



झारखण्ड JHARKHAND

A 845408

MEMORANDUM OF UNDERSTANDING

AN AGREEMENT made on 4th February of Two Thousand and Ten (2010) among National Bureau of Soil Survey and Land Use Planning (NBSS & LUP, ICAR), National Bureau of Soil Survey and Land Use Planning (ICAR), Amravati Road, Nagpur (Maharashtra) having its Regional Centre at Kolkata represented through Head, NBSS & LUP (Regional Centre), Salt Lake, Kolkata (herein after called First Party).

Department of Soil Science and Agricultural Chemistry, Birsa Agriculture University (BAU), Ranchi, Jharkhand represented through professor & Chairman (Soil Science) which expression shall include its official successors and assign of the second party and Department of Agriculture and Cane Development Govt. of Jharkhand through Director (Agriculture), Jharkhand (herein after called Third Party) which expressions shall include its official successors and assigns of the other part.

WHEREAS 1) the NBSS & LUP engaged in Research, Education and Extension Education in the field of Agriculture throughout the Eastern Regional including Plateau of Jharkhand and is an Indian Council of Agricultural Research Institution, Department of Agricultural Research and Education, Government of India to undertake the activities as stated above, 2) BAU also engaged in Research,

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3. Two sets of samples (one for sulphur and Micronutrient analysis at BAU & other for analysis of other soil parameters) to be collected from each site.
4. Analysis of soil samples for soil pH, Organic carbon, available P & K and texture.
5. Compilation of data & preparation of block wise soil map using GIS in 1: 50000 scale.
6. Preparation of nutrient wise & block wise maps with detailed reports of each district.
7. Completion of the project with in the specified time limit mentioned in the time schedule.

BAU, Ranchi Department of soil Science & Agricultural Chemistry

1. Analysis of 8000 samples of Jamtara, 21000 samples of Hazaribagh & 18000 samples of Dumka for S, Zn, Cu, Fe, Mn, B & Mo (selected samples).
2. Organization of review meetings at Project sites at six month interval with NBSS & LUP at six month interval with NBSS & LUP & State Dept. of Agriculture Officials & submission of report to State Govt.
3. Assist NBSS & LUP (ICAR) Survey team in collection of soil samples, Regular interaction with Survey team at Project Sites.
4. Discussion with NBSS & LUP on Soil analysis data for each block and report preparation before final submission.
5. To organize annual review meeting one at Kolkata & the other at Ranchi for review of work involving State Dept. of Agriculture, NBSS & LUP and BAU.

State Department of Agriculture

1. Release of grants for the Project to BAU, BAU will release the grants to NBSS & LUP (Annexure-I). The schedule of payment should be
 - At the launching of the Project - 50%
 - After completion of Soil sampling work of each district - 20%
 - After submission of draft report of Soil analysis, interpretation & map - 20%
 - After submission of final report to BAU & State Govt. - 10%

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2. Regular monitoring of progress of work with BAU, Ranchi.
3. Assist NBSS & LUP & BAU in preparing final recommendation of the Project.
4. Review of the work with district level officials during project implementation.

Time Schedule

Sl. No.	Activities	Dates
1.	State of work	January 2010
2.	Demarcation of grid points & collection of Samples	Feb., 2009 to April, 2010
3.	Processing & Analysing of soil samples by BAU & NBSS & LUP	April, 2010 to Dec, 2010
4.	Compilation of data, interpretation & report preparation with maps etc.	Jan, 2011 Feb, 2011
5.	Submission of Draft Report	15 th March 2011
6.	Final Report submission	31 st March, 2011

Output

- (1) Block wise soil fertility maps will be available for agricultural planning.
- (2) Location specific soil fertility & soil acidity problems identification will help in promoting proper land use plan.

Department of Agriculture and Cane Development, Govt. of Jharkhand shall release the grant to the Director, NBSS & LUP, Nagpur and Vice Chancellor, BAU, Ranchi as per the amount as shown in Annexure-I for carrying out proposed work in the state of Jharkhand for a period of two years.

The research programme shall be reviewed half yearly by Department of Agriculture and Cane Development, Govt. of Jharkhand, NBSS & LUP and BAU and a progress report shall be submitted by Research Scientists, NBSS and BAU of respective discipline for onward transmission to Govt. of Jharkhand.

The Department of Agriculture, Govt. of Jharkhand shall pay the said cost (Annexure-I) to the Director, NBSS & LUP, Nagpur and Vice Chancellor, BAU, Ranchi as agreed upon all the parties shall abide this agreement and in case of any dispute both shall resolve the matter by mutually agreed arbitration in accordance with the Indian Arbitration and Conciliation Act, 1996 subject to the jurisdiction of Ranchi only.

Department of Agriculture and Cane Development, Govt. of Jharkhand shall be at liberty to revoke and /or cancel the agreement contemplated here on commitment of any major irregularities at any point of time by giving one month


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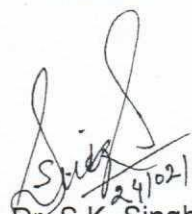
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notice or its intention to do so, to the NBSS & LUP and BAU. It shall not be necessary for Department of Agriculture and Cane Development, Govt. of Jharkhand to assign any reason to NBSS & LUP and BAU or any other party for its act contemplated in this para.

In witness thereof the parties here have signed the deed on the day and year first before written.

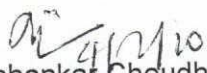
For and on behalf of
NBSS & LUP (ICAR),
Nagpur



Dr. S.K. Singh
Pri. Scientist & Head
Regional Center
NBSS & LUP (ICAR), Kolkata


For and on behalf of
BAU, Ranchi

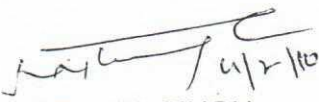

Prof. B. Mishra
Chairman
Deptt. of Soil Science &
Agricultural Chemistry
BAU, Ranchi Jharkhand


For and on behalf of
Department of Agriculture,
Govt. of Jharkhand


Sri Jatashankar Choudhary
Director,
SAMETI, Jharkhand


DR. A.K. SARKAR
Dean (Agriculture)
BAU, Ranchi, Jharkhand


DR. DIPAK SARKAR
Director
NBSS & LUP (ICAR), Nagpur


DR. N.N. SINGH
Vice Chancellor
BAU, Ranchi, Jharkhand


Director of Agriculture
Govt. of Jharkhand

Budget Estimate : Jamtara district (No of Blocks –4)

Sl.No.	Items	Amount (Rs.)	
A. EXPENSES		NBSS & LUP	BAU, Ranchi
1.	Cost of man days of staff deployed	Rs. 2,50,000/-	Rs. 1,26,000/-
2.	Soil sample collection charges from 8000 grid points at an interval of 500 m.	Rs. 2,70,000/-	-
3.	Cost of soil analysis including chemicals, glasswares, etc.	Rs. 4,54,000/-	Rs. 3,00,000/-
4.	Cost of physical inputs (Lab. Equipments and accessories etc.)	Rs. 70,000/-	-
5.	Contractual Manpower for collection of soil samples, soil grinding, soil analysis and data entry a) Manpower for field work (skilled) d) Manpower for soil grinding (unskilled) e) Manpower for soil analysis and data entry (skilled)	Rs. 1,50,000/- Rs. 20,000/- Rs. 1,80,000/-	-
6.	Training to the Field Workers / Review Meetings	Rs. 20,000/-	-
7.	Data processing, report finalisation and printing a) Computer aided cartographic and GIS materials – Rs. 50,000/- b) Report printing - Rs. 40,000/-	Rs. 1,50,000/-	-
TOTAL (1 to 7)		Rs.15,64,000/-	Rs. 4,26,000/-

Total expenditure = Rs. 19,90,000/- (Rupees Nineteen lakhs ninety thousand only)

ANNEXURE - 1

Budget Estimate of Dumka District (No of Blocks – 10)

(Part of Blocks - 10)

Sl.No.	Items	Amount (Rs.)	
A. EXPENSES		NBSS & LUP	BAU, Ranchi
1.	Cost of man days of staff deployed		
2.	Soil sample collection charges from 18000 grid points at an interval of 500 m.	Rs. 4,40,000/-	Rs. 1,40,000/-
3.	Cost of soil analysis including chemicals, glasswares, etc.	Rs. 4,80,000/-	-
4.	Cost of physical inputs (Lab. Equipments, Laptop/GIS Package etc.)	Rs. 11,00,000/-	Rs. 8,00,000/-
5.	Contractual Manpower for collection of soil samples, soil grinding, soil analysis and data entry		
	a) Manpower for field work (skilled)	Rs. 3,00,000/-	-
	b) Manpower for soil grinding (unskilled)	Rs. 60,000/-	-
	c) Manpower for soil analysis and data entry (skilled)	Rs. 3,60,000/-	-
6.	Training to the Field Workers / Review Meetings	Rs. 30,000/-	-
7.	Data processing, report finalisation and printing	Rs. 1,36,000/-	-
	a) Computer aided cartographic and GIS materials – Rs. 70,000/-		-
	b) Report printing - Rs. 50,000/-		-
	TOTAL (1 to 7)		
Total expenditure = Rs. 39,96,000/- (Rupees Thirty nine lakhs and ninety six thousand only)		Rs.30.56,000/-	Rs. 9,40,000/-

Total expenditure = Rs. 39,96,000/- (Rupees Thirty nine lakhs and ninety six thousand only)

Budget Estimate Hazaribagh District (No of Blocks : 14)

Sl.No.	Items	Amount (Rs.)	
A. EXPENSES		NBSS & LUP	BAU, Ranchi
1.	Cost of man days of staff deployed	Rs. 5,20,000/-	Rs. 1,50,000/-
2.	Soil sample collection charges from 21000 grid points at an interval of 500 m.	Rs. 5,60,000/-	-
3.	Cost of soil analysis including chemicals, glasswares, etc.	Rs. 13,00,000/-	Rs. 9,50,000/-
4.	Cost of physical inputs (Lab. Equipments, Laptop/GIS Package etc.)	Rs. 1,50,000/-	-
5.	Contractual Manpower for collection of soil samples, soil grinding, soil analysis and data entry a) Manpower for field work (skilled) f) Manpower for soil grinding (unskilled) g) Manpower for soil analysis and data entry (skilled)	Rs. 3,50,000/- Rs. 70,000/- Rs. 4,20,000/-	-
6.	Training to the Field Workers / Review Meetings	Rs. 30,000/-	-
7.	Data processing, report finalisation and printing a) Computer aided cartographic and GIS materials – Rs. 70,000/- b) Report printing - Rs. 50,000/-	Rs. 1,78,000/-	-
	TOTAL (1 to 7)	Rs.35,78,000/-	Rs. 11,00,000/-

Total expenditure = Rs. 46,78,000/- (Rupees Forty six lakhs and seventy eight thousand only)

Total Budget of the Project :

Sl.No	Name of District	No of Blocks	Amount (Rs)
1.	Dumka	10.0	39,96,000.00
2.	Jamtara	4.0	19,90,000.00
3.	Hazaribagh	14.0	46,78,000.00
	Total		1,06,64,000.00

Schedule of payment

- ≥ At the launching of the Project – 50%
- ≥ After completion of soil sampling work of each district – 20%
- ≥ After submission of draft report of soil analysis, interpretation & map – 20%
- ≥ After submission of final report to BAU & State Govt. – 10%

HEAD OF THE REGIONAL CENTRE