



COLLEGE OF AGRICULTURAL ENGINEERING RAJENDRA AGRICULTURAL UNIVERSITY, BIHAR PUSA (SAMASTIPUR) 848125

Testing & Certification of Agricultural Machines

In post green revolution era, mechanization has been a very critical input for boosting agricultural production and productivity. Punjab, Haryana and Western part of U.P. contributed much for green revolution due to focus on agricultural mechanization. The increased power use in agriculture resulted into increased mechanization and further increased cropping intensity due to timeliness in operation; besides reduction in cost of cultivation were the important reasons behind smile on the faces of farmers.

Now, it is being realized that the second green revolution can only be brought, if the agricultural potential of north-east region be exploited judiciously. Amongst the state like Bihar, Assam, Bengal and Orissa, Bihar has the maximum agricultural potential for cultivation of almost all crops. Availability of ground and surface water in plenty, large human resource, plain topography of land are the basic factors which can push the agriculture of state on top in the country. With respect to mechanization, the state is lagging far behind the other states of western region and this is the fact that the government has paid specific attention for promotion of farm mechanization in Bihar. The subsidy scheme upon agricultural implements may help the farmers in purchasing useful machines but the biggest hurdle is the availability of quality machines followed by post purchase, repair and maintenance facilities.

At present, Bihar is a very strong market of agricultural machines for traders. Most of the machines are being purchased from manufacturers belonging from Punjab or Haryana. Although, some manufacturers of Bihar have come forward and they have started making machines, but in absence of proper quality evaluation system, the farmers are not confident as to, the machines being provided to them are of good quality or not. The government has laid down certain criteria where the manufacturers supplying machines under subsidy scheme must have test report either from FMTTI, Budni, Madhya Pradesh, CIAE, Bhopal or from College of Agricultural Engineering, RAU, Pusa.

It is a fact that the government of Bihar, manufacturers and the farmers, all are looking towards the College of Agricultural Engineering for testing of the agricultural machines either purchased or manufactured by them. The problems associated with the agricultural machines with respect to quality were very critically observed and analyzed by the Department of Farm Machinery, CAE, Pusa. After discussion at length with the authorities of the university, it was decided to start with the field evaluation of agricultural machines, manufactured by different manufacturers of state or outside after charging fee for the test work. The testing is conducted by a group of scientist and technical staff with the standard procedure following the principles of first come, first serve. The test report is supplied to the firm requesting for testing, on their demand. The testing is conducted as per test code developed at college level for different machines.

The basic objective behind starting operational testing and certification of agricultural machines at CAE, Pusa was to help the farmers as well as manufacturers by creating a FIM (Farmer, institution and manufacturer) chain management leading to a win-to-win situation for all partners. Under this management chain, scientists are supposed to



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provide knowledge input to the manufacturers in the process of upgrading their machines as per need of the farmers. Manufacturers are expected to make quality machines by incorporating suggestions of scientists provided under test report and the farmers being the last link of the chain are required to purchase quality machines as per their need.

The Rajendra Agricultural University, Bihar, Pusa (Samastipur) has therefore fixed fee for operational testing of different machines vide Office Order No. 152/CAE, Pusa dated 12.10.2009 which is available on website of the university www.pusavarsity.org. The Department of Farm Machinery has provided opportunity of getting their machines tested, to all manufacturers/ farmers of Bihar and outside.

Test fee

The test fee of agricultural machines and guidelines for application for testing is mentioned as under the Office order No. 152/CAE, Pusa dated 12.10.2009 is annexed.

The facility of testing of agricultural machines by the Rajendra Agricultural University, Pusa is open for all (manufacturers, farmers or institutions). The Department of Farm Machinery feels pleasure to contribute for the cause of people by providing reliable test report prepared upon testing of supplied machines.



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40

O.P. NO. : 01-7/2009/CAE/0040 152/100/109 Dated : 12.10.2009

OFFICE-ORDER

On recommendation of the committee duly constituted vide O.O. No. IV/Res/2009/115/RAU dated 11.08.2009 for fixing the test-fee of quality testing of different agricultural machine as well as processing equipment at College of Agricultural Engineering, RAU, Pusa, the Vice-chancellor, RAU, Pusa has been pleased to approve the test-fee of different agricultural machine in the manner prescribed below:

| S. No. | Name of equipments/ implements/ machine | Test-fee (each item), Rs. |
|--------|--|---------------------------|
| 1. | Hand tools | 3000.00 |
| 2. | Power operated thresher, sheller, winnower, Decorticator | 15000.00 |
| 3. | Animal drawn equipments | 5000.00 |
| 4. | Manually operated equipments | 5000.00 |
| 5. | Tractor drawn implements/ equipments (Plough, Harrow, Rotavator, Sprayer, Reaper, Duster etc.) | 20000.00 |
| 6. | Power tiller driven/ self propelled reaper | 12500.00 |
| 7. | Tractor drawn seed-cum-fertilizer drill/ planter/ straw reaper etc. | 22500.00 |
| 8. | Mini Dal-mill/ Mini Rice-mill | 25000.00 |
| 9. | Power cleaner/ dryer/ grader etc. | 22500.00 |
| 10. | Power operated multi crop thresher (2 or more crops) | 25000.00 |
| 11. | Power weeder | 10000.00 |

The test-fees collected from the different firms in form of Bank Draft/ Demand Draft in the name of **Dean, Faculty of Agricultural Engineering, RAU, Pusa** shall be deposited in revolving Account No. 212292, Faculty of Agricultural Engineering, RAU, Pusa payable at Punjab National Bank, RAU, Pusa. On receipt of Demand Draft, the concerned department will take over the testing work as per provisions of statutes and fixed norms.

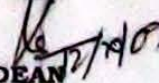
By order of the Vice-chancellor


DEAN

Copy to the Assistant Comptroller/ Accountant, FAE, Pusa/ All heads of the Departments, CAE, Pusa for information and necessary action.

Memo No. 601/CAE/Pusa.

Date 12.10.2009


DEAN

Copy to Secretary to Vice-chancellor for kind information to the Hon'ble Vice-chancellor, RAU, Pusa.


DEAN