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MEMORANDUM OF UNDERSTANDING

Department of Soil Science and Agricultural Chemistry, Birsa Agriculture University (BAU), Ranchi, Jharkhand represented though 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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Teaching and Extension Education in the field of Agriculture in the state of Jharkhand.

AND WHEREAS Department of Agriculture, Govt. of Jharkhand is actively involved in the agricultural development of the State Jharkhand has already have district soil map. The district soil map gives average status of soil nutrient. It's not necessary to have same soil nutrient status of each and every block. Therefore, it is recognized that NBSS & LUP and BAU have common interest in Natural Resource Management with special reference to Soil Resource and Nutrient Mapping at Block Level for the District of Hazaribag, Dumka and Jamtara of Jharkhand State for assisting preparation of Land Use Plan Using latest techniques and tools like Geographical Information System (GIS). The objective of the project is to have a accurate nutrient status at the block levels. It will facilitate the farmers to plan their integrated nutrient management on the basis of block level soil nutrient map.

To this end, Strengthening of Research and Extension activity through stake holders and Scientist participation is agreed upon among three parties (as stated above NBSS & LUP, BAU and Department of Agriculture, Govt. of Jharkhand). The purpose of this agreement is for Department of Agriculture, Govt. of Jharkhand to finance estimated budget by NBSS & LUP and BAU to achieve the goal. This project is approved in the meeting of state level sanctioning committee dated 04.09.2009 under the Chairmanship of Chief Secretary, Jharkhand. The deptt has issued sanctioned order vide letter no. 49 dated 23.10.2010.

AND WHEREAS it is now thought necessary to specify basic terms and conditions agreed upon among the NBSS & LUP, BAU and Department of Agriculture, Govt. of Jharkhand.

Now it is hereby mutually agreed and declared by the among parties here to as follows:

Responsibility of Collaborating Agencies

NBSS & LUP (ICAR) KOLKATA

- Demarcation of village boundary of each block (Hazaribagh, Dumka & Jamtara districts) and soil sample collection from grid points at 500 m interval using Survey of India toposheets.
- Collection of Geographical Positioning System based soil samples Jamtara 8000 samples, Hazaribagh 21000 samples & Dumka 18000 samples.

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- 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.
- Analysis of soil samples for soil pH, Organic carbon, available P & K and texture.
- Compilation of data & preparation of block wise soil map using GIS in 1: 50000 scale.
- Preparation of nutrient wise & block wise maps with detailed reports of each district.
- Completion of the project with in the specified time limit mentioned in the time schedule.

BAU, Ranchi Department of soil Science & Agricultural Chemistry

- Analysis of 8000 samples of Jamtara, 21000 samples of Hazaribagh & 18000 samples of Dumka for S, Zn, Cu, Fe, Mn, B & Mo (selected samples).
- 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.
- Assist NBSS & LUP (ICAR) Survey team in collection of soil samples, Regular interaction with Survey team at Project Sites.
- Discussion with NBSS & LUP on Soil analysis data for each block and report preparation before final submission.
- To organize annual review meting one at Kolkata & the other at Ranchi for review of work involving State Dept. of Agriculture, NBSS & LUP and BAU.

State Department of Agriculture

- 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

SI. No.	Activities	Dates January 2010	
1.	State of work		
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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notice or its intention to do so, to the NBSS & LUP and BAU. It shall no necessary for Department of Agriculture and Cane Development, Govt. of Jharkh 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 Nagpur

NBSS & LUP (ICAR),

Pri. Scientist & Head Regional Center NBSS & LUP (ICAR), Kolkata For and on behalf of BAU, Ranchi

Govt. of Jharkhand

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

For and on behalf of

Department of Agriculture,

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

DR. DIPAK SĂ

Director

NBSS & LUP (ICAR), Nagpur

DR. N.N. SINGH Vice Chancellor

BAU, Ranchi, Jharkhand

Govt. of Jharkhand

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

Sl.No.	Items	Amou	nt (Rs.)
A. EX	PENSES	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)

Cost of man days of staff deployed Soil sample collection charges from 18000 grid points a an interval of 500 m. Cost of soil analysis including chemicals, glasswares etc.	Rs. 4,40,000/-	unt (Rs.) BAU, Ranch Rs. 1,40,000
an interval of 500 m. Cost of soil analysis including chemicals, glasswares etc.	Rs. 4,40,000/-	BAU, Rancl
an interval of 500 m. Cost of soil analysis including chemicals, glasswares etc.	Rs. 4,40,000/-	- Land
Cost of soil analysis including chemicals, glasswares	Rs. 4,80,000/-	1,40,000
etc.		
Substitution	D. III S	
Cost of physical inputs (L.	, Rs. 11,00,000/-	Rs. 8,00,000/
Cost of physical inputs (Lab. Equipments, Laptop/GIS Package etc.)	Rs. 1.50,000/-	
Contractual Mannous c	1.50,000/-	-
soil grinding, soil analysis and data entry		
, rempower to come 1.	Rs. 3,00,000/-	
(skilled) (skilled)	Rs. 60,000/-	
Training to the Field W. I	Rs. 3,60,000/-	
Data processing report final residual Meetings	Rs 30,000/	
a) Computer aided cartographic	-,000/	-
Rs. 70,000/-	.,50,000/-	-
Report printing - Rs. 50,000/-		
enditure		
	D 00	
I	a) Manpower for field work (skilled) b) Manpower for soil grinding (unskilled) c) Manpower for soil analysis and data entry (skilled) Training to the Field Workers / Review Meetings Data processing, report finalisation and printing Computer aided cartographic and GIS materials – D) Report printing - Rs. 50,000/-	a) Manpower for field work (skilled) b) Manpower for soil grinding (unskilled) c) Manpower for soil analysis and data entry (skilled) Training to the Field Workers / Review Meetings Data processing, report finalisation and printing Computer aided cartographic and GIS materials Deport printing - Rs. 50,000/- Rs. 3,00,000/- Rs. 3,00,000/- Rs. 3,60,000/- Rs. 1,36,000/- Rs. 70,000/-

39,96,000/- (Rupees Thirty nine lakhs and ninety six thousand

Budget Estimate Hazaribagh District (No of Blocks: 14)

Sl.No.	Items	Aman	
A. EX	RPENSES		nt (Rs.)
1.	Cost of man days of staff deployed	NBSS & LUP	BAU, Ranch
2.	Soil sample collection charges from 21000 grid points at	Rs. 5,20,000/-	Rs. 1,50,000/
	an interval of 500 in.		-
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/-	-
6.	Training to the Field Workers / Review Meetings	D 20.000	
7.	Data processing, report finalisation and printing	Rs. 30,000/-	_
	a) Computer aided cartographic and GIS materials – Rs. 70,000/-	Rs. 1,78,000/-	
	b) Report printing - Rs. 50,000/-		
	TOTAL (1 to 7)	Po 25 79 000/	
otal ex	penditure = Rs. 46,78,000/- (Rupees Forty six Jokha and	Rs.35,78,000/-	Rs. 11,00,000/-

46,78,000/- (Rupees Forty six lakhs and seventy eight thousand only)

Total Budget of the Project:

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