is irrigated and the rest is rainfed .Due to water deficit only one crop is taken in a year from most of the region. There is lack of irrigation facilities due to poor ground water table and lack of water harvesting structures. The water table is also very low, especially in the village shimalabandi, Kuldiha & chandoya the water table is as low as 15 m .But as observed the region has a huge potential for exploitation of ground water resources, very small amount of water is extracted through tube wells.

Agriculture is largely rainfed, with upland rice as monocrop. In rabi season rice is grown only by farmers who are in downstream around the water pockets. The flow of water is obstructed by putting a bund across the flow. As a whole agriculture is not flourishing in the region as there is no diversification of crops, crops are not grow according to capability class, low agriculture inputs, farmers cannot afford modern implements or high yielding varieties, These are some of the reasons of low agriculture productivity. Livestock rearing is second most important activity in the region. The total numbers of cows are around 82 but the milk yield is very less as no superior breeds are found in the region as there is deficiency of green fodder and pastures, moreover tribal in the area do not consume milk. Buffaloes are very few but goats and sheep are in plenty as they are hardy type and kidding is very fast and they generate lots of revenue.

2. Vision Statement:

The implementation of proposed perspective and strategic plan of IWMP in Jharkhand during 11th, 12th, 13th and 14th plan periods is expected to have outcomes and impacts on social, economical and ecological dimensions. The state will have large numbers of grass-root social institutions of farmers / entrepreneurs / service providers / community leaders / women / etc. in the form of Watersheds Committees, Self Help Groups, User Groups, Water

User Associations and its' associated tiers. The treatment will have impacts on water table, drinking water availability, irrigated area in the state, cropping intensity and diversification of crops, development of production clusters pertaining to various farm, farm allied and forest based sub – sectors and overall rural economy and state gross domestic production.

Some of the expected outcomes from this project in 4H3A4blc Micro Watershed of Baharagora Block are as follows:

- ✚ Conservation, development and sustainable management of natural resources including their use.
- ✚ Enhancement of agriculture productivity and production in sustainable manner.
- ✚ Restoration of ecological balance in the degraded and fragile rainfed ecosystem by greening these areas through appropriate mix of trees and shrubs and grasses.
- ✚ Reduction in regional disparity between irrigated and rainfed areas.
- ✚ Creation of sustained employment opportunities for the rural community including the landless
- ✚ Water will be available for a longer period of time for irrigation and domestic use.
- ✚ Increase in crop yield and diversification of crop will be imminent.
- ✚ The tendency to migrate to other places will decrease a lot during the off seasons

Nearly 75% of the watershed families would be capacitated through various trainings, exposures; demonstrations etc. to plan, implement, productivity enhancement and monitor the progress of work. The Watershed Development Fund would be created from the contribution of beneficiaries, as proposed in Common Guideline 2008 and the fund would be utilized after the completion of the project. 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. Institutional Arrangements

The watershed development mainly focuses on local communities as natural resource managers. The present agreement is of mutual Interactions between stake holders which could enhance the efficiency of watershed program. Critical Institutional mechanisms and actors linkages in the program is done for efficient implementation and overall development of social capital in terms of gender, equity, sustainability and improved livelihood .And in doing so the natural resources would be managed in a proper perspective i.e. sustainable. It has been seen that DRDAs over the years have been loaded with implementation of various developmental programme. Watershed development programme being participatory in approach, process oriented and time bond, the SLNA expressed concern over the dynamics of fund flow, and overall implement ability of the programme in the state. Watershed programme being critical for the state, it was decided by the SLNA to explore for an alternate mechanism for the implementation of the programme and proposed that FDA/ DWDU should be given the responsibility of implementation and monitoring of the programme at the district level under the overall supervision of SLNA. Considering the above, the Government of Jharkhand proposes to administer, implement, supervise, monitor and evaluate IWMP directly through SLNA physically and financially.

4. Salient Project Activities

- Integrated and overall development by strengthening the production systems and livelihood support systems.
- Conservation of natural resources like soil and water and making it available for a longer period of time leading to protection of biodiversity.
- Generate employment to the people and reduce poverty.
- Capacity building and provide livelihoods to people below poverty line and landless in watershed.
- People participation by way of forming WC, SHGs, UGs and to see that there is no friction in the institutional arrangement.
- Overall development of the habitat, by diversification in rural activities, like vegetable farming, fruit orchards, mushroom cultivation, etc. Moreover encouraging new farming systems like SRI (systems for rice intensification), micro irrigation in form of drip irrigation for efficient use of water.

Considering the context, baseline data analysis, PRA exercises and net planning; activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are well repairing, solar light, sprayers, mango grafts which would cost 4% of the whole budget i.e.Rs.2.048 lakhs (approx.). 50% of the total budget of Rs. 51.197 lakhs will be spend over various activities under NRM like loose boulder check dams, contour trenches, renovation of water reservoirs, construction of pond, soil and moisture conservation technique etc. which covers almost all the families of the project area, Small holder's broiler poultry and goat rearing , stitching machine, Sal leaf plate making are under livelihood plans for the landless and marginalized families which is 10% of the budget amounting of Rs. 5.12 lakhs (approx). Groups will be performing stitching, Sal leaf plate making, goatery, hatchery activities and will be imparted skill enhancement trainings like Cutting & tailoring, sal leaf plate making etc

A comprehensive training and capacity building plan would capacitate during the project period (2010-2014). The entire proposed plans would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

5. Convergence:

This fund is proposed to be mobilized at PIA level from the various schemes under the department of rural development, Govt. of Jharkhand. The schemes proposed for convergence are MGNREGAS, KVK, DAO, State Agriculture department, Minor Irrigation department, Forest Department Other department etc. An effort is to be given in facilitation to the CBOs to influence external stakeholders to mobilize resources, e.g., various line departments locally and statewide. A coordinated effort of SLNA, DWDU and PIA would be required for the convergence.

6. Exit policy:

Suitable systems and processes proposed to be designed and implemented to manage and maintain all the assets created under the project with the help of Watershed development fund (WDF) collected from beneficiary in the form of contribution and deposited in a separate bank account. WDF will not be utilized during the project implementation period. However, it would be utilized for maintenance of community assets, common assets and other new initiatives after completion of the project. The interest accrued in this account

may be utilized for meeting the administrative overhead expenses of the WC in post project period.

The interventions will be designed to ensure that after project implementation, the SHGs, UG and WC will not require any support for their operations. Village-based accountant and automated MIS system will be in place for SHGs and the operating cost of MIS system will be met by the SHGs. Further, all SHGs would be federated into a cluster to provide solidarity for SHGs. The WC members would be enabled to take up the responsibility of maintenance of assets and infrastructures and governance of the various institutions promoted. The business institutions like Producers' Collective would provide business support to producers on a sustainable basis with the help of trained Community Resource Persons (CRP). These systems will be in place and will be essential condition for the safe exit from the area.

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure I Batch I																
Name of PIA : Dalbhum Forest Division		Code of Micro Watershed : 4H3A4b1e														
Name of Micro Watershed : Kadakota		No of families existing under Micro Watershed : 290 HH, Landless- 33 HH														
Districts : East Singhbhum		No of SHG to be formed : 20 No														
Blocks Covered : Bahargora		No of UG to be formed : 05 No														
Name of Village : Chandoya, Tilo, Kadokota, Kuldiha & Shimlabandhi		No of Training to be Proposed : 40 No														
Total Geog. Area of Micro Watershed (Ha) : 608.45 Ha		No of Exposure Visits to be Conducted : 00 No														
Total Proposed Area to be Treated (Ha) : 426.64 Ha		Nos of Persons Days to be Generated : 12799 No														
Total Budget (Rs. In Lakhs) : 51.20 Lakhs		Date of Approval from Gram Sabha : 28th Feb 2011														
Year Wise Physical Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total	
					Phy		Phy		Phy		Phy		Phy			
1	Entry Point Activities (EPA)	a) Distribution of Mango Graft Seedling	805	No	805	0	0	0	0	0	0	0	0	0	0	805
		b) Distribution of seeds through revolving fund	161	No	161	0	0	0	0	0	0	0	0	0	0	161
		c) Repairing of drinking well	1	No	1	0	0	0	0	0	0	0	0	0	0	1
		d) Distribution of gator sprayer for farmers group	9	No	9	0	0	0	0	0	0	0	0	0	0	9
		e) Distribution of fertilizer cum seed broadcaster for farmers group	7	No	7	0	0	0	0	0	0	0	0	0	0	7
		f) Cattle vaccination camp	4	No	4	0	0	0	0	0	0	0	0	0	0	4
		g) Solar street light	1	No	1	0	0	0	0	0	0	0	0	0	0	1
		a) Construction of Pond	2	No	1	1	0	0	0	0	0	0	0	0	0	2
		b) Dari Chuan	4	No	1	1	1	1	1	1	1	1	1	1	1	4
		c) Check Dam Construction	1	No	0	0	0	1	1	0	0	0	0	0	0	1
2	Soil and Moisture Conservation	a) Loose Boulder Structure (100'x4'x4')	5	Ha	1	1	1	1	1	1	2	2	0	0	5	
		b) Loose Boulder Structure (25'x4'x4')	12	No	3	6	6	1	1	1	2	2	0	0	12	
		c) Staggered Contour Trenching	28	No	8	10	10	10	10	10	0	0	0	0	28	
		d) Levelling of land	28	Ha	9	9	9	10	10	10	0	0	0	0	28	
3	Capacity Building	a) SHG/UG/WC	11	No	0	4	4	2	2	2	5	5	0	0	11	
		b) NRM Related	6	No	0	2	2	2	2	2	2	2	0	0	6	
		c) Production System	14	No	0	4	4	4	4	4	6	6	0	0	14	
		d) Livelihood & Micro Enterprise	7	No	2	3	3	1	1	1	1	1	0	0	7	
		e) PIA/WDT	2	No	1	0	0	0	0	0	1	1	0	0	2	

SI no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy	Phy	Phy	Phy	Phy	Phy	Phy	Phy			
4	Livelihood for Assetless	a)Goatry	2	unit	0	0	0	1	1	1	0	0	0	0	2
		b)Poultry	2	Ha	0	1	0	0	0	1	0	0	0	0	2
		c)Murhi Making	1	No	0	1	0	0	0	0	0	0	0	0	1
		d)Fisheries	2	No	0	1	1	1	0	0	0	0	0	0	2
		e)Piggery	1	No	0	1	1	0	0	0	0	0	0	0	1
		f)Market Linkages of SHG Products	1	No	0	0	0	0	0	0	0	0	0	1	1
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	6	Ha	0	0	0	1	1	5	0	0	0	0	6
		b)Mushroom Unit	2	Unit	0	1	0	0	0	1	0	0	0	0	2
		c)SRI Cultivation in Rice	8	Ha	0	0	2	2	6	6	0	0	0	0	8
		d)Reclamation of Soil	11	Ha	0	1	3	3	7	7	0	0	0	0	11
		e)Mango Plantation	6	Ha	0	1	1	1	4	4	0	0	0	0	6
		f)HYV Tomato Demonstration	2	No	0	1	1	1	0	0	0	0	0	0	2
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	1	No	0	0	0	0	0	0	0	0	1	1	
		b)Experience sharing workshop at District Level	1	No	0	0	0	0	0	0	0	0	1	1	
		c)Revolving fund for Village Level Institution	1	No	0	0	0	0	0	0	0	0	1	1	
		d)Contingency fund to Watershed Committee	1	No	0	0	0	0	0	1	1	1	1	2	
7	Project Admin.			...	...	...	...	...	...	...	...	...	...	...
8	Monitoring			...	...	...	...	...	...	...	...	...	...	...
9	Evaluation			...	...	...	...	...	...	...	...	...	...	...
10	DPR.			...	...	...	...	...	...	...	...	...	...	...
Total					...	...	...	...	...	...	...	...	...	...

CEO,SLNA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM)												Annexure II		Batch I		
Name of PIA : Dalbhum Forest Division																
Code of Micro Watershed : 4H3A4b1e																
Name of Villages Covered :05																
Year Wise Financial Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. in Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin		Fin		Fin		Fin		Fin		
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	805	No	0.00045	0.36		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
		b)Distribution of seeds through revolving fund	161	No	0.00075	0.12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
		c)Repairing of drinking well	1	No	0.18	0.18		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
		d)Distribution of gator sprayer for farmers group	9	No	0.063	0.567		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
		e)Distribution of fertilizer cum seed broadcaster for farmers group	7	No	0.045	0.32		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
		f)Cattle vaccination camp	4	No	0.05	0.20		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
		g)Solar street light	1	No	0.30	0.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
2	Water Conservation	a)Construction of Pond	2	No	1.83	1.83		1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.66
		b)Dari Chuan	4	No	0.41	0.41		0.41	0.41	0.41	0.41	0.41	0.41	0.00	0.00	1.62
		c)Check Dam Construction	1	No	4.65	0.00		0.00	0.00	4.65	0.00	0.00	0.00	0.00	0.00	4.65
		a)Loose Boulder Structure (100'x4'x4')	5	Ha	1.04	1.04		1.04	1.04	1.04	1.04	2.08	0.00	0.00	0.00	5.20
		b)Loose Boulder Structure (25'x4'x4')	12	No	0.27	0.81		1.62	1.62	0.27	0.27	0.54	0.54	0.00	0.00	3.24
3	Soil and Moisture Conservation	c)Staggered Contour Trenching	28	No	0.078	0.62		0.78	0.78	0.78	0.78	0.00	0.00	0.00	0.00	2.18
		d)Leveling of land	28	Ha	0.18	1.62		1.62	1.62	1.80	1.80	0.00	0.00	0.00	0.00	5.04
		a)SHG/UG/WC	11	No	0.072	0.00		0.29	0.29	0.14	0.14	0.36	0.36	0.00	0.00	0.79
		b)NRM Related	6	No	0.040	0.00		0.08	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.24
		c)Production System	14	No	0.073	0.00		0.29	0.29	0.29	0.29	0.44	0.44	0.00	0.00	1.02
3	Capacity Building	d)Livelihood & Micro Enterprise	7	No	0.062	0.12		0.19	0.19	0.06	0.06	0.06	0.06	0.00	0.00	0.43
		e)PIA/WDT	2	No	0.036	0.04		0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.07

Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. in Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
4	Livelihood for Assetless	a)Goatry	2	unit	0.50	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	1.00
		b)Poultry	2	Ha	0.93	0.00	0.93	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	1.86
		c)Murhi Making	1	No	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
		d)Fisheries	2	No	0.35	0.00	0.35	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.70
		e)Piggery	1	No	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85
		f)Market Linkages of SHG Products	1	No	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	6	Ha	0.206	0.00	0.00	0.00	0.21	0.21	1.03	0.00	0.00	0.00	0.00	1.24
		b)Mushroom Unit	2	Unit	0.40	0.00	0.40	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.80
		c)SRI Cultivation in Rice	8	Ha	0.19	0.00	0.00	0.00	0.38	0.38	1.14	0.00	0.00	0.00	0.00	1.52
		d)Reclamation of Soil	11	Ha	0.024	0.00	0.02	0.00	0.07	0.07	0.17	0.00	0.00	0.00	0.00	0.26
		e)Mango Plantation	6	Ha	0.40	0.00	0.40	0.00	0.40	0.40	1.60	0.00	0.00	0.00	0.00	2.40
		f)HYV Tomato Demonstration	2	No	0.22	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.44
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	1	No	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
		b)Experience sharing workshop at District Level	1	No	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.30
		c)Revolving fund for Village Level Institution	1	No	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10
		d)Contingency fund to Watershed Committee	1	No	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.58	0.00	1.16
7	Project Admin.						1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	5.12	
8	Monitoring						0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.51	
9	Evaluation						0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.51	
10	DPR.						0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	
Total						10.27	12.82	12.88	11.58	3.65	51.20					

CEO,SLINA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

Executive Summary of Kesharda Micro-Watershed

1. Present Status & Situational Analysis of the Project Area

The declining per capita land and fresh water availability coupled with soil erosion and depleting /degrading land and water resources are posing serious threat to food, environmental, social and economic security in the country.

The present micro watershed 4H3A4bld is situated in Baharagora block of East Singhbhum district. This micro watershed covers essentially 10 villages which include Dandudih, Bagrachura, Mahulchui, Kesharda, Purnapani, Chirakuti, Pathandiha, Chanchalda, Mahuli and Dehurishol, the total geographical area of which is 1176.44 ha. The main occupation of the people living in this region is rainfed agriculture and the most important crop being rice. Apart from agriculture the tribal earn their living by cattle rearing, selling firewood, etc. The most important centre for their economic activity is the weekly haats.

The area lies between 86° 32' E - 86° 54' E and 22°12' N to 22° 26' N. It is in Bahragora Block of east Singhbhum District .It shares its border with states of Orissa and West Bengal. The area is part of Subarnarekha basin. The soils are lateritic soils, they are acidic and fine in texture.

The status of water in the region is very poor, hardly 10%- 20% of the area is irrigated and the rest is rainfed .Due to water deficit only one crop is taken in a year from most of the region. There is lack of irrigation facilities due to poor ground water table and lack of water harvesting structures. The water table is also very low, in maximum villages of the project area where the water table is below 16 meters. But as observed the region has a huge potential for exploitation of ground water resources, very small amount of water is extracted through tube wells. The main reason being it is difficult to strike the aquifer at majority of places, it is found at a depth of 200 feet and it is very expensive.

Agriculture is largely rainfed, with upland rice as monocrop. In Rabi season, rice is grown only by farmers who are in downstream around the water pockets. The flow of water is obstructed by putting a bund across the flow. As a whole agriculture is not flourishing in the region as there is no diversification of crops, crops are not grow according to capability class, low agriculture inputs, farmers cannot afford modern implements or high yielding varieties, These are some of the reasons of low agriculture productivity. Livestock rearing is second most important activity in the region. The total numbers of cows are around 2136 but the milk yield is very less as no superior breeds are found in the region as there is deficiency of fodder and pastures, moreover tribal in the area do not consume milk. Buffaloes are very few but goats and sheep are in plenty as they are hardy type and kidding is very fast and they generate lots of revenue.

2. Vision Statement:

The implementation of proposed perspective and strategic plan of IWMP in Jharkhand during 11th, 12th, 13th and 14th plan periods is expected to have outcomes and impacts on social, economical and ecological dimensions. The state will have large numbers of grass-root social institutions of farmers / entrepreneurs / service providers / community leaders / women / etc. in the form of Watersheds Committees, Self Help Groups, User Groups, Water User Associations and its' associated tiers. The treatment will have impacts on water table, drinking water availability, irrigated area in the state, cropping intensity and diversification

of crops, development of production clusters pertaining to various farm, farm allied and forest based sub – sectors and overall rural economy and state gross domestic production.

Some of the expected outcomes from this project in 4H3Abld Micro Watershed of Baharagora Block are as follows:

- ✚ Conservation, development and sustainable management of natural resources including their use.
- ✚ Enhancement of agriculture productivity and production in sustainable manner.
- ✚ Restoration of ecological balance in the degraded and fragile rainfed ecosystem by greening these areas through appropriate mix of trees and shrubs and grasses.
- ✚ Reduction in regional disparity between irrigated and rainfed areas.
- ✚ Creation of sustained employment opportunities for the rural community including the landless
- ✚ Water will be available for a longer period of time for irrigation and domestic use.
- ✚ Increase in crop yield and diversification of crop will be imminent.
- ✚ The tendency to migrate to other places will decrease a lot during the off seasons

Nearly 75% of the watershed families would be capacitated through various trainings, exposures; demonstrations etc. to plan, implement, productivity enhancement and monitor the progress of work. The Watershed Development Fund would be created from the contribution of beneficiaries, as proposed in Common Guideline 2008 and the fund would be utilized after the completion of the project. 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. Institutional Arrangements

The watershed development mainly focuses on local communities as natural resource managers. The present agreement is of mutual Interactions between stake holders which could enhance the efficiency of watershed program. Critical Institutional mechanisms and actors linkages in the program is done for efficient implementation and overall development of social capital in terms of gender, equity, sustainability and improved livelihood .And in doing so the natural resources would be managed in a proper perspective i.e. sustainable. It has been seen that DRDAs over the years have been loaded with implementation of various developmental programme. Watershed development programme being participatory in approach, process oriented and time bond, the SLNA expressed concern over the dynamics of fund flow, and overall implement ability of the programme in the state. Watershed programme being critical for the state, it was decided by the SLNA to explore for an alternate mechanism for the implementation of the programme and proposed that FDA/ DWDU should be given the responsibility of implementation and monitoring of the programme at the district level under the overall supervision of SLNA. Considering the above, the Government of Jharkhand proposes to administer, implement, supervise, monitor and evaluate IWMP directly through SLNA physically and financially.

4. Salient Project Activities

- Integrated and overall development by strengthening the production systems and livelihood support systems.
- Conservation of natural resources like soil and water and making it available for a longer period of time leading to protection of biodiversity.
- Generate employment to the people and reduce poverty.
- Capacity building and provide livelihoods to people below poverty line and landless in watershed.
- People participation by way of forming WC, SHGs, UGs and to see that there is no friction in the institutional arrangement.
- Overall development of the habitat, by diversification in rural activities, like vegetable farming etc. Moreover encouraging new farming systems like SRI(systems for rice intensification)

Considering the context, baseline data analysis, PRA exercises and net planning; activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are one Diesel pump set, one well repairing, 9 sprayers, 9 Paddy threshers, 500 mango grafts which would cost 2.4% of the whole budget i.e.Rs.2.25 lakhs (approx.). 50% of the total budget of Rs. 47.52 lakhs will be spend over various activities under NRM like loose boulder check dams, contour trenches, Dari chua, Irrigation well, construction of pond, soil and moisture conservation technique etc. which covers almost all the families of the project area, Small holder's broiler poultry and goat rearing, Sal leaf plate making are under livelihood plans for the landless and marginalized families which is 10% of the budget amounting of Rs. 9.5 lakhs. Groups will be performing, Sal leaf plate making, goatery, hatchery activities and will be imparted skill enhancement trainings.

A comprehensive training and capacity building plan would capacitate during the project period (2010-2014). The entire proposed plans would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

5. Convergence:

This fund is proposed to be mobilized at PIA level from the various schemes under the department of rural development, Govt. of Jharkhand. The schemes proposed for convergence are MGNREGS, KVK, DAO, State Agriculture department, Minor Irrigation department, Forest Department Other department etc. An effort is to be given in facilitation to the CBOs to influence external stakeholders to mobilize resources, e.g., various line departments locally and statewide. A coordinated effort of SLNA, DWDU and PIA would be required for the convergence.

6. Exit policy:

Suitable systems and processes proposed to be designed and implemented to manage and maintain all the assets created under the project with the help of Watershed development fund (WDF) collected from beneficiary in the form of contribution and deposited in a separate bank account. WDF will not be utilized during the project implementation period. However, it would be utilized for maintenance of community assets, common assets and other new initiatives after completion of the project. The interest accrued in this account may be utilized for meeting the administrative overhead expenses of the WC in post project period.

The interventions will be designed to ensure that after project implementation, the SHGs, UG and WC will not require any support for their operations. Village-based accountant and automated MIS system will be in place for SHGs and the operating cost of MIS system will be met by the SHGs. Further, all SHGs would be federated into a cluster to provide solidarity for SHGs. The WC members would be enabled to take up the responsibility of maintenance of assets and infrastructures and governance of the various institutions promoted. The business institutions like Producers' Collective would provide business support to producers on a sustainable basis with the help of trained Community Resource Persons (CRP). These systems will be in place and will be essential condition for the safe exit from the area.

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure I Batch I															
Name of PIA : Dalbhum Forest Division		Code of Micro Watershed :4H3A4b1d													
Name of Micro Watershed : Kesharda		No of families existing under Micro Watershed : 747 HH, Landless- 127 HH													
Districts : East Singhbhum		No of SHG to be formed : 24 No													
Blocks Covered : Bahargora		No of UG to be formed : 08 No													
Name of Village : Dandiudih, Bagrachura, Mahulchui, Kesharda, Purnapani, Chirakuti, Pathandiha, Chanchalida, Mahuli & Dehurishol		No of Training to be Proposed : 45 No,													
Total Geog. Area of Micro Watershed (Ha) : 1176.44 Ha		No of Exposure Visits to be Conducted : 00 No													
Total Proposed Area to be Treated (Ha) : 792.01 Ha		Nos of Persons Days to be Generated : 23760 No													
Total Budget (Rs. In Lakhs) : 95.04 Lakhs		Date of Approval from Gram Sabha : 28th Feb 2011													
Year Wise Physical Details for the Selected Micro-watershed															
Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy	Phy	Phy	Phy	Phy	Phy	Phy	Phy			
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	2725	No	2725	0	0	0	0	0	0	0	0	0	2725
		b)Distribution of seeds through revolving fund	545	No	545	0	0	0	0	0	0	0	0	0	545
		c)Repairing of drinking well	1	No	1	0	0	0	0	0	0	0	0	0	1
		d)Distribution of gattor sprayer for farmers group	17	No	17	0	0	0	0	0	0	0	0	0	17
		e)Distribution of fertilizer cum seed broadcaster for farmers group	15	No	15	0	0	0	0	0	0	0	0	0	15
		f)Cattle vaccination camp	5	No	5	0	0	0	0	0	0	0	0	0	5
2	Water Conservation	a)Construction of Pond	3	No	1	1	1	1	1	0	0	0	0	0	3
		b)Dari Chuan	7	No	1	3	3	0	0	0	0	0	0	0	7
		c)Check Dam Construction	1	No	0	0	1	1	0	0	0	0	0	0	1
		d)Pucca Well	2	No	0	1	1	1	0	0	0	0	0	0	2
		e)Earthen Check Dam	1	No	0	0	0	0	1	1	0	0	0	0	1
		a)Loose Boulder Structure (100'x4'x4')	7	Ha	2	3	2	2	2	0	0	0	0	0	7
3	Soil and Moisture Conservation	b)Loose Boulder Structure (25'x4'x4')	10	No	2	4	2	2	2	2	2	2	0	0	10
		c)Staggered Contour Trenching	92	No	30	30	17	15	15	0	0	0	0	92	
		d)Levelling of land	65	Ha	23	20	11	11	11	0	0	0	0	65	
		a)Training for SHG/UG/WC/PI Related	8	No	2	1	3	2	2	0	0	0	0	8	
3	Capacity Building	b)NRM Related	9	No	1	3	2	3	2	3	0	0	0	9	
		c)Production Enhancement related training	10	No	1	2	3	4	4	0	0	0	0	10	
		d)Livelihood & Micro Enterprise	9	No	1	2	3	3	3	0	0	0	0	9	
		e)PIA/AWDT	4	No	1	1	2	2	0	0	0	0	0	4	
		f)Convergence/ Rights and entitlement/Well being related training	5	No	0	2	3	0	0	0	0	0	0	5	

Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy	Phy	Phy	Phy	Phy	Phy	Phy	Phy			
4	Livelihood for Assetless	a)Goatry	9	unit	0	2	1	6	0	0	0	0	0	0	9
		b)Poultry	3	Ha	0	1	1	1	0	0	0	0	0	0	3
		c)Piggery	2	No	0	1	0	1	0	0	0	0	0	0	2
5	Productivity Enhancement and micro Enterprises	d)Market Linkages of SHG Products	1	No	0	0	0	0	0	0	0	0	1	0	1
		a)Stitching Machine	4	Ha	0	2	2	0	0	0	0	0	0	0	4
		b)Cashew Plantation	8	Unit	0	2	2	4	0	0	0	0	0	0	8
		c)SRI Cultivation in Rice	6	Ha	0	0	2	4	0	0	0	0	0	0	6
		d)Reclamation of Soil	20	Ha	0	10	5	4	0	0	0	0	0	0	19
		e)Mango Plantation	4	Ha	0	0	1	3	0	0	0	0	0	0	4
6	Consolidation Phases Activities	f)HYV Tomato Demonstration	14	No	0	4	3	7	0	0	0	0	0	0	14
		a)Institutional linkages with Watershed Committee	2	No	0	0	0	0	0	0	0	0	0	0	2
		b)Experience sharing workshop at District Level	2	No	0	0	0	0	0	0	0	0	0	0	2
		c)Revolving fund for Village Level Institution	10	No	0	0	0	0	0	0	0	0	0	0	10
7	Project Admin.	d)Contingency fund to Watershed Committee	2	No	0	0	0	0	0	0	0	0	0	0	2
				
				
				
				
				
				
				
				
				
8	Monitoring				
9	Evaluation				
10	DPR.				
		Total				

CEO, SLINA
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PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure II Batch I

Name of PIA : Dalbhum Forest Division

Code of Micro Watershed : 4H3A4b1d

Name of Villages Covered :10

Year Wise Financial Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	2725	No	0.00045	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23
		b)Distribution of seeds through revolving fund	545	No	0.00075	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
		c)Repairing of drinking well	1	No	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
		d)Distribution of gattor sprayer for farmers group	17	No	0.063	1.071	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07
		e)Distribution of fertilizer cum seed broadcaster for farmers group	15	No	0.045	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68
		f)Cattle vaccination camp	5	No	0.05	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
2	Water Conservation	a)Construction of Pond	3	No	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	5.49
		b)Dari Chuan	7	No	0.41	0.41	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	2.84
		c)Check Dam Construction	1	No	4.65	0.00	0.00	0.00	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65
		d)Pucca Well	2	No	1.67	0.00	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	3.34
		e)Earthen Check Dam	1	No	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	2.35
		a)Loose Boulder Structure (100'x4'x4')	7	Ha	1.04	2.08	3.12	3.12	2.08	2.08	2.08	0.00	0.00	0.00	0.00	7.28
3	Capacity Building	b)Loose Boulder Structure (25'x4'x4')	10	No	0.27	0.54	1.08	1.08	0.54	0.54	0.54	0.54	0.54	0.54	2.70	
		c)Staggered Contour Trenching	92	No	0.078	2.34	2.34	2.34	1.33	1.33	1.17	1.17	1.17	1.17	7.18	
		d)Levelling of land	65	Ha	0.18	4.14	3.60	3.60	1.98	1.98	1.98	1.98	1.98	1.98	11.70	
		a)Training for SHG/UG/WC/PI Related	8	No	0.220	0.44	0.22	0.22	0.66	0.66	0.44	0.44	0.44	0.44	1.76	
3	Capacity Building	b)NRM Related	9	No	0.036	0.04	0.11	0.11	0.07	0.07	0.11	0.11	0.11	0.11	0.32	
		c)Production Enhancement related training	10	No	0.146	0.15	0.29	0.29	0.44	0.44	0.58	0.58	0.58	0.58	1.46	
		d)Livelihood & Micro Enterprise	9	No	0.095	0.10	0.19	0.19	0.29	0.29	0.29	0.29	0.29	0.29	0.86	
		e)PIA/WDT	4	No	0.036	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.14	
		f)Convergence/ Rights and entitlement/Well being related training	5	No	0.042	0.00	0.08	0.08	0.13	0.13	0.13	0.13	0.13	0.13	0.21	

SI no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
4	Livelihood for Assetless	a)Goatry	9	unit	0.50	0.00	1.00	0.50	3.00	0.00	0.00	0.00	0.00	0.00	4.50	
		b)Poultry	3	Ha	0.93	0.00	0.93	0.93	0.93	0.00	0.00	0.00	0.00	0.00	2.79	
		c)Piggery	2	No	0.85	0.00	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	1.70	
		d)Market Linkages of SHG Products	1	No	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.51	
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	4	Ha	0.206	0.00	0.41	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.82	
		b)Cashew Plantation	8	Unit	0.66	0.00	1.32	1.32	2.64	0.00	0.00	0.00	0.00	0.00	5.28	
		c)SRI Cultivation in Rice	6	Ha	0.19	0.00	0.00	0.38	0.76	0.00	0.00	0.00	0.00	0.00	1.14	
		d)Reclamation of Soil	20	Ha	0.02	0.00	0.24	0.12	0.10	0.10	0.00	0.00	0.00	0.00	0.46	
		e)Mango Plantation	4	Ha	0.40	0.00	0.00	0.40	1.20	0.00	0.00	0.00	0.00	0.00	1.60	
		f)HYV Tomato Demonstration	14	No	0.22	0.00	0.87	0.66	1.53	0.00	0.00	0.00	0.00	0.00	3.06	
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	2	No	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	
		b)Experience sharing workshop at District Level	2	No	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.60	
		c)Revolving fund for Village Level Institution	10	No	0.10	0.00	0.00	0.00	0.50	0.00	0.00	0.50	0.00	0.00	1.00	
		d)Contingency fund to Watershed Committee	2	No	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	1.15	
7	Project Admin.				1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	9.50		
8	Monitoring				0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.95		
9	Evaluation				0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.95		
10	DPR.				0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95		
Total						19.12	23.69	23.94	21.24	7.04	7.04	95.04				

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PIA
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WDT
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(WC - Secretary)
Signature

Executive Summary of Pochakhali Micro-Watershed

1. Present Status & Situational Analysis of the Project Area

The declining per capita land and fresh water availability coupled with soil erosion and depleting /degrading land and water resources are posing serious threat to food, environmental, social and economic security in the country.

The present micro watershed 4H3A 4a4c is situated in Baharagora block of East Singhbhum district. This micro watershed covers essentially 14 village which includes Dudhkund, Pochakhali, Buripukhur, Dharampur, Jamirdiha, Kokmara, Kotshol, Nakata, Kuanrda, Murakatmatiyaldih, Matihana, Barshol, Raugiyadhara, Kenduabandi, the total geographical area of which is 1447.35 ha. The main occupation of the people living in this region is rainfed agriculture and the most important crop being rice. The two important tribes in the region include Santhal and Munda. Apart from agriculture the tribals earn their living by cattle rearing, selling firewood, etc. The most important centre for their economic activity is the weekly haats.

The area lies between 86° 32' E - 86° 54' E and 22°12' N to 22° 26' N. It is in Bahragora Block of east Singhbhum District .It shares its border with states of Orissa and West Bengal. The area is part of subarnarekha basin and the present micro watershed belongs to second order watershed .The soils are lateritic soils, they are acidic and fine in texture, they belong to older Alfisols. Due to dissected terrain there is severe erosion which is eating up the cultivated area. Some villages are under vulnerable to erosion where small to medium type gullies are formed.

The status of water in the region is very poor, hardly 10% of the area is irrigated and the rest is rainfed .Due to water deficit only one crop is taken in a year from most of the region. There is lack of irrigation facilities due to poor ground water table and lack of water harvesting structures. The water table is also very low in the maximum villages of the project area where the water table is below 15 m .But as observed the region has a huge potential for exploitation of ground water resources, very small amount of water is extracted through tube wells. The main reason being it is difficult to strike the aquifer at majority of places, it is found at a depth of 200 feet and it is very expensive.

Agriculture is largely rainfed, with upland rice as monocrop. In rabi season rice is grown only by farmers who are in downstream around the water pockets. The flow of water is obstructed by putting a bund across the flow. As a whole agriculture is not flourishing in the region as there is no diversification of crops, crops are not grow according to capability class, low agriculture inputs, farmers cannot afford modern implements or high yielding varieties, These are some of the reasons of low agriculture productivity. Livestock rearing is second most important activity in the region. The total numbers of cows are around 211 but the milk yield is very less as no superior breeds are found in the region as there is deficiency of fodder and pastures, moreover tribal in the area do not consume milk. Buffaloes are very few but goats and sheep are in plenty as they are hardy type and kidding is very fast and they generate lots of revenue.

2. Vision Statement:

The implementation of proposed perspective and strategic plan of IWMP in Jharkhand during 11th, 12th, 13th and 14th plan periods is expected to have outcomes and impacts on

social, economical and ecological dimensions. The state will have large numbers of grass-root social institutions of farmers / entrepreneurs / service providers / community leaders / women / etc. in the form of Watersheds Committees, Self Help Groups, User Groups, Water User Associations and its' associated tiers. The treatment will have impacts on water table, drinking water availability, irrigated area in the state, cropping intensity and diversification of crops, development of production clusters pertaining to various farm, farm allied and forest based sub – sectors and overall rural economy and state gross domestic production.

Some of the expected outcomes from this project in 4H3A4a4c Micro Watershed of Baharagora Block are as follows:

- ✚ Conservation, development and sustainable management of natural resources including their use.
- ✚ Enhancement of agriculture productivity and production in sustainable manner.
- ✚ Restoration of ecological balance in the degraded and fragile rainfed ecosystem by greening these areas through appropriate mix of trees and shrubs and grasses.
- ✚ Reduction in regional disparity between irrigated and rainfed areas.
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- ✚ Water will be available for a longer period of time for irrigation and domestic use.
- ✚ Increase in crop yield and diversification of crop will be imminent.
- ✚ The tendency to migrate to other places will decrease a lot during the off seasons

Nearly 75% of the watershed families would be capacitated through various trainings, exposures; demonstrations etc. to plan, implement, productivity enhancement and monitor the progress of work. The Watershed Development Fund would be created from the contribution of beneficiaries, as proposed in Common Guideline 2008 and the fund would be utilized after the completion of the project. 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. Institutional Arrangements

The watershed development mainly focuses on local communities as natural resource managers. The present agreement is of mutual Interactions between stake holders which could enhance the efficiency of watershed program. Critical Institutional mechanisms and actors linkages in the program is done for efficient implementation and overall development of social capital in terms of gender, equity, sustainability and improved livelihood .And in doing so the natural resources would be managed in a proper perspective i.e. sustainable. It has been seen that DRDAs over the years have been loaded with implementation of various developmental programme. Watershed development programme being participatory in approach, process oriented and time bond, the SLNA expressed concern over the dynamics of fund flow, and overall implement ability of the programme in the state. Watershed programme being critical for the state, it was decided by the SLNA to explore for an alternate mechanism for the implementation of the programme and proposed that FDA/ DWDU should be given the responsibility of implementation and monitoring of the programme at the district level under the overall supervision of SLNA. Considering the

above, the Government of Jharkhand proposes to administer, implement, supervise, monitor and evaluate IWMP directly through SLNA physically and financially.

4. Salient Project Activities

- Integrated and overall development by strengthening the production systems and livelihood support systems.
- Conservation of natural resources like soil and water and making it available for a longer period of time leading to protection of biodiversity.
- Generate employment to the people and reduce poverty.
- Capacity building and provide livelihoods to people below poverty line and landless in watershed.
- People participation by way of forming WC, SHGs, UGs and to see that there is no friction in the institutional arrangement.
- Overall development of the habitat, by diversification in rural activities, like vegetable farming, fruit orchards, mushroom cultivation, etc. Moreover encouraging new farming systems like SRI(systems for rice intensification), micro irrigation in form of drip irrigation for efficient use of water.

Considering the context, baseline data analysis, PRA exercises and net planning; activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are one Diesel pump set, four well repairing, 1 solar light, 14 sprayers, 14 Paddy threshers, 500 mango grafts and one micro lift irrigation which would cost 4% of the whole budget i.e.Rs.5.31 lakhs (approx.). 50% of the total budget of Rs. 66.42lakhs will be spend over various activities under NRM like loose boulder check dams, contour trenches, Dari chua, construction of pond, soil and moisture conservation technique etc. which covers almost all the families of the project area, Small holder's broiler poultry and goat rearing , pig rearing are under livelihood plans for the landless and marginalized families which is 10% of the budget amounting of Rs. 13.28 lakhs. Groups will be performing stitching, Sal leaf plate making, goatery, hatchery activities and will be imparted skill enhancement trainings.

A comprehensive training and capacity building plan would capacitate during the project period (2010-2014). The entire proposed plans would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

5. Convergence:

This fund is proposed to be mobilized at PIA level from the various schemes under the department of rural development, Govt. of Jharkhand. The schemes proposed for convergence are MGNREGA, KVK, DAO, State Agriculture department, Minor Irrigation department, Forest Department Other department etc. An effort is to be given in facilitation to the CBOs to influence external stakeholders to mobilize resources, e.g., various line departments locally and statewide. A coordinated effort of SLNA, DWDU and PIA would be required for the convergence.

6. Exit policy:

Suitable systems and processes proposed to be designed and implemented to manage and maintain all the assets created under the project with the help of Watershed development fund (WDF) collected from beneficiary in the form of contribution and deposited in a separate bank account. WDF will not be utilized during the project implementation period.

However, it would be utilized for maintenance of community assets, common assets and other new initiatives after completion of the project. The interest accrued in this account may be utilized for meeting the administrative overhead expenses of the WC in post project period.

The interventions will be designed to ensure that after project implementation, the SHGs, UG and WC will not require any support for their operations. Village-based accountant and automated MIS system will be in place for SHGs and the operating cost of MIS system will be met by the SHGs. Further, all SHGs would be federated into a cluster to provide solidarity for SHGs. The WC members would be enabled to take up the responsibility of maintenance of assets and infrastructures and governance of the various institutions promoted. The business institutions like Producers' Collective would provide business support to producers on a sustainable basis with the help of trained Community Resource Persons (CRP). These systems will be in place and will be essential condition for the safe exit from the area.

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM)		Annexure I		Batch I	
Name of PIA : Dalbhum Forest Division		Code of Micro Watershed : 4H3A4a4c			
Name of Micro Watershed : Pochakali		No of families existing under Micro Watershed : 664 HH, Landless- 160 HH			
Districts : East Singhbhum		No of SHG to be formed : 24 No			
Blocks Covered : Bahargora		No of UG to be formed : 17 No			
Name of Village : Dudhkund, Pochakali, Buripukhur, Dharampur, Jamirdiha, Kokmara, Kotsol, Nakata, Kuanrda, Murakatmatiyaldih, Matihana, Barshol, Raugiyadhara & Kenduabandi		No of Training to be Proposed : 45 No,			
Total Geog. Area of Micro Watershed (Ha) : 1447.35 Ha		No of Exposure Visits to be Conducted : 00 No			
Total Proposed Area to be Treated (Ha) : 1107.13 Ha		Nos of Persons Days to be Generated : 33214 No			
Total Budget (Rs. In Lakhs) : 132.86 Lakhs		Date of Approval from Gram Sabha : 3rd March 2011			

Year Wise Physical Details for the Selected Micro-watershed															
Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy	Phy	Phy	Phy	Phy	Phy	Phy	Phy			
1	Entry Point Activities (EPA)	a) Distribution of Mango Graft Seedling	2550	No	0	0	0	0	0	0	0	0	0	0	2550
		b) Distribution of seeds through revolving fund	510	No	0	0	0	0	0	0	0	0	0	0	510
		c) Repairing of drinking well	4	No	4	0	0	0	0	0	0	0	0	0	4
		d) Distribution of gattor sprayer for farmers group	22	No	22	0	0	0	0	0	0	0	0	0	22
		e) Distribution of fertilizer cum seed broadcaster for farmers group	22	No	22	0	0	0	0	0	0	0	0	0	22
		f) Cattle vaccination camp	5	No	5	0	0	0	0	0	0	0	0	0	5
		g) Solar street light	2	No	2	0	0	0	0	0	0	0	0	0	2
		a) Construction of Pond	5	No	2	2	1	0	0	0	0	0	0	0	5
2	Water Conservation	b) Dari Chuan	9	No	3	3	0	0	0	0	0	0	0	8	
		c) Check Dam Construction	3	No	0	1	1	1	1	1	1	0	0	3	
		d) Irrigation Well	1	No	0	1	0	0	0	0	0	0	0	1	
		e) Earthen Check dam	1	No	0	0	1	1	1	1	1	0	0	1	
		a) Loose Boulder Structure (100'x4'x4')	13	Ha	5	4	4	4	4	4	0	0	0	13	
		b) Loose Boulder Structure (25'x4'x4')	25	No	10	5	5	5	5	5	5	0	0	25	
		c) Staggered Contour Trenching	85	No	15	10	35	18	18	18	18	0	0	78	
		d) Levelling of land	51	Ha	10	15	11	18	18	18	0	0	0	54	

SI no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011	2011-2012	2012-2013	2013-2014		Grand Total
					Phy					Phy	Phy	
3	Capacity Building	a)SHG/UG/WC	14	No	2		3	4	5	0	0	14
		b)NRM Related	14	No	2		3	4	5	0	0	14
4	Livelihood for Assetless	c)Production System	5	No	1		1	2	1	0	0	5
		d)Livelihood & Micro Enterprise	8	No	1		2	3	2	0	0	8
		e)PIA/WDT	4	No	1		1	1	1	1	0	4
		a)Goatry	10	unit	0		3	2	5	0	0	10
		b)Poultry	6	Ha	0		2	1	3	0	0	6
		c)Piggery	2	No	0		1	0	1	1	0	2
		d) Fisheries	2	No	0		1	1	0	0	0	2
		d)Market Linkages of SHG Products	1	No	0		0	0	0	0	1	1
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	6	Ha	0		1	1	4	0	0	6
		b)Cashew Plantation	7	Unit	0		1	3	3	0	0	7
		c)SRI Cultivation in Rice	24	Ha	0		4	8	12	0	0	24
		d)Reclamation of Soil	10	Ha	0		3	2	5	0	0	10
6	Consolidation Phases Activities	e)Mango Plantation	15	Ha	0		5	5	5	0	0	15
		f)HYV Tomato Demonstration	3	No	0		1	1	1	0	0	3
		a)Institutional linkages with Watershed Committee	2	No	0		0	0	0	0	2	2
		b)Experience sharing workshop at District Level	6	No	0		0	0	0	0	6	6
		c)Revolving fund for Village Level Institution	11	No	0		0	0	2	2	9	11
		d)Contingency fund to Watershed Committee	3	No	0		0	0	0	0	3	3
7	Project Admin.				
8	Monitoring				
9	Evaluation				
10	DPR.				
		Total				

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PIA
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WDT
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(WC - Secretary)
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State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure II Batch I

Name of PLA : Dalbhum Forest Division

Code of Micro Watershed : 4H3A4a4c

Name of Villages Covered :14

Year Wise Financial Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	2550	No	0.00045	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15
		b)Distribution of seeds through revolving fund	510	No	0.00075	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
		c)Repairing of drinking well	4	No	0.1395	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
		d)Distribution of gator sprayer for farmers group	22	No	0.063	1.386	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39
		e)Distribution of fertilizer cum seed broadcaster for farmers group	22	No	0.045	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
2	Water Conservation	f)Cattle vaccination camp	5	No	0.05	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
		g)Solar street light	2	No	0.30	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
		a)Construction of Pond	5	No	1.83	3.66	3.66	1.83	1.83	0.00	0.00	0.00	0.00	0.00	0.00	9.15
		b)Dari Chuan	9	No	0.41	1.22	1.22	0.81	0.81	0.00	0.00	0.00	0.00	0.00	0.00	3.25
		c)Check Dam Construction	3	No	4.65	0.00	0.00	4.65	4.65	0.00	0.00	0.00	4.65	0.00	0.00	13.95
		d)Irrigation Well	1	No	1.67	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67
		e)Earthen Checkdam	1	No	2.35	0.00	0.00	0.00	2.35	2.35	0.00	0.00	0.00	0.00	0.00	2.35
		a)Loose Boulder Structure (100'x4'x4')	13	Ha	1.04	5.20	4.16	4.16	4.16	0.00	0.00	0.00	0.00	0.00	0.00	13.52
		b)Loose Boulder Structure (25'x4'x4')	25	No	0.27	2.70	1.35	1.35	1.35	1.35	1.35	0.00	1.35	0.00	0.00	6.75
3	Soil and Moisture Conservation	c)Staggered Contour Trenching	85	No	0.078	1.17	0.78	0.78	2.73	2.73	1.40	1.40	0.00	0.00	0.00	6.08
		d)Levelling of land	51	Ha	0.18	1.80	1.80	2.70	1.98	1.98	3.24	3.24	0.00	0.00	0.00	9.71
		a)SHG/UG/WC	14	No	0.238	0.48	0.71	0.71	0.95	0.95	1.19	1.19	0.00	0.00	0.00	3.33
		b)NRM Related	14	No	0.106	0.21	0.32	0.32	0.42	0.42	0.53	0.53	0.00	0.00	0.00	1.48
		c)Production System	5	No	0.080	0.08	0.08	0.08	0.16	0.16	0.08	0.08	0.00	0.00	0.00	0.40
		d)Livelihood & Micro Enterprise	8	No	0.150	0.15	0.30	0.30	0.45	0.45	0.30	0.30	0.00	0.00	0.00	1.20
		e)PIA/WDT	4	No	0.056	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.00	0.22
		a)Goatry	10	unit	0.50	0.00	1.50	1.50	1.00	1.00	2.50	2.50	0.00	0.00	0.00	5.00
		b)Poultry	6	Ha	0.93	0.00	1.86	1.86	0.93	0.93	2.79	2.79	0.00	0.00	0.00	5.58
		c)Piggery	2	No	0.85	0.00	0.85	0.85	0.00	0.00	0.85	0.85	0.00	0.00	0.00	1.70
4	Livelihood for Assetless	d) Fisheries	2	No	0.35	0.00	0.35	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.70
		d)Market Linkages of SHG Products	1	No	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31

SI no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	6	Ha	0.206	0.00	0.21	0.21	0.21	0.82	0.00	0.82	0.00	0.00	1.24	
		b)Cashew Plantation	7	Unit	0.66	0.00	0.66	1.98	1.98	1.98	0.00	1.98	0.00	0.00	4.63	
		c)SRI Cultivation in Rice	24	Ha	0.19	0.00	0.76	1.51	1.51	2.27	0.00	2.27	0.00	0.00	4.54	
		d)Reclamation of Soil	10	Ha	0.02	0.00	0.07	0.05	0.05	0.12	0.00	0.12	0.00	0.00	0.24	
		e)Mango Plantation	15	Ha	0.40	0.00	1.99	1.99	1.99	1.99	0.00	1.99	0.00	0.00	5.97	
		f)HYV Tomato Demonstration	3	No	0.22	0.00	0.22	0.22	0.22	0.22	0.00	0.22	0.00	0.00	0.66	
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	2	No	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	
		b)Experience sharing workshop at District Level	6	No	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	
		c)Revolving fund for Village Level Institution	11	No	0.10	0.00	0.00	0.00	0.00	0.20	0.00	0.20	0.90	0.90	1.10	
		d)Contingency fund to Watershed Committee	3	No	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	1.74	1.74	
7	Project Admin.				2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	13.29		
8	Monitoring				0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	1.33		
9	Evaluation				0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	1.33		
10	DPR.				1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33		
Total						26.55	33.31	33.33	29.73	9.94	9.94	132.86	132.86			

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Executive Summary of Baharagora Micro-Watershed

1. Present Status & Situational Analysis of the Project Area

The declining per capita land and fresh water availability coupled with soil erosion and depleting /degrading land and water resources are posing serious threat to food, environmental, social and economic security in the country.

The present micro watershed 4H3A 4a4e is situated in Baharagora block of East Singhbhum district. This micro watershed covers essentially 13 village which includes Rangamatiya, Patbera, Jagdha, Randhlabandhi, Baharagora, Kaliya, Murabani, Kuldiha, Garang, Dhadangri, Asti, Bela, Dighi, the total geographical area of which is 795.84 ha. The main occupation of the people living in this region is rainfed agriculture and the most important crop being rice. The two important tribes in the region include Santhal and Munda. Apart from agriculture the tribals earn their living by cattle rearing, selling firewood, etc. The most important centre for their economic activity is the weekly haats.

The area lies between 86° 32' E - 86° 54' E and 22°12' N to 22° 26' N. It is in Baharagora Block of east Singhbhum District .It shares its border with states of Orissa and West Bengal. The area is part of subarnarekha basin and the present micro watershed belongs to second order watershed .The soils are lateritic soils, they are acidic and fine in texture, they belong to older Alfisols. Due to dissected terrain there is severe erosion which is eating up the cultivated area.

The status of water in the region is very poor, hardly 10% of the area is irrigated and the rest is rainfed .Due to water deficit only one crop is taken in a year from most of the region. There is lack of irrigation facilities due to poor ground water table and lack of water harvesting structures. There are two streams running in the area i.e. Rangro and Poochakali which lead into Swarnarekha river. The canal from Swarnarekha multipurpose project passes through one village in the micro watershed, however the development of the project is very slow. The water table is also very low, especially in the village Parasiya the water table is as low as 17 m .But as observed the region has a huge potential for exploitation of ground water resources, very small amount of water is extracted through tube wells. The main reason being it is difficult to strike the aquifer at majority of places, it is found at a depth of 200 feet and it is very expensive.

Agriculture is largely rainfed, with upland rice as monocrop. In rabi season rice is grown only by farmers who are in downstream around the water pockets. The flow of water is obstructed by putting a bund across the flow. As a whole agriculture is not flourishing in the region as there is no diversification of crops, crops are not grow according to capability class, low agriculture inputs, farmers cannot afford modern implements or high yielding varieties, These are some of the reasons of low agriculture productivity. Livestock rearing is second most important activity in the region. The total numbers of cows are around 193 but the milk yield is very less as no superior breeds are found in the region as there is deficiency of fodder and pastures, moreover tribal in the area do not consume milk. Buffaloes are very few but goats and sheep are in plenty as they are hardy type and kidding is very fast and they generate lots of revenue.

2. Vision Statement:

The implementation of proposed perspective and strategic plan of IWMP in Jharkhand during 11th, 12th, 13th and 14th plan periods is expected to have outcomes and impacts on social, economical and ecological dimensions. The state will have large numbers of grass-root social institutions of farmers / entrepreneurs / service providers / community leaders / women / etc. in the form of Watersheds Committees, Self Help Groups, User Groups, Water User Associations and its' associated tiers. The treatment will have impacts on water table, drinking water availability, irrigated area in the state, cropping intensity and diversification of crops, development of production clusters pertaining to various farm, farm allied and forest based sub – sectors and overall rural economy and state gross domestic production.

Some of the expected outcomes from this project in Baharagora Micro Watershed of Baharagora Block are as follows:

- ✚ Conservation, development and sustainable management of natural resources including their use.
- ✚ Enhancement of agriculture productivity and production in sustainable manner.
- ✚ Restoration of ecological balance in the degraded and fragile rainfed ecosystem by greening these areas through appropriate mix of trees and shrubs and grasses.
- ✚ Reduction in regional disparity between irrigated and rainfed areas.
- ✚ Creation of sustained employment opportunities for the rural community including the landless
- ✚ Water will be available for a longer period of time for irrigation and domestic use.
- ✚ Increase in crop yield and diversification of crop will be imminent.
- ✚ The tendency to migrate to other places will decrease a lot during the off seasons

Nearly 75% of the watershed families would be capacitated through various trainings, exposures; demonstrations etc. to plan, implement, productivity enhancement and monitor the progress of work. The Watershed Development Fund would be created from the contribution of beneficiaries, as proposed in Common Guideline 2008 and the fund would be utilized after the completion of the project. 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. Institutional Arrangements

The watershed development mainly focuses on local communities as natural resource managers. The present agreement is of mutual Interactions between stake holders which could enhance the efficiency of watershed program. Critical Institutional mechanisms and actors linkages in the program is done for efficient implementation and overall development of social capital in terms of gender, equity, sustainability and improved livelihood .And in doing so the natural resources would be managed in a proper perspective i.e. sustainable. It has been seen that DRDAs over the years have been loaded with implementation of various developmental programme. Watershed development programme being participatory in approach, process oriented and time bond, the SLNA expressed concern over the dynamics of fund flow, and overall implement ability of the programme in the state. Watershed programme being critical for the state, it was decided by the SLNA to explore for an alternate mechanism for the implementation of the programme and proposed that FDA/ DWDU should be given the responsibility of implementation and monitoring of the

programme at the district level under the overall supervision of SLNA. Considering the above, the Government of Jharkhand proposes to administer, implement, supervise, monitor and evaluate IWMP directly through SLNA physically and financially.

4. Salient Project Activities

- Integrated and overall development by strengthening the production systems and livelihood support systems.
- Conservation of natural resources like soil and water and making it available for a longer period of time leading to protection of biodiversity.
- Generate employment to the people and reduce poverty.
- Capacity building and provide livelihoods to people below poverty line and landless in watershed.
- People participation by way of forming WC, SHGs, UGs and to see that there is no friction in the institutional arrangement.
- Overall development of the habitat, by diversification in rural activities, like vegetable farming, fruit orchards, mushroom cultivation, etc. Moreover encouraging new farming systems like SRI(systems for rice intensification), micro irrigation in form of drip irrigation for efficient use of water.

Considering the context, baseline data analysis, PRA exercises and net planning; activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are Diesel pump set, well repairing, solar light, sprayers, Paddy threshers, mango grafts. 50% of the total budget of Rs. 32.23 lakhs will be spend over various activities under NRM like loose boulder check dams, contour trenches, Dari chua, construction of pond, soil and moisture conservation technique etc. which covers almost all the families of the project area, Small holder's broiler poultry and goat rearing , stitching machine, are under livelihood plans for the landless and marginalized families which is 10% of the budget amounting of Rs. 6.44 lakhs. Groups will be performing stitching, goatery, hatchery activities and will be imparted skill enhancement trainings like Cutting & tailoring, etc

A comprehensive training and capacity building plan would capacitate during the project period (2010-2014). The entire proposed plans would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

5. Convergence:

This fund is proposed to be mobilized at PIA level from the various schemes under the department of rural development, Govt. of Jharkhand. The schemes proposed for convergence are MGNREGS, KVK, DAO, State Agriculture department, Minor Irrigation department, Forest Department Other department etc. An effort is to be given in facilitation to the CBOs to influence external stakeholders to mobilize resources, e.g., various line departments locally and statewide. A coordinated effort of SLNA, DWDU and PIA would be required for the convergence.

6. Exit policy:

Suitable systems and processes proposed to be designed and implemented to manage and maintain all the assets created under the project with the help of Watershed development fund (WDF) collected from beneficiary in the form of contribution and deposited in a separate bank account. WDF will not be utilized during the project implementation period.

However, it would be utilized for maintenance of community assets, common assets and other new initiatives after completion of the project. The interest accrued in this account may be utilized for meeting the administrative overhead expenses of the WC in post project period.

The interventions will be designed to ensure that after project implementation, the SHGs, UG and WC will not require any support for their operations. Village-based accountant and automated MIS system will be in place for SHGs and the operating cost of MIS system will be met by the SHGs. Further, all SHGs would be federated into a cluster to provide solidarity for SHGs. The WC members would be enabled to take up the responsibility of maintenance of assets and infrastructures and governance of the various institutions promoted. The business institutions like Producers' Collective would provide business support to producers on a sustainable basis with the help of trained Community Resource Persons (CRP). These systems will be in place and will be essential condition for the safe exit from the area.

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM) Annexure I Batch I											
Name of PIA : Dalbhum Forest Division		Code of Micro Watershed :4H3A4a4e									
Name of Micro Watershed : Baharagora		No of families existing under Micro Watershed : 583 HH, Landless- 185 HH									
Districts : East Singhbhum		No of SHG to be formed : 15 No									
Blocks Covered : Baharagora		No of UG to be formed : 11 No									
Name of Village : Rangamatiya, Patbera, Jagdha, Randhiabandhi, Baharagora, Kaliya, Murabani, Kuldaha, Garang, Dhadangri, Asti, Bela & Dighi		No of Training to be Proposed : 32 No,									
Total Geog. Area of Micro Watershed (Ha) : 795.84 Ha		No of Exposure Visits to be Conducted : 00 No									
Total Proposed Area to be Treated (Ha) : 537.27 Ha		Nos of Persons Days to be Generated : 16117 No									
Total Budget (Rs. In Lakhs) : 64.47 Lakhs		Date of Approval from Gram Sabha : 2nd March 2011									
Year Wise Physical Details for the Selected Micro-watershed											
Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	Grand Total	
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	875	No	875	0	0	0	0	875	
		b)Distribution of seeds through revolving fund	175	No	175	0	0	0	0	175	
		c)Repairing of drinking well	2	No	2	0	0	0	0	2	
		d)Distribution of gator sprayer for farmers group	8	No	8	0	0	0	0	8	
		e)Distribution of fertilizer cum seed broadcaster for farmers group	8	No	8	0	0	0	0	8	
		f)Cattle vaccination camp	4	No	4	0	0	0	0	4	
		g)Solar street light	2	No	2	0	0	0	0	2	
		h)Health camp	1	No	1	0	0	0	0	1	
		a)Construction of Pond	3	No	1	2	0	0	0	3	
		b)Dari Chuan	2	No	1	1	0	0	0	2	
2	Water Conservation	c)Check Dam Construction	2	No	0	0	1	1	0	2	
		a)Loose Boulder Structure (100'x4'x4')	3	Ha	0	0	3	0	0	3	
		b)Loose Boulder Structure (25'x4'x4')	11	No	3	5	3	0	0	11	
3	Soil and Moisture Conservation	c)Staggered Contour Trenching	50	No	16	10	12	12	0	50	
		d)Levelling of land	32	Ha	12	10	5	5	0	32	
		a)Training for SHG/UG/WC/PI Related	3	No	1	1	1	0	0	3	
		b)NRM Related	6	No	1	2	3	0	0	6	
3	Capacity Building	c)Production Enhancement related training	10	No	2	5	3	0	0	10	
		d)Livelihood & Micro Enterprise	4	No	1	2	1	0	0	4	
		e)PIA/WDT	4	No	1	2	1	0	0	4	
		f)Convergence/ Rights and entitlement/Well being related training	5	No	1	2	2	0	0	5	

Sl no	Budget Head	Details of Activities	Qty	Unit	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
					Phy	Phy	Phy	Phy	Phy	Phy	Phy	Phy			
4	Livelihood for Assetless	a)Goatry	4	unit	0	1	1	1	2	2	0	0	0	0	4
		b)Poultry	4	Ha	0	2	0	0	2	2	0	0	0	0	4
		d)Fisheries	1	No	0	1	0	0	0	0	0	0	0	0	1
		c)Market Linkages of SHG Products	1	No	0	0	0	0	0	0	0	1	1	1	1
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	4	Ha	0	1	1	1	2	2	0	0	0	0	4
		b)Mushroom Unit	5	Unit	0	2	1	1	2	2	0	0	0	0	5
		c)SRI Cultivation in Rice	11	Ha	0	2	4	4	5	5	0	0	0	0	11
		d)Reclamation of Soil	9	Ha	0	3	3	3	3	3	0	0	0	0	9
		e)Mango Plantation	6	Ha	0	2	2	2	2	2	0	0	0	0	6
		f)HYV Tomato Demonstration	4	No	0	1	2	2	1	1	0	0	0	0	4
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	1	No	0	0	0	0	0	0	1	1	1	1	1
		b)Experience sharing workshop at District Level	3	No	0	0	0	0	0	0	2	2	2	2	3
		c)Revolving fund for Village Level Institution	7	No	0	0	0	0	0	0	0	0	0	7	7
		d)Contingency fund to Watershed Committee	1	No	0	0	0	0	0	0	0	0	0	1	1
7	Project Admin.				...	...	...	...	...	...	...	...	...	...
8	Monitoring				...	...	...	...	...	...	...	...	...	...
9	Evaluation				...	...	...	...	...	...	...	...	...	...
10	DPR.				...	...	...	...	...	...	...	...	...	...
		Total				...	...	...	...	...	...	...	...	...

CEO,SLNA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

State Level Nodal Agency - Jharkhand State Watershed Mission (SLNA-JSWM)													Annexure II		Batch I	
Name of PIA : Dalbhum Forest Division																
Code of Micro Watershed : 4H3A4a4e																
Name of Villages Covered :13																
Year Wise Financial Details for the Selected Micro-watershed																
Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin	
1	Entry Point Activities (EPA)	a)Distribution of Mango Graft Seedling	875	No	0.00045	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
		b)Distribution of seeds through revolving fund	175	No	0.00075	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
		c)Repairing of drinking well	2	No	0.145	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
		d)Distribution of gattor sprayer for farmers group	8	No	0.063	0.504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
		e)Distribution of fertilizer cum seed broadcaster for farmers group	8	No	0.045	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
		f)Cattle vaccination camp	4	No	0.05	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
		g)Solar street light	2	No	0.30	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
		h)Health camp	1	No	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2	Water Conservation	a)Construction of Pond	3	No	1.83	1.83	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.49
		b)Dari Chuan	2	No	0.41	0.41	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
		c)Check Dam Construction	2	No	4.65	0.00	0.00	0.00	4.65	4.65	0.00	0.00	4.65	0.00	0.00	9.30
		a)Loose Boulder Structure (100'x4'x4')	3	Ha	1.04	0.00	0.00	0.00	0.00	3.12	3.12	0.00	0.00	0.00	0.00	3.12
		b)Loose Boulder Structure (25'x4'x4')	11	No	0.27	0.81	1.35	0.81	0.81	0.81	0.81	0.00	0.00	0.00	0.00	2.97
		c)Staggered Contour Trenching	50	No	0.078	1.25	0.78	0.94	0.94	0.94	0.94	0.94	0.94	0.00	0.00	3.90
3	Capacity Building	d)Levelling of land	32	Ha	0.18	2.16	1.80	0.90	0.90	0.90	0.90	0.90	0.00	0.00	0.00	5.76
		a)Training for SHG/UG/WC/PI Related	3	No	0.182	0.18	0.18	0.18	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.55
		b)NRM Related	6	No	0.029	0.03	0.06	0.06	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.17
		c)Production Enhancement related training	10	No	0.147	0.29	0.74	0.74	0.44	0.44	0.44	0.00	0.00	0.00	0.00	1.47
		d)Livelihood & Micro Enterprise	4	No	0.168	0.17	0.34	0.34	0.17	0.17	0.17	0.00	0.00	0.00	0.00	0.67
		e)PIA/WDT	4	No	0.036	0.04	0.07	0.07	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.14
		f)Convergence/ Rights and entitlement/Well being related training	5	No	0.043	0.04	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.22
		a)Goatry	4	unit	0.50	0.00	0.50	0.50	0.50	0.50	0.50	1.00	1.00	0.00	0.00	2.00
		b)Poultry	4	Ha	0.93	0.00	1.86	1.86	0.00	0.00	0.00	1.86	1.86	0.00	0.00	3.72
		d)Fisheries	1	No	0.35	0.00	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
4	Livelihood for Assetless	c)Market Linkages of SHG Products	1	No	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.38

Sl no	Budget Head	Details of Activities	Qty	Unit	Rate in Rs. In Lakh	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		Grand Total
						Fin	Fin	Fin	Fin	Fin	Fin	Fin	Fin			
5	Productivity Enhancement and micro Enterprises	a)Stitching Machine	4	Ha	0.206	0.00	0.21	0.21	0.21	0.41	0.00	0.41	0.00	0.00	0.82	
		b)Mushroom Unit	5	Unit	0.40	0.00	0.80	0.40	0.40	0.80	0.00	0.80	0.00	0.00	2.00	
		c)SRI Cultivation in Rice	11	Ha	0.19	0.00	0.38	0.76	0.76	0.95	0.00	0.95	0.00	0.00	2.08	
		d)Reclamation of Soil	9	Ha	0.02	0.00	0.07	0.07	0.07	0.07	0.00	0.07	0.00	0.00	0.22	
		e)Mango Plantation	6	Ha	0.40	0.00	0.80	0.80	0.80	0.80	0.00	0.80	0.00	0.00	2.39	
		f)HYV Tomato Demonstration	4	No	0.22	0.00	0.22	0.44	0.44	0.22	0.00	0.22	0.00	0.00	0.87	
6	Consolidation Phases Activities	a)Institutional linkages with Watershed Committee	1	No	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00		
		b)Experience sharing workshop at District Level	3	No	0.30	0.00	0.00	0.00	0.00	0.60	0.00	0.60	0.30	0.90		
		c)Revolving fund for Village Level Institution	7	No	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70		
		d)Contingency fund to Watershed Committee	1	No	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.62		
7	Project Admin.					1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	6.45		
8	Monitoring					0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.64		
9	Evaluation					0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.64		
10	DPR.					0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64		
Total						12.87	16.19	16.13	14.74	4.55	64.47					

CEO,SLNA
Signature

PIA
Signature

WDT
Signature

(WC - Secretary)
Signature

Thank you