AS 68:	Impact of integrated application of organics and inorganics in improving soil health and sugarcane productivity
Year of initiation	2014-15
Design	RBD
Treatments	9
Replication	3
Variety	Co Or 08346
Recommended fertilizer dose	250:100:60 N: P ₂ O ₅ : K ₂ O kg /ha
Plot size	6x 4.8 m ²
Date of ratooning	24.2.2016
Date of harvest	15.01.2017

Treatment details:

	Ratoon – II
T ₁	Application of trash at 10 tonnes/ha + 50 % RDF
T ₂	Application of trash at 10 tonnes/ha + 100 % RDF
T ₃	Application of trash at 10 tonnes/ha+ soil test basis fert (NPK) application
T_4	Application of FYM/Compost @ 20t/ha+ 50% RDF (inorganic source)
T 5	Application of FYM/Compost @ 20t/ha+ 100% RDF (inorganic source)
T_6	Application of FYM/Compost @ 20t/ha+ inorganic nutrient application based on soil
	test(rating chart)
T_7	Application of FYM/Compost @ 10t/ha+ biofertilizer (Azotobactor/Acetobactor + PSB)
	+50% RDF (inorganic source)
T_8	Application of FYM/Compost @ 10t/ha+ biofertilizer (Azotobactor/Acetobactor + PSB)
	+100% RDF (inorganic source)
T 9	Application of FYM/Compost @ 10t/ha+ biofertilizer (Azotobactor/Acetobactor + PSB) +
	Soil test based fert application (NPK)

				No of s		Length	Girth	Weight	Brix %	NMC	Cane
	Treatments		ation %	(000)	,	of cane	of	of cane		(000/ha)	yield
	Treuments	30	45	120	150	(cm)	cane	(kg)			(t/ha)
T	500/ DDE	DAP	DAP	DAP	DAP	2.40	(cm)	1.10	10.65	52.75	50.00
T_1	50% RDF	28.70	30.13	44.26	46.01	2.48	1.58	1.18	18.65	53.75	58.22
T_2	100% RDF	30.68	31.28	52.25	53.29	2.72	1.94	1.28	19.11	59.76	65.63
T_3	Soil test based fert. application (NPK)	32.12	33.78	52.82	54.58	2.96	2.03	1.36	18.90	62.22	67.21
T_4	Application of FYM/Compost @										
	20t/ha+ 50% RDF	30.72	30.88	53.77	53.88	2.27	2.14	1.22	18.76	60.84	65.44
T_5	Application of FYM/Compost @										
	20t/ha+ 100% RDF	31.50	33.68	54.34	54.77	2.78	2.28	1.36	18.43	62.87	68.72
T_6	Application of FYM/Compost @										
	20t/ha+ Soil test based fert. application										
	(NPK)	32.24	34.36	56.56	56.82	2.91	2.33	1.40	19.23	63.46	70.46
T ₇	Application of FYM/Compost @										
	10t/ha+(Azotobactor+PSB)+50% RDF	34.65	37.15	57.29	58.11	3.12	2.38	1.28	19.13	65.88	71.75
T_8	Application of FYM/Compost @										
	10t/ha+(Azotobactor+PSB)+100%										
	RDF	35.07	39.29	61.94	62.62	3.06	2.44	1.43	20.10	68.42	75.03
T ₉	Application of FYM/Compost @										
	10t/ha + Azotobactor + PSB + Soil										
	test based fert application (NPK)	36.44	41.23	62.88	64.98	2.96	2.57	1.42	20.42	69.85	75.93
	SEm <u>+</u>	1.26	1.84	1.64	2.29	1.46	0.09	0.09	0.06	0.44	2.25
	CD at 5 %	5.571	4.72	5.19	7.25	3.93	0.27	0.27	NS	5.64	6.65
	CV%	6.18	7.66	8.22	6.45	5.38	5.36	5.36	4.57	4.49	7.18

AS 68.1 Impact of integrated application of organics and in-organics on germination and shoot count at various stages of cane growth

Results obtained from second ratoon crop indicated that application of FYM/Compost @ 10t/ha+(Azotobactor+PSB)+100% RDF (T₈) and Application of FYM/Compost @ 10t/ha + Azotobactor + PSB + Soil test based(NPK) fertilizer application (T₉) recorded higher percentage of germination at 45 DAR i.e. 39.29 and 41.23%, respectively. These treatments subsequently performed better than other treatment combinations leading to higher yield parameters and cane yield. The length and girth of the cane were also higher 3.06 & 2.44 cm in T₈ and 2.96 & 2.57 cm in T₉, respectively. The NMC and Cane yield were 68.42'000 & 75.03 t/ha in T₈ and 69.85'000 & 75.93 t/ha in T₉, respectively. This exhibits the positive effect of organic manures and bio fertilizers on cane yield.

	Treatments	$\frac{BD}{(g \text{ cm}^{-3})}$		50		Available Nutrient (kg/ha)			
	11 cumients		pН	EC (dsm ⁻¹)	OC%	Ν	Р	Κ	
T ₁	50% RDF	1.32	5.8	0.206	0.43	220	14.0	125.0	
T ₂	100% RDF	1.35	5.6	0.24	0.45	228	18.8	132.6	
T ₃	Soil test based fert. application (NPK)	1.34	5.6	0.278	0.47	238	20.2	135.7	
T ₄	Application of FYM/Compost @ 20t/ha+ 50% RDF	1.41	5.8	0.305	0.497	241	21.6	128.2	
T5	Application of FYM/Compost @ 20t/ha+100% RDF	1.40	5.9	0.33	0.512	244	22.5	130.5	
T ₆	Application of FYM/Compost @ 20t/ha+ Soil test based fert. application (NPK)	1.42	5.8	0.328	0.519	245	23.4	132.6	
T ₇	Application of FYM/Compost@ 10t/ha +(Azotobactor+PSB) + 50% RDF	1.45	5.8	0.322	0.526	251	23.9	130.2	
T ₈	ApplicationofFYM/Compost@10t/ha+(Azotobactor+PSB)+100%RDF	1.44	6.0	0.311	0.528	255	25.2	134.1	
T9	Application of FYM / Compost @ 10t/ha + Azotobactor + PSB + Soil test based fert application (NPK)	1.43	6.0	0.314	0.516	253	24.8	135.2	

AS 68.2 Impact of in	ntegrated application	of organics and i	in-organics on so	oil fertility status

The soil physico-chemical parameters like BD, pH, EC, organic carbon content as well as available N, P and K content exhibited marked improvement upon application of organic source of plant nutrients.

AS 69:	Use of plant growth regulators for enhanced yield and quality of sugarcane
Year of initiation	2015-16
Design	RBD
Treatments	8
Replication	3
Variety	Co Or 03151
Recommended fertilizer dose	250:100:60 N: P ₂ O ₅ : K ₂ O kg /ha
Plot size	6x 4.8 m ²
Date of ratooning	24.1.2016
Date of harvest	10.01.2017

Treatment details:

- 1. Conventional planting/ Farmers practice (3 bud setts).
- 2. Planting of setts after overnight soaking in water.
- 3. Planting of setts after overnight solution in 50 PPM ethrel solution.
- 4. Planting of setts after overnight solution in 100 PPM ethrel solution.
- 5. $T_1 + GA_3$ spray at 90, 120 & 150 DAP.
- 6. $T_2 + GA_3$ spray at 90, 120 & 150 DAP.
- 7. $T_3 + GA_3$ spray at 90, 120 & 150 DAP.
- 8. $T_4 + GA_3$ spray at 90, 120 & 150 DAP.

AS 69.1 Effect of plant growth regulators on germination and shoot count at various stages of cane growth

	Treatments	Ger	Germination%			ght (cm)	No of shoots (000/ha)	
		20 DAP	30 DAP	40 DAP	120 DAP	At harvest	120 DAP	180 DAP
T ₁	Conventional planting/ Farmers practice (3 bud setts)	11.17	39.47	49.96	121.70	278.90	79.03	83.57
T ₂	Planting of setts after overnight soaking in water	10.84	40.03	52.23	119.67	279.40	80.03	82.90
T ₃	Planting of setts after overnight solution in 50 PPM ethrel solution	11.60	43.93	54.67	123.63	278.37	79.00	82.43
T4	Planting of setts after overnight solution in 100 PPM ethrel solution	12.30	43.33	55.18	129.97	286.20	76.13	83.10
T ₅	$T_1 + GA_3$ spray at 90, 120 & 150 DAP	11.23	44.70	56.79	123.93	294.80	85.73	85.93
T ₆	$T_2 + GA_3$ spray at 90, 120 & 150 DAP	11.43	41.03	55.37	126.07	296.30	84.27	87.10
T ₇	T ₃ + GA ₃ spray at 90, 120 & 150 DAP	12.41	44.80	57.87	132.37	309.27	85.03	84.83
T ₈	$T_4 + GA_3$ spray at 90,	12.80	48.30	58.18	136.53	312.07	86.07	86.37

120 & 150 DAP							
	0.408	1.646	1.611	3.018	5.387	2.094	0.988
SEm <u>+</u>							
	1.237	4.993	4.885	9.154	16.34	6.351	2.996
CD at 5 %							
CV%	6.03	6.60	5.07	4.12	3.20	4.43	3.42

AS 69.2 Effect of plant growth regulators on yield parameters of cane

	Treatments	Length of cane (cm)	Girth of cane (cm)	Weight of cane (kg)
T_1	Conventional planting/ Farmers		2.51	1.32
	practice (3 bud setts)	278.22		
T_2	Planting of setts after overnight		2.58	1.37
	soaking in water	276.87		
T ₃	Planting of setts after overnight		2.47	1.49
	solution in 50 PPM ethrel solution	284.31		
T_4	Planting of setts after overnight		2.63	1.62
	solution in 100 PPM ethrel solution	288.60		
T ₅	T ₁ + GA ₃ spray at 90, 120 & 150 DAP		2.78	1.52
		290.80		
T_6	T ₂ + GA ₃ spray at 90, 120 & 150 DAP		2.55	1.54
-		290.30		
T ₇	$T_3 + GA_3$ spray at 90, 120 & 150 DAP	~~~ ~~	2.94	1.58
-	T CA	307.77	2.00	4.65
T8	T ₄ + GA ₃ spray at 90, 120 & 150 DAP	312.40	2.88	1.65
		312.40	0.194	0.066
	SEm <u>+</u>	4.58	0.194	0.000
	<u> </u>	7.00	0.588	0.201
	CD at 5 %	13.89	0.000	0.201
	CV%	5.92	12.59	7.60

AS 69.3 Effect of plant growth regulators on juice quality and yield of cane

	Treatments					Cane		
		Brix	Sucrose	Purity	NMC	yield	CCS	CCS
		%	%	%	(000/ha)	(t/ha)	%	(t/ha)
T_1	Conventional planting/ Farmers	18.03			69.83	92.15	10.87	
	practice (3 bud setts)		16.8	86.8				11.76
T_2	Planting of setts after overnight	18.09			70.83	96.79	10.70	
	soaking in water		17.0	87.3				11.54
T ₃	Planting of setts after overnight	18.48			71.50	106.47	11.60	
	solution in 50 PPM ethrel							
	solution		17.5	86.47				12.12
T_4	8	17.95			74.33	117.14	11.37	
	solution in 100 PPM ethrel							
	solution		17.8	85.16				12.58
T ₅		16.98			73.80	111.87	11.58	
	150 DAP		16.6	85.2				12.42
T_6		18.31			74.37	115.51	11.35	
	150 DAP		16.8	83.55				12.18
T ₇	$T_3 + GA_3$ spray at 90, 120 &	17.71			78.87	118.43	11.78	
	150 DAP		17.5	86.14				12.74
T_8	$T_4 + GA_3$ spray at 90, 120 &	18.76			81.20	121.40	11.90	
	150 DAP		18.2	85.77				12.82
					2.014	4.329		
	SEm <u>+</u>	0.553	0.37	2.78			0.407	0.32
					6.108	13.130		
	CD at 5 %	NS	NS	NS			NS	1.52
	CV%	5.31	5.26	6.12	4.69	6.80	6.18	3.72

Out of the eight treatments, Planting of setts after soaking in 100 PPM ethrel solution along with GA₃ spray at 90, 120 & 150 DAP proved to be the best with highest number of net millable canes (81.20 th/ha), cane (121.4 t/ha) and CCS yield (12.82.t/ha). The treatment next in order was T_7 where Planting of setts after soaking in 50 PPM ethrel solution along with GA₃ spray at 90, 120 & 150 DAP produced NMC of 78.87 ('000 /ha) with cane and CCS yield of 118.43 and 12.74 t/ha, respectively. Planting of setts after overnight soaking in water along with GA₃ spray at 90, 120 & 150 DAP produced NMC of 74.33 ('000 /ha) cane and CCS yield of 115.5 and 12.18 t/ha, respectively. These three treatments were at par. The higher yield parameters i.e. number of shoots/ha, length and girth of cane in the above mentioned treatments were the factors of higher cane and CCS yield.

AS 70:	Scheduling irrigation with mulch under different sugarcane planting
	methods
Year of initiation	2016-17
Design	Strip plot
Replication	3
Treatments (12)	Planting methods : 4
	Irrigation regime : 3
Variety	CoOr 12346
Recommended fertilizer dose	250:100:60 N :P ₂ O ₅ : K ₂ O kg /ha
Plot size	6m width x 8m length
Date of planting	25.01.16
Date of harvest	15.01.17

Treatment (A): Combination of planting methods and mulch practices

P1 : Furrow planting (120 cm row spacing) without mulching

P2 : Furrow planting (120 cm row spacing) with brown mulching.

P3 : Furrow planting (120 cm row spacing) with alternate skip furrow irrigation* after earthing-up without mulching.

P4 : Furrow planting (120 cm row spacing) with alternate skip furrow irrigation* after earthing-up + brown mulching.

Treatment	Irrigation schedule (IW/CPE)
(B):	$I_1: 0.60$
	$I_2: 0.80$
	$I_3: 1.00$
	Irrigation water depth : 7.5 cm

AS 70.1: Sugarcane yield and quality under different planting methods and irrigation schedule

r		schedule	1	I.	I		I.	1	
Treatments	Germination % at 45 DAP	No of tillers (000/ha) at 90 DAP	No of tillers (000/ha) at 120 DAP	NMC (000/ha)	Cane yield (t/ha)	Juice Brix %	Juice Sucrose%	CCS %	CCS yield (t/ha)
Planting met	hods and mulch practice	S							
					101.93				
P ₁	52.26	76.97	87.68	88.48		21.59	17.95	12.04	11.14
					103.36				
\mathbf{P}_2	53.83	90.08	90.75	92.68		20.69	17.56	11.90	11.63
					102.05				
P ₃	51.66	83.83	85.94	86.83		20.25	17.23	11.69	11.39
					103.93				
P ₄	50.92	88.41	88.46	92.92		19.45	16.85	11.54	12.12
SEm <u>+</u>	5.48	3.400	2.82	2.54	2.24	1.05	0.45	0.29	0.25
CD at 5 %	NS	6.97	5.68	6.92	NS	NS	NS	NS	NS

Irrigation sch	nedule								
I_1	52.86	82.34	79.82	83.62	98.94	20.82	17.54	11.84	11.33
I_2	51.96	85.72	82.26	87.75	103.34	21.44	17.84	11.97	11.88
I ₃	50.24	92.29	90.68	96.22	106.17	19.75	17.25	11.86	12.46
					1.94				
SEm <u>+</u>	4.52	2.74	2.74	2.68		1.22	0.41	0.24	0.255
					5.69				
CD at 5 %	NS	7.636	8.63	6.41		NS	NS	NS	0.68

AS 70.2		Mean t	able	
	I_1	I_2	I3	Mean
р	98.677	102.587	104.523	101.929
P ₁	99.080	103.723	107.280	103.361
P ₂	97.807	102.800	105.543	102.050
P ₃	100.200	104.240	107.350	103.930
\mathbf{P}_4	98.941	103.338	106.174	102.818
Mean	Р	I	P x I	
q	2.240	1.940	3.880	
Sem <u>+</u>	NS	5.689	NS	
CD at 5%	6.54			
CV				

AS 70.3 Sugarcane yield and Water use efficiency of sugarcane under different planting methods and irrigation schedule

Treatments	Cane yield (t/ha)	Quantity of water applied (ha-cm)	Water use efficiency (kg/ha-cm)
Planting method			
P ₁	101.93	142.6	714.8
P ₂	103.36	133.8	772.5
P ₃	102.05	130.7	780.8
P ₄	103.93	126.8	819.6
Irrigation schedule			
I ₁	98.94	120.7	819.7
I_2	103.34	135.2	764.3
I ₃	106.17	150.4	705.9

The experiment was laid out in strip plot design with three replications. Furrow planting (120 cm row spacing) with alternate skip furrow irrigation after earthing-up + brown mulching method produced higher NMC and cane yield of 92.93'000/ha and 103.93t/ha respectively which is closely followed by furrow planting

(120 cm row spacing) with brown mulching (NMC and cane yield 92.68'000/ha and 103.36 t/ha respectively). Irrigating the crop at IW/CPE ratio of 1.0 produced highest NMC and sugarcane yield of 96.22'000/ha and 106.17 t/ha respectively which is significantly different from irrigating the crop at IW/CPE ratio of 0.6 (NMC and cane yield 82.62'000/ha and 98.94 t/ha respectively). Planting method x irrigation schedule interaction was found not significant. However maximum water use efficiency was recorded with IW/CPE of 0.6 (819.7 kg/ha-cm) followed by IW/CPE ratio of 0.8 (764.3 kg/ha-cm). Furrow planting (120 cm row spacing) with alternate skip furrow irrigation after earthing-up + brown mulching treatment recorded higher water use efficiency (819.6 kg/ha-cm) than other planting methods.

AS 71:	Carbon sequestration assessment in sugarcane based cropping system
Year of initiation	2016-17
Design	RBD
Treatments	8
Replication	3
Variety	Co Or 10346
Recommended fertilizer dose	250:100:60 N: P ₂ O ₅ : K ₂ O kg /ha
Plot size	6 rows of 6 meter length
Date of planting	24.01.2016
Date of harvest	20.01.2017

Treatments

(Cropping system)

T1: Cowpea-Sesame - Cowpea - Sesame

:

- T2: Sugarcane-Ratoon-cowpea
- T3 : Sugarcane Ratoon (trash mulching without Trichoderma) Cowpea
- T4 : Sugarcane Ratoon (trash removal without Trichoderma) Cowpea
- T5 : Sugarcane Ratoon (trash mulching with Trichoderma) Cowpea
- T6 : Sugarcane Ratoon Cowpea (trash incorporation through rotavator and Trichoderma incorporation before sowing of Cowpea)
- T7 : Sugarcane Ratoon- Cowpea (Zero tilled) without Trichoderma
- T8 : Sugarcane Ratoon-Cowpea (Zero tilled) with Trichoderma

AS -	71.1
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Treatment s	Germination % at 45 DAP	No of tillers (000/ha) at 120	NMC (000/ha)	Cane yield	Juice Brix	Juice Sucro	CCS %
5		DAP	(000/114)	(t/ha)	%	se%	
T ₂	53.83	88.68	89.45	100.45	20.69	17.56	11.90
T ₃	54.66	87.94	88.83	97.64	19.25	17.23	11.69
T_4	56.92	85.46	89.92	99.85	19.45	16.85	11.54
T ₅	54.48	87.43	90.7	95.78	20.22	17.65	11.34
T ₆	55.34	88.45	89.6	102.34	18.82	16.87	11.12
T ₇	53.86	88.25	88.62	97.32	20.42	17.54	11.84

T ₈	54.96	86.85	87.75	100.91	19.44	17.84	11.97
CD at 5 %	NS	NS	NS	NS	NS	NS	NS

Treatments	0-30 cm		0-30 cm		30-60 cm		30-60 cm 60-90 cm		60-90 cm			Total SOC
	OC%	B.D	SOC	OC%	B.D	SOC	OC%	B.D	SOC			
T_1	0.43	1.36	17.54	0.35	1.45	15.22	0.28	1.51	12.68	45.44		
T_2	0.45	1.35	18.22	0.41	1.45	17.83	0.34	1.5	15.3	51.35		
T ₃	0.47	1.34	18.89	0.42	1.46	18.4	0.30	1.52	13.68	50.97		
T_4	0.46	1.41	19.46	0.38	1.47	16.76	0.32	1.5	14.4	50.62		
T ₅	0.51	1.40	21.42	0.45	1.50	20.25	0.29	1.62	14.09	55.76		
T_6	0.50	1.42	21.3	0.43	1.48	19.74	0.31	1.59	14.79	55.83		
T ₇	0.52	1.45	22.62	0.40	1.53	18.36	0.30	1.58	14.85	55.83		
T_8	0.49	1.44	21.17	0.44	1.5	19.8	0.33	1.65	16.33	57.3		

AS – 71.2 Initial soil fertility status

Cowpea yield : 170 kg/ha Sesame yield : 542 kg/ha

This experiment was conducted using the variety CoOr 10346. Initial soil organic carbon was calculated by taking observations of Organic cabron % and bulk density of different depths. In the first treatment cowpea and sesame crop was grown to compare with sugarcane based cropping system. The observations on growth parameters and yield attributes were analyse but there were no significant difference among the treatments.

AS 72:	Agronomic performance of elite sugarcane genotypes
Year of initiation	2016-17
Design	RBD
Genotypes	8
Replication	3
Recommended fertilizer dose	125% of the recommended dose of NPK for the zone (RD- 250:100:60 N:
	P_2O_5 : K ₂ O kg /ha)
Plot size	5 rows of 6 meter length
Date of planting	23.01.2016
Date of harvest	15.01.2017

Early maturing varieties (5): CoA 12321, CoA 12322, CoA 12323, CoOr 12346 and CoV 12356

Zonal Check (3) : Co 6907, CoC 01061 and CoA 92081

AS-72.1

Treatments		Germination	No of tillers	NMC	Cane	Juice	Juice	CCS %
		% at 45 DAP	(000/ha) at 120 DAP	(000/ha)	yield (t/ha)	Brix %	Sucrose%	
T ₁	CoA 12321	54.66	87.94	88.83	97.64	19.25	17.23	11.69
T ₂	CoA 12322	53.83	88.68	89.45	100.45	20.69	17.56	11.90
T ₃	CoA 12323	54.34	88.22	88.48	98.64	20.15	17.43	11.68
T4	CoOr 12346	56.92	88.45	94.92	102.34	20.42	17.85	12.14
T ₅	CoV 12356	50.48	83.43	86.7	95.78	18.22	16.65	11.24
T ₆	Co 6907	54.34	82.45	85.6	93.45	18.82	16.87	11.12
T ₇	CoC 01061	53.86	85.25	82.62	91.32	18.42	17.54	11.84
T ₈	CoA 92081	54.96	86.85	87.75	94.68	19.44	17.84	11.97
	SEm <u>+</u>	1.22	2.68	2.24	2.75	1.78	1.16	0.54
C	CD at 5 %	NS	NS	5.46	6.64	NS	NS	NS
CV%		4.67	3.75	4.35	5.62	6.32	3.64	3.12

The experiment was laid out in randomized block design with five genotypes from AVT namely CoA 12321, CoA 12322, CoA 12323, CoOr 12346 and CoV 12356 along with three standard check *i.e.* Co 6907, CoC 01061 and CoA 920810n red laterite soil of the experimental farm of Sugarcane Research Station, Nayagarh. The soil was acidic (pH 5.33) in reaction with electrical conductivity of 0.206 dsm⁻¹. Available N content was in lower range (155 kg/ha), but the soil was medium in available P (19.6 kg/ha) and (K 164 kg/ha) content. Analysis of variance suggested that there is significant variations among the genotypes with respect to cane yield, sucrose %, CCS%, germination %, number of tillers at 120 days and number of millable canes ('000/ha). The genotype CoOr 12346 produced the highest average cane yield of 102.34 t/ha with application of 125 % RD of fertiliser and was closely followed by CoA 12322 (100.45 t/ha) and CoA 12323 (98.64 t/ha).

ALL INDIA CO-ORDINATED RESEARCH PROJECT ON SUGARCANE SUGARCANE RESEARCH STATION (ORISA UNIVERSITY OF AGRICULTURE &TECHNOLOGY) AT: PANIPOILA, PO :BALUGAON, Dist : NAYAGARH

No. 155 / SRS Dt. 30.05.2017

From :

Dr. P. K. Nayak, Ph.D. Officer-in-Charge

То

The Principal Scientist & Principal Investigator (Crop Production) ICAR- Indian Institute of Sugarcane Research, Lucknow-226002 (UP)

Sub: Submission of data sheet 2016-17 (Crop Production)

Sir,

In inviting a kind reference to the subject cited above I am herewith submitting the data sheet 2016-17 of crop Production discipline of AICRP on Sugarcane, S.R.S. Nayagarh along with soft copy for your kind perusal and inclusion in the Annual Report.

This is for favour of your kind information and necessary action

With regards

Yours faithfully

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(P.K.Nayak) OFFICER-IN-CHARGE AICRP(S) S.R.S., NAYAGARH

Encl. : As above

Memo No. 156 / SRS Dt 30.05. 2017

Copy along with data sheet and C.D. submitted to the Project Coordinator, AICRP(S), IISR, Lucknow, UP for favour of information and necessary action.

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(P.K.Nayak) OFFICER-IN-CHARGE AICRP(S) S.R.S., NAYAGARH