



Government of India
Ministry of Agriculture & Farmers Welfare
Department of Agriculture & Farmers Welfare
(MIDH Division)

INSPECTION TEAM REPORT

“Centre of Excellence for Vegetables at Nurabad, Morena, Madhya Pradesh”



Submitted By:

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Report of the Inspection Team visited to CoE, Morena during 14-15 January, 2023 to review the progress of Centre of Excellence for Vegetables at Nurabad, Morena, Madhya Pradesh.

An Inspection Team comprising of Shri Pankaj Sharma, Assistant Director and Shri. Chirag Bhatia, Consultant (MIDH) visited Madhya Pradesh during 14-15 January, 2023 to review the progress of Centre of Excellence for Vegetables at Nurabad, Morena, Madhya Pradesh sanctioned under Indo-Israel action plan in the financial year 2020-21.

Objective of the visit:

It may be mentioned that Centre of Excellence for Vegetables at Nurabad, Morena, Madhya Pradesh was sanctioned under Indo-Israel action plan during 2020-21 with a cost outlay of Rs. 969.27 lakhs. During the review meeting held in Krishi Bhawan on 11.01.2023 to review the progress of Indo-Israel CoEs it was informed by MASHAV representatives that during the visit of Mr. Yair Eshel, Agriculture Attache MASHAV to CoE Morena during December 2022 some suggestions were given to the SHM officials for effective implementation of the project and making it self-sustainable but no steps have been taken by the State in this regard so far. Therefore, during the CoE review meeting held on 11.01.2023, JS (Horticulture) directed that a team from GoI should visit the CoE Morena to physically verify the activities completed in the said CoE and point out the issues if any with their possible solutions.

Accordingly, a team comprising of Shri Pankaj Sharma, Assistant Director and Shri. Chirag Bhatia, Consultant (MIDH) visited CoE Morena on 14-15 January, 2023.

Summary of Visit Programme:

Date	Agenda	Timing
14.01.2023	Meeting with State Horticulture Mission, Madhya Pradesh officials	02:00 PM to 05:00 PM
15.01.2023	Onsite visit to CoE Morena along with State Officials	10:00 AM to 05:00 PM

During 14.01.2023 i.e. on the first day of the visit a meeting was held between GoI officials and SHM, Madhya Pradesh officials in Gwalior, Madhya Pradesh to discuss about the recommendations made by MASHAV officials with their possible solutions. Concluding remarks of the meeting held on 14.01.2023 has been summarised below.

1. It was decided that SHM, Madhya Pradesh will share the progress report of the said CoE to MASHAV and MIDH in response to the report received from Israeli counterpart.
2. MASHAV in its report has requested installing hi-tech polyhouse (1500m²), 4 additional walk-in-tunnel, sand filters, drip irrigation in open fields, re-installation of weather station, fabrication of net house with transparent color mesh and proper construction of pathways in polyhouse. It was decided that the construction of the said infrastructure will be met from the existing funds of the CoE and no additional allocation of the budget will be made for the same.
3. It was decided that SHM, Madhya Pradesh will submit component-wise expenditure breakup of the CoE with MIDH Division.
4. To expedite the establishment work of civil structures in the CoE, it was decided that another field visit of GoI officials will be organised in first week of March, 2023.
5. It was decided that the said CoE will be made functional and operational by March, 2023. It was also proposed to schedule the inauguration of the said CoE by March, 2023.

On the next day a field visit was organized on 15.01.2023 to the CoE premises to examine the progress of civil infrastructure and to inspect the installation of various components as per Detailed Project Report. The observations of the field visits has been listed below.

S. No.	Particulars	Number of structure	Area of structure (In m ²)	Estimate Amount (In Rs. Lakhs)		Remarks
				DPR	MIDH	
A	Infrastructure					
1.	Hi-Tech Climate controlled Polycarbonate seeding Greenhouse	1	500	125.00	8.25	Work completed, however, MASHAV has suggested to install Hi-tech nursery polyhouse in additional 1500 m ² area.
2.	Naturally Ventilated Green House with Thermal Screen	2	1000	30.00	18.70	Work completed.
3.	Walk in Tunnel	2	450	40.00	5.40	Work completed, however MASHAV has suggested to install 4 additional walk in tunnels.
4.	Insect Proof Net house	2	1000	60.00	14.20	Work completed, however, MASHAV has requested to refabricate the net house with transparent color mesh.
5.	Civil structure for CoE (Administrative, Staff Quarters, Testing, Hostel, etc)	-	2000	600.00	500.00	90% of the work completed with construction of administrative building, hostel and staff quarters. Constructed area of civil structure is 1750 m ² . Smart class is under construction.

B	Irrigation and Fertigation Systems					
6.	Advance Fertigation auto water ferti mix		2	86.20	86.20	Installed.
7.	Auto Sand filter & accessories		2	13.00	13.00	Not installed.
8.	Irrigation & Fertigation System & components sand & flushing Filter weather station		1	14.00	14.00	Only weather station has been installed however, MASHAV has suggested to install weather station in open area. The remaining components have not been installed.
9.	Micro Irrigation- Drip Irrigation, Fitting & accessories		8000 m2	10.00	10.00	Installed in all the protected cultivation structures.
10.	Water Tank R.C.C		20,000 ltr	04.00	04.00	Work completed.
11.	Water Filter		1	14.60	14.60	Installed.
12.	Pond deepening			05.00	5.00	Work completed.
13.	Machinery & Equipment.			06.75	06.75	Work incomplete.
D	Other Infrastructure- Components					
14.	Room for computerized fertigation system		55 m2	05.00	5.00	Work completed.
15.	Packing shed with cold chamber		20x40	08.00	8.00	Work completed.
16.	Vermi- compost Unit		500 m2	07.00	7.00	Not installed.
17.	Incubation Facility for Farmers (sorting & Grading) Fully quipped		1000 m2	100.00	100.00	Sorting and grading facility has been installed. Incubation centre has not been developed.
18.	Soil Solarization area with steam Generation system		200 m2	18.00	18.00	Work completed.
19.	Store Room with exhaust fan & ceiling fan & light		55 m2	05.58		Component not sanctioned.
20.	Housing for generator Unit		12x15	26.44		Work completed.
E	Electrification (D)					
21.	Genset with AMF Panel and Electrical accessories		1	31.17	31.17	Installed.

In view of the discussion held with the SHM officials to find possible solutions for the directions of MASHAV. The recommendations of the inspection team are as under:

- In view of the recommendation of MASHAV regarding installation of additional hi-tech polyhouse of 1500 m², it was observed that CoE has an existing hi-tech polyhouse in an area of 1000 m² which needs only renovation and will serve the purpose.
- As per the recommendations of MASHAV weather station should be installed in open area instead on rooftop of computerized fertigation system room.
- Removal of weeds from CoE premises is essential. SHM, Madhya Pradesh shall provide weeding machine to the CoE at the earliest and further, procurement of machinery and equipment needs to be expedited.

- SHM, Madhya Pradesh shall construct additional 4 walk-in-tunnels, shall refabricate net house with transparent color mesh, shall install water filters in 20,000 litres capacity water reservoir and shall concrete pathways inside the Hi-Tech nurseries.
- Parking area shall be developed at the entrance of the CoE and it is desired to construct pathways inside the CoE premises.
- Electrification of the CoE is very essential. The same has to be done within 1 week.
- The drip irrigation in open field as suggested by MASHAV shall be installed and made functional once the cultivation of the crops is started in open fields.
- Adequate staff has to be sanctioned for CoE Morena
- SHM should also find possibilities for maintenance of CoE by any company/firm having expertise in CoE operation which will help CoE staff in CoE operation and make it sustainable.
- SHM should make the CoE operational before 31.03.2023 and send the request for its inauguration in the current FY only.

In order to fulfil the above-mentioned recommendations, SHM may be informed that no additional funds will be given by Government of India. However, SHM may be requested to explore the possibilities for savings which can be done from the approved plan and accordingly may send a request for revision of CoE project duly incorporating the above-mentioned recommendations.

Onsite verification of the Infrastructures created at the CoE, Morena



Hi-Tech Polycarbonate Greenhouse - 500m² (1) Naturally Ventilated Polyhouse (2)



Walk-in-tunnels (2)



Insect Proof Net house



Administrative Building (Outside)



Administrative Building (Inside)



Staff Quarters



Hostel Building



Advance Fertigation Auto Water Mix (2)



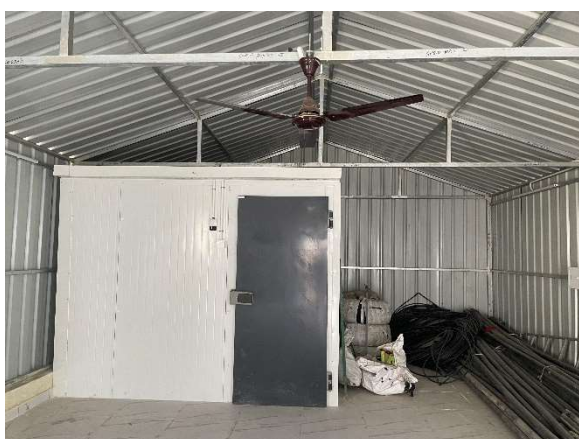
Computerized Fertigation System



Weather Station



Water Tank R.C.C.



Packing Shed with cold chamber



Water Filter Unit



Sorting and Grading Unit



Soil Solarization unit



Inspection with SHM, Madhya Pradesh officials



Inspection with CoE staff



Open Fields in CoE



Genset with AMF Panel