

Qualification Code

QG-05-AG-00308-2023-V1.1-ASCI

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Agriculture Skill Council of India (ASCI)
6th floor, GNG Building, Plot No – 10, Sector- 44,
Gurugram, Haryana – 122004

Name and contact details of individual dealing with the submission

Name: Ms Priyanka Prakash

Position in the organization: Senior Manager – Standards & QA

Address, if different from above

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List of documents submitted in support of the Qualifications File

1. Qualifications Pack – Annexure 1
2. Model Curriculum – Annexure 2
3. Affiliation Protocol- Annexure 3
4. Industry Validations- Annexure 4

Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

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• **SUMMARY**

1	Qualification Title	Seed Analysis In-charge
2	Qualification Code, if any	AGR/Q7103, v3.0
3	NCO code and occupation	NCO-2015/NIL
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	<p>Nature of the qualification</p> <ul style="list-style-type: none">- a Qualification Pack (QP) <p>The main purpose of the qualification is -</p> <ul style="list-style-type: none">- to train the incumbent for supervising a variety of tests on seeds received in the laboratory. The person also ensures the readiness of the lab and lab equipment for conducting the tests.
5	Body/bodies which will award the qualification	Agriculture Skill Council of India (ASCI)
6	Body which will accredit providers to offer courses leading to the qualification	Agriculture Skill Council of India (ASCI)
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes (Annexure 3)
8	Occupation(s) to which the qualification gives access	Seed Production and Processing
9	Job description of the occupation	A Seed Analysis In-charge is responsible for supervising a variety of tests on seeds received in the laboratory. The person also ensures the readiness of the lab and lab equipment for conducting the tests.
10	Licensing requirements	NA
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence	NA

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	to be provided)	
12	Level of the qualification in the NSQF	Level 5
13	Anticipated volume of training/learning required to complete the qualification	480 hours (Theory: 120, Practical:150, ES:90, OJT: 120)
14	Indicative list of training tools required to deliver this qualification	Attached herewith
15	Entry requirements and/or recommendations and minimum age	<p>Minimum Educational Qualification: Completed 2nd year of UG OR Pursuing 2nd year of UG and continuous education OR Completed 2nd year of diploma (after 12th) OR Pursuing 2nd year of 2-year diploma after 12th OR 12th pass with 1-year Vocational Education & training (NTC or NAC or CITS) OR Completed 3-year diploma after 10th with 1-year relevant experience OR 12th Grade pass with 2- year relevant experience OR 10th Grade pass with 4-year relevant experience OR Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 3-year relevant experience OR Previous relevant Qualification of NSQF Level 4.5 with 1.5- year relevant experience Min Age: 18 years</p>
16	Progression from the qualification (Please show Professional and academic progression)	Seed Certification Officer (L6)
17	Arrangements for the Recognition of Prior learning (RPL)	<p>RPL assessment will be as per normal ASCI assessment process.</p> <p>(ASCI recognizes that there may be candidates who have prior learning experience in the Agriculture Sector</p>

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		and are desirous of being certified. Such candidates can apply to ASCI for testing and certification of their skills. Training Partners will be responsible for identifying and counselling candidates for RPL through mobilization camps and advertisements. The details of the RPL process have been defined by ASCI under the document- Guidelines for Recognition of Prior Learning under PMKVY).			
18	International comparability where known (research evidence to be provided)	Not done as yet			
19	Date of planned review of the qualification.	30/12/2024			
20	Formal structure of the qualification Mandatory components				
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)			Level
		Theory	Practical		
(i)	Introduction (Bridge Module)	5	0		
(ii)	AGR/N7110 Supervise the preparation of the lab, lab equipment and reagents	25	30		5
(iii)	AGR/N7112 Supervise the sampling and testing of seeds	30	60		
(iv)	AGR/N7113 Supervise the maintenance of seed analysis records	20	40		
(v)	AGR/N9911 Ensure adherence to health and safety guidelines at work	20	10		
(vi)	AGR/N9923 Manage and lead a team effectively	20	10		
(vii)	DGT/VSQ/N0103: Employability Skills (90 Hours) v1.0	90			

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	Total	210	150		
	OJT	120 Hours			

SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>ASCI affiliated assessment bodies.</p> <ol style="list-style-type: none">1. SHL India (Pvt.) Ltd2. Trendsetters Skill Assessors Pvt Ltd3. Mercer-Mettl4. SP Institute of Workforce Development(SPIWD)5. MSAG SI LLP <p>More Assessment Agencies are being empanelled to cover wider geographical area</p>
22	<p>How will RPL assessment be managed and who will carry it out?</p> <p>RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack and will be carried out as per normal ASCI assessment process. The Training Partner or any other authority as prescribed by the Steering Committee will identify and counsel candidates eligible for RPL through mobilization camps and advertisements. The mobilized candidates can be counselled, oriented about the standardized NSQF framework and basis their existing competency will be mapped against the suitable level of the concerned Job role for assessments. The candidates enrolled will be assessed by the Assessment Agency affiliated with the Sector Skill Council on the basis of assessment criteria decided by Sector Skill Council (SSC). The candidate will need to pass in the minimum assessment criteria of a particular QP decided by the SSC. Successfully assessed candidates with a valid Aadhaar or alternate ID (as per process) will be eligible for QP-NOS based Certification.</p>

23	<p>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.</p> <p>A robust technology enabled assessment methodology has been designed keeping in mind the geographical/Physical constraints and target segment which assess a trainee's knowledge and skill set through three methods:</p> <ol style="list-style-type: none">An offline Tablet based test through the use of Multiple Choice Text and Picture based questions in vernacular languagesActual demonstration on the fieldViva
	<p>ASCI's assessment strategy:</p> <ul style="list-style-type: none">• Question sets are developed as per the weightage of each NOS of the Qualification Pack.• Assessment criteria for each Qualification Pack developed, in which each Performance criteria (PC) assigned marks based on NOS• Question Bank is developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get different set of question• Empanelment of subject matter expert as assessor primarily from the Industry to assess trainee specifically on practical skills as per Industry demands <p>Assessments are preferably conducted on tablets or pen or papers in regional languages according to the requirement.</p>

Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

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

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

24. Assessment evidences**Title of Component:**

Outcomes to be assessed/ NOSs to be assessed	Assessment criteria for the outcome
Means of assessment 1	
Pass/Fail	

Job Role: Seed Analysis In-charge**Qualification Pack:** AGR/Q7103, v3.0**Sector Skill Council:** Agriculture Skill Council of India**Assessment Guidelines:**

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

AGR/N7110: Supervise the preparation of the lab, lab equipment and reagents					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Supervise the preparation of lab for seed testing</i>		10	12		10
PC1.	instruct the lab technician to apply the approved sanitiser/ disinfectant to sanitise the lab equipment, PPE and the lab	-	-	-	-
PC2.	ensure the lab has appropriate temperature and lighting conditions to conduct seed testing	-	-	-	-
PC3.	ensure all consumables and flammable items are removed from the lab	-	-	-	-
PC4.	arrange for the safe disposal of expired chemicals and solutions	-	-	-	-
PC5.	ensure the availability of physical registers/ a computer system to record the test observations	-	-	-	-
<i>Supervise calibration and maintenance of the lab equipment</i>		8	10		8
PC6.	instruct the lab technician to calibrate and handle the lab equipment as per the manufacturer and lab guidelines	-	-	-	-
PC7.	co-ordinate with the manufacturer for the calibration of equipment requiring expert assistance	-	-	-	-
PC8.	ensure labels are applied on the calibrated lab equipment for the purpose of identification	-	-	-	-
PC9.	arrange for periodical maintenance of the lab equipment as per the maintenance schedule	-	-	-	-
<i>Supervise the preparation of reagents</i>		8	10		8
PC10.	arrange the necessary chemicals, solvents, acids and distilled water for the preparation of reagents	-	-	-	-
PC11.	instruct the lab technician to measure the necessary chemicals, solvents and acids using the measuring jars for preparing reagents	-	-	-	-

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PC12.	ensure the usage of the relevant calibrated equipment for the preparation of reagents	-	-	-	-
PC13.	ensure that the chemicals, solvents, acids and distilled water are mixed in the recommended ratio	-	-	-	-
PC14.	instruct the lab technician to use the relevant heating/ cooling equipment to heat/ cool the mixture	-	-	-	-
PC15.	arrange for the prepared reagents to be stored in the required temperature and humidity	-	-	-	-
	<i>Manage the lab inventory</i>	4	8		4
PC16.	check the lab has the required lab equipment, Personal Protective Equipment (PPE) and necessary resources such as chemicals, solvents, acids and distilled water to carry out seed testing	-	-	-	-
PC17.	identify the worn-out or damaged lab equipment and PPE	-	-	-	-
PC18.	select a vendor to procure the lab equipment, PPE and resources	-	-	-	-
PC19.	purchase the required lab equipment, PPE and resources as per the requirement and in a timely manner to ensure uninterrupted lab operations	-	-	-	-
PC20.	use the relevant computer application to manage the lab inventory	-	-	-	-
NOS Total		30	40		30
AGR/N7112: Supervise the sampling and testing of seeds					
	<i>Oversee the sampling of seeds</i>	8	10		8
PC1.	ensure labelling of the seed lots received in the laboratory for the purpose of identification	-	-	-	-
PC2.	instruct the lab assistant to check the lot for the required quantity and weight for seed analysis	-	-	-	-
PC3.	ensure a sample is drawn from the lot according to the sampling guidelines	-	-	-	-
PC4.	analyse the physical composition of the seeds on parameters such as colour, appearance, texture	-	-	-	-

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PC5.	instruct the lab assistant to segregate the sample into pure seeds, other crop seeds, weed seeds and inert matter	-	-	-	-
PC6.	ensure selection of the pure seeds for analysis based on homogeneity	-	-	-	-
	<i>Supervise the testing of seeds</i>	12	14		12
PC7.	instruct the lab technician to perform the moisture test to check the level of moisture in the seeds and germination test to determine the germination potential of the seeds	-	-	-	-
PC8.	ensure the lab has a conducive environment to allow the emergence and development of seedlings from the seed embryo	-	-	-	-
PC9.	supervise the Tetrazolium (TZ) test to determine the viability of seeds	-	-	-	-
PC10.	oversee the seed vigour test to assess	-	-	-	-
	the field performance potential of the seeds				
PC11.	instruct the lab technician to perform the genetic and varietal purity test to evaluate the genetic and varietal purity of IoT technology-derived seed varieties	-	-	-	-
PC12.	supervise the seed health test to detect the presence of pathogens in the seeds	-	-	-	-
PC13.	ensure the seeds found to have pathogens are discarded safely as per the laboratory procedures	-	-	-	-
	<i>Optimise and ensure resource utilisation</i>	2	6		2
PC14.	follow the recommended practices to optimise the usage of water, electricity and various materials in different tasks and processes, and ensure the lab personnel also follow them	-	-	-	-
PC15.	turn off the electrical tools and equipment when not in use and ensure others do the same	-	-	-	-
	<i>Perform and ensure effective waste management</i>	8	10		8
PC16.	segregate waste into appropriate categories and ensure the lab personnel also follow the established practices regarding the same	-	-	-	-

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PC17.	dispose the non-recyclable waste and recycle the recyclable waste appropriately, ensuring others also do the same	-	-	-	-
	NOS TOTAL	30	40		30
AGR/N7113: Supervise the maintenance of seed analysis records					
	<i>Supervise the maintenance of records</i>	20	25		20
PC1.	ensure the records relevant to the seed lots such as the sample supplier information, batch number, receiving date are maintained	-	-	-	-
PC2.	instruct the lab technician to record details with respect to seed sampling such as physical composition, the quantity of pure seeds, sampling procedure, etc.	-	-	-	-
PC3.	ensure all the relevant records regarding the various tests performed during seed analysis such as germination, viability, Tetrazolium, vigour test are maintained	-	-	-	-
PC4.	instruct the lab technician to maintain the data of various chemicals, solvents and acids used in seed tests	-	-	-	-
PC5.	instruct the lab technician to maintain the record of the equipment used in seed analysis such as calibrations made to the equipment and any issues experienced with it	-	-	-	-
PC6.	ensure the data with respect to the seed lots tested is recorded	-	-	-	-
	<i>Arrange for storage and review of records</i>	10	15		10
PC7.	ensure the data is stored using the electronic system used by the organisation	-	-	-	-
PC8.	instruct the lab technician to create back up of the data to protect against accidental loss	-	-	-	-
PC9.	review the records to ensure they are up to date	-	-	-	-
PC10.	co-ordinate with the relevant personnel for the audit of the records	-	-	-	-
	NOS Total	30	40		30
AGR/N9911: Ensure adherence to health and safety guidelines at work					

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<i>Ensure health and safety</i>		16	18		16
PC1.	follow the organisational policy to ensure personal health and safety at the work	-	-	-	-
PC2.	ensure that all the co-workers use the appropriate PPE such as gloves, hairnet, mask, earplug, goggles and shoes in all the operations	-	-	-	-
PC3.	conduct regular checks to ensure that PPE, emergency equipment and first-aid kit are updated and useable	-	-	-	-
PC4.	arrange for the PPE, emergency equipment and first-aid kit to be updated/ replaced as required	-	-	-	-
PC5.	ensure the machinery, tools, equipment and the work area are sanitised before and after the use	-	-	-	-
PC6.	check that machineries, tools and equipment are used and stored safely as per the manufacturer's instructions	-	-	-	-
PC7.	ensure safe handling of any hazardous materials such as chemicals and flammable objects	-	-	-	-
PC8.	identify health and safety hazards at the work and take appropriate preventive measures	-	-	-	-
PC9.	ensure that only authorised personnel have access to hazardous work areas	-	-	-	-
PC10.	arrange for regular workplace audit to ensure safe working conditions	-	-	-	-
PC11.	report any out of authority issues to the relevant authority for a timely resolution	-	-	-	-
<i>Deal with emergencies at work</i>		14	22		14
PC12.	follow the organisational policy to deal with emergencies such as fire, accidents, disease outbreak or natural calamities	-	-	-	-
PC13.	arrange for immediate medical attention for any injured personnel	-	-	-	-
PC14.	ensure the safe use of emergency equipment according to the manufacturer's instructions	-	-	-	-

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PC15.	arrange for the emergency equipment to be repaired or replaced as required	-	-	-	-
PC16.	report workplace emergencies/ accidents to the relevant authority in compliance with the organisational and regulatory requirements	-	-	-	-
	NOS Total	30	40		30
	AGR/N9923: Manage and lead a team effectively				
	<i>Manage the team performance</i>	12	18		12
PC1.	prepare a work plan according to the tasks and the number of available team members	-	-	-	-
PC2.	allocate tasks to the team members according to their skills and roles	-	-	-	-
PC3.	arrange the necessary support and resources to help the team members perform their duties	-	-	-	-
PC4.	conduct regular team meetings/ briefings to communicate with the team members regarding their work objectives, projects, work progress, etc.	-	-	-	-
PC5.	monitor the performance of each team member and progress of the tasks assigned to them	-	-	-	-
PC6.	collect the team performance data and prepare the necessary reports	-	-	-	-
PC7.	evaluate the reports to identify the scope of improvement	-	-	-	-
PC8.	assist the team members with below standard performance in improving their performance	-	-	-	-
PC9.	arrange for reward and recognition for the team members with good performance	-	-	-	-
PC10.	arrange for relevant training and upskilling of the team members for their professional development	-	-	-	-
	<i>Maintain a fair and professional work environment</i>	10	16		8
PC11.	maintain professional relationships with the team members	-	-	-	-
PC12.	conduct counselling sessions to resolve conflicts among the team members and guide them regarding their professional development	-	-	-	-

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PC13.	communicate with the team members to understand their concerns and find appropriate solutions	-	-	-	-
PC14.	ensure equal and fair career progression opportunities for all the team members	-	-	-	-
	<i>Practice inclusion at work</i>	8	6		10
PC15.	ensure a conducive environment for all the genders and Persons with Disabilities (PwD) at the workplace	-	-	-	-
PC16.	promote appropriate behaviour and conduct with people across genders and PwD	-	-	-	-
PC17.	ensure appropriate verbal and non-verbal communication while interacting with PwD	-	-	-	-
PC18.	ensure equal participation of PwD and people across genders in workplace discussions	-	-	-	-
	NOS Total	30	40		30
DGT/VSQ/N0103: Employability Skills (90 Hours)					
	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. understand the significance of employability skills in meeting the current job market requirement and future of work	-	-	-	-
	PC2. identify and explore learning and employability relevant portals	-	-	-	-
	PC3. research about the different industries, jobmarket trends, latest skills required and the available opportunities	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC4. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
	PC5. follow environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
	PC6. recognize the significance of 21st Century Skills for employment	-	-	-	-
	PC7. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-

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PC8. adopt a continuous learning mindset for personal and professional development	-	-	-	-
<i>Basic English Skills</i>	3	4	-	-
PC9. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC10. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC11. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-
PC12. identify career goals based on the skills, interests, knowledge, and personal attributes	-	-	-	-
PC13. prepare a career development plan with short- and long-term goals	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC14. follow verbal and non-verbal communication etiquette while communicating in professional and public settings	-	-	-	-
PC15. use active listening techniques for effective communication	-	-	-	-
PC16. communicate in writing using appropriate style and format based on formal or informal requirements	-	-	-	-
PC17. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC18. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC19. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC20. identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.	-	-	-	-
PC21. carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook	-	-	-	-
PC22. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC23. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	3	5	-	-
PC24. operate digital devices and use their features				

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and applications securely and safely	-	-	-	-
PC25. carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc.	-	-	-	-
PC26. display responsible online behaviour while using various social media platforms	-	-	-	-
PC27. create a personal email account, send and process received messages as per requirement	-	-	-	-
PC28. carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications	-	-	-	-
PC29. utilize virtual collaboration tools to work effectively	-	-	-	-
<i>Entrepreneurship</i>	2	3	-	-
PC30. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC31. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC32. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	1	2	-	-
PC33. identify different types of customers and ways to communicate with them	-	-	-	-
PC34. identify and respond to customer requests and needs in a professional manner	-	-	-	-
PC35. use appropriate tools to collect customer feedback	-	-	-	-
PC36. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC37. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC38. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC39. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC40. answer questions politely, with clarity and confidence, during recruitment and selection.	-	-	-	-
PC41. identify apprenticeship opportunities and				

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register for it as per guidelines and requirements	-	-	-	-
NOS Total	20	30	-	-

SECTION 2

EVIDENCE OF LEVEL

OPTION B

Title/ Name of qualification/ component: Seed Analysis In-charge			Level: 5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none"> Supervise calibration and maintenance of the lab equipment Supervise the preparation of reagents Oversee the sampling of seeds 	A Seed Analysis In-charge is responsible for supervising a variety of tests on seeds received in the laboratory. The person also ensures the readiness of the lab and lab equipment for conducting the tests.	5
Professional knowledge	<ul style="list-style-type: none"> Optimise and ensure resource utilisation Manage the team performance Maintain a fair and professional work environment Supervise the maintenance of records Deal with emergencies at work 	The job holder is expected to have knowledge of equipment used in the laboratory and its maintenance procedures, procedure for calibration of equipment, types and categories of packaging materials, storage procedures for raw seeds, packaging materials and processed seeds, tests to be carried out for seeds, sampling procedure and sampling frequency for production/ process samples, details to be recorded of raw materials, finished products, packaging materials, production sample, control sample, etc.	5
Professional skill	<ul style="list-style-type: none"> Ensure health and safety Optimize resource utilization 	The job holder is required to accomplish tasks by identifying control measures to resolve the issue,	5

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	<ul style="list-style-type: none">• Deal with emergencies at work• Promote inclusion at work	visit the laboratory at regular intervals and perform checks based on the housekeeping checklist, calculate the percentage of normal seeds, abnormal seeds, hard seeds and fresh ungerminated seeds and report the final figure, handle and maintain tools (dead weights, calibrated measuring jars) and reagent (standard solutions) used for calibration of equipments following laboratory procedures and standards.	
Core Skills	<ul style="list-style-type: none">• Supervise the preparation of lab for seed testing• Manage the lab inventory• Supervise the testing of seeds• Arrange for storage and review of records	The job holder is expected to possess needs to note the raw materials used for production and finished products produced, read internal information documents sent by internal teams, communicate effectively with team members, document and maintain records of all seeds sampled, maintain records of any observations and deviations during the process, determine quality of seeds using pre-defined criteria.	5

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Responsibility	<ul style="list-style-type: none">• The user/individual must know and understand how to identify different types of seeds• supervising a variety of tests on seeds received in the laboratory• ensures the readiness of the lab and lab equipment for conducting the tests.• Supervise the preparation of reagents• Supervise calibration and maintenance of the lab equipment• instruct the lab technician to use the relevant heating/ cooling equipment to heat/ cool the mixture• Supervise the testing of seeds• Oversee the sampling of seeds• instruct the lab technician to perform the genetic and varietal purity test to evaluate the genetic and varietal purity of biotechnology-derived seed varieties	<p>The job holder needs to ensure that the team is aware of the schedule and job expectations on a daily basis, ensure communication with team on any changes in policies, share knowledge of processes, techniques, etc. with the team to enhance their skill levels, ensure participation of the team in various engagement initiatives organized by the organization, ensure periodic training of the team and support the team by delivering trainings especially in the field of latest technology, machinery and equipment.</p>	5
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SECTION 3**EVIDENCE OF NEED**

26	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?			
Basis				
Need of the qualification	<p>The agriculture and allied sector continue to be significant for the inclusive and sustainable growth of the Indian economy, according to industry interactions and a report published by ICAR, The Indian Seed Industry is the sixth largest in the world in value terms accounting for about 4.5% of global industry. The domestic seeds industry, currently valued at USD 3.2 billion, has grown at a CAGR of 8.4% in volumes terms over FY09 to FY15(P) to reach 3.5 million tonnes (consumption). Due to the increasing growth rate of this industry, more manpower is required within this sector to increase production and meet the growing demand. Indian population and contribute to roughly 17% of the GDP. Growth in GVA in agriculture and allied sectors stood at 4% in FY20.</p> <p>India is among the 15 leading exporters of agricultural products in the world. Agricultural export from India reached US\$ 38.54 billion in FY19 and US\$ 28.93 billion in FY20 (till January 2020).</p>			
Industry Relevance	<p>Validations have been received from Zuari Agro Chemicals Ltd, Seedworks International Pvt. Ltd, Ananya Seeds Pvt Ltd, Shakti Vardhak Hybrid Seeds Private Limited, DCM Shriram Ltd, Shriram Bioseeds Genetics,</p>			
Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of Seed Analysis In-charge shall provide opportunities to the incumbents for horizontal and vertical career progression. Competency-based training shall imbibe professionalism in the job-role. Being an important and ever-expanding job,</p> <p>The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Seed Analysis In-charge.</p>			
Estimated uptake	QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years

NSQF QUALIFICATION FILE**Approved in 14th NSQC Meeting – NCVET – 30th December 2021****Approved on file dated 07.02.2023**

	Seed Analysis In-charge	MADHYA PRADESH, ANDHRA PRADESH, PUNJAB, HARYANA, UTTAR PRADESH, MAHARASHTRA AND ASSAM	Various district of mentioned States	3000
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences Have received concurrence from the M&T Division, MoA & FW			
28	What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification This is the revised version of the already NSQC approved QP. The revision has been undertaken as the QP is going to expire soon.			
29	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? Specify the review process here Any institution or individual is welcome to send the feedback, which is recorded and considered during next review cycle. Communication will be sent for any feedback to all the main stakeholders/users one month prior to the review of the qualifications pack. A formal review is scheduled in three year.			

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4**EVIDENCE OF PROGRESSION****30**

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?

Show the career map here to reflect the clear progression

Career path in the agriculture sector is generally in terms of activities done & ownership of responsibility because they are primarily self-wage employment/ entrepreneurship roles.

Annexure 1: Career Map of Seed Analysis In-charge

NSQF Level 6

Seed Certification Officer

NSQF Level 5

Seed Analysis In charge

NSQF Level 4

Quality Seed Grower

NSQF Level 3

Seed Processing Worker

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.