

Interaction with Field Officers on Medicinal Plants in JICA project area

**JBC, JICA FUNDED PROJECT FOR IMPROVEMENT OF HP
FOREST ECOSYSTEMS MANAGEMENT & LIVELIHOODS**

WHY THIS PROJECT ??..

- **FSI Report of 2015- Status of Forests in HP.**
 - **Scrub to Open to Moderately Dense to Very Dense.**
 - **Sustainably-managed forests supporting livelihoods and providing many other ecosystem services, such as carbon storage, combat soil erosion and flood risk mitigation in project area.**
 - **Non-forest based livelihood activities, help to diversify income sources, increase household income & reduces dependence on forests.**
 - **Making Local communities partners in Management of the forest resources.**

Who are the stakeholders ???

- **HPFD**
- **Communities**
- **Users of the Forest Resources**
- **PIHPFEM&L(JICA Funded) staff**

AIM OF THE PROJECT

Improvement of Forest Ecosystems Services for Sustainable Socio-Economic development of the project area in Himachal Pradesh.

Aim of JBC: Sustainable NTFP based IGA to increase HH income, provide easy market access and conservation of wild stock of NTFP.

OBJECTIVES

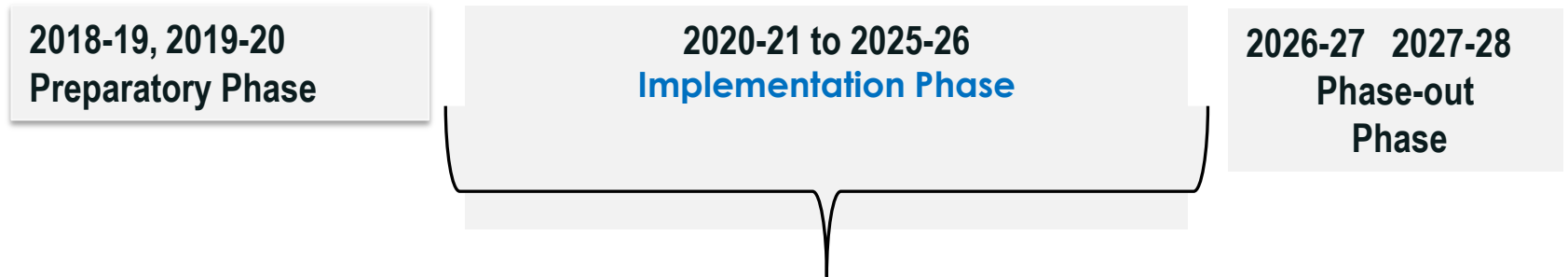
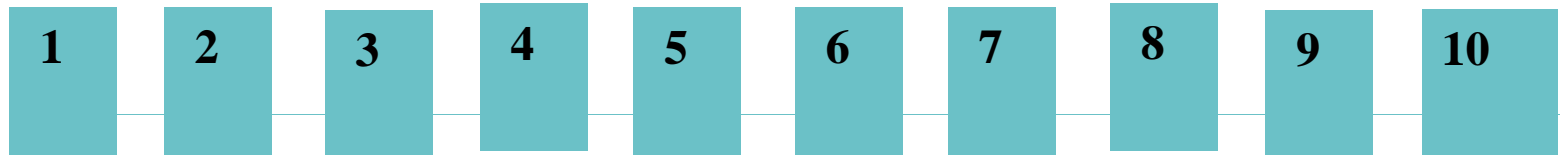
To manage and enhance the Forest Ecosystems in the project area by:

- **Sustainable Forest Ecosystem Management,**
- **Biodiversity Conservation,**
- **Livelihoods Improvement Support**
- **Strengthening Institutional Capacity and**
- **NTFP based Entrepreneurship Development**

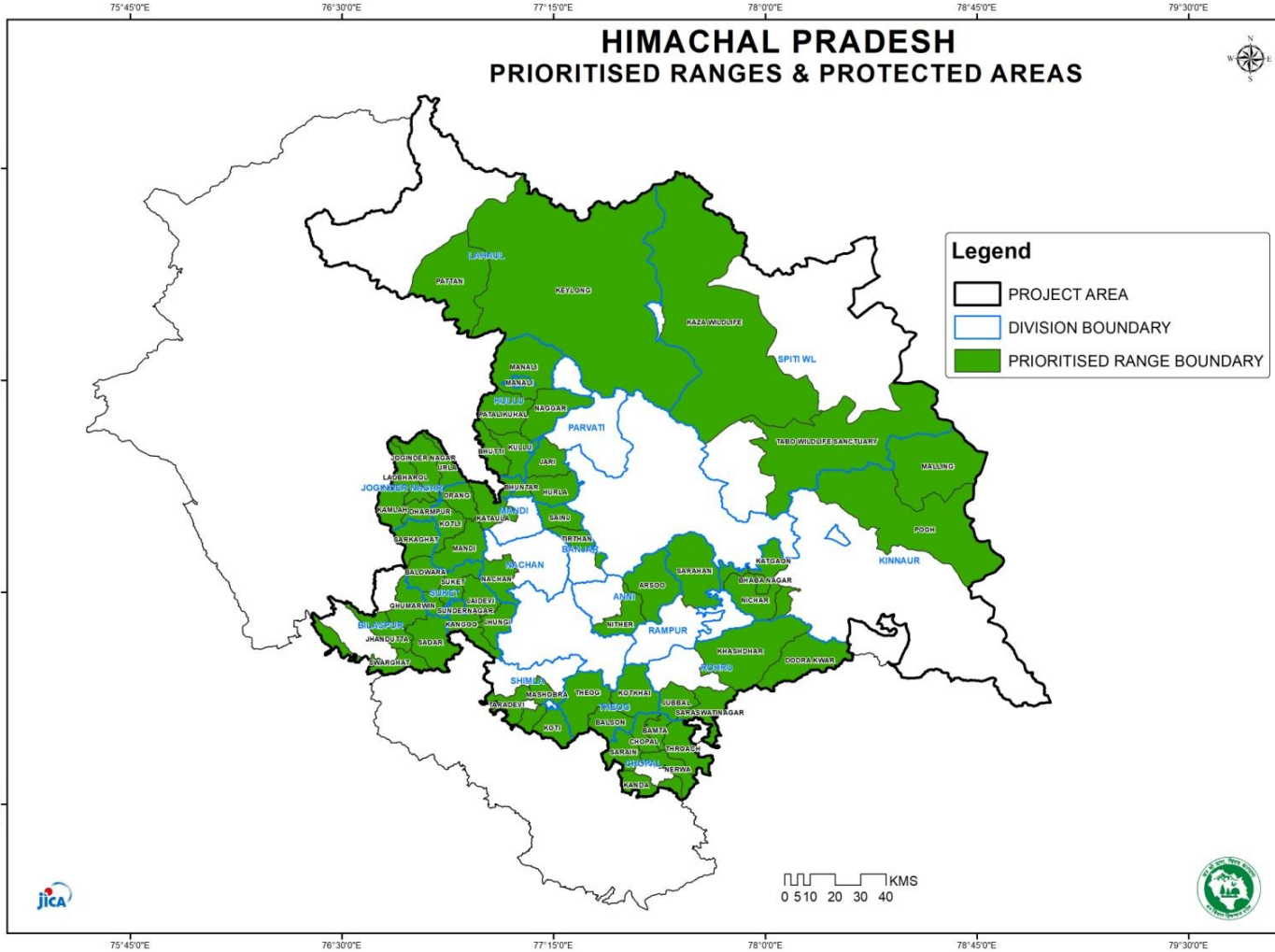
.....thereby contributing to Environmental Conservation and Sustainable Socio-Economic development.

Project Duration

10 Years (2018-2019 to 2027-28)



PROJECT AREA



**Implementation
in 7 Forest Circles
(5 T and 2 WL), 18
Forest Divisions
(16 T and 2 WL)
and 61 Ranges
(56 T and 5 WL)**

Project area spread in six districts - Kinnaur, Shimla, Bilaspur, Mandi, Kullu, Lahaul & Spiti.

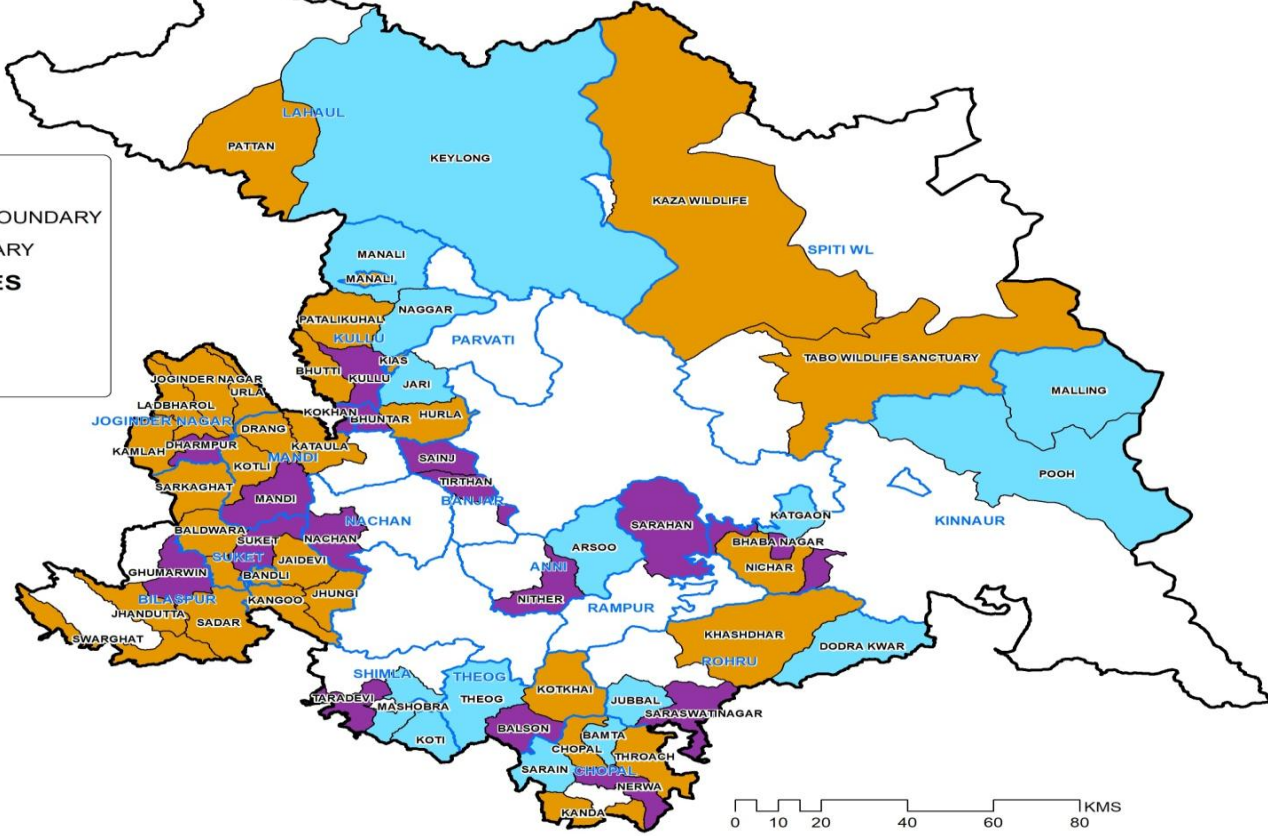
76°30'0"E 77°15'0"E 78°0'0"E 78°45'0"E

HIMACHAL PRADESH BATCH WISE PRIORITISED RANGES AND PROTECTED AREAS



Legend

- PROJECT AREA BOUNDARY
- DIVISION BOUNDARY
- BATCH WISE RANGES**
- BATCH 1
- BATCH 2
- BATCH 3



TERRITORIAL FOREST RANGES
BATCH 1- 15 RANGES
BATCH 2- 25 RANGES
BATCH 3- 16 RANGES
TOTAL TERRITORIAL & WL RANGES 61 RANGE

WILD LIFE RANGES
BATCH 1- 1 RANGE
BATCH 2- 4 RANGES



76°30'0"E 77°15'0"E 78°0'0"E 78°45'0"E

33°0'0"N
32°15'0"N
31°30'0"N
30°45'0"N

33°0'0"N
32°15'0"N
31°30'0"N
30°45'0"N

Jadi Buti Cell-JICA assisted PIHPFEM&L

A Jadi-Buti Cell has been set up under the project with the following functions:

- Work with stakeholders to promote resource development and sustainable management of medicinal plants leading to conservation.
- Carry out campaign for plantation/cultivation of high value medicinal plants to generate marketable volume of produce for Industries.
- Developing agro-techniques of selected high value medicinal plants of high hills with sustainable harvesting protocols.
- Facilitate institutional development of farmer groups



Continue.....

- **Advocacy for changes in the policies, legal framework** for value chain development of medicinal plants.
- Facilitating role in trade of medicinal plants in the State and ensure **consistent supply to pharmaceuticals & Industries.**
- Carry out **Market Research** on regular basis.
- Create **a brand** of products from **HP** and its promotion at National and International levels
- Also find suitability of cultivating **aromatic** plants or **other NTFP**, which Field Officers can specify as a livelihood option.

The Cell is manned by :

Director (Consultant)- 1,
Manager (Enterprise Development)-1,
Manager (Marketing)-1 and
MIS Associate-1.

ACTION PLAN

***To Assess the potentiality and production of NTFPs including medicinal Plants:**

This meeting has been organized with CFs, DFOs & ACFs in 6 districts covered under the project i.e. Kullu, Mandi, Bilaspur & Lahaul (part). DFOs: Kullu, WL Kullu, Parvati, Banjar, Lahaul, Mandi, S/Nagar, Nachan, J/Nagar, Bilaspur, Shimla, Kinnaur, Spiti (part). CFs at Shimla, Rampur, WL Shimla; DFOs: Shimla, WL Spiti, Kinnaur, , Rampur, Anni, Theog, Rohru, Chopal.

- ❖ Project has identified **VFDS** and their groups called **Clusters**. Therefore, Focus of the meeting is to:
 - **Identify potential areas** for production of high value medicinal plants both for *in situ* & *ex situ* cultivation in each VFDS.
 - **Estimate current level of production** of med plants in each VFDS.
 - Identify and prepare a **plan by Scientists on issues for conservation, regeneration, harvesting, post harvest handling**, etc. of medicinal plants in cluster / VFDS areas.
 - Identify **VFDS where** RH can undertake **cultivation** or **collect** from wild and add value to the collection / harvest .
 - Cluster to be a **Cooperative of VFDS** for **marketing** through **e-auctions**.

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***Where RH are involved in collection:**

A meeting of Gram Sabha as & when held be attended or special meeting called with the help of Panchayat, and discuss details of medicinal plants being collected by the RH. Such as:

- a. A. Involved **RH** details ie name, age, address, phone number, income, be obtained
- b. B. Discuss the **species** collected and **quantities extracted, Last rates** obtained for various species collected
- c. C. Whether extracted under **4 yr. cycle** or regularly,
- d. D. **Seasonality** of extraction,
- e. E. **Dependence** of individual **HH** i.e. what % of HH income obtained from collection of med plants
- f. (HH: House Hold)

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In- situ cultivation:

- F. **Details of those HH** who have **marginal land** holdings i.e. up to 2.5 Acres of unirrigated land (or 1.25 Acres of irrigated land) and find out whether they need enhancement of their resources.
- G. Find out **their number** and each **individual details** noted.
- H. **Ask** them if they would work in a **group** and form them into CIG/SHG (not exceeding 10 in a group).
- I. Group is allotted **a fenced planted area** of up to **10 Ha. In a VFDS** for cultivation of medicinal plants in addition to work on their own land.
- J. Ask them to **sell** these plants when harvested to **cluster rep.**
- K. **Existing** or **prefixed procurement cost** provided out of RF. Representative will be the representative of the Cluster Co-operative for marketing so formulated of certain VFDS after forming such groups in those VFDS. **All transactions shall be debited in RH A/C.**

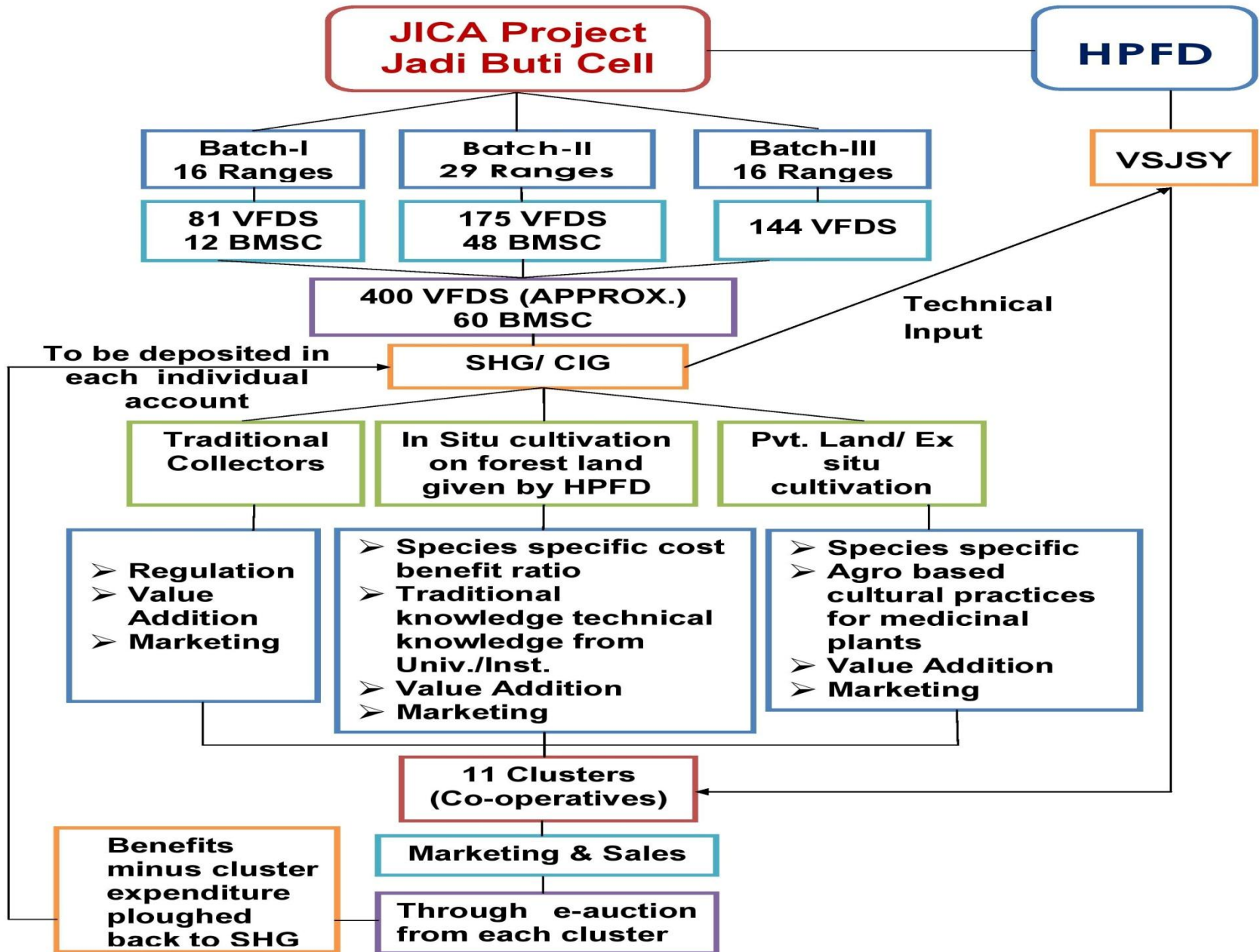
Ex-situ Cultivation:

- L. Another group of such **landlords of large holdings** be formulated who are **willing to cultivate** medicinal plants in their land or inter-cropping in their orchards and **sell med plants to cluster rep.**
- M. (CIG: Common Interest Group, RF: Revolving Fund)

NURSERIES IN EACH CLUSTER & PLANTING

- **Sufficient space** for cultivation of medicinal plants be kept in each of the project funded nurseries in **each cluster** after working out the area @ **43,500 plants / Hectare** for **smaller herbs** or **21,750 plants / Hectare** for **larger** herbs. Up to 10 Ha. Space can be allotted to each VFDS depending upon individuals needing help.
- While **in-situ units** will have already **growing tree species** planted there, the **ex-situ kharetars** will be **devoid of plants** other than grass. **Ex-situ in orchards** will have **overhead shade**. In all such cases numbers will **vary from site to site** and **expenditure be calculated according** to the numbers planted.

FLOW CHART



VFDS / BMC for NTFP Enterprise Development

Sl.No.	District	Division	Range	Cluster	VFDS / BMC Name
1	Shimla	Shimla	Tara Devi	1. Rampur	Kanda, Panesh, Shilru, Talyal, Rangoi
2		Theog	Balson	2. Rohru	Dhagli, Upper Mundu, Kashna, Lower Mundu, Tikker
3		Chopal	Nerwa	Shimla	Bagna, Dhalena, Ranjat, Badich, Hanal/Antrwali
4		Rohru	Saraswati Nagar		Chhajpur Valley, Sansong Dhakrantu, Nandpur Shallad, Badiyar, Ruhil Malog
5		Rampur	Sarahan		Labana Sadana, Shadhar Dheu, Chaladi, Kandhar Suga, Kinoo
6	Mandi	Joginder Nagar	Dharmpur	Chachiyot	Torjajar, Chowki, Banal, Laghehar, Tanhed
7		Mandi	Mandi		Mandal, Tikri, Majhyathal, Lakhdara Peer/ Troh, Hari Om/ Sakroha, Dharwahan, Bhangrotu
8		Suket	Suket		Ropadi, Riggad, Bhangleda, Thalla, Chamukha
9		Nachan	Nachan		Karnala, Dari, Bhaklot, Sayanj, Bara
10	Bilaspur	Bilaspur	Ghumarwi	Swarghat & Ghumarwin	Bhole Shanker, Jeevan Jyoti, Sidh Baba Godrdiya Kothitobka, Tundwinphander
11	Kullu	Ani	Nither	Nirmand	Katmore, Khlair, Nauni, Sharsha, Jajhar
12		Parvati	Bhunther	Jari	Khonkan -2, Pahnala, Jolly, Bansu, Khokhan-3
13		Kullu	Kullu	Kullu	Bastori, Sari-I, Balh,, Balh-II,, Sari-II, Sarli, Katrain(Patlikuhl Range)
14		Banjar	Sainj	Larji	Sarri, Talara, Kanon, Chakurtha & Thatibir (Tirthan)
15	Kinnaur	Kinnaur	Bhabanagar	Bhabanagar	Choura, Bara Kamba, Ramni, Jani
16			Nichar		Nigulsari, Grange, Nigani,

VFDS... (contd.)

- Each cluster will have roughly 40 VFDS/ BMSC.
- There will be three Batches, formed over a period of 2 years.
- Batch I will have approx. 8 VFDS in each cluster.
- Each VFDS / BMSC will have at least 2 CIG / SHG.



Involvement of Research Institutions & Universities

- **A team** of a Research Scientist, a Field Botanist, & 1-3 Community Facilitators from GBPI, IHBT, HFRI, UHF, etc. will be visiting field for evaluation of species cultivation in specific identified forest plantation areas or private land / orchard in each village of VFDS (Ward level) where med. plants either collected or people willing to cultivate. This will find out **suitability of species** vis-a-vis **edaphic & climatic** factors.
- **Team** will be formed for each **cluster** and its CIG/SHG.



HP Forest Produce Transit (Land Route) Rules, 2013

Annexure-D (Schedule-I)

Forest Produce obtained from the following Plant Species Growing on Private Land Exempt from the requirement of Transit Pass

S. No.	Botanical Name	Local/Trade Name
1	Albizia spp.	Oei/Siris
2	Bauhinia spp.	Kachnar/Karial
3	Eucalyptus spp.	Safeda
4	Morus spp.	Kimu/Chimu/Shahoot/Tut/ Mulberry
5	Populus spp.	Poplar
6	Salix spp.	Willow/Biuns
7	D. strictus/D. hamiltonii/ Bambusa nutans /B. bamboos	B. culms/Lathi bans/MaggarDharainchBans
8	Saussurea costus (=S. lappa)*	Kuth
9	Bunium persicum	Kala Zira
24		

***Export of Kuth (*Saussurea costus/lappa*) will, however, be subject to fulfillment of requirement under Wildlife (Protection) Act, 1972.**

The removal and transportation of the forest produce obtained from plants species listed in this Schedule and growing on private lands shall be in accordance with the following provisions:

- (i) **The landowner shall intimate in writing** to the concerned **Range Forest Officer** through the local Forest Guard of his intent to harvest the forest produce from plant species listed in this schedule along with estimate of yield before starting the harvest.
- (ii) The **Range Forest Officer** may **himself or through his representative inspect the land** from which such harvest is proposed and verify the yield.
- (iii) Range Forest Officer shall **issue a letter** to the landowner giving detail of forest produce obtained from private land.
- (iv) The landowner shall carry this letter during transportation of the verified produce.

Continued...

Annexure-D

Schedule-II

List of 91 Forest Produce and Permit Fee Thereon

Sr. No.	Botanical Name	Local/Trade	Name Plant Part	Permit/Pass Fee Rs/Qtl
1	<i>Abies spectabilis/A.pindrow</i>	Talis Patra	Needles/leaves	125
2.	<i>Acacia catetchu</i>	Khair	(a) Heartwood/chips (b) Khair billet (with bark)	250 175
3.	<i>Aconitum dienorrhizum</i>	Vatsnabh/Mohra	Tubers	7,500
4.	<i>Aconitum heterophyllum</i>	Atis/Patis/ Karvi Patis	Tubers	5,000
5.	<i>Aconitum violaceum</i>	Mitha Telia/ Mitha Patis	Tubers	1,000
91.	<i>Zanthoxylum armatum</i> All other Non-Timber Forest Produce (NTFP) not listed above	Tirmir	Fruits/seeds	250 100

Schedule-III(A)

(Application Format for Registration of Growers)

Name of Applicant:

Address:

Name of Panchayat:

Land details (attach copy of revenue papers):

Khasra Nos.:

Total Area:

Medicinal Plant Species Proposed to be Cultivated:

Sl. No.	Botanical Name of Species	Local Name	Proposed Source of Seed/ Germplasm
1.			
2.			

Undertaking by the Applicant: Having read the general provisions contained in Annexure-D of the H.P. Forest Produce Transit (Land Routes) Rules, 2013, I undertake to cultivate medicinal plant species in accordance with the given provisions. I further undertake that in case of any violation of the provisions under the rules, I shall be liable to be proceeded against under provisions of the law.

Signature of the Applicant

For Office Use:

Application Received on _____

Signature & Name of Block Officer

Name of Beat _____

Name of Block _____

Name of Range _____

Name of Division _____

Application received in the Office of RFO _____

Application received in the Office of DFO _____

Registration Number and Date: _____

Signature and Seal of DFO⁸⁰

Schedule-III(B)

(Certificate Format for Registration of Growers)

Registration No.: _____

Date: _____

With respect to his/ her application dated _____, Sh./Smt. _____ s/o / d/o
Sh. _____, and resident of _____ falling under
_____ Panchayat has been registered as a grower of medicinal and aromatic
plants on his/ her private land/leased land bearing khasra nos. _____
involving area _____ bighas in respect of the following species:

Sl. No.	Botanical Name of Species	Local Name
1.		
2.		
3.		

This certificate is valid for five years from the date of registration.

Terms and Conditions of Registration: The registered grower shall undertake cultivation of medicinal species permitted for cultivation in this certificate strictly in accordance with general provisions contained in **Annexure-D**, appended to the H.P Forest Produce Transit (Land Routes) Rules, 2013. In case of any violation of the provisions of these rules, this certificate of registration is liable to be cancelled and the violator shall be proceeded against under provisions of the law.

Signature and Seal of DFO

Annexure-E

Guidelines for Transit of Medicinal Plants, Seeds and Miscellaneous NTFPs to the notified Herbal Mandis and Sale thereof

- 1. Persons intending to transport forest produce, collected from wild/cultivated land, of the species listed under Schedule-II of these rules to the notified Herbal Mandis (operated by HPSFDC and/or APMC) within Himachal Pradesh, shall apply to the Divisional Forest Officer (DFO) for issue of 'Pass' to Herbal Mandis' on Annexure-E(1) (prototype of application form given below) along with a Permit Fee of Rs. 10/-. No Export Fee will be leviable on such forest produce being transported to the herbal mandi.**
- 2. The DFO shall issue 'Pass to Herbal Mandis' on Annexure-E(2) to such applicant after getting the forest produce verified from his field staff, within three (3) days of receipt of application verification (prototype of such pass given below as Annexure-E(2)).**
- 3. The applicant shall transport the material to the sale depot within 7 days of receipt of pass to Herbal Mandis.**
- 4. The produce thus brought to the notified herbal Mandis shall be put to auction by the concerned sale depot authorities as per specified auction rules.**
- 5. On successful completion of sale, the concerned DFO in whose jurisdiction the herbal mandi exists shall issue the necessary Transit Pass under these rules to the buyer(s) after recovery of Export Fee prescribed in Schedule-II from the buyer(s).**

Annexure-E-(1)

(Application For issuance of Pass by persons desirous of transporting notified medicinal plants/parts thereof to Herbal Mandis)

Name of Applicant:

Address:

Name of Panchayat:

Species to be transported to Sale Depots:

Sl. No.	Name of Species	Local Name	Part	Qty.(in Qtls)	Collected from(name of forest)/ Cultivated(name of village)
1.					
2.					

If cultivated, Registration No.:

Name of Sale Depot:

Undertaking by the Applicant: I certify that the material has been collected in accordance with the regulation and prescribed procedure. I undertake to transport the material as per details given above directly to the destination/ herbal mandi as requested for. I further undertake that in case of any violation by me on this account, I shall be liable to be proceeded against under provisions of these rules.

Signature of the Applicant

Verification by the Field Staff:

Certified that:

1. The above material has been collected in accordance with the regulation and prescribed procedure.
2. The applicant has not committed any forest offence in respect of the produce being transported.
3. I have checked the quality and quantity of the above-mentioned forest produce and is found correct.
4. The necessary pass in favour of the applicant is recommended.

Signature of Beat Guard:

Verification by Block Officer:

Recommendation by Range Officer:

Annexure-E-(2)

Pass for transit of Non-Timber Forest Produce (NTFP) to notified Herbal Mandis

Pass No.: _____

Date: _____

With respect to his/her application dated _____, Sh./Smt. _____ s/o / d/o Sh. _____, and resident of _____, falling under _____ Panchayat, is allowed to transport medicinal plants, seeds resident of and miscellaneous NTFPs and parts thereof to _____ Herbal Mandi, in respect of the following species:

S.No.	Name of Species	Local Name	Part	Qty.(in Qtls)	Collected from(name of forest)/ Cultivated (name of village)
1.					
2.					
3.					

Name & Signature of the Forest Guard

Beat.....

Block.....

Range.....

Division.....

Copy to: Applicant/Range Officer/Check Post/ I/c Herbal Mandi

Role of JBC in Marketing

- **VFDS / Cluster level -1: value addition (cleaning, packaging) at designated storage space (at village/VFDS level)**
 - **Cluster level-2 : e-auctions (M1)**
 - **Cluster level-3 : processing units for extraction of AP , packaging and e-auction (M2)**
 - **Monitoring market for trends, forecast for species to be auctioned / stored**
 - **Ploughing back benefits after deducting cluster costs**
- (AP: Active Principle)**

TIME LINES FOR BATCH-1

- **Formation of three Batches: 2 years**
- **Identification of species wise areas of Batch-I: By mid-October, 2020**
- **Sensitization of staff: By mid- November, 2020 for Batch-I**
- **Meetings with Gram Panchayats / Villagers by January,2021**
- **Cluster Co-operative formation of Batch-1: By end February, 2021**
- **Any material collected, value added of Batch-1: By end-May, 2021**
- **First e-auctioning of Batch-1 : By July-August, 2021**
- **Nursery raising depending upon material availability for Batch-1 : Any time after October 2020**
- **Cultivation of NTFP: From Fall of 2021**
- **Further value addition of Batch-1: Depending upon requirement from summer of 2021**

WRAP UP

- Identification of **VFDS** for collection/ in situ/ ex situ cultivation
- Identification of **species** by field staff and scientists
- Formation of **CIG/SHG**
- Departmental JICA supported **nurseries** having sufficient stock
- **Training & capacity building** of groups
- **Cultivation** by groups, harvest and collected material **value** added, **packaging** by **CIG/SHG**
- **Cluster** formulation (Cooperative) of one member from each SHG
- **Carriage** to stores/mandis with **DFO pass**
- **E-auction** by marketing staff/ **auction** in mandis
- **Export permit** with export fee by DFO

THANK YOU