

Activities of Agriculture and Farmers Welfare Department, Haryana

Engineering Section

Haryana is one of the leading states for Agriculture production in the Country. It is now heading towards a better future by adopting latest technology including Agricultural Mechanization and assured irrigation through tubewells. Agricultural Engineering wing every year lays down new land marks in the following fields: -

1) Scheme for Promotion of agricultural mechanization under RKVY, Crop Diversification, State Plan, NFSM and ISOPOM Schemes

The objectives of the scheme are as under:

- ✓ To reduce the cost of cultivation.
- ✓ To ensure timeliness of operations.
- ✓ To increase the productivity and production of food grains.
- ✓ Judicious use of farm inputs e.g. Seed, fertilizer, Pesticide, Irrigation Water, Fungicides etc.
- ✓ To remove the drudgery of labour.
- ✓ To improve the financial status of the farmers.

Department provides latest Agricultural Implements/Machinery on subsidy to the farmers of the state under different Centrally/State Sponsored schemes. During the year 2015-16 following implements will be provided on subsidy @ 50% under the different Schemes:

A. Rashtriya Krishi Vikas Yojana & Other Mechanization Schemes

i) Promotion of resource conserving technologies:

Under this Scheme **Happy Seeder, Laser Land Leveler, Cotton Seed Cum Fertilizer Drill Machine, Raised Bed Planter, Mulcher, Multi Crop Planter/ DSR /Multi Crop Seed Drill. Rotavator/Rotary Plough, Zero till seed drill cum fertilizer, Straw Reaper, Reaper Binder, Disc Harrow, Straw Baler, Multicrop Thresher, Hand Operated Sprayer, Battery Operated Sprayer, Tractor Mounted Sprayer, Trench Planter, Ridge Planter, Bullock Drawn Tractor Power Tillers, Sub soiler, Reversible Plough, Hay Rake, Straw Chopper, Straw Shredder cum Slasher** etc are to be provided 40 and 50% subsidy to the farmers of general and SC category respectively.

ii) **Sub Mission on Agricultural Mechanization**

Under the scheme there is a provision for providing Agricultural Implements on subsidy specially for crop residue management. The implements to be provided are given in the list at Annexure A. There is provision of funds to the tune of Rs. 78 Crore during the year 2017-18. During the year 2016-17 5 no. of Custom Hiring centers have been established under the said scheme

2) **Precision leveling of farmers field with the help of Laser land levelers on Custom Hiring Basis.**

The objectives of the scheme are as under: submitted

- ✓ To precisely level the farmers field with the help of Laser land levelers.
- ✓ Saving of valuable irrigation water
- ✓ Saving of Valuable Farm inputs such as fertilizers, Pesticides, Fungicides, seed etc.
- ✓ Increase in production by 4-6%.

The Engineering Section is providing laser land leveler along with tractor and operator to the farmers at nominal rates (i.e @ Rs 1075 per day) as it is not viable for individual farmers to purchase such costly and delicate equipment their own. Moreover, work done/Area leveled by the Agriculture department is precisely leveled as staff is properly trained and is having good experience in running laser land levelers. During the year 2016-17 a total of 27671 acres of land has been precisely leveled by Department with an income of Rs 5255985. A target of 62000 acres have been kept for the year 2017-18.

3) **Scheme for implementation of National Biogas and Manure Management Programme**

The objectives of the scheme are as under: submitted

- ✓ To provide fuel for cooking purposes and organic manure to rural households through family type biogas plants.
- ✓ To mitigate drudgery for rural women reduce pressure on forests and accentuate social benefits.
- ✓ To improve sanitation in villages by linking sanitary toilets with biogas plants.

The need for developing new and renewable sources of energy has drawn worldwide attention of the scientists Planners and economist. In view of the fact that the existing fossil resources of energy are fast depleting cattle dung form the primary sources of meeting fuel needs of the rural population. This has resulted in the introduction of biogas plants from the

dung. Besides providing fuel and fertilizer, the biogas plant adds to the general cleanliness of the villagers.

Since the inception of the programme from 1982, 59713 No. of biogas plants have been installed in the State up to March, 2017. Subsidy on installation of biogas plants @ Rs. 5500/- on 1 Cum Plants and Rs 9000/- on 2-6 cum plants for general category and @ Rs. 7000/- on 1 Cum Plants and Rs 11,000/- on 2-6 cum plants by is being provided by Govt. of India. **452 plants were installed during the year 2016-17 against a target of 1000 plants.** A target of installation of 1000 nos. of Biogas plants has been fixed for the year 2017-18.

Keeping in view the availability of dung and requirement of gas, the capacity of the biogas plant can be selected from the table given below.

Capacity of the Plant (cum/day)	Daily requirement of dung(Kg.)	No. of cattle Required	Cooking for No. of persons	Approximate Cost (in Rs.)
2	50	4-6	5-8	16500
3	75	7-9	8-12	19500
4	100	10-12	12-16	22500
6	150	14-16	16-18	26000

The department, of Agriculture is looking after the installation of family size biogas plant whereas the department of Renewable Energy, Haryana/HAREDA, installs Goshala and community/institutional type biogas plants.

4) Scheme for Installation & Development of Deep & Shallow Tubewells

The objectives of the scheme are as under:

- ✓ Installation of new tubewells using high-tech. machinery so as to ensure economical use of diesel or electrical power and improved efficiency.
- ✓ Development of old tubewells by developing them with high-pressure air compressors. By doing so, the discharge (for same power input) increases.

The department has been helping the farmers in the installation of high efficiency tubewells for assured irrigation. The Engineering Section is providing tubewell boring facilities/services to the farmers at nominal rates so that the private boring parties may not exploit the farmers by charging higher boring rates. Moreover, the quality of tubewells installed by the Agriculture department is very high because of use of high tech. boring machinery. This work is done by using Rock drilling machines, Reverse Rotary machines and Percussion rigs

etc. The new/old tubewells are developed with the help of high-pressure air compressors to increase the discharge. In year 2016-17 12 no. of T/wells have been installed & 23 no. of T/wells have been developed a target of installation of 120 no of tubewell and 125 no for development of tubewells respectively. During the year 2017-18 a target of installation of 120 no of tubewell and 125 no for development of tubewells has been kept.

State Scheme “Promotion of Cotton Cultivation in Haryana State”

The Scheme is implemented in the Cotton growing Districts of the State namely Sirsa, Hisar, Fatehabad, Jind, Bhiwani, Rohtak, Jhajjar, Rewari, Mahendergarh, Sonapat, Palwal and Kaithal. The objective of the scheme is to increase production and productivity of Cotton. The main activities under the scheme done are as Promotion of cotton varieties, Production of foundation and certified Seeds, Supply of Manually, Power and Tractor mounted Spray Pumps, Cotton Seed Drill, Sprinkler Set, Drip Irrigation with Water Tank, Farmer Trainings, Farmer Schools, Kisan Mela, Kapas Divas, Front Line Demonstrations on specific Technology, INM and IPM, Training of Officers, Exposure visits of Farmers and Extension Officers. An outlay of Rupees 350.00 lakh has been approved during the year 2017-18. It has been planned to cover 6.35 lakh hectare area, a target of 25.86 lakh bales with productivity 692 Kg per hectare during 2017-18. Achievement of area, production and productivity was 5.70 lakh hectares, 20.24 lakh bales and 609 Kg per hectare respectively during the year 2016-17.

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Soil Conservation

MARKETING SECTION

Marketing section deals with development aspects of marketing of Agricultural produce in the State. Agricultural Development Officers (Marketing) and other extension staff working in the field take up the marketing work to educate the farmers about improved marketing practices, to get them able to sell their agricultural produce at proper time and place to get a better price. Market data/information pertaining whole-sale & retail prices of various agricultural commodities, marketable surplus and day to day mandi arrivals, price trends are collected from selected mandis of the State. Information related to market is daily transmitted through telephone and NICNET for dissemination for the benefit of farmers and consumers through All India Radio in Krishi Jagat Programme & T.V. Doordarshan. The daily whole-sale/retail modal rates of important Agricultural commodities are being collected by field staff from the selected mandis of the State and communicated through telephone for broadcasting at All India Radio Station, New Delhi, Rohtak, Kurukshetra and T.V. Doordarshan Kisan Channel, Hisar for the benefit of farming community. The Agmarking certifications are done through Directorate of Marketing and Inspection Chandigarh and New Delhi, Govt. of India on recommendation of Agriculture Department. The State has well developed infrastructure (106 Principal Yards, 178 Sub Yards and 188 Purchase Centers) to facilitate the farmers to sell their produce within their reach. Seven Agmark Laboratories working as at Faridabad, Sonapat, Hisar, Jagadhri, Karnal, Ambala and Rohtak with the approval of Agricultural Marketing Adviser, Directorate of Marketing and Inspection, Govt. of India. Agriculture Development Officers (Marketing) work in these laboratories to take up Agmark Grading work of Mustard Oil, Wheat Flour, Honey and spices. The agriculture Department through its Marketing Section implements the Acts & rules made there under (Haryana Cotton Ginning and

Processing Factories Act 1992 and rules 2005) for improving the quality of Cotton Ginning and Pressing Factories. As many as 168 Cotton Ginning factories are operating in the state. Fixation of Ginning and Pressing charges under section 13 of Haryana cotton ginning and pressing factories Act, 1992 (Act of 1993) & under rules 2005 are notified and conveyed to Cotton Corporation of India and concerned quarter. Crop wise arrival and procurement during 2016-17 and 2017-18 is Annexed at A. A New Plan Scheme for the Reimbursement of VAT Plus Market Fee under Price Support Scheme to Hafed under Major Head 2401-Crop Husbandry has already been formulated for the procurement of Sunflower seed and Mustard at MSP. A series of meetings has already been held to execute the scheme and for opening of Head of Account and making supplementary budget provision is under process with State Government.

NATIONAL E-GOVERNANCE PLAN- AGRICULTURE

At State level, an average figure of 20 has been indicated. This number may vary from 15 to 25 from one State to another depending on the size of the State and potential of utilisation. Exact State-wise numbers will be conveyed separately. 5 Computers at District level are to be distributed among Agriculture, Horticulture and Fisheries (wherever applicable) Departments. Certain States have less number of Blocks but a large area and number of operational holdings. For the States having a ratio of Number of Operational Holdings / Number of Blocks in excess of 25000, a lump sum provision has been kept to give additional computers & UPS at District / Block level subject to reasonable justification to be given by the State Government concerned. 3 computers at Block level are to be distributed among Agriculture, Horticulture and Fisheries (wherever applicable) Depts. While distributing existing hardware already available needs to be considered. Network Switch at the State Agriculture Department and district level will be of 24 ports while that at the block level will be of 8 ports. At the block level, a 650 VA UPS with 800 VAH back-up has been taken into account to provide back-up for up to 4 hours. Hand-held devices for pest surveillance have been provided for @ 1 for every 2 blocks. These devices will be used through Block Technology Managers / Assistant Technology Managers in tandem with hand-held devices procured under ATMA. BTMs and ATMs can also act as Pest Scouts to maximise outreach.

Independent Pest Scouts will also be provided these devices. At the Block level, one Touch Screen Kiosk per two Blocks has been considered. States will identify the blocks where Kiosks are to be given. Connectivity Charges to the tune of Rs. 11000 per year for a period of three year is earmarked for each block as well as District headquarters. An amount of Rs. 7500 per block, Rs.10, 500 per district headquarter and Rs. 30,000 per State head quarter per year has been kept for consumables like printer cartridges etc. for a period of three years. One pilot Mandi will be identified by each state to be provided with Servers, Desktops, UPS, Printer & Handheld devices. Inter-item change can be made based on actual requirement subject to overall ceiling of project cost.