

PROJECT PROPOSAL



PUNASI DAM CATCHMENT

At Ajay River

DISTRICT



DEOGHAR

BLOCK

-

Deoghar

Devipur

DISTRICT

-

Deoghar

STATE

-

Jharkhand

SOIL CONSERVATION SURVEY OFFICER
DEOGHAR

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WATERSHED PROJECT REPORT OF PUNASI DAM CATCHMENT

INTRODUCTION:

The Punasi Dam falls under Ajay catchments in the state of Jharkhand. The undulating topography of the watershed, faulty agriculture practice by the farmers, unchecked soil erosion, poses a serious threat to the life of Punasi dam constructed at the Ajay river. Data received from central Water Commission Ministry of Water resources, Govt. of India indicates heavy rate of siltation. The siltation rate was assumed 538 ac. ft. per annum, but it has been observed at the rate of 2080 ac. ft per annum, which is very high as comparison to the assumed rate. Due to heavy soil erosion, Siltation riverbeds are affected and it needs for proper catchment managements for moderation peak floods and improvement of land resource and moisture regime in the catchments and reduction of silt load age of Punasi Daml has been reduced by 27% of the designed life.

OBJECTIVE:

The main objective of this WPR is therefore: -

1. Prevention of soil loss from the catchment to reduce the siltation of reservoir.
2. Promotion of multi disciplinary integrated approach to catchment treatment.
3. Improvement of land capability and moisture regime in the watershed
4. Promotion of land use to match land capability
5. People's involvement in the management of catchment.
6. Upgradation of skills in planning and execution of land development programme.

The watershed comes under high priority and the soil conservation treatments are necessary at present.

This WPR has been prepared in accordance with the guideline and norms provided by Govt. of India for RVP.

More stress has been given on forest plantation as this would provide employment to the local Adiwasi population and at the same time cater agricultural and fuel needs of the farmers besides reducing threat of soil erosion.

In addition to the soil conservation treatment, other aspect like Silvi-pastoral system, agro forestry, horticulture, pisciculture and pasture development has been included in this WPR to fulfill the need of watershed's human and cattle population as well as to improve their socio-economic condition.

A.S.C.O.
Deoghar

एच.एस.सी.ओ. देवघर
Deoghar

बिबा भूमि-विकास-विकास
Deoghar

कायपालक अभियन्ता
मिनार् प्रमोद जसोही

PUNASI DAM CATCHMENT WATERSHED PROJECT REPORT

State : Jharkhand
Catchment : AJAY
Watershed : Punasi Dam
Priority : Very High

Part- "A" Basic Information:

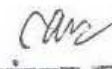
SN	Land Use	Total Area in Ha.			Treatable Area in Ha			Present Treated Area			Balance to be treated		
		Govt.	Pvt.	Total	Govt.	Pvt.	Total	Govt.	Pvt.	Total	Govt.	Pvt.	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Agriculture including Horticulture Land	22	1818	1840	22	1818	1840	-	-	-	22	1818	1840
2	Forest Land	-	-	-	-	-	-	-	-	-	-	-	-
3	Waste Land	360	547	907	360	547	907	-	-	-	360	547	907
4	Other Land	1502	204	1706	-	-	-	-	-	-	-	-	-
	Total	1884	2569	4453	382	2365	2747	-	-	-	382	2365	2747

Geographical and Physical Information:

Location:

- a) Longitude of Watershed : 86°30' - 86°32' East
b) Latitude of Watershed : 24°30' - 24°32' East
c) Name of District : Deoghar
d) Name of Block : Deoghar

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Name of Villages Covered

Sl. No.	Name of Village	Thana No.
1.	Gamriatanr	36
2.	Jhiluachaddih	37
3.	Rajbandh	38
4.	Katwatnar	41
5.	Ukharia	42
6.	Harkatta	43
7.	Naridumri	50
8.	Pahridih	51
9.	Nayadih Bahinga	52
10.	Bara Khairwa	60
11.	Basakola	61
12.	Bhagwanpur	62
13.	Tetaria	68
14.	Purnadih	71
15.	Kurabahiyar	72
16.	Chhoti Khairwa	74
17.	Nawadih	75
18.	Hasuadih	39
19.	Bhitta	40
20.	Chihumarni	53
21.	Asta	54
22.	Teludih	57
23.	Patharghatta	58
24.	Sarhodih	59
25.	Ramsahia	55
26.	Kusaiya	56
27.	Pipra	70
28.	Baghmari	77
29.	Santhalbadia	78
30.	Gwalbadia	79
31.	Jagmania	80
32.	Dharampur	81
33.	Dumarjor	82
34.	Parbatna	69
35.	Gomdidih	83
36.	Khamardih	84
37.	Ghaghi	97
38.	Laldikola	100
39.	Parariya <i>rs</i>	101
40.	Gokhula <i>rs</i>	103

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 जयपुर पंचायत जसीदी।

Soil Profiles

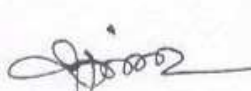
Sl	Major soil classes	Area in ha
1.	Alluvial and Colluvial soil	1525.00
2.	Laterite soil	1222.00
3.	Red and brown soil	0.00
4.	Black soil	0.00
5.	Teraï soil	0.00
6.	Delta soil	0.00
Total		2747.00

D. Soil Depth

Depth in cms	Area in ha
0.0 to 7.5	540.10
7.5 to 45.00	2265.75
45.00 to above	1647.15
Total	4453.00

E. Slope of Watershed

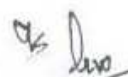
Slope %	Area in ha
0 to 3%	1122.00
3 to 8%	848.00
8 to 25%	625.00
25 and above	152.00
Total	2747.00




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Trees, Shrubs and Grasses

Sl No.	Description	Name	On Govt. Land		On Pvt. Land	
			Use	Area No/Ha.	Use	Area
1	Trees	Mahua	Food, Oil fodder & Oil Cake	5 Nos.	Food, Oil Fodder & Oil Cake	---
		Jack Fruit	Wood	4 Nos.	Fruit	---
2	Lots	Mango	Fruit	4 Nos.	Fruit	---
3	Boundary of Field	Lantana	Fuel	---	---	---
4	Grasses	Dub+Motha	Fodder	---	Fodder	---

Water Resources (Existing)

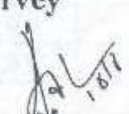
Description	No.	Area Irr. (ha)	Av. Command Area
a. Surface Water			
(i) Major Irr. Project	---	---	---
(ii) Minor Irr. Project	---	---	---
(iii) Ponds/Tank	22	44	2.0/Tank

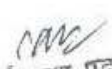
Ground Floor

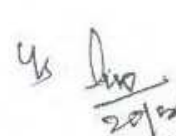
Description	No.	Area Irr. (ha)	Av. Command Area
1 Dug Wells	182	45.5	0.2ha
2 Shallow Tube Well			
3 Pumping Set	162		
4 Deep Tubewell			
5 River etc.	3 No.	51 Ha	17 Ha
Total		96.5 Ha	

Sources-Data collected from Local Survey

140.5 ha

 
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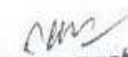
Land use details of Micro-I Punasi Dam Catchment

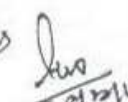
SN	Name of Village	Thana No.	Geographical Area (Ha)	Forest (Ha)	Irrigated Land (Ha)	Unirrigated Land (Ha)	Culturable Waste Land	Area Not available for cultivation	Treatable Area (Ha)
1	Gamriatanr	36	87.77	10.28	-	60.35	12.09	5.05	
2	Jhiluachanddih	37	311.13	4.12	-	150.67	158.08	98.26	
3	Rajbandh	38	42.72	-	3.24	17.19	14.53	7.76	
4	Katwatanr	41	81.57	-	-	33.6	22.03	25.94	
5	Ukharia	42	42.15	-	4.86	24.55	7.00	5.74	
6	Harkatta	43	99.66	23.61	21.04	37.42	6.75	11.04	
7	Naridumri	50	70.08	-	2.63	21.71	18.32	27.42	
8	Pahridih	51	77.11	37.98	2.22	16.43	18.72	1.76	
9	Nayadih Bahinga	52	76.25	-	8.5	33.56	19.26	14.93	
10	Barakhairwa	60	46.65	-	2.42	23.45	2.35	18.43	
11	Basakola	61	109.73	-	8.09	54.81	38.75	8.08	
12	Bhagwanpur	62	72.95	2.79	7.08	32.29	7.77	23.02	
13	Tetaria	68	30.73	-	4.85	11.82	-	14.06	
14	Purnadih	71	33.94	-	0.81	10.8	15.35	6.98	
15	Kurabahiyar	72	37.91	5.59	1.21	14.93	9.67	6.51	
16	Chhotikhairwa	74	34.74	-	-	6.9	8.97	11.02	
17	Nawadih	75	22.46	-	-	10.57	0.87	11.02	
Total			1277.55	84.37	66.95	561.05	360.51	297.02	988 Ha

Land use details of Micro-II Punasi Dam Catchment

SN	Name of Village	Thana No.	Geographical Area (Ha)	Forest (Ha)	Irrigated Land (Ha)	Unirrigated Land (Ha)	Culturable Waste Land	Area Not available for cultivation	Treatable Area (Ha)
1	Hasuadih	39	37.34	-	15.26	16.10	11.02	4.96	
2	Bhitta	40	57.03	-	16.19	33.38	4.23	3.23	
3	Chihumarni	53	167.25	4.45	43.34	58.90	58.54	2.02	
4	Asta	54	243.71	-	14.37	58.80	12.99	157.55	
5	Teludih	57	10.27	-	-	9.85	-	0.42	
6	Patharghatta	58	86.47	-	9.01	45.86	15.56	15.95	
7	Sarhodih	59	24.9	-	1.21	16.72	1.26	5.71	
Total			626.97	4.45	99.38	239.61	103.60	189.84	443 Ha

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Land use details of Micro-III Punasi Dam Catchment

SN	Name of Village	Thana No.	Geographical Area (Ha)	Forest (Ha)	Irrigated Land (Ha)	Unirrigated Land (Ha)	Culturable Waste Land	Area Not available for cultivation	Treatable Area (Ha)
1	Ramsahia	55	91.41	-	2.42	48.87	3.74	36.38	
2	Kusaiya	56	92.45	-	4.85	40.31	3.69	43.6	
3	Pipra	70	15.70	-	1.62	12.79	-	1.29	
4	Baghmari	77	327.26	106.11	1.21	111.93	55.47	52.54	
5	Santhalbadia	78	277.47	125.78	0.81	99.11	15.55	36.22	
6	Gwalbadia	79	334.34	35.38	2.42	119.28	75.64	101.62	
7	Jagmania	80	223.50	54.07	16.19	65.67	42.43	45.14	
8	Dharampur	81	188.15	55.49	7.28	36.15	54.69	34.54	
9	Dumarjor	82	177.22	66.72	16.18	36.47	42.76	15.09	
Total			1727.5	443.55	52.98	570.58	293.97	366.42	917 Ha

Land use details of Micro-IV Punasi Dam Catchment

SN	Name of Village	Thana No.	Geographical Area (Ha)	Forest (Ha)	Irrigated Land (Ha)	Unirrigated Land (Ha)	Culturable Waste Land	Area Not available for cultivation	Treatable Area (Ha)
1	Parbatna	69	22.12	8.09	-	11.93	1.00	1.10	
2	Gomdidihi	83	109.7	32.81	2.02	28.26	36.80	9.81	
3	Khamardihi	84	108.34	27.74	16.18	26.10	32.42	5.90	
4	Ghaghi	97	171.94	79.26	2.02	36.20	30.22	24.24	
5	Laldikola	100	125.56	30.65	-	51.58	24.40	18.93	
6	Parariya	101	121.91	25.79	1.21	52.84	17.09	24.98	
7	Gokhula	103	59.65	24.93	-	21.48	6.88	6.36	
Total			719.22	229.27	21.43	228.39	148.81	91.32	399 Ha

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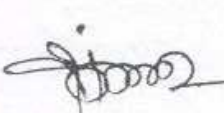
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Population details of Micro-I Punasi Dam Catchment

SN	Name of Village	Thana No.	No. of Household	Population			
				Male	Female	ST	SC
1	Gamriatanr	36	17	38	42	-	-
2	Jhiluachanddih	37	123	340	301	15	28
3	Rajbandh	38	21	50	52	-	-
4	Katwatanr	41	-	-	-	-	-
5	Ukharia	42	32	98	108	88	80
6	Harkatta	43	31	126	100	-	-
7	Naridumri	50	16	35	39	-	-
8	Pahridih	51	21	48	49	30	25
9	Nayadih Bahinga	52	10	31	30	-	-
10	Barakhairwa	60	5	16	17	-	-
11	Basakola	61	55	180	170	-	56
12	Bhagwanpur	62	48	148	150	-	-
13	Tetaria	68	34	96	101	6	46
14	Purnadih	71	4	12	14	-	-
15	Kurabahiyar	72	24	64	44	-	-
16	Chhotikhairwa	74	-	-	-	-	-
17	Nawadih	75	-	-	-	-	-
Total			441	1282	1217	139	235

Population details of Micro-II Punasi Dam Catchment

SN	Name of Village	Thana No.	No. of Household	Population			
				Male	Female	ST	SC
1	Hasuadih	39	11	36	16	-	-
2	Bhitta	40	28	66	60	-	-
3	Chihumarni	53	35	60	50	-	-
4	Asta	54	81	271	241	-	-
5	Teludih	57	-	-	-	-	-
6	Patharghatta	58	54	207	168	35	-
7	Sarhodih	59	42	99	90	25	-
Total			251	739	625	60	


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निवासी मुख्यालय
 जिला मुख्यालय

20/12/14
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Population details of Micro-III Punasi Dam Catchment

SN	Name of Village	Thana No.	No. of Household	Population			
				Male	Female	ST	SC
1	Ramsahia	55	22	63	71	16	-
2	Kusaiya	56	22	70	54	-	-
3	Pipra	70	18	44	52	62	25
4	Baghmari	77	93	262	246	140	143
5	Santhalbadia	78	80	260	271	424	-
6	Gwalbadia	79	82	296	236	30	32
7	Jagmania	80	79	270	262	-	-
8	Dharampur	81	32	91	105	160	-
9	Dumarjor	82	10	13	18	18	-
Total			438	1369	1315	850	200

Population details of Micro-IV Punasi Dam Catchment

SN	Name of Village	Thana No.	No. of Household	Population			
				Male	Female	ST	SC
1	Parbatna	69	-				
2	Gomdidihi	83	12	32	30	54	6
3	Khamardih	84	15	50	38	-	-
4	Ghaghi	97	25	74	70	-	92
5	Laldikola	100	24	107	91	-	-
6	Parariya	101	34	112	110	-	-
7	Gokhula	103	41	137	135	48	5
Total			151	512	474	102	103

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Climate, Hydrology and Sediment

Monthly Rainfall (in mm.)

SN	Name of Month	2003	2004	2005	2006	2007
1	January	0.00	0.00	15.60	0.00	0.00
2	February	29.40	0.00	3.00	0.00	25.50
3	March	29.90	6.50	37.00	12.40	23.80
4	April	18.30	12.40	17.40	42.00	12.60
5	May	65.50	22.60	32.40	25.40	47.20
6	June	191.50	319.40	179.20	308.00	85.80
7	July	167.50	141.32	270.43	203.60	743.00
8	August	127.70	246.58	43.80	228.60	446.90
9	September	134.95	362.80	29.80	560.80	354.40
10	October	208.30	232.00	51.66	33.40	83.00
11	November	0.00	0.00	0.00	21.40	0.00
12	December	0.00	0.00	0.00	0.00	0.00
Total		973.05	1343.60	600.29	1435.60	1822.20

2. Average Annual Rainfall of last five years - 1234.95 m.m.

3. Maximum Rainfall intensity (mm)

(i)	15 Minutes	-	Duration	46.80
(ii)	15 Minutes	-	Duration	45.70
(iii)	15 Minutes	-	Duration	43.60

4. Temperature (Degree C)

	Season	Maximum	Minimum
(i)	Summer	90°F	74°F
(ii)	Winter	83°F	49.5°F
(iii)	Rainy	92°F	78.7°F

5. Potential Evapo-tranpiration (mm/hr)

	Season	
(i)	Summer	----
(ii)	Winter	Not Available
(iii)	Rainy	----

6. Run off

(i) Peak Rate (cum/sec.)

$$Q = \frac{C.I.A.}{360} = \frac{0.4 \times 43.60 \times 4453}{360} = 215.72 \text{ cum/sec.}$$

(ii) Frequency of Peak (two in month of Sep.)

(iii) Total run of volume of water of Rainy Season (h.m.)

$$= \frac{Rc \times 1 \times A}{1000} = \frac{0.6 \times 1233 \times 4453}{1000} = 3294.32 \text{ ha.m.}$$

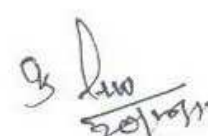
(iv) Time of return of max flood = No.

7. Sedimentation : Sedimentation production rate (S.P.R.) – 10 ha-m

Source – Data collected from Deoghar


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 कार्यपालक अभियन्ता
 सिविल प्रमाणित जमीनी

Socio Economic Parameter

House hold and Economic Activities

Total No House hold 1395

Total Population

Male 3902

Female 3631

Total 7533

	No. of household	Female	Male	Total
(i) S.C. (Schedule Caste)	47	552	539	1091
(ii) S.T. (Schedule Tribe)	58	300	298	598
(iii) Small and Marginal Farmer	105	200	300	500
(iv) Others	80	190	210	400
1. Dairy		288		
2. Poultry		220		
3. Fisheries		20		
4. Piggery		21		
5. Landless Agri Labour		142		
6. Artisans		128		
7. Others		790		

Cattle and Animal Population

Sl No.	Description of Animal	Population
1.	Bullocks	998
2.	Cows	1185
3.	Buffalos	202
4.	Goats & Sheep	2266
5.	Pig	119
6.	Poultry	2384

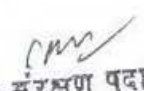
Source-Data collected from local survey.

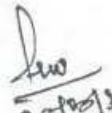
Migration of Cattle

No.	Type of animals	Migration No. Period	Emigration No. Period
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There is no case of animal migration and emigration of animal in Watershed area.


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CK

 20/01/17
 कार्यपालक अभियन्ता
 सिवाई ग्रामण्डल जसीदी

Resource Status:

Agricultures: Cropping Pattern

S.N.	Name of Crop	KHARIF			RABI			TOTAL		
		Irrg.	Dry	Total	Irrg.	Dry	Total	Irrg.	Dry	Total
1	2	3	4	5	6	7	8	9	10	11
1	2	3a	3b	3c	4a	4b	4c	5a	5b	5c
CEREAL AND OTHER										
1	Paddy	00	992	992	00	00	00	00	992	992
2	Maize	00	172	172	00	00	00	00	172	172
3	Maruwa	00	5	5	00	00	00	00	5	5
4	Wheat	00	00	00	30	00	30	30	00	30
5	Jwar+Bajra	00	9	9	00	00	00	00	9	9
PULSES										
1	Arahar	00	64	64	00	00	00	00	64	64
2	Gram	00	00	00	00	06	06	00	06	06
3	Kulthi	00	47	47	00	00	00	00	47	47
OIL SEED										
1	Ground Nut	00	03	03	00	00	00	00	03	03
2	Surguja	00	19	19	00	00	00	00	19	19
3	Linseed	00	00	00	00	08	00	00	08	08
4	Mustered	00	00	00	00	28	00	00	28	28
5	Til	00	04	04	00	00	00	00	04	04
COMMERCIAL CROPS										
1	Potato	00	00	00	26	00	26	26	00	26
2	Vegetable	00	57	57	21	00	21	21	57	78
3	Other crops	00	76	76	12	20	32	12	96	108
	Total	00	1448	1448	89	62	115	89	1520	1609

पति संरक्षण सर्वेक्षण पदाधिकारी
12

विद्या भूमि संरक्षण पदाधिकारी
देवधर।

कायंपालक अभियन्ता
सिवाई प्रमण्डल जसोडो

INFRASTRUCTURAL STATUS

(A)	NURSERY		
	(i) Departmental	-	Nil
	(ii) University/Institute	-	Nil
	(iii) Private	-	Nil
(B)	Credit Institution		
	(i) Bank	-	Gramin Bank at Koridih
		-	Allahabad Bank, Devipur (near Watershed area)
	(ii) Corporative Society	-	Nil
(C)	Agro- Service Centre	-	Deoghar
(D)	Special promotional Agencies operation in the area	-	Deoghar 20 KMs & Servicing cvinstitution
(E)	N.G.O.S.	-	Nil
(F)	Village Panchayat	-	Four
(G)	Road	-	Pitch road Khoripanan to Punasi
(H)	Railway Station	-	Jasidih
(I)	Communication	-	Nearest 12 KMs
	Post Office	-	Punasi
(J)	Contact Person	-	Mukhiyas, V.L.W. and Villagers
(K)	Medical Facilities	-	2 Nos. Health Sub Centre

Strategy

The local situation of watershed is 16 KM from block. The mass is uneducated, hence needs extension method for education them socio-economic condition is not up to the mark. In addition to Govt. efforts Private Agencies should be persuaded to take up the programme with the help of local peasantry. Development potential is not to be created for the upliftment of the Watershed Area.

Organization Set up:

1. Nodal Department : Agril (Soil Conservation)
2. Line Department : Animal husbandary, forest and Fisheries etc.
3. Project Team : In the process of formation.
4. PLIC
5. Mitra Kishan/Banpal

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जिला भूमि संरक्षण पदाधिकारी
देवघर।

जिला भूमि संरक्षण पदाधिकारी
देवघर।

कायपालक आगन्तु
सिबाई प्रमण्डल जसीडीह

PROJECT AREA-2747 Ha.
Block- Deoghar, Devipur

PART-"B" ACTIVITIES/COMPONENTS OF THE PROJECT - FUNAGRI DRAIN CANAL

Project Cost-Rs. 1,78,55,500.00
Ceiling-Rs. 6500/Ha.

Dist.-Deoghar

State-Jharkhand

SN	Components/Activities in Agri/Waste Land-Agriculture Land	Phy/Fin	Micro-I	Micro-II	Micro-III	Micro-IV	Total
1	2	3	4	5	6	7	8
	Agriculture Land						
1	Survey & demarcation (2% of Project Cost)	P	628 Ha	339 Ha	623 Ha	250 Ha	1840 Ha
		F	81640.00	44070.00	80990.00	32500.00	239200.00
2	Contour/Graded Bunding	P	75 Ha	40 Ha	75 Ha	30 Ha	220 Ha
		F	201000.00	107200.00	201000.00	80400.00	589600.00
3	Contour Hedge Supported by contour Bund	P	130 Ha	65Ha	119 Ha	61 Ha	375 Ha
		F	299000.00	149500.00	273700.00	140300.00	862500.00
	Horticulture Plantation	P	72 Ha	47 Ha	72 Ha	20 Ha	211 Ha
		F	326880.00	213380.00	326880.00	90800.00	957940.00
	Drainage Line Treatment	P	50 No	30 No	50 No	20 No	150 No
		F	75 Ha	45 Ha	75 Ha	30Ha	225 Ha
4	Upper Reaches	F	245500.00	147300.00	245500.00	98200.00	736500.00
	Earthen/Loose boulder with Vegetative support	P	40 No.	27 No	40 NO	20 No	127 No
		F	80Ha	54Ha	80 Ha	40 Ha	254 Ha
	Middle Reaches	F	471200.00	318060.00	471200.00	235600.00	1496060.00
	Earthen/Loose boulders with vegetative support	P	12 No	3 No	14 No	2 No	31 No
		F	48Ha	12Ha	56 Ha	8 Ha	124 Ha
	Lower Reaches	F	202200.00	50550.00	235900.00	33700.00	522350.00
	Earthen/Loose boulders with vegetative support	P	20No	8No	19 No	8 No	55 No
		F	100 Ha	40Ha	95 Ha	40 Ha	275 Ha
b	Percolation Tank/S.D.S.	F	1178000.00	471200.00	1119100.00	471200.00	3239500.00
		P	3 No	2No	3 No	1 No	9 No
		F	36 Ha	24Ha	36.Ha	12 Ha	108 Ha
c	Water Harvesting structure (W.H.S.)	F	575940.00	383960.00	575940.00	191980.00	1727820.00
		P	4 No	4No	5 NO	3 No	16 No
		F	12Ha	12Ha	15 Ha	9 Ha	48 Ha
d	Farm Pond	F	111120.00	111120.00	138900.00	83340.00	444480.00
		P	628 Ha	339 Ha	623 Ha	250 Ha	1840 Ha
		F	129 No.Str.	74 No Str	131 No Str	74 No. Str.	388 No. Str
	Total of Agriculture Land	F	3692480.00	1996340.00	3669110.00	1458020.00	10815950.00

समि संरक्षण संरक्षण पदाधिकारी
देवपुर

खिला भूमि संरक्षण पदाधिकारी
देवपुर

समि संरक्षण संरक्षण पदाधिकारी
देवपुर

Part 'C'

Direction and Control

Project Information:

- a. Consultation with beneficiaries:
(Describe the procedure adopted)

Mostly contracted in Gram
Panchayats Meeting and personal contract with
Mukhiyas and Gram panchayat Executive

I. Implementation:

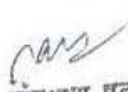
		No. of Training Programme	No. of Person to be trained
A.	Training Workshop		
	1. Staff Training		
	a. State Level	2 No.	10 No
	b. Project Level	4 No.	20 No
	2. Workshop		
	a. Kishan/beneficiaries	4 No.	250 No.
	b. NGO's	Nil	Nil
	3. Farmer Visit	2 No.	100 No.

B	Inspection		
	a. Project Level	:	District Soil Conservation Officer, S.C.O. & A.S.C.O.
	b. State Level	:	Director, Soil Conservation, Jharkhand
	c. Govt. of India Level	:	Nil
C	Reporting (Indicate Yes/No)		
	a. Quarterly Progress Report	:	Yes
	b. Annual Appraisal Report	:	Yes

III. Monitoring and Evaluation:

	a. Evaluation by State Govt.	:	Director, Soil Conservation, Jharkhand
	b. Evaluation by outside Agencies	:	Nil
	c. Sediment Monitoring/Response Studies	:	Nil





जिला भूमि संरक्षण व दामिकारी
 देवघर।

20/03/14
 कायपालक अभियन्ता
 मिर्वाई प्रमण्डल जसीदी

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CROP PRODUCTION INDICATORS

Sl No.	Description	At the Commencement of the project			Anticipated at the end of the project		
		Irrigated Area (ha)	Non Irrigated Area (Ha)	Average yield Kg./Ha	Irrigated Area (ha)	Non Irrigated Area (Ha)	Average yield Kg./Ha
1	2	3	4	5	6	7	8
1	Kharif Crop						
	Paddy		992	800	00	1050	1500
	Maize		172	800	00	182	1000
	Marua+Guldli		5	200	00	12	200
	Jowar+Bajra		9	300	00	17	400
	Arhar		64	800	00	70	1000
	Kulthi		47	400	00	47	500
	G. Nut		03	700	00	10	600
	Kharif Vegetable		57	4000	00	45	5000
	Surguja		19	400	00	30	450
	Til		04	200	00	06	300
	Others Crops		76	300	00	80	400
	Total		1448	00	00	1549	00
	Rabi						
	Wheat	70	--	800	59	--	1200
	Gram	--	06	800	--	10	1000
	Linseed	--	08	400	--	10	450
	Mustard	--	28	300	--	35	400
	Potato	--	--	6000	400	--	10000
	Rabi Vegetable	28	--	4000	30	--	5000
	Other Crops	12	20	400	15	20	500
	Total	110	2958	21600	504	3173	29900

Part-"E"

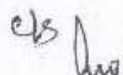
ALLOCATION FOR DIFFERENT ACTIVITIES/COMPONENTS			
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S.N.	Items	Percentage of Total outlay	Amount Rs. In Lakh
Works:			
(i)	Survey, Demarcation field Investigation and preparation of WPR	2%	3,48,630.00
(ii)	Treatment of Agriculture and non agriculture lands with Appropriate measures including Drainage line treatment and land use including as per APP	87%	1,51,65,410.00
1.	(iii) Entry Point Activities	1%	1,74,315.00
Infra Structure:			
(i)	Contingencies including office expenditure component, fuel of Vehicle, Equipments etc.	4.0%	6,97,260.00
(ii)	Hydrology & Sediment monitoring	3.0%	5,22,945.00
(iii)	Training workshop and demonstrations	3.0%	5,22,945.00
Total		100%	Rs. 1,74,31,505.00




एन सीएस सर्वेक्षण पदाधिकारी
देवघर ।


जिला भूमि संरक्षण पदाधिकारी
देवघर ।


20/12/16
कायदा विभाग अ.प.पन्ना
सुबाई प्रमोद जसीडो

Part-"F"

COST-BENEFITS RATIO ANALYSIS

BENEFITS (Excluding Secondary Benefits)

	Physical Quantity	Value
Agricultural Production		
(a) Food Grains	39187 qt.	4056567.00
(b) Pulses	3870 qt.	847131.00
(c) Horticultural Products	---	--
(d) Pasture (Grass output)	2570 qt.	37625.00
(e) Others	4970 qt.	316171.00
(f) Dairying (Milk output)	---	--
(g) Forest Products (Timber, Fuel & Timber)	15090 qt.	530800.00
Total	65687 qt.	5788294.00

TOTAL COST (Including Establishment) Rs. 4485000.00

Cost Benefits Ratio - 1:1.29

 **बुमि संरक्षण सर्वेक्षण पदाधिकारी**
नेत्रचर ।

 **बिला भूमि संरक्षण वदाधिकारी**
देववर ।

cls 
20/12/14
कायपालक अभियन्ता
मिचाई प्रमण्डल जसोडी

Estimated Cost of SDD Scheme

- 1 Name of Village
- 2 Name of Block
- 3 Name of Dist.
- 4 Name of M/W

SN	Item of Work	Quantity	Rate	Amount
1	2	3	4	5
1	Removal of Loose materials and clearance of site	8000 sft	Rs. 139/1000sft	Rs. 1112.00
2	E/w for sand removal form nalabed	1400 cft	Rs. 864/1000cft	Rs. 1209.60
3	E/w filling in nalabed	1400 cft	Rs. 1056/1000cft	Rs. 1478.40
4	Cost of E/w for Lift beyond initial lift of 5'	8400 cft	Rs. 95/1000 cft	Rs. 798.00
5	Cist if E/w for Lead beyond initial Lead of 50'	13300 cft	Rs. 95/1000 cft	Rs. 1263.50
6	Cost of E/w in Hard or very Hard soil including breaking of clods and making the Bund in proper slope and profile as per specification and direction of O/I. 50% Hard Soil 50% Very Hard Soil	10025 cft 30075 cft	Rs.950/1000 cft Rs. 1056/1000 cft	Rs. 9523.75 Rs. 31759.20
7	Cost of Grass Sodding of 2" Thick Grass including watering, Thapi and all Lead and Lift complete as per direction & specification of O/I	7000 sft	Rs. 390/1000 sft	Rs. 2730.00
8	Cost of Boulder pitching of 12" irregular size as per specification & direction of O/I	-	-	-
9	Cost of Survey & Layout	-	-	Rs. 126.00
				Rs. 50,000.45 or Rs. 50,000.00

A.S.C.O.
Deoghar

पवि श्रीशिवजी मूर्तिपूजा पदाधिकारी
Deogarh - १

जिला भूमि संरक्षण पदाधिकारी
D.S.C.O.
Deoghar

20/01/24
कायपालक अभियन्ता
मिचार्ड प्रमण्डल जसोदी

E/w Calculation of SDD Scheme in Village

Station	R.L.	Height	Top	Base	C.S.	Av. C.S.	Interval	E/W
0	100	-	8	-	-	-	-	-
25'	95	5	8	28	90	45	25'	1125 cft
50'	93	7	8	36	154	122	25'	3050 cft
75'	88	12	8	56	384	269	25'	6725cft
100'	88	12	8	56	384	384	25'	9600 cft
125'	90	10	8	48	280	332	25'	8300 cft
150'	92	8	8	40	192	236	25'	5900 cft
175'	94	6	8	32	120	156	25'	3900 cft
200'	100	-	8	-	-	60	25'	1500 cft
								40100 cft

25 % Hard Soil
75% Very Hard Soil

10025 cft
30075 cft

- 1 Site Clearance-200'x40' = 8000 sft
 2 Sand removal from Nalabed = 1400 sft
 3 E/w filling in excavated pit = 1400 sft

4 Lift calculation-

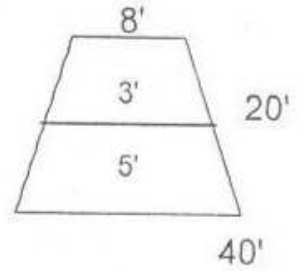
$$\frac{20+8}{2} \times 3 = 42 \times 200 = 8400 \text{ cft}$$

5 E/w for lead 1/3rd of Total E/w = 13300 cft

6 Grass Sodding - U.S.+ Top + D.S.

$$9 + 8 + 18 = 35 \text{ rft}$$

7 Sodding Length - = 200' x 35 = 7000 sft



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रवि संजय ठाकुर पदाधिकारी
Deoghar

बिद्या भूमि संरक्षण पदाधिकारी
D.S.C.O.
Deoghar

कार्यपालक अभियन्ता
सिवाई प्रमोद जसोबी

E/W Calculation of WHS in Village

- A Size of WHS - 140'X140'X8'
 B Length of Bund - 470'
 C Ht. of Bund - 10'
 D Top of Bund - 10'
 E Bottom Width - 50'
 F CS of Bund - 300 sft

- 1 Site Clearance 470'x50'x23500 sft
 2 E/w Calculation by formula - $a+4b+cx \div 6$
 Where a= Area of Top = 140'x140'=19600sft
 b=Area of middle -132'x132'= 17424"
 c=Area of Bottom-124'x124'=15376"

So, E/w- $\frac{19600+4 \times 17424+15376 \times 8}{6}$

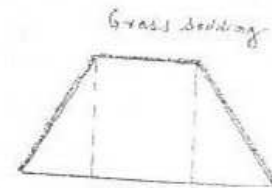
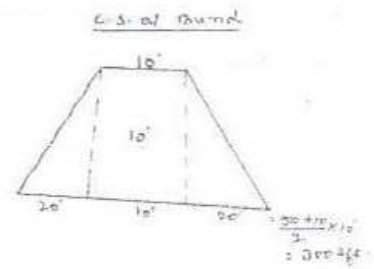
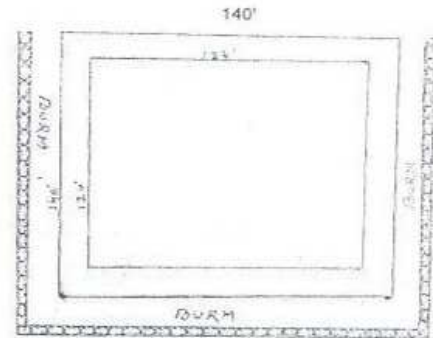
$$\frac{-104672+4b+cx8}{6} = 139562 \text{ or } 139500 \text{ cft}$$

50 % Hard Soil - 69750 cft
 50 % Very Hard Soil - 69750 cft

3 E/w for Lift- 1st Lift
 $\frac{130+124}{2} \times \frac{130+124}{2} \times 3' = 48387 \text{ cft}$

4 E/w for Lead 50% of total E/w = 69750 cft

5 Grass Sodding - U.S.+ Top + D.S.
 $23 + 10 + 23 = 56 \text{ sft}$
 Sodding Length - 470'x56 = 26320 sft
 6 Human Pipe of 12" dia - 16 Meter



[Signature]

A.S.C.O.
Deoghar

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 S.C.O. (S)
 पवि संरक्षण पदाधिकारी
 Deoghar

[Signature]
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 D.S.C.O.
 Deoghar

[Signature]
 20/02/17
 कार्यपालक अभियन्ता
 सिचाई प्रमण्डल जसौदी

Estimated Cost of WHS (Tank Type) At Village

1 Name of Village -

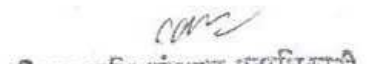
2 Name of Block -

3 Name of M/W -

SN	Item of Work	Quantity	Rate	Amount
1	2	3	4	5
1	Removal of Loose materials and clearance of site	23500 sft	Rs. 139/1000sft	Rs. 3266.50
2	Cost of E/w in Hard or very Hard soil including breaking of clods and making the Bund in proper slope and profile as per specification and direction of O/I. 50% Hard Soil 50% Very Hard Soil	69750 cft 69750 cft	Rs.950/1000 cft Rs. 1056/1000 cft	Rs. 66262.50 Rs. 73656.00
3	Cost of E/w for Lift beyond initial lift of 5'	48387 cft	Rs. 95/1000 cft	Rs. 4596.76
4	Cost if E/w for Lead beyond initial Lead of 50'	69750 cft 69750 cft	Rs. 95/1000 cft	Rs. 6626.25
5	Cost of Hume pipe including fitting & fixing as per specification & direction of O/I	16 Meter	Rs. 94.04/mtr.	Rs. 1504.64
6	Cost of E/w for Spill way as per specification & direction of O/I	-	-	-
7	Cost of Boulder pitching of 12" irregular size as per specification & direction of O/I	-	-	-
8	Cost of Grass Sodding of 2" Thick Grass including watering, Thapi and all Lead and Lift complete as per direction & specification of O/I	26320 sft	Rs. 390/1000 sft	Rs. 10264.80
9	Cost of Survey & Layout, Photography, Signboard etc.	-	-	Rs. 2622.55
				Rs. 168800.00


A.S.C.O.
Deoghar


Deoghar
जिला भूमि सुधार अधिकारी
Deoghar
जिला भूमि सुधार अधिकारी
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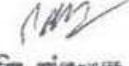
Calculation of L.B.C.D. in village

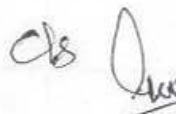
L.B.C.D. No.	Length	Av. Ht.	Top	Base	C.S.	Quantity
1	20'	4'	4'	20'	48'	960 cft
2	20'	4'	4'	20'	48'	960 cft
3	25'	4'	4'	20'	48'	1200 cft
4	25'	4'	4'	20'	48'	1200 cft
Total						4320 cft

S.N.	Item of Work	Quantity	Rate	Amount
1	Cost of making loose boulder checkdam in proper slope and profile as per specification and direction of O/I.	4320 cft	Rs. 970/1000 cft	Rs. 41904.00
2	Cost of Survey & Layout	L.S.	-	Rs. 196.00
Total				Rs. 42100.00


A.S.C.O.
Deoghar


जिला संचालक सहायक पदाधिकारी
S.D.O. (S)
Deoghar


जिला भूमि संरक्षण पदाधिकारी
J.D.S.O.
Deoghar


20/07/14
कायपालक अध्यक्ष
सिचाई प्रमण्डल जसीदी

E/W Calculation of Farm Pond

- A Size of Farmpond - 50'X50'X10'
 B Length of Bund - 280'
 C Ht. of Bund - 6'
 D Top of Bund - 6'
 E Bottom Width - 18'
 F CS of Bund - 72sft

1 E/w Calculation

$$\frac{50+40}{2} \times \frac{50+40}{2} \times 10' = 20250 \text{ cft}$$

50% Hard Soil - 10125 cft
 50% Very Hard Soil - 10125 cft

2 E/w for Lift- Ist Lift

$$\frac{45+42}{2} \times \frac{45+42}{2} \times 3' = 5676 \text{ cft}$$

E/w for Lift- IInd Lift

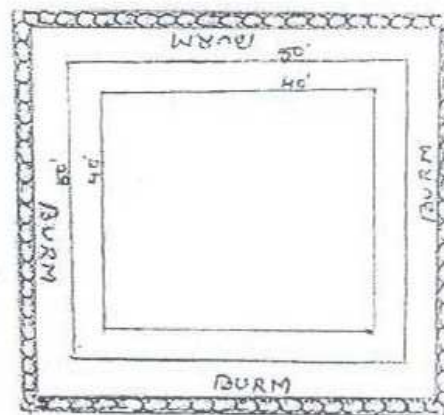
$$\frac{42+40}{2} \times \frac{42+40}{2} \times 2' = 3362 \text{ cft}$$

3 Site Clearance-280'x18 = 5040sft

4 Grass Sodding - U.S.+ Top + D.S.

$$6 + 6 + 6 = 18 \text{ ft}$$

Sodding Length - 280'x18 = 5040 sft



SN	Item of Work	Quantity	Rate	Amount
1	Cost of Site clearance	5040 sft	Rs. 139/1000 sft	Rs. 700.56
2	Cost of E/w in Hard or very Hard soil including breaking of clods and making the Bund in proper slope and profile as per specification and direction of O/I. 50% Hard Soil 50% Very Hard Soil	10125 cft 10125 cft	Rs.950/1000 cft Rs. 1056/1000 cft	Rs. 9618.75 Rs. 10692.00
3	Cost of E/w for Lift beyond initial lift of 5' Ist Life IInd Life	5676 cft 3362 cft	Rs. 95/1000 cft Rs. 190/1000 cft	Rs. 539.22 Rs. 638.78
4	Cost of Grass Sodding of 2" Thick Grass including watering, Thapi and all Lead and Lift complete.	5040 sft	Rs. 390/1000 sft	Rs. 1965.60
5	Cost of Survey & Layout	LS	-	Rs. 280.00
				50000.19 or,
				Rs. 24434.00

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A.S.C.O.
Deoghar

[Signature]
 S.C.O.(S)
Deoghar

[Signature]
 जिला मृत्ति संरक्षण पदाधिकारी
 D.S.C.O.
Deoghar

[Signature]
 20/04/14
 कार्यपालक अभियन्ता
 सिविल प्रमण्डल जमीन

E/W Calculation of Percolation Tank

- A Size of Tank - 80'X70'X8'
 B Length of Bund - 250'
 C Ht. of Bund - 8'-0"
 D Top of Bund - 8'-0"
 E Bottom Width - 40'
 F CS of Bund - 192sft

1 Site Clearance 250'X40' = 10000 sft

2 E/w Calculation

$$\frac{80+70}{2} \times \frac{70+62}{2} \times 8' = 40128 \text{ cft}$$

or 40000 cft

50% Hard Soil - 20000 cft

50% Very Hard Soil - 20000 cft

3 E/w for Lift- 1st Lift

$$\frac{75+72}{2} \times \frac{65+62}{2} \times 8' = 14002 \text{ cft}$$

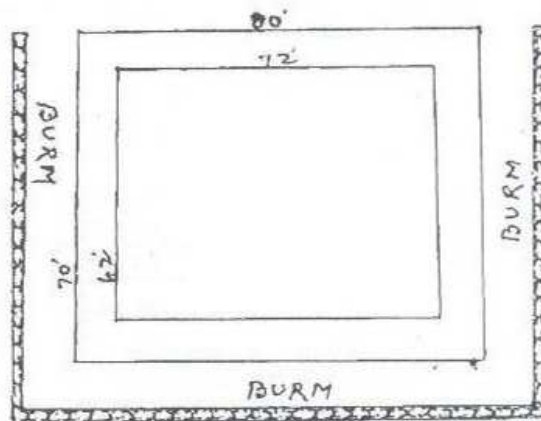
4 E/w for Lead = 20000 cft

5 E/w for Spillway 30'X10'X2' = 600cft

6 Grass Sodding - U.S.+ Top + D.S.

$$18 + 18 + 10 = 44\text{ft}$$

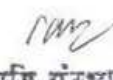
Sodding Length - 250'x44 = 11000sft



SN	Item of Work	Quantity	Rate	Amount
1	Removal of Loose materials and clearance of site	10000 sft	Rs. 139/1000sft	Rs. 1390.00
2	Cost of E/w in Hard or very Hard soil including breaking of clods and making the Bund in proper slope and profile as per specification and direction of O/I. 50% Hard Soil 50% Very Hard Soil	20000 cft 20000 cft	Rs.950/1000 cft Rs. 1056/1000 cft	Rs. 19000.00 Rs. 21120.00
3	Cost of E/w for Lift beyond initial lift of 5' 1st Life	14002 cft	Rs. 95/1000 cft	Rs. 1330.19
4	Cost if E/w for Lead beyond initial Lead of 50'	20000 cft 20000 cft	Rs. 95/1000 cft	Rs. 1900.00
5	Cost of E/w for Spill way	600 cft	Rs. 950/1000 cft	Rs. 570.00
6	Cost of Grass Sodding of 2" Thick Grass including watering, Thapi and all Lead and Lift complete.	11000 sft	Rs. 390/1000 sft	Rs. 4290.00
7	Cost of Survey & Layout	LS	-	Rs. 400.00
				50000.19
				Rs. 50,000.00


 A.S.C.O.
 Deoghar


 जिला भूमि संरक्षण अधिकारी
 Deoghar


 जिला भूमि संरक्षण अधिकारी
 D.S.C.O.
 Deoghar

018
 20/12/14
 कार्यवाही के अतिरिक्त
 मिचार्ड प्रमोशन जसीदीह

E/W Calculation of ECD Scheme

ECD No.	Length	Av. Ht.	Top	Base	C.S.	E/w	Site clearance
1	240'	6'	4'	28	96	23040 cft	240x28=6720 sft
2	250'	6'	4'	28	96	24000 cft	250x28=7000 sft
						47040 cft	13720 sft

75% Hard Soil	-	35280 cft
25% Very Hard Soil	-	11760 cft

Sand Removal from Nalabed -	10x28x2'	=	560 cft
	10x28x1'	=	280 cft
			<u>840 cft</u>

E/w filling in excavated pit-	840 cft
-------------------------------	---------

SN	Item of Work	Quantity	Rate	Amount
1	Removal of loose materials and clearance of site.	13720 sft	Rs. 139/1000 sft	Rs. 1907.08
2	Cost of sand removal from Nala bed	840 cft	Rs. 864/1000 cft	Rs.725.76
3	E/w filling in Nalabed	840 cft	Rs. 1056/1000 cft	Rs.887.04
4	Cost of E/w in Hard or very Hard soil including breaking of clods and making the Bund in proper slope and profile as per specification and direction of O/I. 75% Hard Soil 25% Very Hard Soil	35280 cft 11760 cft	Rs.950/1000 cft Rs. 1056/1000 cft	Rs. 33516.00 Rs. 12418.56
5	Cost of Survey & Layout	LS	-	Rs. 246.00
				Rs. 49700.44 or,
				Rs.49700.00

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Deoghar

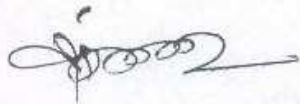
पुनि संरक्षण. (अर्थ) पदाधिकारी
Deshar ।

जिला भूमि संरक्षण व दायिकारी
D.S.C.O.
Bikaner

20/11/14
 कानिपालिक
 सिखाई प्रमाणिक जसोई

DETAILS SPECIES

Item of work	Species	Source of availability
Horticultural Development	1. Mango (<i>Mangifera indica</i>) 2. Guava (<i>Psidium guajava</i>) 3. Kaju (<i>anacardium occidentale</i>) 4. Jackfruit (<i>Artocarpus Intergrifolia</i>) 5. Jamun (<i>Eugenia jambolana</i>) 6. Ber (<i>Zizyphus jujuba</i>)	Dist. Horticulture Nursery Silanda (Dumka), Jharkhand Agriculture University Ranchi and Private Nurseries
Vegetative Hedge	1. Senduar (<i>Vetex negunda</i>) 2. Putus (<i>Lantena camera</i>)	Locally available
Pasture Development	1. Pennisetum Purpureum 2. Panicum maximum	Birsa Agriculture University, Ranchi
Afforestation/Agroforestry	1. Sisso (<i>Dulbergia sisso</i>) 2. Gamar (<i>Gmechina arborea</i>) 3. Asan (<i>Teminalia tomentosa</i>) 4. Karanj (<i>Pongamia glabra</i>) 5. Neem (<i>Azadirachta indica</i>) 6. Bamboo (<i>Bamboo spp.</i>)	Medicinal & Ayurvedic
Medicinal Plant	1. Babena 2. Amla 3. Harrah	Medicinal & Ayurvedic



मुख्य संरक्षण सर्वेक्षण पदाधिकारी

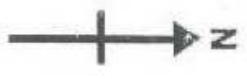
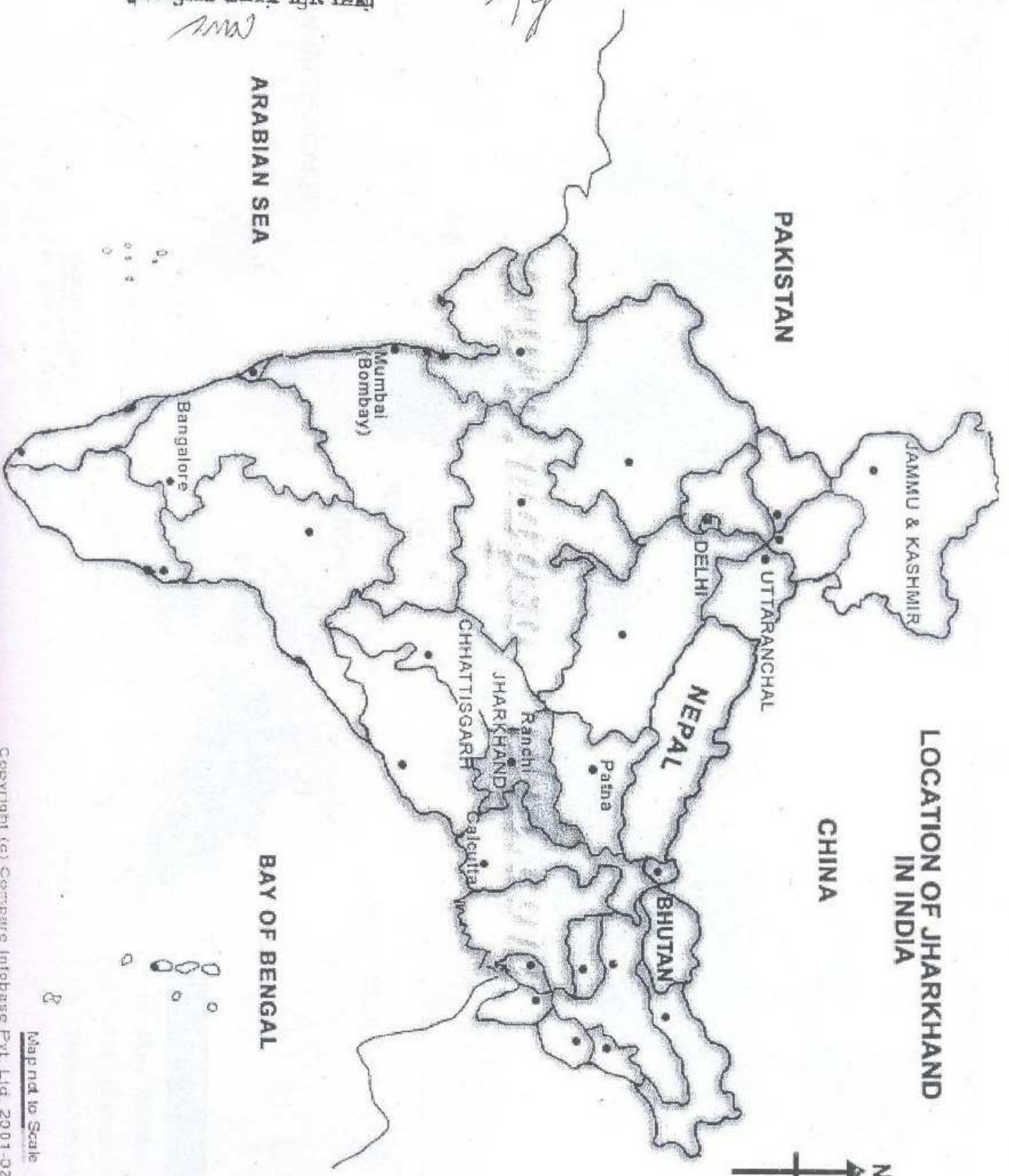
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जिला भूमि संरक्षण पदाधिकारी
देवघर ।

कायम
सिवाई प्रमाणित जसीदी

LOCATION OF JHARKHAND IN INDIA



PAKISTAN

CHINA

NEPAL

BHUTAN

CHHATTISGARH

JHARKHAND

BAY OF BENGAL

ARABIAN SEA

Mumbai
(Bombay)

Bangalore

DELHI

UTTARANCHAL

Patna

Ranchi

Kolkata

जिवा भूमि संरक्षण प्राधिकारी
मंत्रालय
नई दिल्ली

जिवा भूमि संरक्षण प्राधिकारी
नई दिल्ली

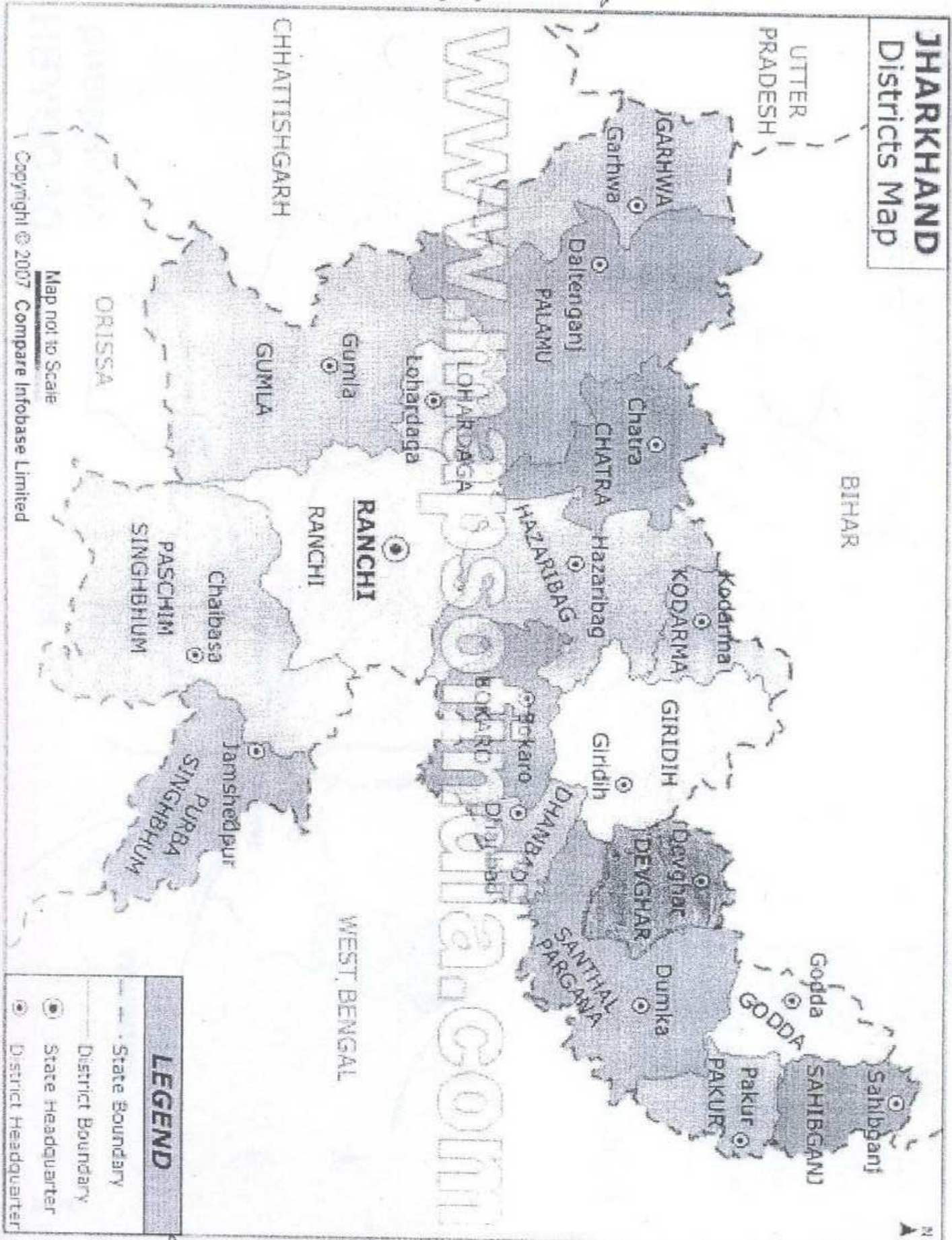
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कार्यपालक अभियन्ता
सिवाई प्रमण्डल, लसीदीह

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20/04/13

JHARKHAND Districts Map



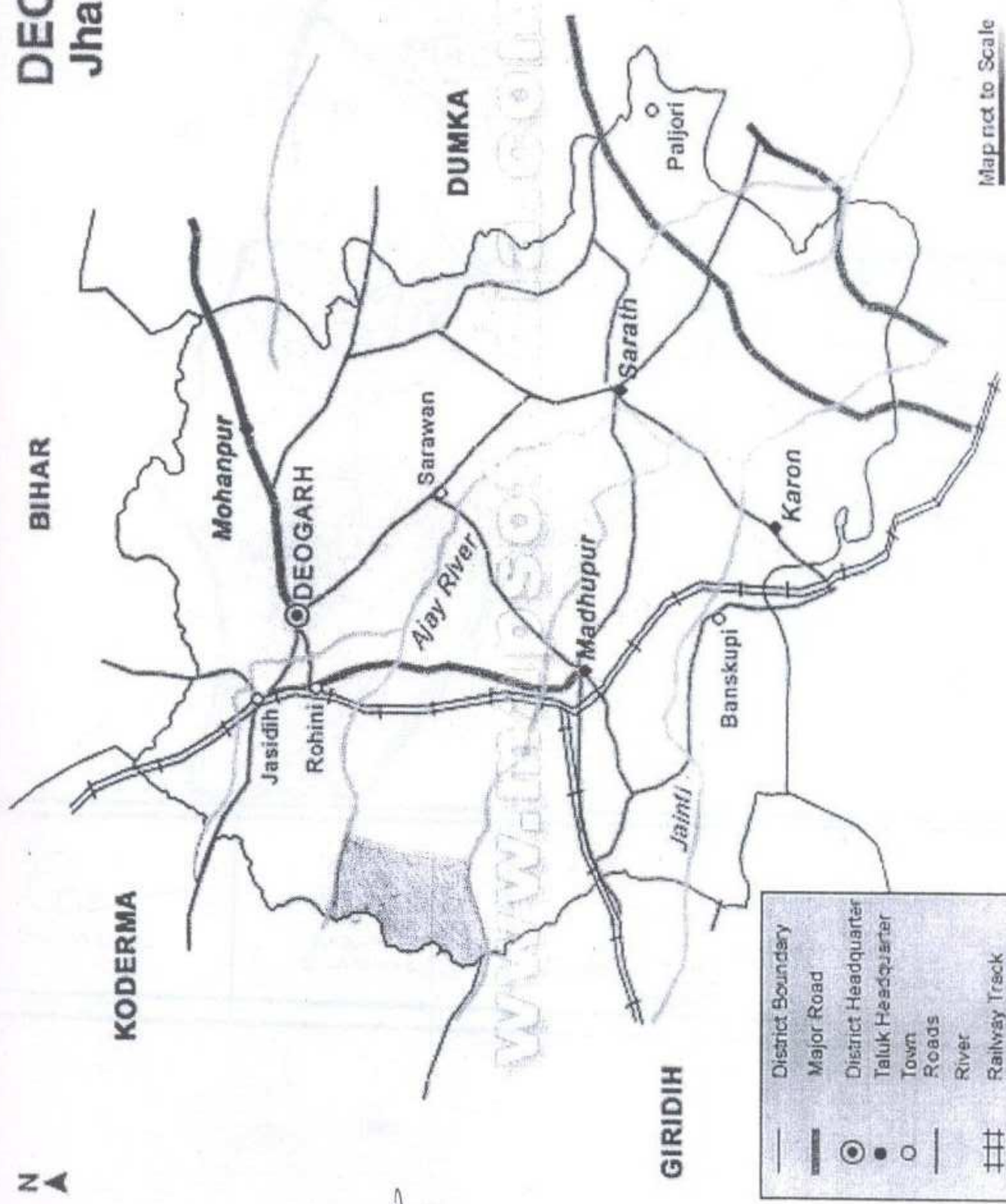
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मिर्जाई प्रमण्डल जमींदारी
कायदा
20/07/14

प्रा. प्रमण्डल जमींदारी कायदा
मिर्जाई प्रमण्डल जमींदारी
20/07/14

DEOGARH Jharkhand



Map not to Scale

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देवघर।

बिबा भूमि संरक्षण एवं विकास
देवघर।

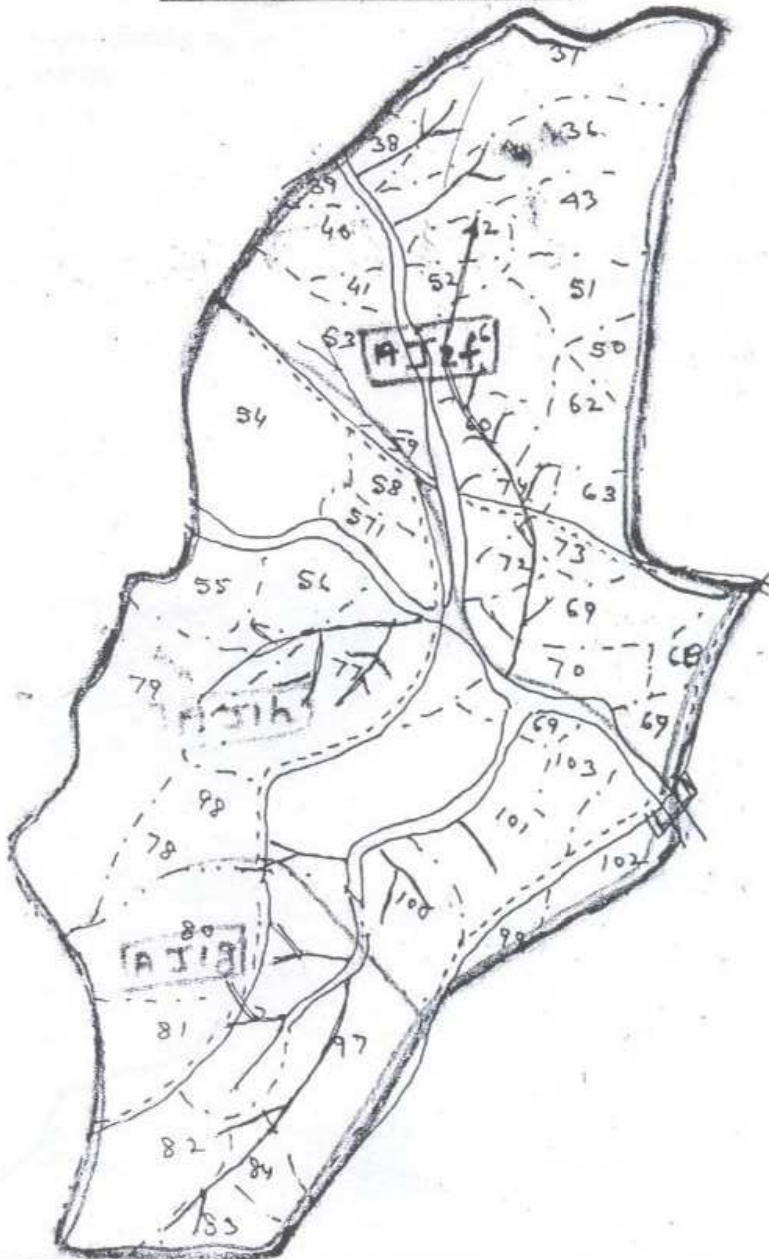
Ch. Luo

2006/01/01
देवघर प्रमण्डल जलोदी

LOCATION & DRAINAGE MAP OF PUNASI CATCH.

BLOCK. DEOGHAR

SCALE - 1" = 1 MILE



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2	DIST. BOUN.	
3	VILL. BOUN.	
4	RIVER -	
5	ROAD -	
6	DRAINAGE -	
7	WATERSHED BOUN.	
8	PUNASI DAM	

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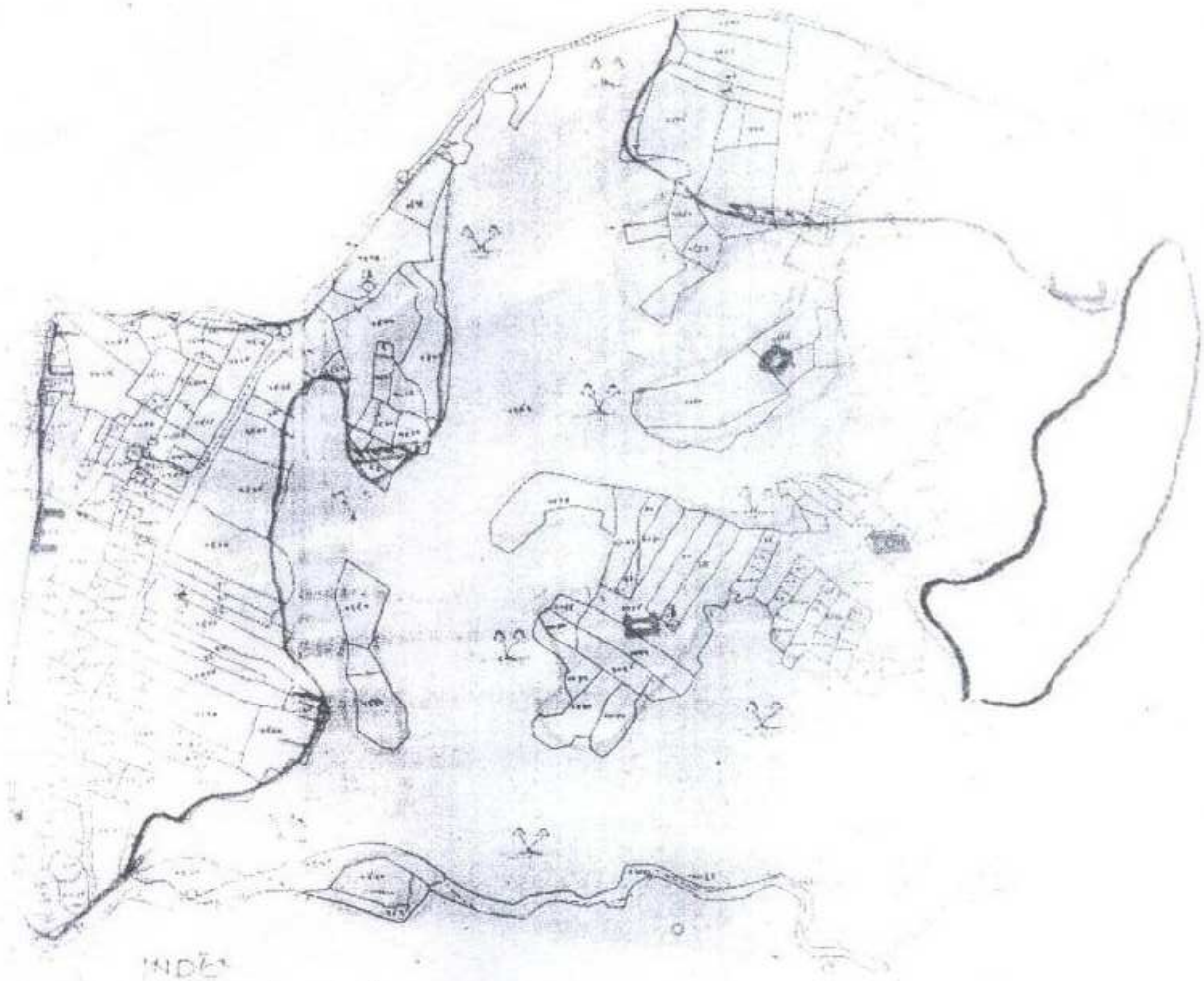
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पुनिसी तालाब की संचालक प्राधिकारी
DEOGHAR

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जिला भूमि अंशदाता अधिकारी
DEOGHAR

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20/11/14
कार्यपालक अभियन्ता
मिबाई प्रमण्डल जसीदी

LOCATION & PLAN MAP

ग्राम - झिलुवा चान्दडीह नं० 37
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जिला - देवघर



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म.स.स. व.स.

पति संरक्षण सुवैक्या पदाधिकारी
देवघर।

बिचा भूमि संरक्षण पदाधिकारी
देवघर।

१०/११/१५
कार्यपालक अभियन्ता
बिचाई प्रमण्डल जमीनी।

LOCATION & PLAN MAP

ग्राम - झिलुवा चान्दडीह नं० 37

थाना - जसीडीह

जिला - देवघर



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5	...
6	...

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पमि संरक्षण सर्वेक्षण पदाधिकारी

जिला भूमि संरक्षण पदाधिकारी

देवघर।

देवघर।

CS *[Signature]*
20/08/14
कार्यपालक आयुक्त
झिवाई प्रमण्डल जसीडीह

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जिला - देवघर

LOCATION & PLAN MAP



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6	S. A. S. S. W.

SURVEYOR

AS S. S. O.

पति नरसिंह प्रसाद

DEOGHAR

DEOGHAR

जिला भूमि संरक्षण व दायित्वारी

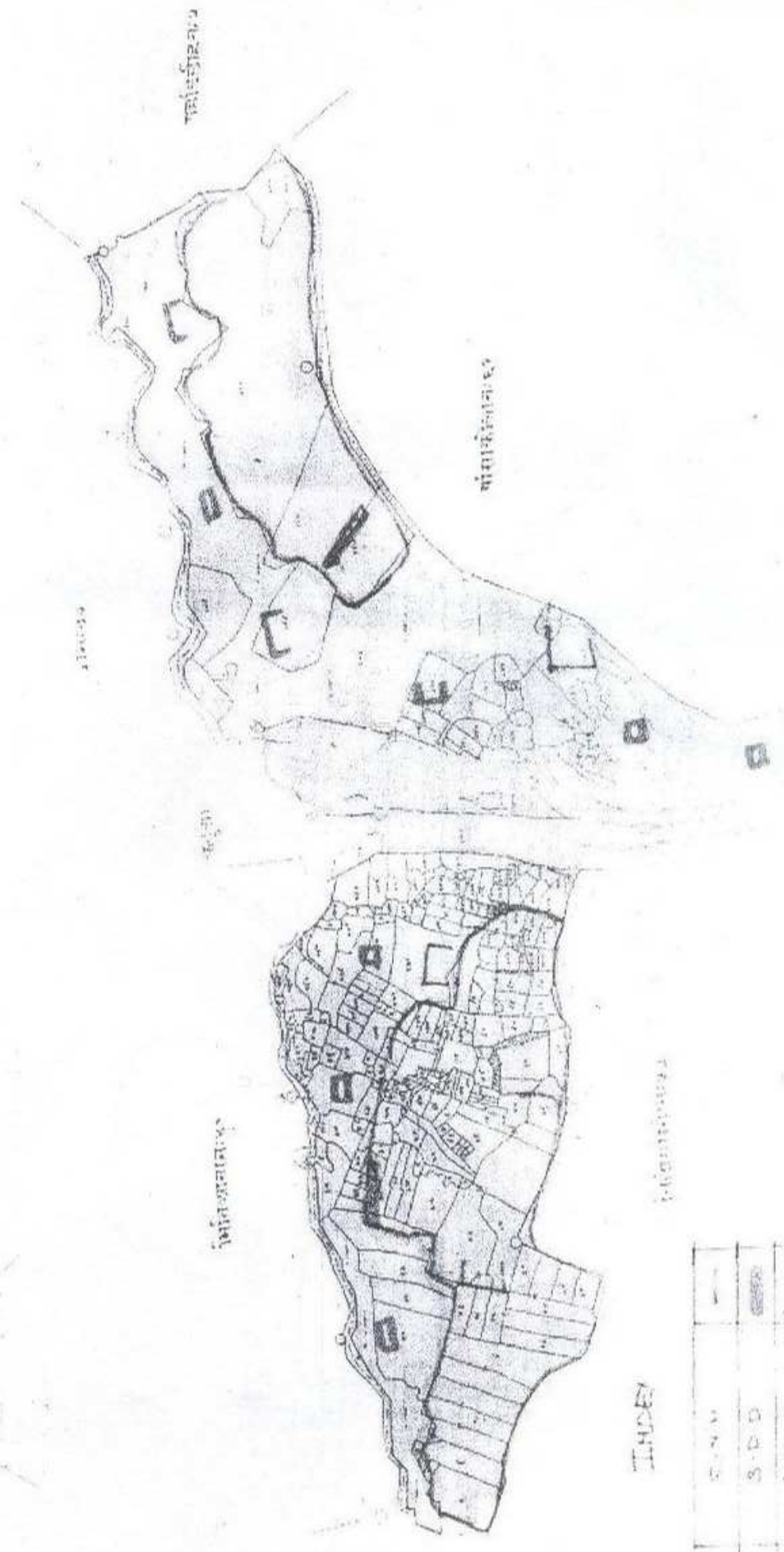
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CS Luo

20/11/14
कायपालक श्री. व. न.
खिबाई प्रमण्डल जसीडीह

LOCATION & PLAN MAP

पुणे जिल्हा, तालुका, ग्राम



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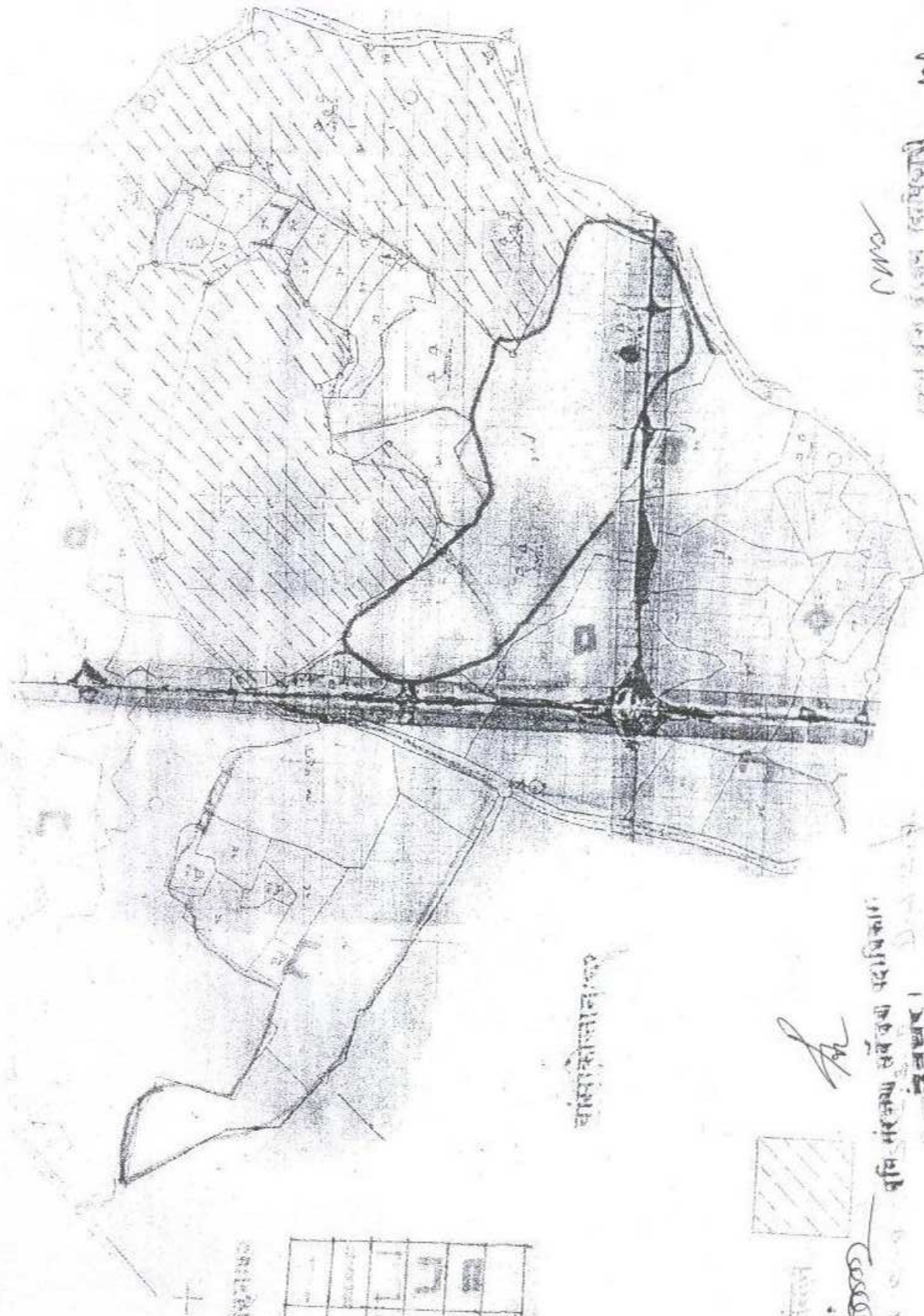
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2	स. नं. २	—
3	स. नं. ३	—
4	स. नं. ४	—
5	स. नं. ५	—
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पुणे जिल्हा, तालुका, ग्राम

पुणे जिल्हा, तालुका, ग्राम

पुणे जिल्हा, तालुका, ग्राम

LOCATION & PLAN MAP



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1	2	3	4	5	6

चाराकोला नगर



राज्य सरकार

मि. अ. अ. अ.

पु. वि. मंत्रालय, सर्वेक्षण पदाधिकारी

मुंबई

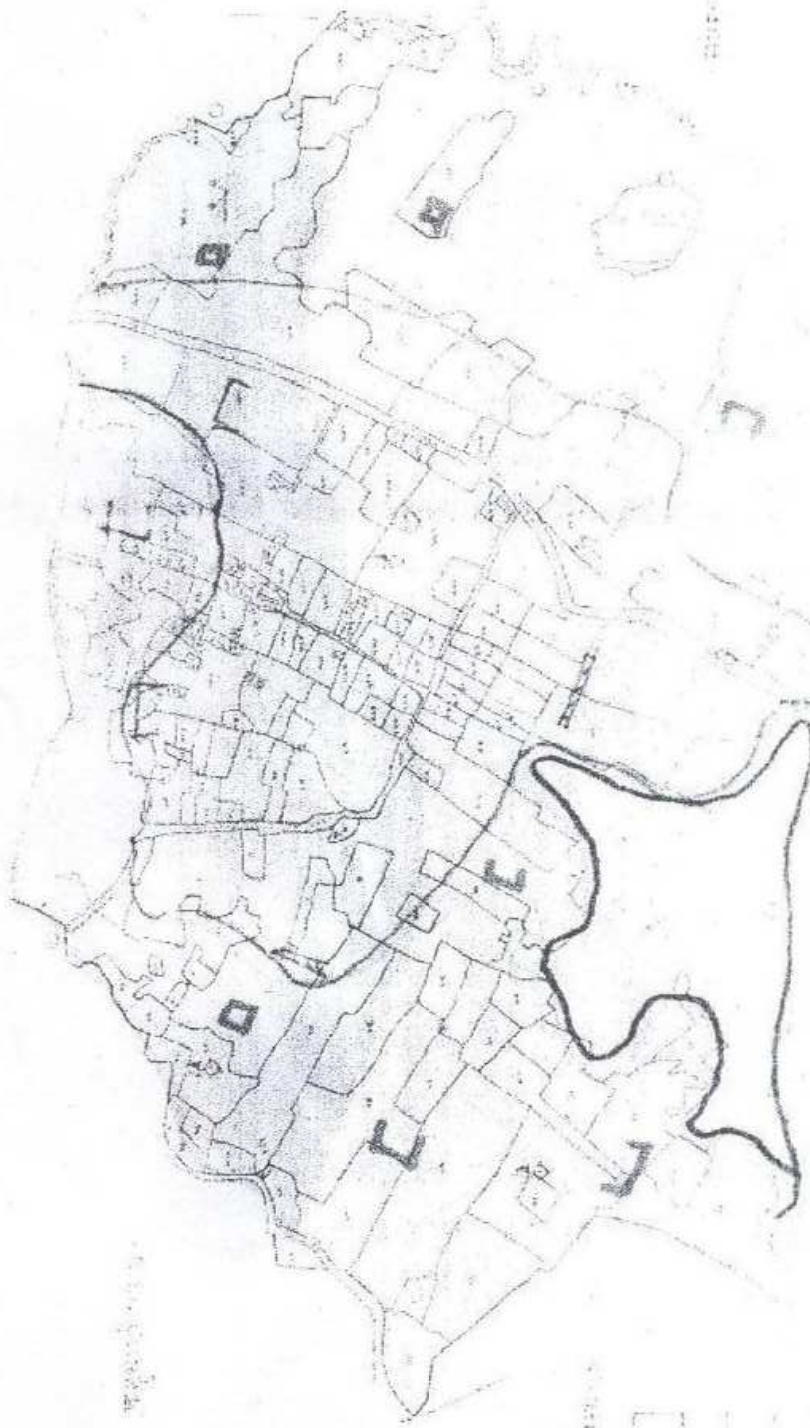
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LOCATION & PLAN MAP



1:1000 Scale

Sl. No.	Area (Hectares)	Remarks
1	10.00	Project Area
2	20.00	Surrounding Area
3	30.00	Water Body
4	40.00	Other
5	50.00	Other
6	60.00	Other
7	70.00	Other
8	80.00	Other
9	90.00	Other
10	100.00	Other

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विधि मंत्रालय, नवदेवी, पदाधिकारी
मुंबई

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जिला भूमि संरक्षण पदाधिकारी
मुंबई

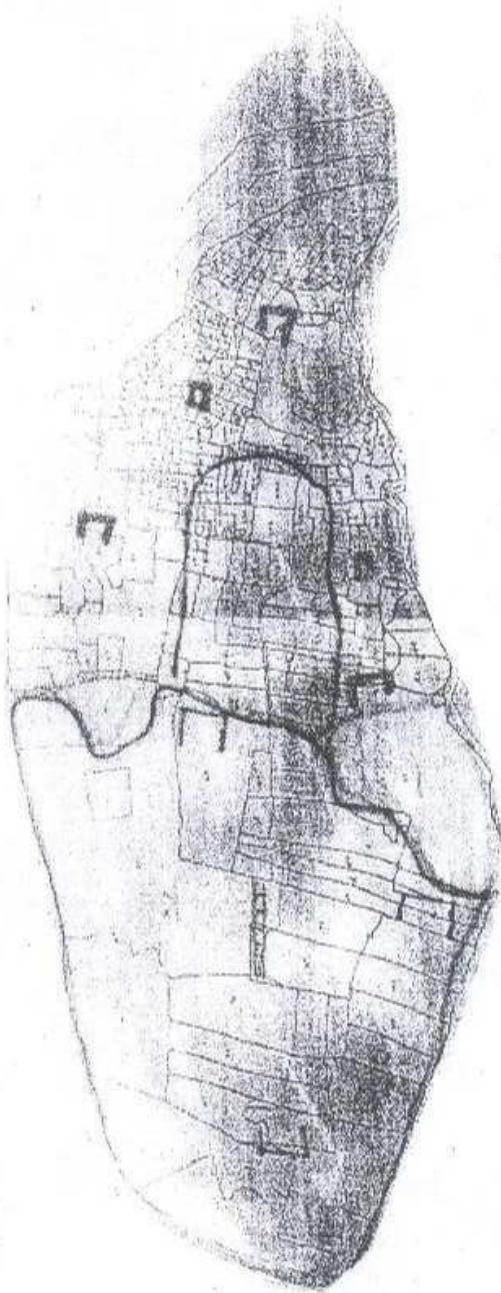
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गुड्डा/म

कायपालक अ. 7. 201
विचार प्रमाण जसोदी

6	NOV 20
5	CANDY
4	MATHS
3	SUN
2	DAD
1	MOM



Cost

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पुनि संरक्षण सर्व स्या पदाधिकार

— 20 —

CMZ

जिला भूमि संरक्षण पदाधिकारी

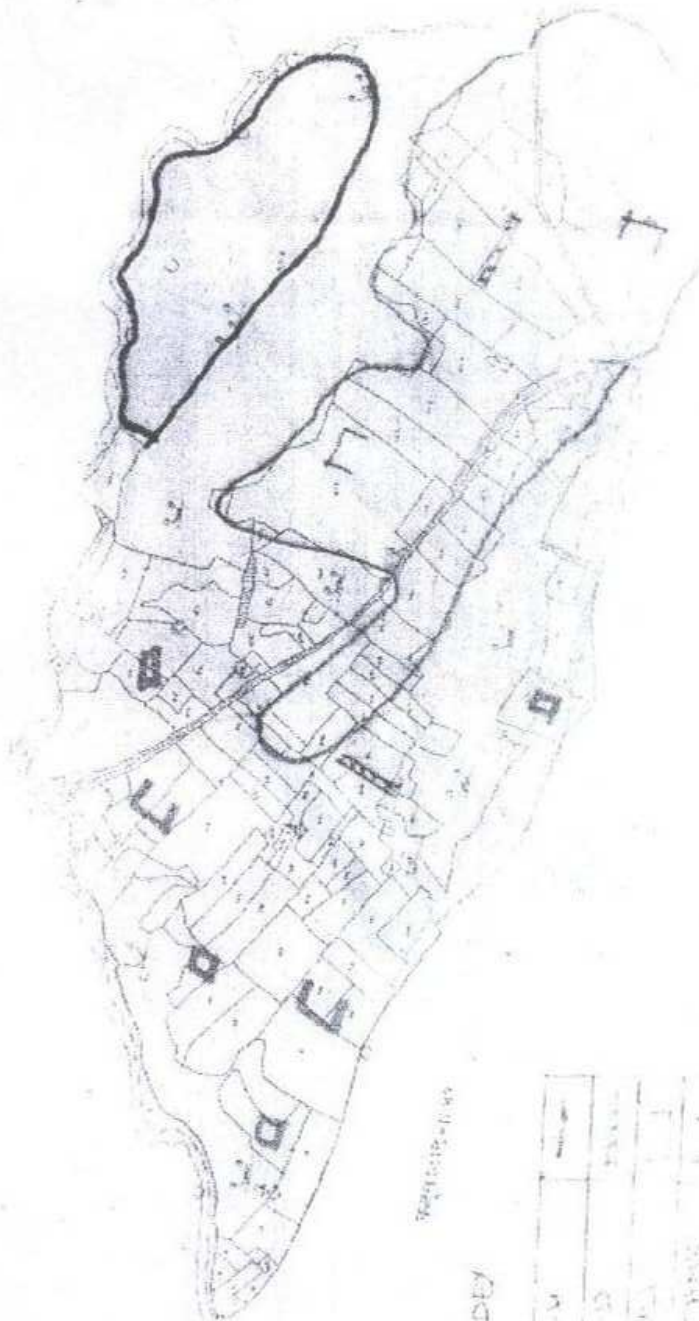
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SD mr.

२३/०५/१९
कायपालक असीदी
सुबान प्रमाण

LOCATION & PLAN MAP

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Legend

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5	Path	—
6	Well	—

1/10/2020
 कायपालिक अभियन्ता
 मुंबई पामणकर जलसिद्धि

वृत्ति संरक्षण संवर्धन पहाडिकार
 देवधर

वृत्ति भूमि संरक्षण वहाडिकारी
 देवधर

1	2004	
2	2004	
3	2004	
4	2004	
5	2004	
6	2004	

2014年12月



पुमि संस्थान प्रदायिका
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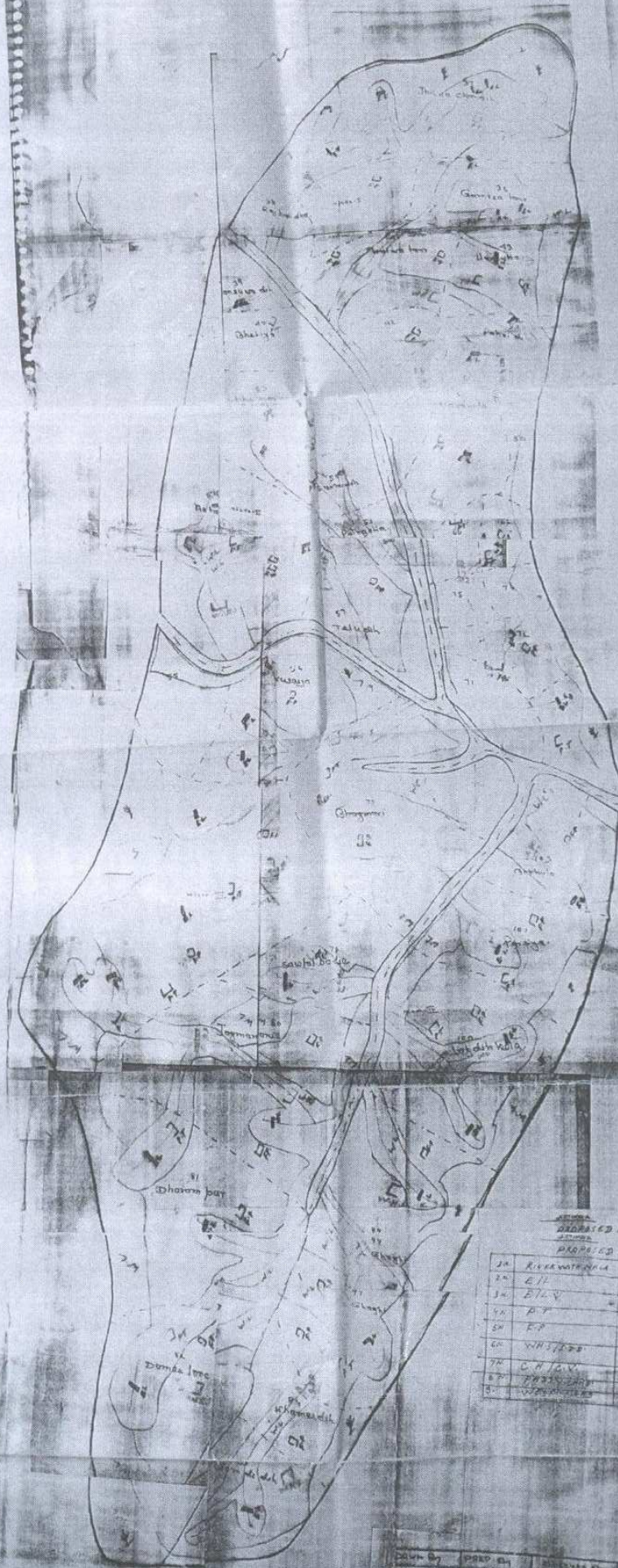
[illegible]

Map Showing of Punasi Checkdam Catchment

Under Block - Deoghar & Devipur

Dist - Deoghar (Jharkhand)

Scale 1" = 4 Mile



LEGEND

SYMBOL	DESCRIPTION
1A	RIVER WATERFALL
1B	E.I.
1C	D.I.V.
1D	P.F.
1E	E.P.
1F	W.H.S.
1G	C.H.S.V.
1H	P.W.S.
1I	W.H.S.

REVISIONS

NO.	DATE	DESCRIPTION
1	10/10/2010	Initial Drawing
2	15/10/2010	Revised Drawing
3	20/10/2010	Final Drawing