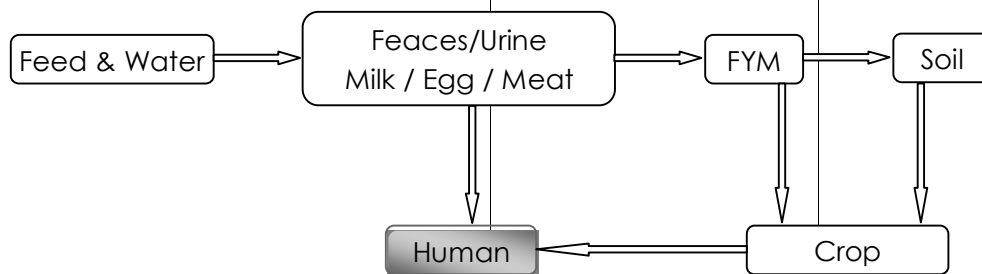


**Draft plan of work (as per M & E as well as suggested by CAC) for 2009-10**

<b>Sl. No.</b>	<b>Work to be done</b>	<b>Lead Scientist (s)</b>	<b>Institute</b>
1.	Arsenic status of all the crops in the sequence (under different toposequences) fish, meat, egg, milk etc. in endemic and arsenic free areas, as well as available in the local market.	Dr. S. Mondal, Dr. P. K. Pal	BCKV, UBKV
2.	Arsenic status of rice leaves, emerging from the stubbles and weeds (different families) in the crop fields and irrigation channels.	Dr. C. K. Kundu, Dr. A. C. Sinha	BCKV, UBKV
3.	Status of arsenic: added through irrigation water, soil (initial & harvest) and rice grain for winter and summer rice (rice field belong to families having arsenicosis patient)	Dr. S. Sarkar, Dr. A. Sarkar	BCKV, UBKV
4.	a) Source and arsenic status of crop seed, organics, spawn, etc. b) Arsenic status of grain and straw of recombinant inbred lines of rice.	Dr. S. Bhattacharya, Dr. K. Bhattacharya, Dr. D. Mukhopadhyay, Dr. A. Sarkar, Dr. S. Samanta	BCKV, UBKV, CIFRI
5.	Depth and arsenic status of underground-aquifer and surface pond water during May, September and January.	Dr. C. K. Kundu, Dr. A. C. Sinha, Dr. P.K. Pal	BCKV, UBKV
6.	Identification of polymorphic molecular markers among the parents. Linkage analysis for the markers with the QTLs responsible for arsenic- accumulation in straw and grain	Dr. S. Bhattacharya	BCKV
7.	Studying arsenic transport mechanism from root to grain of rice plant.	Dr. S. Mondal	BCKV
8.	Study of ruminant gut microbes for arsenic transformations.	Dr. A.K. Bera, Dr. T. K. Mandal, Dr. S. Manna,	WBUAFS, IVRI(ERS), CIFRI.
9.	a) Isolation, identification and Characterization of soil and aquatic microorganism capable of transforming inorganic arsenic to less toxic forms. b) Determination of methods for mass production of selected microbes.	Dr. S. C. Kole, Dr. S. Manna	BCKV, CIFRI
10.	Assessment of health status of fish, ruminants, poultry, etc., exposed to arsenic and their proteomic analysis (ruminants / poultry / duck has to be selected from the household of	Dr. B. Mohanty, Dr. T.K. Mandal, Dr. A.K. Bera	CIFRI, WBUAFS, IVRI(ERS)

Sl. No.	Work to be done	Lead Scientist (s)	Institute
	arsenicosis patient).		
11.	Effect of arsenic contamination in laboratory mice	Dr. D. Bhattacharya	IVRI(ERS)
12.	Arsenic status of soil and grain / fruit/ tuber etc. of crops at harvest stage grown under irrigated condition in tube well commands.	Dr. C. K. Kundu, Dr. A. C. Sinha	BCKV, UBKV
13.	Growing wheat under deficit irrigation.	Dr. A. C. Sinha	UBKV
14.	Growing different varieties of summer rice and maize under screened deficit irrigation regimes.	Dr. C. K. Kundu, Dr. A. C. Sinha	BCKV, UBKV
15.	Solubility diagram of arsenic system under different background of pH and eH.	Dr. S. K. Sanyal, Dr. D. Mukhopadhyay	BCKV, UBKV
16.	Mitigate arsenic status in soil through organic amendments (free of arsenic).	Dr. K. Bhattacharya, Dr. D. Mukhopadhyay	BCKV, UBKV
17.	The role of phosphate in arsenic dynamics in soil-plant system under controlled conditions.	Dr. K. Bhattacharya, Dr. D. Mukhopadhyay	BCKV, UBKV
18.	Monitoring arsenic status in diet and drinking water and their effect on human health.	Dr. N. Ghosh	DNGMRF
19.	Base line study of health status in humans due to intake of arsenic through diet and formulation of new treatment and diet regime for disease management in arsenic exposed people.	Dr. N. Ghosh	DNGMRF
20.	Arsenic dynamics in the chain of should be studied	Dr. C.K. Kundu, Dr. S. Sarkar; Dr. A. K. Bera, Dr. K. Mazumder	BCKV, WBUAFS, IVRI(ERS), DNGMRF



CPI and Director of Research, BCKV will monitor the entire programme.