

Plan of work (as per M&E as well as suggested by CAC) for 2008-09:

Sl. No.	Work to be done	Lead Scientist (s)	Institute
1.	Base-line survey of the study site.	CPI, all CCPIs and all CO-PIs.	All Institutes.
2.	Arsenic status of all the crops at harvest in the sequence under different toposequences in endemic and arsenic free areas, as well as arsenic status of food materials available in the local market.	Dr. S. Mondal; Dr. P. K. Pal.	BCKV; UBKV.
3.	Arsenic status of rice leaves, emerging from the stubbles and weeds (different families) in the crop fields and irrigation channels.	Dr. C. Kundu, Dr. A. C. Sinha;	BCKV; UBKV.
4.	Arsenic status of autumn and winter rice (major varieties cultivated by the farmers) at harvest.	Dr. S. Mondal; Dr. A. Sarkar.	BCKV; UBKV.
5.	a) Source and arsenic status of crop seed, organics, spawn, etc. b) Arsenic status of grain and straw of recombinant inbreed lines of rice.	Dr. S. Bhattacharya; Dr. K. Bhattacharya; Dr. D. Mukhopadhyay; Dr. A. Sarkar; Dr. S. Samanta.	BCKV, UBKV, CIFRI.
6.	Depth and arsenic status under ground-aquifer and surface pond water during May, September and January.	Dr. C.Kundu; Dr. A. C. Sinha / Dr. P.K. Pal.	BCKV, UBKV.
7.	Identification of polymorphic molecular markers among the parents.	Dr. S. Bhattacharya.	BCKV.
8.	Studying arsenic transport mechanism from root to grain of rice plant.	Dr. S. Mondal.	BCKV.
9.	Rumen microbiological study for the cattle and goat.	Dr. S. Manna; Dr. A.K. Bera; Prof. T.K. Mandal.	CIFRI, IVRI(ERS), WBUAFS.
10.	Isolation and identification of soil and aquatic microorganism capable of transforming inorganic arsenic to less toxic forms.	Dr. S. Kole; Dr. S. Manna	BCKV, CIFRI.
11.	Determination of arsenic levels in water of fish ponds / wet lands and fish.	DR. S. Samanta; Dr. B.P. Mohanty	CIFRI
12.	Effect of arsenic contamination in ruminants and poultry/duck.	Prof. S. Sarkar; Dr. A.K. Bera.	WBUAFS, IVRI(ERS)
13.	Assessment of health status of fish, ruminants, poultry, etc., exposed to arsenic and their proteomic analysis (ruminants / poultry / duck has to be	Dr. B.P. Mohanty; Prof. T.K. Mandal; Dr. A.K. Bera.	CIFRI; WBUAFS; IVRI(ERS).

	selected from the household of arsenicosis patient).		
14.	Effect of arsenic contamination in laboratory rodent (Albino rat)	Dr. D. Bhattacharya.	IVRI(ERS).
15.	Phenophase wise arsenic status of soil and dry season crops (mustard, wheat and vegetables) grown under integrated (harvested rain water and ground water) irrigation management.	Dr. C.Kundu; Dr. P.K.Pal	BCKV; UBKV.
16.	Growing summer rice under deficit irrigation.	Prof. S. Sarkar; Dr. A. K. Sinha.	BCKV; UBKV.
17.	Growing maize under deficit irrigation, as an alternative crop in place of summer rice.	Prof. S. Sarkar; Dr. A.C. Sinha.	BCKV; UBKV.
18.	Solubility diagram of arsenic system under different background of pH and eH	Prof. S. K. Sanyal; Dr. D. Mukhopadhyay.	BCKV; UBKV.
19	Mitigate arsenic status in soil through organic amendments (free of arsenic).	Dr. K. Bhattacharya; Dr. D. Mukhopadhyay.	BCKV; UBKV.
20.	The role of phosphate in arsenic dynamics in soil-plant system under controlled conditions.	Dr. K. Bhattacharya; Dr. D. Mukhopadhyay.	BCKV; UBKV.
21	Monitoring arsenic status in diet and drinking water and their effect on human health and effect on Bio-markers like Hair and Urine.	Dr. D. N. Guha Mazumder, Dr. N. Ghosh & Dr. Kunal Majumder.	DNGMRF.
22..	Base line study of health status in humans due to intake of arsenic through diet. Follow up study of health status in humans due to intake of arsenic in diet after ensuring safe water intake. Formulation of new treatment and diet regime for disease management in arsenic exposed people and follow up study to find out its efficacy.	Dr. D. N. Guha Mazumder, Dr. N. Ghosh & Dr. Kunal Majumder.	DNGMRF.
23.	Arsenic dynamics in the chain of should be studied (The entire chain has to be linked with the relevant microbiology).	Dr. S. Kole, Dr. S. Manna; Prof. S. Sarkar; Dr. A.K.Bera.	BCKV; CIFRI; WBUAFS; IVRI(ERS).