

Information on Varanasi																		
S.No	Item	Item wise Information																
1.	Name of University/ Department under which the centre is functioning	Department of Genetics & Plant Breeding, Banaras Hindu University, Varanasi																
2.	Name of the Centre with postal address	All India Coordinated Rice Improvement Project Department of Genetics & Plant Breeding I.Ag.Sc. Banaras Hindu University, Varanasi-221 005 Tel No.																
3.	Name of the Person In-Charge with e.mail I.D. and mobile No.	Dr. Ravi Pratap Singh, Prof. cum Geneticist ravi_piyush@rediffmail.com, Mobile: 09451526933																
4.	Next contact Person with e.mail I.D. & mobile No.	Dr. H.K.Jaiswal, Reader cum Rice Breeder jaiswal_hemant@rediffmail.com Mobile: 09450533434																
5.	Year of establishment as AICRIP Centre	1976																
6.	List of Scientist currently on AICRIP Roll- discipline wise	<table border="1"> <thead> <tr> <th>Position Sanctioned</th> <th>Incumbent</th> <th>Presently occupied Position after promotion</th> </tr> </thead> <tbody> <tr> <td>Breeding/ Crop Improvement -2 Sr. Rice Breeder</td> <td>Dr. Ravi Pratap Singh</td> <td>Professor/ Sr. Rice Breeder.</td> </tr> <tr> <td>Rice Breeder</td> <td>Dr. H.K.Jaiswal</td> <td>Reader/Jr. Rice Breeder</td> </tr> <tr> <td>Agronomy (Rice Agronomist)-1 Rice Agronomist</td> <td>Dr.V.K.Srivastava</td> <td>Reader/Jr. Rice Agronomist</td> </tr> <tr> <td>Mycology & Pl. Pathology-1 Rice Pathologist</td> <td>Dr. R.K.Singh</td> <td>Asst. Prof.</td> </tr> </tbody> </table>		Position Sanctioned	Incumbent	Presently occupied Position after promotion	Breeding/ Crop Improvement -2 Sr. Rice Breeder	Dr. Ravi Pratap Singh	Professor/ Sr. Rice Breeder.	Rice Breeder	Dr. H.K.Jaiswal	Reader/Jr. Rice Breeder	Agronomy (Rice Agronomist)-1 Rice Agronomist	Dr.V.K.Srivastava	Reader/Jr. Rice Agronomist	Mycology & Pl. Pathology-1 Rice Pathologist	Dr. R.K.Singh	Asst. Prof.
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7.	List of other AICRIP STAFF	No Office or Field Staff Sanctioned / Provided																
8.	Region of the state represented by the Centre	Eastern Uttar Pradesh																
9.	Rice Ecologies represented	Irrigated Ecology for medium and late duration varieties Rainfed ecology for early maturing varieties Semi deep water ecology for late duration deep water variety																
10.	District of the state covered	Varanasi, Chandauli, Sant Ravidas Nagar, Sonbhadra, Mirzapur, Ghazipur, Azamgarh, Gorakhpur, Deoria and Kushinagar																

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Rice area in each of these districts-ecology* wise

District	Irrigated	Rainfed	SDW/DW
Varanasi	50	45	05
Chandauli	62	26	12
Sant Ravidas Nagar	48	37	15
Ghazipur	58	29	10
Jaunpur	50	43	7
Sonbhadra	25	72	3
Mirzapur	38	51	11
Gorakhpur	38	35	27
Deoria	52	33	15
Kushinagar	60	22	18
Maharajganj	64	20	16

*Although Ecology wise authentic data is not available from Deptt. Agriculture (U.P.), however the data reported here is based on the survey conducted during Rice F.L.D. work in various districts of eastern U.P.

ecology wise area is in per cent of total cultivated area district wise deduced by visual observations.

District	Area*	Production**	Productivity***
Varanasi	60.96	95.65	15.69
Chandauli	140.3	359.17	25.6
Sant Ravidas Nagar	33.39	52.55	15.74
Ghazipur	149.75	288.58	19.27
Jaunpur	144.23	266.98	18.51
Sonbhadra	82.06	120.22	14.65
Mirzapur	99.74	194.10	19.46
Gorakhpur	145.17	246.21	16.96
Deoria	121.23	207.79	17.14
Kushinagar	119.91	264.88	22.09
Maharajganj	168.67	389.28	23.08
Azamgarh	207.57	304.91	14.69

*Area : in thousand ha

**Production : in thousand M tons

***Productivity: q/ha (average)

12	Normal Rainfall	District/Region Average rain fall Varanasi region 1000mm approx Gorakhpur region 1400mm ,, Mirzapur region 900 mm ,, Azamgarh 1100 mm ,,
13	Soil Type fertility status Varanasi: Clay, Sandy Loam and Loam Gorakhpur: Clay and Loam and sandy loam Mirzapur : Sandy and Sandy loam Azamgarh: Clay sandy loam and saline soil	Varanasi region Medium to high : Land in Chandauli and part of Varanasi Districts are more fertile Gorakhpur region: Medium to high, land in Kushi Nagar, Deoria and Maharajganj districts are more fertile. 15- 20% area is SDW/DW Mirzapur region : Low to medium Rainfed with high altitude Azamgarh : Low to medium and 30% Saline soil area.

14.	Popular Rice Varieties	MTU 7029, BPT 5204, HUBR 2-1, NDR-97, HUR 3022, Sarjoo-52, Jaya, NDR 359, Badshah Bhog, Govind Bhog, Gr-32, Kala Namak, Juhibengal, Pro agro (Arize) 6444
15	Major Production constraints	<p>1. Lack of wide range of varieties for farmer's choice for cultivation in upland and irrigated conditions.</p> <p>2. In upland, majority of the land remains rainfed, soils are light to medium in texture and topography is slopy. Water management, weed management and termite problems in rice are most serious.</p> <p>3. The soils of mid lands are medium to heavy, flat, fertile and irrigated. The yields levels of rice, sugar cane and wheat in this tract are fairly high but moderate in other crops.</p> <p>4. Under low land</p>

conditions, below normal plant population in rice in Kharif and no suitable varieties in Boro season lead to under utilization of these areas.

5. Low and imbalanced fertilizer use in all areas.

6. Delayed and prolonged transplanting and sub optimal

plant population.

7. Continuous cropping of rice-wheat coupled with inorganic fertilizers leads to depletion in organic matter content of the soil and ultimately there is a declining trend in yields of rice crop as well as in Rabi crops are been noticed.

8. In rice wheat cropping system farmers are using only major nutrients, hence micronutrient deficiency particularly zinc, sulphur and iron have been noticed in rice crop.

		<p>9. Wide spread nitrogen and phosphorus deficiency also exist in the region.</p> <p>10. Low adoption of hybrid rice by the farmers' due to high cost of seed.</p> <p>11. Erratic and untimely onset of monsoon / rains resulting in frequent floods and droughts in this region.</p>
16	Major Contribution of this centre in terms of varieties technologies developed	Varieties Released from this Centre: HUR -36, HUBR 2-1, HUR 3022, Varietal Proposals Submitted for release to SVRC: HUR 105 and HUR 4-3
17	Any other relevant information	(Both the above mentioned varieties submitted for release are scented, medium maturity high yielding (60-65 q/ha grain yield at farmers field) with good cooking qualities and are dire need of this region (Eastern U.P.) for rice -wheat cropping system.