CLUSTER FRONTLINE DEMONSTRATION OF RABI OILSEEDS (2017-18) PERFORMANCE DATA REPORTING FORMAT KVK WISE

1. **Name of KVK:** Deogarh
2. **Year of establishment:** 2006
3. **Host Institution:** OUAT, Bhubaneswar
4. **Address:** Krishi Vigyan Kendra Deogarh, At/PO-Purunagarh (Near Town High School), Dist.-Deogarh, Odisha, PIN-768119
5. **District:** Deogarh
6. **State:** Odisha
7. **Performance of the demonstration:**

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Sunflower (S-275)	Local	7.5	10.22	12.0	14.0	Hybrid variety S-275, seed treatment with Vitavax Power (Carboxin + Thiram) @ 2g per 1kg of seed, line sowing in spacing 60 cm x 30 cm, pre-emergence herbicide Pendimethalin 30 %EC @ 3 lit /ha, need based spraying of Triazophus 40%EC @ 2 lit/ha for control of head borer & Metalaxyl + Mancozeb 72%WP @ 1kg/ha to control Alternaria leaf blight	50	20	11.54	8.52	10.6	0.38	1.4	3.4

B. Economic parameters

Sl. No.	Variety demonstrated & Technology	Farmer's Existing plot	Demonstration plot

	demonstrated	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Hybrid variety S-275, seed treatment with Vitavax Power (Carboxin + Thiram) @ 2g per 1kg of seed, line sowing in spacing 60 cm x 30 cm, pre-emergence herbicide Pendimethalin 30 %EC @ 3 lit /ha, need based spraying of Triazophus 40%EC @ 2 lit/ha for control of head borer & Metalaxyl + Mancozeb 72%WP @ 1kg/ha to control Alternaria leaf blight	14500	30000	15500	2.07	17200	42400	25200	2.47

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Sunflower (S-275)	1060	(80-100) kg/Household	40.00	-	-	Agriculture and household needs	90 MD

D. Farmers' perception of the intervention demonstrated

Sl.	Technologies	Farmers' Perception parameters

No.	demonstrated (with name)	Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Hybrid variety, seed treatment, Integrated Weed Management, Integrated Nutrient Management and Integrated Pest Management	Suitable	S-275 (Hybrid) variety obtaining good yield in climate Deogarh district	Yes	No	Yes	New released high yielding varieties of Sunflower should be available regularly to the farmers for improvement

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety	Enhancement of yield	Enhancement of yield against local check	Farmer observed and satisfied specific characteristics of the demonstrated technologies and will adopt the technologies in coming year for crop production
Seed treatment	Reduce disease incidence	Reduce disease incidence against local check	
Pre-emergence weedicide	Check weed infestation	Reduce weed infestation against local check	
Fertilizer management	Organic manure maintain soil health	Organic manure maintain soil health, enhance the plant growth and yield	
Plant protection measures	Reduce pest and disease incidence	Reduce pest and disease incidence against local check	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field Day	Village-Suguda (dt.27.03.2018)	50

8. Sequential good quality photographs (as per crop stages i.e. growth & development)

9. Farmers' training photographs

10. Quality Photographs of field visits/field days and technology demonstrated.

Field Day Programme at village Suguda

11. Details of budget utilization

Crop (provide crop wise information)	**Items**	**Budget Received (Rs.)**	**Budget Utilization (Rs.)**	**Balance (Rs.)**
Sunflower	i) Critical input	60,000/-	1,08,000/-	-48,000/-
	ii) TA/DA/POL etc. for monitoring	0	12,000/-	-12,000/-
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total	**60,000/-**	**1,20,000/-**	**-60,000/-**

12. List of Farmer under FLD (Crop wise)

a) **Crop1-Sunflower**

Name of farmer	Father's name	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Area (ha)	Seed quantity used	Demo. Yield (q/ha)			Yield of local check q/ha	% increase
						Latitude	Longitude	Yes						H	L	A		
Gunakar Patra	Sada Patra	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha	Hybrid variety S-275, seed treatment with Vitavax Power (Carboxin + Thiram) @ 2g per 1kg of seed, line sowing in spacing 60 cm x 30	S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.38	7.5	51.73
Markanda Pradhan	Bishnu Patra	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	9.62	7.5	28.27
Darsania Naik	Jogi Naik	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	9.4	7.5	25.33
Basanti Rana	W/o Dula Rana	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.45	7.5	52.67
Trilochan Pradhan	Bishnu Pradhan	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha		S-275 (Hybrid)	0.4	2kg	11.4	8.78	10.6	7.5	42.40

									Zn SO_4 - 25kg/ha	cm, pre-emergence herbicide Pendimethalin 30 %EC @ 3 lit /ha, need based spraying of Triazophus 40%EC @ 2 lit/ha for control of head borer & Metalaxyl + Mancozeb 72% WP @ 1kg/ha to contro				5		8		
Satyananda Bhoi	Bipra Bhoi	Kailash	Tileibani	8455914044		$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	10.96	7.5	46.13
Bhagirathi Kallo	Chintamani Kallo	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	9.28	7.5	23.73
Ugrasen Patra	Abhimanyu Patra	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.24	7.5	49.87
Pradipta Padhan	Baneswar Padhan	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	10.8	7.5	44.00
Puspalata Padhan	W/o Khirod Padhan	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	10.86	7.5	44.80
Sudershan Kallo	Hari Kallo	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	8.52	7.5	13.60

Santoshine Dehury	W/o Sripati Dehury	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha	l Alternaria leaf blight	S-275 (Hybrid)	0.4	2kg	11.45	8.78	9.66	7.5	28.80
Khetrabashi Sahu	Hemanta Sahu	Kailash	Tileibani	7749860326		$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.2	7.5	49.33
Dhabaleswar Kallo	Sankar Kallo	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	9.22	7.5	22.93
Aruna Dehury	Keshaba Dehury	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	8.78	7.5	17.07
Malati Padhan	W/o Chaitanya Padhan	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.16	7.5	48.80
Mahendra Sahu	Hemanta Sahu	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	9.36	7.5	24.80
Meri Kujur	W/o Johan	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha		S-275 (Hybri	0.4	2kg	11	8.	10	7.5	44.53

	Kujur								K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		d)			.45	78	.84		
Kishori Padhan	W/o Duryodhan Padhan	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	10.56	7.5	40.80
Sudhir Mohapatra	Duari Mohapatra	Kailash	Tileibani			$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.42	7.5	52.27
Sonu Sahu	Sushila Sahu	Kailash	Tileibani	8763028057		$21^0$33'48.69"	$84^0$37'45.67"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.45	8.78	11.44	7.5	52.53
Arakhit Banichul	Srimanta Banichul	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	10.68	7.5	42.40
Nirash Kishan	W/o Tikeswar Kishan	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	9.52	7.5	26.93
Gopal Bhoi	Chandramani Bhoi	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha		S-275 (Hybrid)	0.4	2kg	11.4	9.5	11.2	7.5	49.33

									Zn SO_4 - 25kg/ha					4				
Pitbash Bhoi	Nepal Bhoi	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	10.84	7.5	44.53
Prafulla Banichul	Nabin Banichul	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	9.64	7.5	28.53
Tarun Bhoi	Chandramani Bhoi	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	11.5	7.5	53.33
Ramesh Banichul	Srimanta Banichul	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	10.85	7.5	44.67
Suruchi Kisan	Madan Kisan	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	11.42	7.5	52.27
Sukut Bhoi	Kumarmani Bhoi	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	10.78	7.5	43.73

Laxman Chnadra Deo	Rajendra Deo	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	11.48	7.5	53.07
Madan Kisan	Rasananda Kisan	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	10.64	7.5	41.87
Mangulu Kisan	Rasananda Kisan	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	9.5	7.5	26.67
Rama Baula	Thebu Baula	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	11.18	7.5	49.07
Guru Charan Bagh	Shyama Bagh	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	11.44	7.5	52.53
Loknath Banichul	Srimanta Banichul	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.44	9.5	10.33	7.5	37.73
Prahalad Bhoi	Kumarmani	Nuabhuin	Tileibani			$21^0$31'40.02"	$84^0$40'59.17"	Yes	N-40kg/ha P-50kg/ha		S-275 (Hybri	0.4	2kg	11	9.	10	7.5	46.40

	Bhoi								K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		d)			.44	5	.98		
Khyamanidhi Pradhan	Sushula Pradhan	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	10.5	7.5	40.00
Digamber Sahu	Rabi Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	10.34	7.5	37.87
Kishore Chandra Pradhan	Hrudananda Pradhan	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	11.54	7.5	53.87
Mangulu Sahu	Dasarathi Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	10.62	7.5	41.60
Madhu Sahu	Danara Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	10.87	7.5	44.93
Nityananda Pradhan	Sushula Pradhan	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha		S-275 (Hybrid)	0.4	2kg	11.5	9.7	11.4	7.5	52.80

									Zn SO_4 - 25kg/ha					4		6		
Purnachandra Sahu	Sapneswar Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	11.4	7.5	52.00
Niranjan Sahu	Arakhita Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	9.96	7.5	32.80
Budhuram Sahu	Rabi Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	10.9	7.5	45.33
Santanu Sahu	Madhu Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	11.3	7.5	50.67
Damberudhar Sahu	Sukadev Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	11	7.5	46.67
Tikeswar Sahu	Bhubaneswar Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	9.7	7.5	29.33

Priyadarshan Sahu	Dileswar Sahu	Suguda	Tileibani			$21^0$48'83.39"	$84^0$79'32.15"	Yes	N-40kg/ha P-50kg/ha K-40kg/ha S-20kg/ha Zn SO_4 - 25kg/ha		S-275 (Hybrid)	0.4	2kg	11.54	9.7	10.6	7.5	41.33

Sd/-
Senior Scientist & Head
KVK, Deogarh