



**Farm Mechanization FACULTY DEVELOPMENT PROGRAMME**  
**Resource Person Dr. Joseph Reddy Principal Scientist (Agriculture Eng.)**  
**Associate Dean Academics Acharya N.G. Ranga University, Andhra Pradesh**  
**No. of Participants: 175**  
**Date: 10 th June 2020**

Resource Person:

Dr. Joseph Reddy Principal Scientist/Associate Dean Academics has a specialization in the design and development of Agricultural Machinery. Some of his notable contributions are;

- Development and evaluation of Tractor drawn seed cum ferti drill for Bengal gram (Chickpea) and Sorghum crops
- Development and evaluation of tractor-operated chickpea harvester
- Development and Evaluation of Tractor PTO operated Rotary Strip-Drill for sowing in paddy stubble field for sowing Maize, Sorghum, and chickpea crops
- Development of suitable Dry land matching implements for Mini- Tractor (15 to 21 hp range) for the benefit of Small and Marginal Farmers
- Development of Tractor PTO operated Multi crop high-capacity thresher
- Development of Tractor PTO operated FYM pulverizer cum spreader
- Development of tractor-operated cotton stalk root uprooter cum shredder

**About the session;**

The session gave a brief idea of the importance of farm mechanization and its implementation at the farm level, Mechanization raises the efficiency of labor and enhances the farm production per worker. By its nature, it reduces the quantum of labor needed to produce a unit of output. Agricultural farm mechanization helps in increasing production, productivity, and profitability in agriculture by achieving timeliness in farm operations, bringing precision in metering and placement of inputs, reducing available input losses, and increasing the utilization efficiency of costly inputs (seed, chemical, fertilizer, etc). Further, there was a briefing that introduced some of the tractors developed by Dr. Joseph Reddy, the main discussion was on the Mini tractor (15-24hp) and its matching implements. Such as 2 Bottom ploughs, 6-tyne Cultivator, 6-row Seed cum ferti drill.

**Objective;**

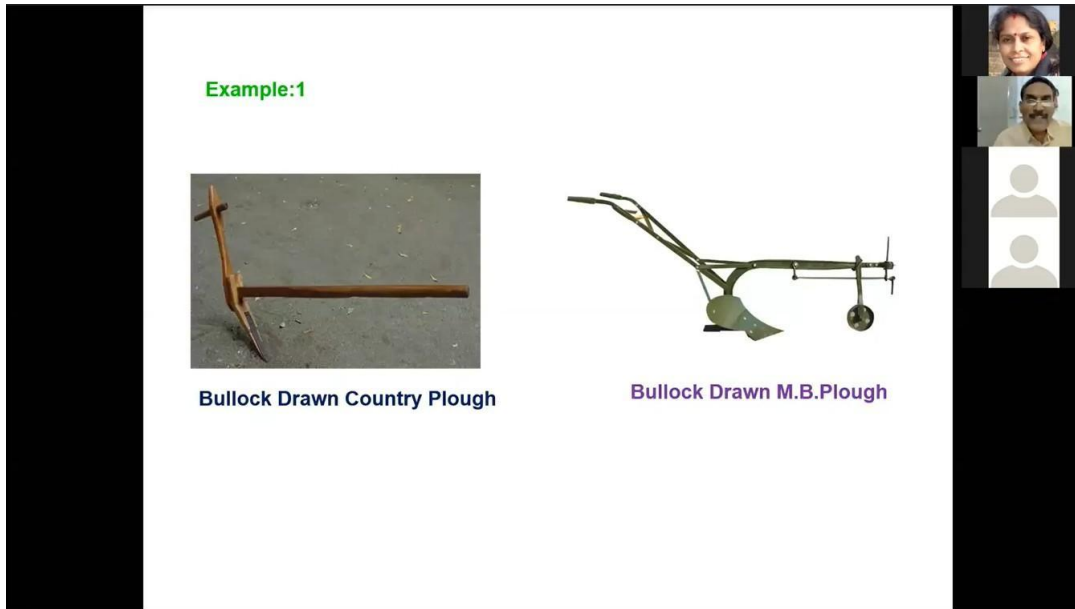
- To brief on Mini Tractor (15hp) for the benefit of Small and Marginal Farmers in India
- To introduce new Tractors to the farm to help marginal farmers in the farming activities
- To introduce new ideas for research in the field of Agricultural Engineering

**Outcomes:**

The session gave a brief idea of the importance of farm mechanization at the farm level, Farm Mechanization raises the efficiency of labor and enhances the farm production per worker. By its nature, it reduces the quantum of labor needed to produce a unit of output. The session showcased some of the models developed to help in the intercultural activities in farming.

**Screenshot of FDP**

**Example:1**



**Bullock Drawn Country Plough**

**Bullock Drawn M.B.Plough**

The screenshot shows a video conference interface. On the right side, there are three video thumbnails: the top one shows a woman, the middle one shows a man, and the bottom one is a grey placeholder. The main content area displays two images of ploughs. The left image is a traditional wooden bullock drawn country plough, and the right image is a modern metal bullock drawn M.B. plough.

**Matching implements to Mini-Tractor(15-24hp)**



**10 Kw Generator**

**Generator Road Caster**

**Mini-tractor**

**Mini-tractor operated Rain gun**

**2-Bottom M.B Plough**

**6-tine cultivator**

**6-row seed cum ferti drill**

**Developed at R A R S, Nandyal**

**High ground clearance mechanism Dry land crops**

This collage features several images of mini-tractors and their associated implements. At the top center, a red mini-tractor is shown with a generator attached. Below it, another red mini-tractor is shown with a road caster. To the right, a red mini-tractor is shown with a rain gun. Further right, a red 2-bottom M.B. plough is shown. Below that, a red 6-tine cultivator is shown. At the bottom right, a red 6-row seed cum ferti drill is shown. A black banner with white text reads 'Developed at R A R S, Nandyal'. At the bottom left, a red implement is shown with the text 'High ground clearance mechanism Dry land crops'.



Centurion  
UNIVERSITY



## FACULTY DEVELOPMENT PROGRAMME

# Farm Mechanization

### Resource Person

**Dr. Joseph Reddy**

Principal Scientist (Agri. Eng.)  
Associate Dean Academics  
Acharya N.G. Ranga University, Andhra Pradesh

### Organized by :

Centurion University of Technology and  
Management

10<sup>th</sup> June 2020

centurion university of technology and management  
*Shaping Lives... Empowering Communities...*

### Participants List

1	Dr.Aswini Kumar Rath	Prof. Dept. of Botany
2	Mrs.Namita Panda	Asst.Prof
3	Dr.Jyotiprakash Rath	Asst.Prof
4	Dr.Shanatanu Bhattacharya	Asst.Prof & HOD, Dept. of Botany
5	Dr.Pratibha Rani Deep	Asst.Prof
6	Mr.Debashish Trpathy	Asst.Prof & HOD, Dept. of Zoology
7	Mr.Pankaj Meher	Asst.Prof
8	Mr.Sujit Kumar Mishra	Asst.Prof
9	Mr.Chinmayee Tripathy	Asst.Prof
10	Swapna nanda Rath	Professor
11	G. N. Inndresha	Professor
12	Firoz Ahmed	Professor
13	Dr.Aditya Kumar Purohit	Asst.Prof
14	Dr.Srikanta Moharana	Asst.Prof
15	Dr.Ashish Kumar Sarangi	Asst.Prof
16	Mr.Rajguru Rajesh Raman Mishra	Asst.Prof

17	Dr.Bhairaba Kumar Majhi	Asst.Prof & HOD, Dept. Of Mathematics
18	Mr.Satyabrata Sadangi	Asst.Prof
19	Dr.Jayakishan Meher	Prof. & HOD, Dept. Of IT & BCA
20	Mrs.Monalisha Joshi	Asst.Prof
21	Ms. Asharani Dalei	Asst. Prof
22	Dr.Nilaya Kumar Mohanty	Asst.Prof & HOD,Dept. Physics
23	Mr.Gyanendra Kumar Mishra	Asst.Prof
24	Mrs.Meena Kumari Sahu	Asst.Prof
25	Mrs.Sasmita Pradhan	Asst.Prof
26	Dr. Prafulla Kumar Sahu	Prof.
27	Mr.Vijaya Kumar Meher	Asst.Prof
28	Mr. Dinesh Kumar Sharma	Asst.Prof
29	Mr.Ashish Kumar Meher	Asst.Prof
30	Mrs.Binapani Barik	Asst.Prof
31	Mr. Biswajeet Acharya	Asst.Prof
32	Mr.Swarnajeet Tripathy	Asst.Prof
33	Dr. Rabindra Nath Pradhan	Assistant Professor
34	Mr. I. Rama Koti	Assistant Professor
35	Dr. Ashok Misra	Professor
36	Dr. Banitamani Mallik	Professor
37	Dr. Balaji Padhy	Assistant Professor
38	Dr. Santosh Kumar Bhal	Assistant Professor
39	Dr. Vijaya Miditana	Associate Professor
40	Dr. Prajna Pani	Professor
41	Dr. Girish Prasad Rath	Assistant Professor
42	Dr. Susanta Kumar Patnaik	Assistant Professor
43	Dr. Amir Prasad Behera	Assistant Professor
44	Dr. Subhendu Kumar Mishra	Associate Professor
45	Mr. Sharmistha Sahu	Assistant Professor
46	Dr.Soma Maji	Assistant Professor
47	Dr. Mayank Singh	Assistant Professor
48	Dr. Satya Prakash Nanda	Professor cum Dean
49	Dr. M. Devender Reddy	Professor cum Dean Acad
50	Mr. Anil Kumar J.	Associate Dean
51	Mr. B. Chakrapani	Professor
52	Dr. Chitrasena Padhy	Assistant Professor
53	Dr. Ajay Kumar Prusty	Assistant Professor
54	Dr. Satarupa Modak	Assistant Professor
55	Dr. Akkammadevi Naik	Assistant Professor
56	Dr. Ashok Kumar	Assistant Professor
57	Dr. M. Chandra Surya Rao	Assistant Professor
58	Dr. Nilanjana Datta	Assistant Professor
59	Dr. Samapika Dalai	Assistant Professor
60	Dr. Anindita Roy	Assistant Professor
61	Dr. Barsha Tripathy	Assistant Professor
62	Dr. Smaranika Mohanta	Assistant Professor
63	Dr. Subhrajyoti Chatterjee	Assistant Professor
64	Dr. Archana Mishra	Assistant Professor
65	Dr. Sunna Deepthi	Assistant Professor
66	Dr. Vangapandu Thriveni	Assistant Professor

67	Dr. M. Viswanath	Assistant Professor
68	Mr. I. Rama Koti	Assistant Professor
69	Dr. Ashok Misra	Professor
70	Dr. Banitamani Mallik	Professor
71	Dr. Balaji Padhy	Assistant Professor
72	Dr. Santosh Kumar Bhal	Assistant Professor
73	Dr. Vijaya Muditana	Associate Professor
74	Dr. Prajna Pani	Professor
75	Dr. Girish Prasad Rath	Assistant Professor
76	Dr. Susanta Kumar Patnaik	Assistant Professor
77	Dr. Amir Prasad Behera	Assistant Professor
78	Dr. Subhendu Kumar Mishra	Associate Professor
79	Mr. Sharmistha Sahu	Assistant Professor
80	Dr.Soma Maji	Assistant Professor
81	Dr. Mayank Singh	Assistant Professor
82	Dr. Satya Prakash Nanda	Professor cum Dean
83	Dr. M. Devender Reddy	Professor cum Dean Acad
84	Mr. Anil Kumar J.	Associate Dean
85	Mr. B. Chakrapani	Professor
86	Dr. Chitrasena Padhy	Assistant Professor
87	Dr. Ajay Kumar Prusty	Assistant Professor
88	Dr. Satarupa Modak	Assistant Professor
89	Dr. Akkammadevi Naik	Assistant Professor
90	Dr. Ashok Kumar	Assistant Professor
91	Dr. M. Chandra Surya Rao	Assistant Professor
92	Dr. Nilanjana Datta	Assistant Professor
93	Dr. Samapika Dalai	Assistant Professor
94	Dr. Anindita Roy	Assistant Professor
95	Dr. Barsha Tripathy	Assistant Professor
96	Dr. Smaranika Mohanta	Assistant Professor
97	Dr. Subhrajyoti Chatterjee	Assistant Professor
98	Dr. Archana Mishra	Assistant Professor
99	Dr. Sunna Deepthi	Assistant Professor
100	Dr. Vangapandu Thriveni	Assistant Professor
101	Dr. M. Viswanath	Assistant Professor
102	Dr. Ajay Kumar Prusty	Assistant Professor
103	Dr. Satarupa Modak	Assistant Professor
104	Dr. Akkammadevi Naik	Assistant Professor
105	Dr. Ashok Kumar	Assistant Professor
106	Dr. M. Chandra Surya Rao	Assistant Professor
107	Dr. Nilanjana Datta	Assistant Professor
108	Dr. Samapika Dalai	Assistant Professor
109	Dr. Anindita Roy	Assistant Professor
110	Dr. Barsha Tripathy	Assistant Professor
111	Dr. Smaranika Mohanta	Assistant Professor
112	Dr. Subhrajyoti Chatterjee	Assistant Professor
113	Dr. Archana Mishra	Assistant Professor
114	Dr. Praveen Boddna	Professor
115	Dr. Ria Mukhopadhyay	Assistant Professor

116	Dr. Gagan Kumar	Assistant Professor
117	Ms. Abhinandita Sahoo	Assistant Professor

118	Dr. Praveen Kumar	Assistant Professor
119	Prof.(Dr) V. Narsimha Reddy	Professor
120	Dr. Kalidindi Krishnam Raju	Associate Professor
121	Dr. Hari Ram Kumar Bandi	Assistant Professor
122	Mr. Durgadatta Mehera	Assistant Professor
123	Dr. Niranjana Kumar Chaurasia	Assistant Professor
124	Dr. Sudhanshu Bala Nayak	Assistant Professor
125	Mr. Ajit Kumar Sahu	Assistant Professor
126	Ms. Lipsa Dash	Assistant Professor
127	Mr. Manisankar Bera	Assistant Professor
128	Mr. Chandrasekhar Sahu	Assistant Professor
129	Prof.(Dr) K. Satya Krishna Prasad	Professor cum Dean
130	Dr. Devanand T. N.	Assistant Professor
131	Dr. Sambid Swain	Assistant Professor
132	Dr. Amrutha Gopan	Assistant Professor
133	Mr. Biswajit Mohanty	Assistant Professor
134	Mr. Avijit Biswas	Assistant Professor
135	Ms. Hauzoukim	Assistant Professor
136	Dr. Anita Patra	Professor
137	Dr. Subhendu Kumar Mishra	Associate Professor
138	Dr. Durga Prasad Padhi	Associate Professor
139	Dr. Parle Kalyan Chakravarty	Assistant Professor
140	Dr. S. Kameswar Rao	Assistant Professor
141	Mr. Kalee Prasanna Patnaik	Assistant Professor
142	Dr. Debi Prasad Satapathy	Assistant Professor
143	Mr. Amit Kumar	Assistant Professor
144	Dr. Prajna Pani	Professor
145	Dr. Susanta Kumar Patnaik	Assistant Professor
146	Dr. Girish Prasad Rath	Assistant Professor
147	Dr. Amir Prasad Behera	Assistant Professor
148	Nandakishore Ray	Asst. Professor
149	Smita Jana	Asst. Professor
150	Jagannath Padhy	Assistant Professor
151	Tofan Kumar Nahak	Assistant Professor
152	Dr. Santosh Kumar Nanda	Assistant Professor
153	Dr. Sivala Kumar	Professor
154	Dr. Gitanjali Behera	Assistant Professor
155	Dr. Shekhar Kumar Sahu	Assistant Professor
156	Dr. Santosh D.T.	Assistant Professor
157	Dr. Mitali Madhumita	Assistant Professor
158	Dr. Ruby Pandey	Assistant Professor
159	Dr. Sonam Sandeep Dash	Assistant Professor
160	Dr. Rajashree Jena	Assistant Professor
161	Dr. Prasanta Kumar Choudhury	Assistant Professor
162	Dr. Bhisma Narayan Rath	Assistant Professor
163	Dr. Satyabrata Nanda	Assistant Professor
164	Dr. Ashish Ranjan Dash	Associate Professor
165	Dr. Trilochan Penthia	Assistant Professor
166	Nanda Kishore Ray	Assistant Professor

167	Mr. Satyanarayan Padhy	Assistant Professor
168	Mr. Rajesh Kumar Misra	Assistant Professor

169	Ms. N. Jeevaratnam	Assistant Professor
170	Dr. Prafulla Kumar Panda	Associate Professor
171	Mr. Vignesh M.	Assistant Professor
172	Dr. Rajib Kumar Majhi	Assistant Professor
173	Dr. P. Srinivasa Rao	Professor
174	Mr. Mir Sadat Ali	Associate Professor
175	Dr. Sujit Mishra	Assistant Professor



Dr. Prasanta Ku. Mohanty  
Dean Academic



Prabhat K. Pattnaik  
FDP Coordinator









