Model Nursery of Arid Forest Research Institute (AFRI) is located at Krishna Nagar near M/S Narpat Petrol pump New Pali Road (NH 62), Jodhpur about one kilometer away from AFRI main campus. Modern nursery complex area is 6.4 hectares. Topography of the nursery site is flat and the soil is loamy sand. The nursery is protected by barbed wire fencing and 6 feet stone wall. It is having state-of art infrastructures and facilities to produce quality planting stocks of arid and semi arid zones forestry species, important medicinal plants, ornamental plants and many fruit bearing tree species.

Every year about 50,000 plants of dry areas species, ornamentals, avenue trees and about 10,000 medicinal plants are being produced in the nursery. These plants are mainly being supplied to user agencies like State Forest Departments, various government organizations, NGOs, farmers and numerous educational institutes located in Rajasthan and neighboring states. Trainings on nursery techniques, plantation techniques and planting stock improvement are also being imparted to all these user agencies regularly by the scientists and forest officers. On the initiative of present Director, AFRI, organically high quality Neem leaves and mixed leaves compost is also being prepared and sold in the nursery.

Infrastructure and Facilities

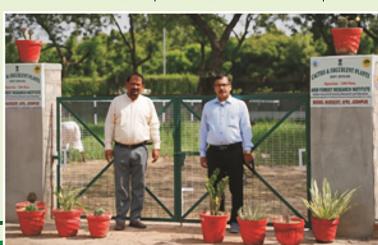
Shade Houses: Total five shade houses using agro net (70:30) on angle iron structure have been constructed with sprinkler system of irrigation to facilitate proper and uniform watering to the seedlings. Shade houses are earmarked for the types and uses of the plants.

Organic Compost Unit: Compost is being produced from Neem leaf and other litter using aerobic method of decomposition. Compost is being sold after testing in the lab for nutrient status and branding. The nursery also has a vermi-compost unit.

Concrete Seed or Mother Bed Structure: Permanent raised bed structures of the dimension 10 m x 1 m x 1.8 m are available in the AFRI Model Nursery. These beds are filled with suitable mixtures for seed germination.

Glass House: A glass house equipped with temperature and moisture control system has been constructed for cuttings/grafting purposes.

Cactus and Succulent Plants Garden: This facility is being established recently (2019-20) as per the present Director's vision. It is enriched with more than 200 species of Cactus and Succulent species collected from various parts of country.



Arboretum: 85 important tree species of arid and semi-arid regions have been planted in 2.5 ha area adjoining to nursery.

Medicinal plant Garden: A germplasm bank of 79 species of medicinal plants has been established along with display of botanical names and their uses. This medicinal plant garden is being used in training for Forest Department personnel, students and farmers. Medicinal plants are mass propagated and sold to public on demand basis.



Vegetative propagation: Vegetative propagation is a tool for multiplication of genetically identical plants of superior varieties called clones. At AFRI nursery vegetative propagation methods like rooting of stem cuttings using plant hormones, air layering and bud grafting are practiced to propagate species like Gugal, Nimbu, dwarf and thornless Thar-Sobha Khejri.

Production of seedlings and sale

Superior planting stocks of various forestry species, medicinal plants, ornamental and fruit bearing plants are being produced regularly and sold to various user agencies within and outside state.

*Seedlings of various sizes are sold at following rates:

	Species	Polybag Size	Seedling height	Rate (Rs.) of Seedlings
Γ	All Plants Species	10 cm x 10 cm	< 1.0 Feet	15
		10 cm x 20 cm	1.0-2.0 Feet	40
		15 cm x 25 cm	> 2 Feet tall	80



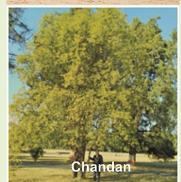
I. Common Forestry tree species seedlings available in the Nursery

	S. No	Local Name	Botanical Name	
	1	Desi babool	Acacia nilotica	
	2	Khair	Acacia catechu	
	3	Satvan	Alstonia scholaris	
	4	Neem	Azadirachta indica	
	5	Shisham	Dalbergia sissoo	



S. No	Local name	Botanical name	
6	Gulmohar	Delonix regia	
7	Gamhar	Gmelina arborea	
8	Barh	Ficus benghalensis	
9	Pipal	Ficus religiosa	
10	Karanji	Pongamia pinnata	
11	Khejri	Prosopis cineraria	
12	Lal chandan	Pterocarpus santalinus	
13	Chandan	Santalum album	
14	Rohida	Tecomella undulata	
15	Arjun	Terminalia arjuna	
16	Jaal	Salvadora spp.	
17	Kumat	Acacia senegal	





II. Medicinal plants sold in Nursery





S. No	Local name	Botanical name		
1	Gwarpatha	Aloe vera		
2	Guggul	Commiphora wightii		
3	Ashvagandha Withania somnifera			
4	4 Bansa Adhatoda vasic			
5	Mopane	Colophospermum mopane		
6	Patta ajwain	Plectranthus amboinicus		
7	Tulsi	Ocimum sanctum		
8	Meetha neem	Murraya koenigii		
9	Vajradanti	Barleria prionitis		
10	Shatavari	Asparagus racemosus		
11	Bhakar aak	Calotropis gigantea		



III. Fruit yielding plants/Horticulture/ornamental plants sold in nursery

Local Name Botanical Name		Local Name	Botanical Name	
Local Hame	Botamour Name	Local Name	Botamour Hame	
Aonla	Emblica offcinalis	Bougainvillea	Bougainvillea spp.	
Goonda	Cordia myxa	Harsingar	Nyctanthes arbortristis	
Sitafal	Annona squamosa	Semal	Bombax ceiba	
Nimbu	Citrus limon	Saptapami	Alstonia scholaris	
Jamun	Syzygium cumini	Paraspipal	Thespesia populnea	
Imli	Tamarindus indica	Sahjan	Moringa oleifera	
Khari Badam	Terminalia catappa	Chandini	Tabernemontana divaricata	
Ber	Ziziphus mauritiana	Kaner lal	Nerium indicum	
Khirni	Manilkara hexandra	Adenium	Adenium obesum	
Shahatoot	Morus alba	Kathal	Artocarpus heterophyllus	

IV. Rates of various types of composts sold at AFRI Model Nursery *

Quantity of purchase	One kg to 100 kg (retail)	101 to 200 kg bulk	201 kg & above bulk	
Simple Neem Leaf Compost manure Rate (Rs)	20	16	14	
Value added Neem compost (Trichoderma, PSB/AM etc) rate (Rs)	25	20	15	
Mixed leaf compost rate (Rs)	15	12	10	
Particular	Sold in branded packed bag 5kg	Bulk sales done or without bags. be done by nurs free of cost.		

*Rates of seedlings/compost manure are subject to revision from time to time







Purchase of Neem Leaf Compost and Seedlings of various plant species by farmers



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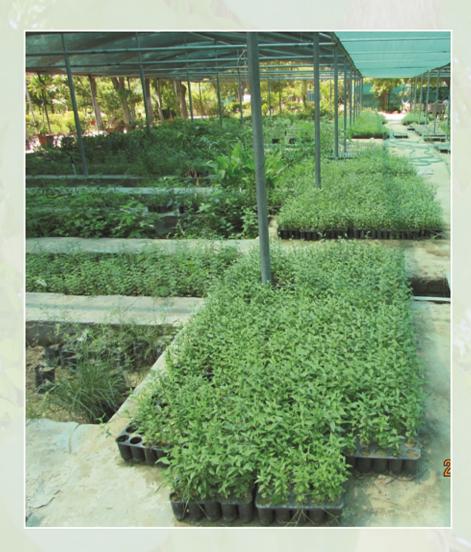
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