

सिंचित भूमि है तथा देश में सिंचाई भूमि की औसत प्रतिशतता क्या है ;

(ख) 1978-79 में उपर्युक्त राज्यों में सिंचाई के अन्तर्गत अधिक भूमि लाने के लिए केन्द्रीय सरकार ने किसनी सहायता दी है ; और

(ग) सिंचाई के अन्तर्गत और अधिक भूमि लाने के लिए 1978-79 में आरम्भ को जाने वाली उन अन्तर्राज्यीय सिंचाई परियोजनाओं की संख्या कितनी है जिनके लिए केन्द्रीय सरकार ने सहायता दी है ?

कृषि और सिंचाई मंत्री (श्री सुरजीत सिंह बरनाला) : (क) मध्य प्रदेश, राजस्थान, गुजरात और महाराष्ट्र में 1974-75 के दौरान सफल कृषिगत क्षेत्र की तुलना में सकल सिंचित क्षेत्र की प्रतिशतता 8.3, 20.0, 17.5 तथा 9.9 थी जबकि अखिल भारतीय औसत 25.5 थी।

(ख) राज्यों की वार्षिक योजनाओं के लिए केन्द्रीय सहायता ब्लाक ऋणों और अनुदानों के रूप में दी जाती है और यह किसी विशिष्ट स्कीम, उप-क्षेत्र अथवा विकास शीर्ष से संबंधित नहीं होती। इसलिए सामान्य केन्द्रीय सहायता में से कोई धन राशि राज्यों की सिंचाई स्कीमों के लिए विशेष रूप से आवंटित नहीं की गई। परन्तु कुछ राज्यों की कुछ चुनी हुई निर्माणाधीन परियोजनाओं और 1977-78 की वार्षिक योजना में शामिल कुछ नई सिंचाई परियोजनाओं के निर्माण कार्यों में तेजी लाने के उद्देश्य से अनिश्चित योजना परिव्यय को पूरा करने के लिए अग्रिम योजना सहायता दी गई। 1978-79 के लिए अभी तक ऐसी कोई व्यवस्था नहीं की गयी है।

(ग) 1978-79 के दौरान 16 अन्तरराष्ट्रीय वृहद और मध्यम सिंचाई स्कीम क्रियान्वित की जाएगी।

Development of Cheap Solar Cooker by I.C.A.R.

5265. SHRI G. S. REDDI : Will the Minister of AGRICULTURE AND IRRIGATION be pleased to state :

(a) whether any of the research institutions under the Indian Council of Agricultural Research has developed a cheap solar cooker particularly for rural areas ;

(b) if so, details thereof; and

(c) what effort has been made to produce this commercially ?

THE MINISTER OF AGRICULTURE AND IRRIGATION (SHRI SURJIT SINGH BARNALA) : (a) Sir, The Central Arid Zone Research Institute (ICAR), Jodhpur has designed fabricated and tested five different solar cookers.

(b) Of the five solar cookers, two of them are of Hot box type, two reflected type and one involves the principle of flat plate collector. Testing of these cookers have shown that Hot box type cooker and solar oven have the greatest promise due to their efficiency of operation and ease of construction with local skill and material. The details of the Hot box type cooker and solar oven are given in the Annexure.

(c) A reference in this regard is being made to the National Research Development Corporation.

Statement

Hot Box type

The Cooker developed at CAZRI, Jodhpur consists of a double walled box (Basal area is 45x45 cm.) with outer wall made of teak wood (1.25 thick and inner wall made of blackened, galvanized iron sheet of 20 gauge with 3.75 cm fibre glass insulation in between). The type of this box contains two clear window glass (each 3 mm thick), 16 x 55 cm. with a spacing 5.0 cm. in an air-tight wooden frame hinged on one side. The angle of the reflector and its position relative of sun can be changed as and when required.

2. *Solar Oven*

In the solar oven fabricated at Central Arid Zone Research Institute, Jodhpur eight reflectors are used. This solar oven consists of a wall insulated semi-cylindrical form, made of aluminium sheet and wood. Two shells are made and the space between them, 7.5 cm is filled with fibreglass insulation. The interior shell is painted black. A door of the same insulating material is also made for keeping and taking out the food. The window (40 x 40 cm.) of the oven consists of two transparent glass sheets (3 mm thick) with a spacing of 2.0 cm. Eight reflectors, made of silvered glass mirrors, four of square shape and four of triangular shape, have been used. A cradle like cooking platform is made in the oven which helps in keeping the vessel containing food horizontal irrespective of the inclination of the oven. Two vessels containing food at a time can be placed on this platform.

Production of Onion And Potato

5266. SHRI AMAR SINGH V. RATHAWA : Will the Minister of AGRICULTURE AND IRRIGATION be pleased to state :

(a) what is the total production of onions and potatoes during the last three years in Gujarat and in other States :

(b) what steps have been taken to increase production of potatoes and onions in Gujarat and in other States; and

(c) what is the target of their production in Gujarat and other States during the years 1978 and 1979;

THE MINISTER OF AGRICULTURE AND IRRIGATION (SHRI SURJIT SINGH BARNALA) : (a) (i) ONION : Estimates of production of onion in the country are not available.

(ii) POTATO : The total production of potatoes during the last three years in Gujarat and in other States has been as under :—

(Production in '000 tonnes)

State	1974-75	1975-76	1976-77
Gujarat	110.4	105.2	206.6
Uttar Pradesh	2138.8	2505.9	254.7
Punjab	448.4	497.0	580.0
Haryana	277.3	211.5	187.4
Bihar	948.6	1414.1	1341.2
West Bengal	1354.9	1615.5	1657.2
Madhya Pradesh	260.6	217.0	173.2
Himachal Pradesh	71.6	76.1	84.4
All India	6225.4	7306.0	7287.0

(b) (i) ONION : There is no Centrally Sponsored Scheme on onion under implementation at present. However, in some of the onion growing States, Department of Agriculture/Horticulture distribute good quality seed and advise the farmers on the cultivation techniques of the crop through their normal extension agencies.

(ii) POTATO : Supply of disease free potato seed is one of the most important factors in increasing production. The programme of good seed production and requirements of all potato growing States including Gujarat is properly monitored twice every year. The variety-wise production programme of breeders, foundation stage-I, foundation stage II and certified seeds by different organisation and States of the country is carefully chalked out. The seed so multiplied is distributed to the growers. Besides, the State Governments have been advised to launch a motivational campaign to increase the production of potatoes through the following measures :—

(i) Adoption of full package of practices over large area.

(ii) To increase the coverage under improved varieties of potatoes, and

(iii) To increase the area under the crop.

(c) (i) ONION : No production targets have been fixed for onion during 1978 and 1979, either for Gujarat or for other States.

(ii) POTATO : The Centre has been impressing upon the States including Gujarat to increase their area and pro-