

NSQF QUALIFICATION FILE

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Ministry of Environment, Forest & Climate Change (MoEF&CC)
Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi- 110003

Name and contact details of individual dealing with the submission

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Position in the organisation: Joint Director, MoEF&CC

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List of documents submitted in support of the Qualification File

- 1. Curriculum with training plan (Annexure-I)**
- 2. Documentary Evidence of Need (Annexure-II)**

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SUMMARY

1	Qualification Title	Certificate Course in Bird Identification and Basic Ornithology
2	Qualification Code, if any	-
3	NCO code and occupation	-
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	<p>Nature of the qualification: Bird Identification and Basic Ornithology</p> <p>Purpose of qualification: Under the above said programme, a candidate will be inculcated with skills to identify birds based on key field characteristics for locally available birds. This would also various activities and behavioural patterns of the birds. Trainees would also be able to handle and use Smartphone on field for data collection regarding avifauna, use Google earth software for locating area.</p> <p>Short Term</p>
5	Body/bodies which will award the qualification	MoEF&CC
6	Body which will accredit providers to offer courses leading to the qualification	MoEF&CC
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Training programmes would be undertaken as part of the Green Skill Development Programme (GSDP) under the ENVIS Scheme. The courses would be run by the ENVIS Hubs (hosted by the respective State Government /UT Administration) and ENVIS Resource Partners (RPs)- (hosted by environment-related governmental and non-governmental organizations/ institutes of professional excellence) and other institutes. The assessment of the training programmes would be a regular exercise as part of the Memorandum of Cooperation signed with ENVIS Hubs and RPs and Memorandum of Understanding (MoU) between the ENVIS Hubs/RPs and other GSDP Partners. The courses would also be run by the Autonomous Bodies/Institutes

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		under the Ministry for which no MoC is required.
8	Occupation(s) to which the qualification gives access	Bird Guide/ Eco-tourist guides/Future conservationist / Field assistant in biodiversity research organization/Wildlife Sanctuaries/National Parks/ institute/Self employment
9	Job description of the occupation	Bird Guide/ Eco-tourist guides/Future conservationist / Field assistant/Self Employment
10	Licensing requirements	Permission from CCF, Forest Department
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	-
12	Level of the qualification in the NSQF	5
13	Anticipated volume of training/learning required to complete the qualification	160 hrs.
14	Indicative list of training tools required to deliver this qualification	Verbal Lectures, PPT Presentations, Demonstration, Field Visits, AV presentations.
15	Entry requirements and/or recommendations and minimum age	Class X th Pass/Class XII th Pass/ dropouts. Minimum Age: 18
16	Progression from the qualification (Please show Professional and academic progression)	Progress from Technical assistant to nature guide to tour operator
17	Arrangements for the Recognition of Prior learning (RPL)	There is no arrangement of RPL as of now
18	International comparability where known (research evidence to be provided)	Certificate course in Basic ornithology – Ela Foundation, India Ornithology BEN 102 – ACS Distance Education, Australia Home study course in Bird Biology – Cornell University, New York (Above courses are paid and few components are online unlike MoEF&CC's GSDP course. This course is emphasising on practicals, having employment opportunities after the course and is completely free.
19	Date of planned review of the qualification.	March 2020

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20	Formal structure of the qualification
	Mandatory components

Sr. No.	Title of component and identification code.	Mandatory/ Optional	Estimated size (learning hours)	Level
1	Introduction to the course	M	6	
2	Bird evolution and history	M	6	
3	Bird classification and diversity	M	8	
4	Adaptation in birds	M	8	
5	Birds and their habitats	M	8	
6	Bird behaviour	M	8	
7	How to observe birds	M	8	
8	Bird identification	M	8	
9	Birds and humans - Birds in culture - Bird as resource	M	8	
10	Threats to the bird	M	8	
11	Bird conservation	M	8	
12	Bird diversity of India and threatened birds of India	M	8	
13	Bird tourism as a livelihood	M	8	
14	Basics of Instrumentation - Binocular - Spotting scope - GPS - Camera	M	14	
15	Basics of IT skills - Introduction to Smartphone and its application in bird watching - Use of Google earth	M	10	
16	Field visit - Visit to forest - Visit to wetland	M	20	
17	Museum Visit	M	8	
18	Examination	M	8	5
	Total		160	

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Optional components			
	Title of component and identification code/NOSs/ Learning outcomes	Estimated size (learning hours)	Level
	NA	NA	NA
	Sub Total (B)	NA	NA

	<u>Total (A+B)</u>	160	5
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SECTION 1 ASSESSMENT

21	Body/Bodies which will carry out assessment: The assessments will be carried out by the evaluators of BNHS, Mumbai and SACON, Coimbatore. These evaluators would be chosen from the panel of experts who are not part of the trainers. Based on the evaluation, certificates will be issued.
22	How will RPL assessment be managed and who will carry it out? No RPL in this programme
23	Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF. The assessment will be done through theory, practical and viva exams at the end of the course. Moreover, students will be assessed regularly through questionnaires on every module in the classroom. For practical examination, the trainers as well as course supervisors will constantly keep a vigil on the trainees. Any errors committed by the trainees will be corrected immediately; learning by doing technique will be adopted for practical assessment. In theory, a final examination will be conducted at the end of the course, in which 50% scoring will be considered to be as qualifying marks. The Assessments will be conducted through English/Hindi/Regional language Questionnaires. The trainers will be involved in the assessment

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – ie Learning Outcomes to be assessed, assessment criteria and the means of assessment.

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24. Assessment evidences

Title of Component:

Sr . N o.	Learning Outcome	Outcomes to be assessed	Assessment criteria for the outcome
1	Bird evolution and history	The trainee will be able to <ul style="list-style-type: none">• relate / understand the process of evolution of birds• they could describe link between reptile and birds• describe how bird started flying	By question answer session at the end of the day
2	Bird classification and diversity	The trainee will be able to <ul style="list-style-type: none">• describe characteristics and diversification of birds• describe concept of classification	By conducting Evaluation Test
3	Adaptation in birds	The trainee will be able to describe various adaptation as per habitat and habits	By conducting Evaluation Test
4	Birds and their habitats	The trainee will be able to describe various habitat of birds (Wetland, Grassland, Forests, Seascapes etc)	By conducting Evaluation theory test and Viva-voce in field
5	Bird behaviour	The trainee will be able to describe various activities and behavioural patterns of the birds.	By conducting Evaluation theory test and Viva-voce
6	How to observe birds	The trainee will be able to use instruments for bird watching	By conducting Evaluation theory, practical test and Viva-voce on field and off field

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		(Binoculars, spotting scopes etc)	
7	Bird identification	The trainee will be able to observe, locate and identify local birds	By conducting Evaluation theory, practical test and Viva-voce on field and off field
8	Birds and humans - Birds in culture - Bird as resource	The trainee will be able to describe importance of birds in culture describe importance of birds in ecosystem or food chain etc.	By conducting Evaluation Test
9	Threats to the bird	The trainee will be able to describe natural and anthropogenic threats to avifauna	By conducting Evaluation Test
10	Bird conservation	The trainee will be able to describe importance of bird conservation	By conducting Evaluation Test
11	Bird diversity of India and threatened birds of India	The trainee will be able to describe concept of threatened birds and their types.	By conducting Evaluation Test
12	Bird tourism as a livelihood	The trainee will be able to conduct bird watching trails	By conducting Evaluation theory test and Viva-voce on field and off field
13	Basics of Instrumentation - Binocular - Spotting scope - GPS - Camera	The trainee will be able to Describe the importance and working with all instruments and use all the mentioned instruments on field.	By conducting Evaluation theory test and Viva-voce on field and off field
14	Basics of IT skills - Introduction to Smartphone and its application in	The trainee will be able to use Smartphone on field for data collection	By conducting Evaluation theory test and Viva-voce

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	bird watching - Use of Google earth	regarding avifauna, use Google earth software for locating area	
15	Field visit - Visit to forest - Visit to wetland	The trainee will gain experience of conducting field trails in different habitat types.	Trainee will be asked to lead a trail in small patches of forest and wetland.
16	Museum Visit	The trainee will be able to know importance of bird collection and its use for research and conservation.	By conducting Evaluation Test
17		Means of assessment 1 Theory and Practical exam on field and through Viva-voce	
		Means of assessment 2 Set up of relevant and qualitative questions, Multiple Choice Questions (MCQ) for theory assessment. Conducting practical exams on selective Modules.	
		Pass/Fail The pass mark for Theory exam (Multiple Choice Questionnaire) will be 40 out of 100. In Practical, 75 marks for Practical exam and 25 mark for viva-voce. Pass mark will be 50% aggregate.	

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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

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Title/Name of qualification/component: Certificate Course in Bird Identification and Basic Ornithology Level: 5			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process	Person may carry put a job which may require limited range of activities routine and predictable - Person trained under this scheme may perform a job which will require routine and predictable activities pertaining to identification of birds and catering needs of tourists. The trainee should be receptive, polite and knowledgeable in order to cater people. He should have basic knowledge of bird identification, distribution, their habitats and behavior.	The trained person can be technical assistant who has the knowledge of basic bird identification. He can be a forest watcher who knows about basic birds in the forest / protected areas where they are working. The person can be part of Environmental Impact Assessment (EIA) team. He can also be an independent bird guide in his local area or could be part of hospitality industry.	5
Professional knowledge	Basic facts, process and principle applied in trade of employment – The person will know basics of the ornithology. He will also have basic knowledge about data collection, instrument handling and management of tourists which is much needed nowadays. The trainees will be introduced to digitization of data and use of recent technologies (Computer / mobile) for data collection.	The trained person will have enough knowledge about the birds of surrounding forest, wetland, grassland or respective habitat. He will also have general knowledge about avifauna which will make him employable.	5
Professional skill	Recall and demonstrate practical skill, routine and repetitive in narrow range of application – This training programme is	The trained person should be able to collect data from the field using basic technologies such as mobile GIS and mobile based apps.	5

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	<p>combination of theory and practical. However, application of the learning is practical based. In addition to this technical skills for using mobile based technology will be enhanced. Major portion of the course will be conducted on field, through which trainee can understand how to use all knowledge practically on field. Also enough time will be given to practice on computers and mobiles.</p>	<p>He will have some exposure to data collection and data management. This will enable them to be part of forest department, wildlife research NGO's and EIA teams.</p>	
Core skill	<p>Communication written and oral, with minimum required clarity, skill of basic arithmetic and algebraic principles, personal banking, basic understanding of social and natural environment – During the course work, trainee will get an opportunity to improve his communication skills in the form of presentation to be given to the group or to examiners. Along with that the trainee will also come across communication with local people during field work which will help them get exposure to social and natural environment.</p>	<p>The core skill enhanced under this training is effective communication, public speaking, basic identification of the species and usage of appropriate technology.</p>	5
Responsibility	<p>Under close supervision some Responsibility for own work within defined limit – With the knowledge about identification of birds, data collection, data storage, basic mobile technologies, Google earth on computers, trainee can work with limited</p>	<p>Jobs like assistant to researchers, EIA teams and forest guards can be carried out by the person where he can work with responsibility under close supervision.</p>	5

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	responsibilities, under close supervision.		
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SECTION 3 EVIDENCE OF NEED

26	<p>What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?</p> <table border="1" data-bbox="339 434 1337 1339"> <thead> <tr> <th data-bbox="339 434 724 555">Basis</th> <th data-bbox="724 434 1337 555">In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</th> </tr> </thead> <tbody> <tr> <td data-bbox="339 555 724 913">Need of the qualification</td> <td data-bbox="724 555 1337 913">Bird Identification and Ornithology is a core concept and scientific methodology to study birds, which in turn provides technical inputs to the forestry and wildlife sector. A published paper is attached which endorse and highlights the birds specific and general characters. This will lead to bird habitat conservation and management.</td> </tr> <tr> <td data-bbox="339 913 724 1155">Industry Relevance</td> <td data-bbox="724 913 1337 1155">The curriculum/course syllabus has been jointly prepared by the Scientists/Experts in the BNHS, Mumbai and SACON, Coimbatore. They are the pioneer institutions in the Ornithology sector.</td> </tr> <tr> <td data-bbox="339 1155 724 1254">Usage of the Qualification</td> <td data-bbox="724 1155 1337 1254">The course has been designed under GSDP for the first time.</td> </tr> <tr> <td data-bbox="339 1254 724 1339">Estimated uptake</td> <td data-bbox="724 1254 1337 1339">Uptake 10 students at each location is envisaged.</td> </tr> </tbody> </table>	Basis	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)	Need of the qualification	Bird Identification and Ornithology is a core concept and scientific methodology to study birds, which in turn provides technical inputs to the forestry and wildlife sector. A published paper is attached which endorse and highlights the birds specific and general characters. This will lead to bird habitat conservation and management.	Industry Relevance	The curriculum/course syllabus has been jointly prepared by the Scientists/Experts in the BNHS, Mumbai and SACON, Coimbatore. They are the pioneer institutions in the Ornithology sector.	Usage of the Qualification	The course has been designed under GSDP for the first time.	Estimated uptake	Uptake 10 students at each location is envisaged.
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Usage of the Qualification	The course has been designed under GSDP for the first time.										
Estimated uptake	Uptake 10 students at each location is envisaged.										
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</p> <p>NA</p>										
28	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF?</p> <p>National Qualifications Register was searched online to assess if there was any similar qualification and no overlap was found with the existing qualification.</p>										
29	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?</p> <p>Feedback would be taken from experts, students and teachers regarding the course content, structure and timeline of the programme. Feedback will also be taken from the Centres conducting the course. Changes</p>										

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	suggested will be assessed by the Ministry before incorporating them in the curriculum. Next review will be done in March 2020.
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SECTION 4 **EVIDENCE OF PROGRESSION**

30	<p>What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?</p> <p>The course is designed in such a way that it will include major portion of bird Identification and basic ornithology. This can be base for studies / courses where data collection in the field, being part of survey and team member of Environmental Impact Assessment (EIA) team is crucial. This may further lead to being assistant in research work or becoming an entrepreneur who can be successful as bird guide.</p> <p>Bird Guide – Job specific training – Master Trainer/ Self Sustainable Entrepreneur/Consultant</p>
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Curriculum with training plan

Sr. No	Name of the topic	No of hours
1	Introduction to the course	6
2	Bird evolution and history	6
3	Bird classification and diversity	8
4	Adaptation in birds	8
5	Birds and their habitats	8
6	Bird behaviour	8
7	How to observe birds	8
8	Bird identification	8
9	Birds and humans - Birds in culture - Bird as resource	8
10	Threats to the bird	8
11	Bird conservation	8
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15	Basics of IT skills - Introduction to Smartphone and its application in bird watching - Use of Google earth	10
16	Field visit - Visit to forest - Visit to wetland	20
17	Museum Visit	8
18	Examination	8
	Total	160

- **Distribution of training duration into theory/practical/OJT component**
 - Theory – 50 Hrs;
 - Practical – 80 Hrs
 - OJT – 30 Hrs