



QUALIFICATION FILE

Apiculturist (Wild bee) – NTFP (Non-Timber Forest Produce)

- Short Term Training (STT) Long Term Training (LTT) Apprenticeship
 Upskilling Dual/Flexi Qualification For ToT For ToA
 General Multi-skill (MS) Cross Sectoral (CS) Future Skills OEM

NCrF/NSQF Level: 2

Submitted By:

Skill Council for Green Jobs

Chief Executive Officer

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Section 1: Basic Details

1.	Qualification Name	Apiculturist (Wild bee) – NTFP (Non Timber Forest Produce)	
2.	Sector/s	Environmental Science	
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: 2019/ES/MOEF&CC/3162 & Version 1.0	Qualification Name of existing/previous version: Certificate course in Value Addition & Marketing of Non-timber forest products(NTFPs)-(Animal Origin): (i) Wild Bee Keeper (ii) Lac Cultivator(iii) Tasar Cultivator
4.	a. OEM Name b. Qualification Name (Wherever applicable)		
5.	National Qualification Register (NQR) Code &Version	QG-02-ES-01753-2023-V1-SCGJ & version 1	6. NCrF/NSQF Level: 2
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other	Certificate	
8.	Brief Description of the Qualification	NTFP includes all the Non- Timber Forest Products that are harvested from trees, shrubs and other plants in the forests. The course on (I) Value Addition & Marketing of Non-Timber Forest Products (NTFPs)- (Animal Origin): Wild Beekeeping & processing. A Beekeeper is responsible for carrying out beekeeping operations which include preparing for and setting up beehives; procuring and introducing bees in hives, and maintaining the bees and beehives. The individual is also responsible for harvesting, processing and marketing honey and related produce.	

<p>9. Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</p>	<p>a. Entry Qualification & Relevant Experience:</p> <table border="1" data-bbox="819 355 1888 531"> <thead> <tr> <th data-bbox="819 355 927 467">S. No.</th> <th data-bbox="927 355 1576 467">Academic/Skill Qualification (with Specialization - if applicable)</th> <th data-bbox="1576 355 1888 467">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td data-bbox="819 467 927 531">1.</td> <td data-bbox="927 467 1576 531">No Formal Education</td> <td data-bbox="1576 467 1888 531">NA</td> </tr> </tbody> </table> <p>b. Age: 18yrs</p>						S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	No Formal Education	NA												
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																						
1.	No Formal Education	NA																						
<p>10 Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</p>	<p>8</p>			<p>10. Common Cost Norm Category:</p>																				
<p>11 Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)</p>	<p>NA</p>																							
<p>12 Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</p>	<p><input checked="" type="checkbox"/>Offline <input type="checkbox"/>Online <input type="checkbox"/>Blended</p> <table border="1" data-bbox="595 871 1599 1094"> <thead> <tr> <th data-bbox="595 871 846 983">Training Delivery Modes</th> <th data-bbox="846 871 987 983">Theory (Hours)</th> <th data-bbox="987 871 1128 983">Practical (Hours)</th> <th data-bbox="1128 871 1279 983">OJT Mandatory (Hours)</th> <th data-bbox="1279 871 1480 983">OJT Recommended (Hours)</th> <th data-bbox="1480 871 1599 983">Total (Hours)</th> </tr> </thead> <tbody> <tr> <td data-bbox="595 983 846 1054">Classroom (offline)</td> <td data-bbox="846 983 987 1054">95</td> <td data-bbox="987 983 1128 1054">145</td> <td data-bbox="1128 983 1279 1054">0</td> <td data-bbox="1279 983 1480 1054">0</td> <td data-bbox="1480 983 1599 1054">240</td> </tr> <tr> <td data-bbox="595 1054 846 1094">Online</td> <td data-bbox="846 1054 987 1094"></td> <td data-bbox="987 1054 1128 1094"></td> <td data-bbox="1128 1054 1279 1094"></td> <td data-bbox="1279 1054 1480 1094"></td> <td data-bbox="1480 1054 1599 1094"></td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p>						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	95	145	0	0	240	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	95	145	0	0	240																			
Online																								
<p>13 Aligned to NCO/ISCO Code/s (if no code is available mention the same)</p>	<p>6210.9900(Forestry and Related Workers) 6113.9900 (Nursery Workers and Gardeners, Other) 6115(Medicinal and Aromatic Plant Cultivators) 6210.0600(Gatherer, Medicinal Herbs) 6111.0100(Cultivator, General) 6113.0200 (Nurseryman)</p>																							

14 Progression path after attaining the qualification (Please show Professional and Academic progression)	Vertical Progression: Master Trainer/Self-sustainable Entrepreneur
15 Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi
16 Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17 Is the Job Role Amenable to Persons with Disability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If “Yes”, specify applicable type of Disability: <input checked="" type="checkbox"/> Deaf <input checked="" type="checkbox"/> Hard of Hearing <input checked="" type="checkbox"/> Acid Attack Victims <input checked="" type="checkbox"/> Dwarfism People with hearing problems, visually impaired and physically handicapped in certain identified trades like housekeeping attendant, making reservations and bookings, front desk job or any other job which does not require extreme physical activity.
18 How Participation of Women will be Encouraged	Preference in training, self-employment, Bank loan guarantee, Entrepreneurship opportunities, and inclusion in self-help groups.
19 Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
20 Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

21 Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Dr. Praveen Saxena Email: ceo@sscgi.in Contact No.: 9871119101 Website: https://sscgi.in/	
22 Final Approval Date by NSQC:31/01/2024	23. Validity Duration: 3 years	24. Next Review Date: 31/01/2027

Section 2: Module Summary

Mandatory NOS/s

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-R	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Introduction to Animal based NTFP management	SGJ/N0205 Version 1	Core	2	1	10	20			30	50	50			100	
2.	Basics of Colony organization/Colony division, Colony united and Bee handling and management	SGJ/N0206 Version 1	Core	2	1	10	20			30	25	25			50	
3.	Identify Methods for Apiary & Grafting, Honey/Wax Extraction, Pollination and other natural requirements	SGJ/N0207 Version 1	Core	2	1	15	15			30	26	24			50	
4.	Perform Bee colony capturing from wild and hive and Bee Botany and Preparation of floral calendar	SGJ/N0208 Version 1	Core	2	1	10	20			30	15	35			50	
5.	Exposure Visit- opportunity to interact with successful beekeepers	SGJ/N0209 Version 1	Core	2	2	10	50			60	20	30			50	

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-R	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
6.	Ensure Management of resources and Opportunities	SGJ/N0210 Version 1	Core	2	1	10	20			30	20	30			50	
7.	Employability Skills(30 hours)	DGT/VSQ/N0101	core	2	1	30					20	30				
8.	On the Job Training				0			0								
Duration (in Hours) / Total Marks						8	95	145	0	0	240	176	224		300	

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory **Pr.**-Practical **OJT**-On the Job **Man.**-Mandatory Training **Rec.**-Recommended **Proj.**-Project

Assessment - Minimum Qualifying Percentage

Minimum Pass Percentage – Aggregate at qualification level: 70% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	8th Pass + 3years experience in the relevant sector. He/ she should be safety conscious and proficient in handling NTFPs training programme.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	8th Pass + 5years experience in the relevant sector. He/ she should be safety conscious and proficient in handling NTFPs making tools and equipment.
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	Not Applicable

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	8th Pass + 5years experience in the relevant sector. He/ she should be safety conscious and proficient in handling NTFPs making tools and equipment. NCVET approved/ empaneled Assessors
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	8th Pass + 7years experience in the relevant sector. He/ she should be safety conscious and proficient in handling NTFPs making tools and equipment. NCVET approved/ empaneled Assessors, experienced as invigilator.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	8th Pass + 10 years experience in the relevant sector. He/ she should be safety conscious and proficient in handling NTFPs making tools and equipment. NCVET approved/ empaneled Assessors, experienced as invigilator.
4.	Assessment Mode (Specify the assessment mode)	Online and offline both
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	<p>Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes</p> <p><u>For Wild beekeeping & Processing</u></p> <p>Globally, more than two billion people are dwelling in forests, depending on forest resources for subsistence, income and livelihood security (Ahenkan and Boon, 2011). NTFPs are considered to be vital for sustaining rural livelihoods, reducing rural poverty, biodiversity conservation and facilitating rural economic growth (Maske et al., 2011). The World Health Organization estimated that about 80% of the population of the developing countries uses NTFPs to meet their health and nutritional needs (Olaniyi et al., 2013). Additionally, several opportunities for improved rural development and standard of living are linked to NTFPs (Ajake and Enang, 2012; Islam et al., 2013).</p>
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According to export statistics, the entire amount of natural honey exported from the area in 2021–22 was only 3.78 MT, or Rs 7 lakh. 1.33 lakh MT of honey will likely be produced nationwide in 2021–2022, according to estimates roughly 500 MT of natural honey are produced in the northeast, with Assam contributing roughly 25% of that total. The northeast region's production and export data, when compared to the nation's overall production and export volume of natural honey, reveal the region's unrealized potential for commercial production of natural honey despite its inherent advantages.

The UN Food and Agriculture Organisation (FAO) estimates that bees and other insect pollinators fertilise over 75% of the world's food crops. Insects play a variety of roles outside of agriculture, food security, and nutrition. This includes honeybees. According to the FAO, without them, wild plants and the ecosystems that keep the earth habitable would perish. However, it has been discovered that pesticides, changes in land use, and climate change are threatening the extinction of nearly 40% of the about 30,000 species of invertebrate pollinator species. The Skill Programme on wild beekeeping & processing, lac cultivation & tasar cultivation are intended to promote scientific for the overall growth industry for the generation of income and employment, as well as to support farm and non-farm households' quality of life and all of which can be mutually beneficial and are essential to fulfilling the goals of the SDG.

- <https://www.thethirdpole.net/en/livelihoods/honeybee-colonies-provide-assam-villagers-with-a-sustainable-crop/>
- Mentioned in National Skill Development Corporation (N.S.D.C.) district wise skill gap study for the state of Jharkhand (2012-17, 2017-22).
- Role of Non-Timber Forest Products (NTFP) in Tribal Economy of India – An Exploratory Study by Mr. Parikshith Mamidi.
- Increased development of non-timber forest products <http://www.fao.org/docrep/w2149e/w2149e06.htm>
- Non-Timber Forest Products and Forest Governance <http://pubs.iied.org/pdfs/G02293.pdf>
- Increased development of non-timber forest products <http://www.fao.org/docrep/w2149e/w2149e06.htm>
- NTFP Enterprise and Forest Governance; <http://pubs.iied.org/pdfs/G02281.pdf>
- TERI Project Report, Sustainable Exploitation, Cultivation and Marketing Linkages of Non-Timber Forest Products (NTFPs) in Andhra Pradesh.
- Chopra, K. (1993). The value of non-timber forest products: An estimation for tropical deciduous forests in India. *Economic Botany* 47: 251-57
- The Hindu (2010). Mohuwa collection takes a backseat in Adilabad <http://www.thehindu.com/todays-paper/tp-national/tp-andhrapradesh/mohuwa-collection-takes-a-backseat-in-adilabad/article746064.ece>
- Talukdar, NR., Choudhury, P., Barbhuiya, RA., and Singh, B. (2021). Importance of Non-Timber Forest Products (NTFPs) in rural livelihood: A study in Patharia Hills Reserve Forest, northeast India. *Trees, Forests and People*, v. 3. pp. 100042.

2.	<p>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes</p> <p><u>For Wild beekeeping & Processing</u></p> <p>Despite the fact that agricultural practises in the Northeast are fast changing, the region's abundance in plant species and biodiversity have turned it into India's primary honey production centre. Natural honey exports from India climbed from about 60000 MT worth Rs 721 crores in 2020–21 to over 74,450 MT worth Rs 1221 crores in 2021–22, with nearly 80% of the export volume coming from the United States. The United Arab Emirates, Saudi Arabia, Nepal, and Morocco are further export destinations.</p> <p>The increase in exports is a sign that these flagship schemes are producing more natural honey of export-quality. According to projects presented to the National Bee Board, money is sanctioned for the main purpose and sent directly to implementing organisations. However, the northeast region's share of the export market is negligible, which speaks volumes about the states in the region's failure to fully capitalise on the potential provided by the mission to increase the export of natural honey. According to export statistics, the entire amount of natural honey exported from the area in 2021–22 was only 3.78 MT, or Rs 7 lakh. 1.33 lakh MT of honey will likely be produced nationwide in 2021–2022, according to estimates.</p> <p>According to export statistics, the entire amount of natural honey exported from the area in 2021–22 was only 3.78 MT, or Rs 7 lakh. 1.33 lakh MT of honey will likely be produced nationwide in 2021–2022, according to estimates roughly 500 MT of natural honey are produced in the northeast, with Assam contributing roughly 25% of that total. The northeast region's production and export data, when compared to the nation's overall production and export volume of natural honey, reveal the region's unrealized potential for commercial production of natural honey despite its inherent advantages.</p>
3.	Government /Industry initiatives/ requirement (Yes/No): NA
4.	Number of Industry validation provided: 5
5.	Estimated nos. of persons to be trained and employed: Given at Annexure : Training & Employment Details
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: <i>Concurred by Ministry of Environment, Forest and Climate Change</i>

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors <i>(Mandatory)</i>	Annexure: Evidence of Level
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Annexure: Tools and Equipment (Lab Set-Up)
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Annexure: Detailed Assessment Criteria (Mandatory)
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Annexure: Assessment Strategy
5.	Annexure: Acronym and Glossary <i>(Optional)</i>	Annexure: Acronym and Glossary
6.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Attached
7.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	Annexure: Career progression and OM
8.	Supporting Document: Occupational Map <i>(Mandatory)</i>	Self-Sustainable Entrepreneur
9.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	Annexure: Assessment Strategy

Annexure: Evidence of Level

Title/Name of qualification/component: Apiculturist (wild bee) – NTFP (Non Timber Forest Produce)			
Level: 2			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Professional Theoretical Knowledge/ Process	Trainee would get an advanced knowledge of wild beekeeping & processing/lac/tasar cultivation or other NTFP products. They would be able to understand the locally available NTFPs, their importance, post-harvest methods, collection, processing techniques and their conversion to final product/furniture making.	The trainees should possess an advanced knowledge of NTFPs and their collection. They can execute standard operating procedures pertaining to NTFPs processing and final product making. They are required to be skilled in their field and would be able to act as master trainers at the end of the course or become entrepreneur.	2
Professional and Technical Skills/ Expertise/ Professional Knowledge	Trainees would get factual knowledge of NTFP identification, utilization, preservation, processing of raw material, operating processing machines, value addition of NTFP for handicrafts and furniture making and their marketing.	The trainee displays professional knowledge for NTFP processing, machine operation and value added products making. This would also create entrepreneurship among them and help them to form Self Help Groups (SHGs). They would have full responsibility for product value addition.	2
Employment Readiness & Entrepreneur	The trainees should have hands on skill on processing and utilization of NTFPs into final products. They are able to independently undertake conversion of raw material into final products through usage of modern machinery. They may also become Master trainers in their field.	The trainee has professional skill to operate processing machines and making quality products from locally available NTFPs.	2

Title/Name of qualification/component: Apiculturist (wild bee) – NTFP (Non Timber Forest Produce)			
Level: 2			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relate to the NSQF level descriptors	NSQF Level
urship Skills & Mind-set/Professional Skill			
Broad Learning Outcomes/ Core Skill	In terms of core skills, trainees would gain advanced knowledge of entrepreneurship Skill development, bank schemes and latest marketing techniques. They would also get exposure with the successful entrepreneurs in the related fields	The trainee should be able to perform, execute and manage the activities related to processing of NTFP, operating modern machines, product value addition and marketing of the product.	2
Responsibility	Trainees are able to independently initiate the processing of NTFPs, equipment handling, market oriented design & product development and their marketing	The trainees would be responsible for quality improvement in product development by using processing machines as assistant/master trainer/entrepreneur and would also be responsible for the development of group as master trainers/specialists.	2

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 25

I. Wild Beekeeping & Processing

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch Size
1	Bee Box	Good quality	25
2	Movable Bee-Box Stand	Good quality	25
3	Swarm Bag	Good quality	25
4	Bee Veil	Good quality	25
5	Queen Excluder Sheet	Good quality	25
6	Smoker	Good quality	25
7	Knife for De-capping	Good quality	25
8	Extractor	Good quality	25
9	Bottles	Good quality	25
10	Hand Gloves	Good quality	25
11	Brush	Good quality	25
12	Sieve	Good quality	25
13	Sealing machine	Good quality	25
14	Sealing paper	Good quality	25
15	Sealing Roll	Good quality	25

16	Hot Gun	Good quality	25
17	Processing utensils	Good quality	25
18	Steel Bucket	Good quality	25
19	Thermometer	Good quality	25

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Projector with screen
2. Board
3. Camera
4. All the tools based on the requirements

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Baksa Beekeepers & Agro Producer Pvt. Ltd	Mr. Khanin Madahi	CEO	Vill-Bisnupur P.O-Bilpur Dist-Baksa Barpeta, Assam	+916900951 714	deepmad ahi1985@ gmail.com	No
2	Dhiraj Urang Mou Udyog	Mr. Dhiraj Urang	CEO	Bormura, Saikhowa Ghat, Tinsukia, Assam	9101664924	Durang78@gmail.com	
3	Latip Narzary Farm	Mr. Latip Narzary	CEO	Bahbari, Bishmuri, Kokrajhar, Assam	9101710231	Narzarylatip587@gmail.com	
4	Chaitanya Monalaya Aivam Krishi Seva Samiti	Mr. Sanjay Joshi	Chairman	Durgapuram Colony, Talla Phoolchaur, Haldwani, Uttarakhand	9412134920		
5	Spardha	Mr. Deep Chandra Bisht	CF	Ishwari Bhawan, Pokharkhali, Almora	9412908089	spardha303@gmail.com	
6	Bipul Basumatary Bee Bar	Bipul	CEO	Singrapara,	9954360711		

		Basumatary		Bennabari, Baksa			
7	J C Agro Farm	J C Hazarika	CEO	Moinapara, Morangi, Golaghat	9854856309	mannahazarika52@gmail.com	
8	K K B Enterprise	Gautam Kumar Borah	CEO	Torun Borah, Mudoijan Bharalua Gaon, Mudoijan Tiniali, Jorhat	7002898789		
9	Bhupen Daimary Udyog	Bhupen Daimary	CEO	Ghulichuk, Boginadi, Lakhimpur, Assam	9957364221	doimarybhupen@gmail.com	
10	Satyajit Das Honey Farm	Satyajit Das	CEO	Rupnagar, Udalguri	7399845775	moonudl@gmail.com	
11	Suryapushpa Moupalon Aaru Songrokhyon Kendra	Satyapran Mahanta	CEO	Kathalpukhuri, Singra, Laluk, Lakhimpur	9101650257	zyotnry@gmail.com	
12	Kati Nath Narzary Farm	Jyoti Narzary	CEO	Dakhin Makra, Silbari Abadipara, Chirang	9957040751		
13	Deep Bee Apiary Udyug	Deep Madahi	CEO	Bisnupur, Bilpur, Baksa, Assam	9707028428	deepmadahi1985@gmail.com	

14	The Native Farm	Partha Bramha		Bampathar, Rajabheta, Dibrugrah, Assam	7896887942		
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Annexure : Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2023-24	30/Batch	Approx. 70%	-	-	-	-
2024-25	30/Batch	Approx. 70%	-	-	-	-
2025-26	30/Batch	Approx. 70%	-	-	-	-

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
Wild Beekeeping and Processing	2019-20	25	25	25	22	0	0	0	0	0	0	0	0
	2020-21	25	25	25	21	3	3	3	3	0	0	0	0
	2021-22	87	87	87	61	10	10	10	6	0	0	0	0

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

Justification: *Estimated training is 1 and estimated employment per training is 25 per financial year as proposed.*

Content availability for previous versions of qualifications:

Participant Handbook

Languages in which Content is available: English/Hind

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	<input checked="" type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	Not Applicable	Not Applicable
2	<input checked="" type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	<input checked="" type="checkbox"/> Showing Practical Demonstrations to the learners		
4	<input checked="" type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		

5	<input checked="" type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice		
6	<input checked="" type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	<input checked="" type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
SGJ/N0205: Introduction to Animal based NTFP management	<i>Animal based NTFP management (Common Module)</i>	24	25	-	-
	PC1. introduction to NTFPs- Resources, potential in economy and livelihood generation.	4	-	-	-
	PC2. explain conservation Awareness and approaches.	4	-	-	-
	PC3. discuss indigenous traditional knowledge and its role in NTFP management.	4	-	-	-
	PC4. discuss sustainable and harvesting: Principle and practices.	4	-	-	-
	PC5. discuss intellectual Property Rights and the Patent Regime.	4	-	-	-
	PC6. understanding of NTFP Market dynamics.	4	-	-	-

	PC7. overview of NTFPs: Resources, Economic Potential, and Generation of Livelihoods; Conservation Awareness and Methods.	-	5	-	-
	PC8. demonstrate native American customary knowledge and its function in managing the NTFP	-	5	-	-
	PC9. perform harvesting and sustainability: Concept and methods.	-	5	-	-
	PC10. illustrate rights to Intellectual Property and the Patent System.	-	5	-	-
	PC11. demonstrate knowledge of the dynamics of the NTFP Market.	-	5	-	-
	<i>History of Beekeeping, Its economic importance (Theory)</i>	26	25	-	-
	PC12. explain type of Bee Products (Honey, Royal jelly, pollen and Bee colony)	4	-	-	-
	PC13. discuss demand of consumer related to bee products.	4	-	-	-
	PC14. explain wild Honey Bee species -Apis cerana Indica,, Apis dorsata, Apis florae and Trigona species.	4	-	-	-

PC15. explain life cycle of Honey Bee.	4	-	-	-
PC16. discuss apis cerana Indica-External Morphology and Internal Morphology, Behaviour and Ecology	5	-	-	-
PC17. explain type of Beekeeping Equipments for	5	-	-	-
PC18. Illustrate about Bee Products: pollen, honev. roval iellv. and bee colonies.	-	5	-	-
PC19. identify consumer demand for products derived from bees.	-	5	-	-
PC20. show the Apis cerana Indica, Apis dorsata, Apis floriae, and Trigona species are wild honey bee species.	-	5	-	-
PC21. show the Apis cerana Indica life cycle includes external and internal morphology, behavior. and ecology.	-	5	-	-
PC22. show kind of Equipment Used in Beekeeping for A. cerana, the Wild Honey Bee.	-	5	-	-
NOS Total	50	50	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N0206: Basics of Colony organization/Colony division, Colony united and Bee handling and management	<i>Colony organization/ Colony capturing/ Colony division, Colony united (Theory and Practical)</i>	13	10	-	-
	PC1. discuss queen, New Queen cell formation, fertilized virgin. Queen mating. drone. etc.	4	-	-	-
	PC2. swarm colony and Natural colony.	4	-	-	-
	PC3. queen less colony control and apply of queen cell. control of worker laying. etc.	5	-	-	-
	PC4. showcase queen, New Queen cell formation, fertilized virgin. Queen mating. drone. etc.	-	2	-	-
	PC5. identify swarm colony and Natural colony	-	3	-	-
	PC6. showcase queen less colony control and apply of queen cell. control of worker laying. etc.	-	5	-	-
	<i>Bee handling and management/Seasonal management (Theory and Practical).</i>	12	15	-	-
	PC7. explain dearth period	3	-	-	-
	PC8. explain growth period	3	-	-	-
	PC9. explain honey flow period	3	-	-	-

	PC10. discuss seasonal management-(Drone control, swarm control and Queen control, Rainy season, etc)	3	-	-	-
	PC11. illustrate dearth period management.	-	4	-	-
	PC12. illustrate growth period observation	-	4	-	-
	PC13. ensure understanding of Honey flow period	-	4	-	-
	PC14. perform seasonal management-(Drone control, swarm control and Queen control, Rainy season. etc)	-	3	-	-
NOS Total		25	25	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N0207: Identify Methods for Apiary & Grafting, Honey/Wax Extraction, Pollination and other natural requirements	<i>Apiary & Grafting method</i>	9	8	-	-
	PC1. discuss site selection, bee flora, seasonal flower. water. shade.	2	-	-	-
	PC2. explain bee colony migration.	2	-	-	-
	PC3. explain type and uses of grafting equipment.	2	-	-	-

PC4. define artificial Queen rearing, etc.	3	-	-	-
PC5. show importance of site selection, Bee flora, seasonal flower, water, shade.	-	2	-	-
PC6. perform bee colony migration and management.	-	2	-	-
PC7. demonstrate type and Uses of grafting equipment.	-	2	-	-
PC8. ensure understanding about Artificial Queen rearing. etc.	-	2	-	-
<i>Honey/Wax Extraction</i>	12	4	-	-
PC9. explain uses of honey, Honey bee wax and its uses.	3	-	-	-
PC10. explain quality control of honey, extraction-filtration. indirect heating and storage.	3	-	-	-
PC11. explain wax extraction.	3	-	-	-
PC12. discuss about bee Enemies/ Pest/Diseases and management.	3	-	-	-
PC13. ensure practical understanding about the uses of honey, Honey bee wax and its uses, quality control of honey, extraction-filtration, indirect heating and storage	-	2	-	-

	PC14. ensure practical understanding about Bee	-	2	-	-
	<i>Pollination and other natural requirements</i>	9	8	-	-
	PC15. discuss about honey Bee in relation with agriculture.	3	-	-	-
	PC16. explain honey bee and pesticide poisoning.	3	-	-	-
	PC17. discuss honey production in relation to water.	3	-	-	-
	PC18. ensure practical understanding the honey bee in relation with agriculture and pesticide poisoning, honey production in relation to water.	-	4	-	-
	PC19. ensure practical understanding the role of organic farming and horticulture in relation with wild honeybee.	-	4	-	-
NOS Total		30	20	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N0208: Perform Bee colony capturing from	<i>Bee colony capturing from wild and introduction into hive</i>	8	20	-	-

wild and hive and Bee Botany and Preparation of floral calendar

PC1. explain overview of the process why and when bee colonies are captured from the wild.	2	15	-	-
PC2. discuss behavioral characteristics of wild bee colonies.	2	-	-	-
PC3. explain Techniques of Bee Colony	2	-	-	-
PC4. explain Hive selection and preparation for introducing wild colonies.	2	-	-	-
PC5. perform Bee colony capturing from wild and introduction into hive	-	5	-	-
<i>Bee Botany and Preparation of floral calendar</i>	7	15	-	-
PC6. explain definition and significance of bee botany in apiculture.	1	-	-	-
PC7. discuss and understand the relationship between bees and flowering plants.	2	-	-	-
PC8. explain importance of floral resources for bee nutrition and honey production.	2	-	-	-
PC9. explain Procedure for Herbarium collection and preservation.	2	-	-	-

	PC10. perform Practical exercises in documenting flowering periods of selected plant species.	-	5	-	-
	PC11. show how to do classification of floral resources: nectar, pollen, and other rewards.	-	5	-	-
	PC12. perform Herbarium collection and preservation	-	5	-	-
NOS Total		15	35	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N0209: Exposure Visit- opportunity to interact with successful beekeepers	<i>Exposure Visit- opportunity to interact with successful beekeepers</i>	20	30	-	-
	PC1. discuss setting objectives and expectations for the visit	5	-	-	-
	PC2. discuss identification of target beekeepers and scheduling visits.	5	-	-	-
	PC3. discuss Purpose of exposure visits: knowledge exchange, skill development, and inspiration.	10	-	-	-

	PC4. do exposure Visit- opportunity to interact with successful beekeepers and demonstration by the master trainer	-	30	-	-
NOS Total		20	30	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
SGJ/N0210: Ensure Management of resources and Opportunities	<i>Management of resources and Opportunities</i>	20	30	-	-
	PC1. discuss knowledge about Enterprise management. men. material and money.	10	-	-	-
	PC2. discuss knowledge on supporting agencies- KVIC, NABARD, DIC, SIDBI, MSME, Banks, etc.	10	-	-	-
	PC3. show knowledge about Enterprise management. men. material and money	-	15	-	-
	PC4. show knowledge on supporting agencies- KVIC, NABARD, DIC, SIDBI, MSME, Banks, etc.	-	15	-	-
NOS Total		20	30	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory	Practical	Project	Viva
DGT/VSQ/N0101: Employability Skills (30 Hours)	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
	PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
	PC4. speak with others using some basic	-	-	-	-
<i>Communication Skills</i>	1	1	-	-	

	PC5. follow good manners while communicating with others	-	-	-	-
	PC6. work with others in a team	-	-	-	-
	<i>Diversity & Inclusion</i>	1	1	-	-
	PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC8. report any issues related to sexual harassment	-	-	-	-
	<i>Financial and Legal Literacy</i>	3	4	-	-
	PC9. use various financial products and services safely and securely	-	-	-	-
	PC10. calculate income, expenses, savings etc.	-	-	-	-
	PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
	<i>Essential Digital Skills</i>	4	6	-	-
	PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-

PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-

Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDSM/SID or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SCGJ
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SCGJ monitors the assessment process & records

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SID
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)
- Question papers created by the SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified

- Assessment agency must follow the assessment guidelines to conduct the assessment
4. Types of evidence or evidence-gathering protocol:
- Time-stamped & geotagged reporting of the assessor from assessment location
 - Center photographs with signboards and scheme specific branding
 - Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
 - Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
5. Method of verification or validation:
- Surprise visit to the assessment location
 - Random audit of the batch
 - Random audit of any candidate
6. Method for assessment documentation, archiving, and access
- Hard copies of the documents are stored
 - Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
 - Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

On the Job:

OJT Monitoring Report

- As in Green Jobs Sector, reproducing the evidence for assessment is not feasible due to constraints like cost, confidentiality and controlled environment, every
- Apprentice is required to record the evidences performed during the OJT and the same gets authorized by his/her supervisor.
- The evidence recording is done in a structured monitoring report, termed as OJT Monitoring report.
- During the OJT, every trainee is required to fill the OJT monitoring report which is required to be signed by his/her supervisor.
- Towards the end of OJT period these reports are submitted with the HR department of company
- These duly submitted reports are then verified by an Industry nominated assessor for verification of evidence.

Theory, Practical & Viva:

- Scope – Is used to test the knowledge and understanding and skills acquired during the OJT as well as to conform the OJT monitoring report.
- Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation,

- patience
- etc) can also be tested, which is also required for the QP.
 - Tools – The assessment's questions should be aligned with the Qualification Pack, covering the PCs. There will be summative assessment at the end of the OJT.
 - Method – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions for Viva,
 - MCQ for the theory and performing QP related operations for practical. Different questions in theory, practical and viva are included to test relevant PCs from
 - the QP
 - Analysis – Assessor draws a spectrum of ready answers to be expected from trainee for Viva. This reduces effect of subjectivity of the assessor.
- Comparative
- Quality of trainees within a batch or different institutes can be gauged. The skill is gauged by observing the practical work.

Execution of OJT Assessment:

- HR department hands over the individual OJT monitoring report with Industry nominated assessor and schedules an assessment meeting for each trainee.
- Industry nominated assessor assesses each trainee based on OJT monitoring report, viva on each PC and also takes into account attendance of each trainee towards the end of the OJT period.
- The OJT marks are compiled for each NOS by the Industry nominated assessor and submitted with HR department of company.
- The OJT assessment results are then sent to SCGJ by HR department of company in a sealed envelope for compiling the assessment results in case of offline assessment.

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf

Annexure: Annexure: Career Progression and OM

