

# NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

**NSDA Reference**

*To be added by NSDA*

## CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

### **Name and address of submitting body:**

Handicrafts and Carpet Sector Skill Council  
3rd Floor, OCF,  
Plot No. 2, Pocket – 9, Sector – B,  
Vasant Kunj,  
New Delhi – 110070

### **Name and contact details of individual dealing with the submission**

**Name:** Ms. Anupama Giri

**Position in the organisation:** CEO

**Address if different from above:** NO

**Tel number(s):** 011-26133165

**E-mail address:** ceo@hcsc.in

### **List of documents submitted in support of the Qualifications File**

1. Career Progression of Hand Embroidered Textiles Sub-Sector
2. List of QP/NOS validating companies
3. Qualification Pack
4. Minutes of the meeting of GC Consultation meeting
5. NSDC Human Resource & Skills Requirement in Handloom & Handicraft Sector
6. RFP for development of Occupational Standards
7. Selection process of the Consultants to develop Occupational Standards

# NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

## SUMMARY

<b>Qualification Title</b>	Jute Screen Printer
<b>Qualification Code</b>	HCS/Q7404
<b>Nature and purpose of the qualification</b>	- This is a Qualification Pack (QP) containing National Occupational Standards for the job role - Jute Screen Printer. The main purpose of the qualification and the target learners is to get unemployed people into work and to upgrade the skills of people already in work.
<b>Body/bodies which will award the qualification</b>	Handicrafts and Carpet Sector Skill Council (HCSSC)
<b>Body which will accredit providers to offer courses leading to the qualification</b>	Handicrafts and Carpet Sector Skill Council (HCSSC)
<b>Body/bodies which will carry out assessment of learners</b>	Handicrafts and Carpet Sector Skill Council (HCSSC)
<b>Occupation(s) to which the qualification gives access</b>	Natural Fibre Crafts
<b>Licensing requirements</b>	N/A
<b>Level of the qualification in the NSQF</b>	4
<b>Anticipated volume of training/learning required to complete the qualification</b>	360 Hours {(NOSs + Bridge module = 300)+ (Entrepreneurship and Soft Skills + Digital Literacy = 60)}
<b>Entry requirements and/or recommendations</b>	Basic literacy
<b>Progression from the qualification</b>	Master Printer
<b>Planned arrangements for the Recognition of Prior learning (RPL)</b>	A 3-day RPL program has been devised to certify the trainees.
<b>International comparability where known</b>	N/A
<b>Date of planned review of the qualification.</b>	2019
<b>Formal structure of the qualification</b>	

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

<b>Title of component and identification code.</b>	<b>Mandatory/ Optional</b>	<b>Estimated size (learning hours)</b>	<b>Level</b>
(i) HSC/N7408 Take charge of shift and handing over shift to Jute Screen Printer	Mandatory	60	4
(ii) HSC/N7409 Responsibility of Jute Screen Printer	Mandatory	110	4
(iii) HSC/ N 9005 Maintain work area and tools in handloom sector	Mandatory	30	4
(iv) HSC/N9006 Working in a team in handloom sector	Mandatory	30	4

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

<b>(v) HSC/ N 9007 Maintain health, safety and security at work place in handloom sector</b>	Mandatory	<b>30</b>	<b>4</b>
<b>(vi) HSC/ N 9008 Comply with work place requirements in handloom sector</b>	Mandatory	<b>30</b>	<b>4</b>

Qualification pack attached in annexure.

# NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

## **SECTION 1** **ASSESSMENT**

### **Body/Bodies which will carry out assessment:**

The assessment bodies affiliated to the Handicrafts and Carpet Sector Skill Council will carry out the assessment.

### **How will RPL assessment be managed and who will carry it out?**

*RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack. The process of RPL assessment is going to be managed by the Assessment agency affiliated by the HCSSC.*

### **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 is managed by the assessment agency using the question bank approved by the sector skill council which has both the theory and practical questions, the questions are then divided into many different sets so that all students don't get the same questions once the assessment is done the result is compiled and sent to the sector skill council. The NSQF level 2 and 3 qualifications has a passing marks of 50% and NSQF level 4 and above has 70% as passing marks.*

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

### ASSESSMENT EVIDENCE

<b>Assessment Criteria</b>	
<b>Job Role</b>	<b>Jute Screen Printer</b>
<b>Qualification Pack</b>	<b>HCS/Q7804, v1.0</b>
<b>Sector Skill Council</b>	<b>Handicrafts and Carpet</b>

Sr. No.	Guidelines for Assessment
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	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on these criteria.
5	To pass the Qualification Pack , every trainee should score a minimum of 80% in every NOS.
6	In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.
7	In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Practical Skills
HCS/N7408 Take charge of shift and hand over shift to Jute Screen Printer	PC1.come at least 10 - 15 minutes earlier to the work place	<b>100</b>	4	1	3
	PC2.collect or bring the necessary operational tools required by this Screen Printing department like tracing paper, drawing, glue, tapes, pencil/ pen/black ink, dichromate/Sensitizer, chemicals, PVA, gel, brush, squeeze screen, working light set, dryer		5	1	4
	PC3.meet the previous shift Jute Screen Printer and discuss with him/her regarding the issues faced by them with respect to the design quality, print paste quality, production, spare parts, accessories/ safety or any other specific instruction etc.		6	1	5
	PC4.understand jute fabric being printed & preparatory process undergone before printing		4	1	3
	PC5.ensure the technical details as mentioned on the job card display for each jute screen printer		5	1	4
	PC6.check for the availability of thickener/ binder/ catalyst/others ingredient for preparation of Print Paste correctly with required viscosity		6	1	5
	PC7.check the cloth and print paste for next batch to be printed is ready near the Print table		5	1	4

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

PC8.ensure the required Screen preparation chemicals/gels, dyes and pigments and chemicals like binder, catalyst, softener, wetting agent, kerosene/tarpin oil etc. are already weighed & prepared	6	1	5
PC9.check the error free, design imprinted and clean Print Screen and clean work areas	5	1	4
PC10.know from the previous shift printer for any deviation in the above and pass on the same knowledge of his/ her shift to the printer of next shift	4	2	2
PC11.take over the charge of present shift from the outgoing jute screen printer with sufficient brief of quality , process, shift etc.	6	1	5
PC12.ensure in providing the details regarding jute fabric quality & the process printing design running and Printing Paste in stock remained etc.	5	1	4
PC13.provide all relevant information regarding the loss of production/defects in printing and if any damage occur to the fabric or prints.	6	2	4
PC14.ensure the proper fitting of clips etc. for screen printing table	4	1	3
PC15.ensure the next lot of fabric to be printed is ready near the table already set & arranged properly	5	1	4
PC16.ensure the required Screen preparatory chemicals, Nylon Screen cloth, dyes & chemicals, binder etc. for the next lot or next shift of Screen printing work for jute fabric	5	1	4
PC17.get clearance from the incoming counterpart Jute Screen Printer before leaving the work spot	4	2	2
PC18.report to his/ her shift superiors as well as superiors of the incoming shift when the jute printer of next shift doesn't report	5	2	3
PC19.ensure the shift has to be properly handed over with all detailed information to the incoming shift Jute Screen Printer	4	1	3

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

	PC20.report to his/ her shift superior about the design /defects/print paste quality /fabric quality / production and safety during Screen printing, issues/ any other issue faced in his/ her shift and should leave the department only after getting clearance for the same from his/ her superiors		6	2	4
		<b>Total</b>	<b>100</b>	<b>25</b>	<b>75</b>
HCS/N7409 Responsibility of Jute Screen Printer	PC1.stretch the screen cloth on the back side of the frames evenly (creaseless) and fix it temporarily to keep for few hours	<b>100</b>	3	1	2
	PC2.re-stretch the mesh cloth again & stick it to the frame with glue or with cord/nails		3	1	2
	PC3.decrease the screen thoroughly using screen degreaser		3	1	2
	PC4.understand the design and colour combination mentioned in the work order, how to prepare the design on tracing with colour separation		3	1	2
	PC5.check the art work or the design film to be exposed / prepared		2	1	1
	PC6.cut the Nylon Screen fabric design required number of mesh as per size of screen/ screen frame		2	0	2
	PC7.draw the design as per color used on tracing paper		3	2	1
	PC8.check the design repeat and design measurement		2	0	2
	PC9.check the number of colours used and need to be printed in the specified design and do colour separation		2	1	1
	PC10.clean the screen frames and choose correct error free / defect free screen		2	0	2
	PC11.select the right mesh size of screen cloth depending upon the type of design to be printed (fine/coarse cloth)		3	1	2
	PC12.apply solvent resistant PVA Gel emulsion with Sensitizer mixed, evenly to the screen by brush		3	1	2
	PC13.dry the screen completely in dark before exposure, in low temperature dryer		2	0	2
	PC14.maintain optimum drying conditions in the drying chamber		3	1	2



## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

PC15.ensure the drying area is warm, dust free and dark (no light)	2	0	2
PC16.put the traced design over and above the screen mesh cloth and fix with glue and Tape with marking point properly placed	3	1	2
PC17.expose the screen with design tracing paper fixed at the back to be placed to light exposure unit	2	0	2
PC18. wash the exposed screen thoroughly to get the design part cleared and another part is hardened after two hours exposure	2	0	2
PC19.dry the screen completely for use	2	0	2
PC20.summarize the task mentioned in the work order (design, number of colours, fabrics, back ground colour of fabrics, Repeat unit/Border etc.)	3	1	2
PC21.ensure that the specified screen are properly washed and clean	2	0	2
PC22.check the fabric for its whiteness /colour /specification etc. and load the fabric from the batch/trolley in the center of the screen printing table or screen printing machine	3	1	2
PC23.apply glue /adhesive material to the printing blanket for sticking	2	0	2
PC24.ensure fabric is fed/laid as crease-free and lint/ dust free and surface is ready for printing from all aspects	2	0	2
PC25.place the specified screens with design as per work order on and above the table in sequence for varying number of colours etc. and those are to be put on Printing Table or Printing Head of the machine according to the colours to be printed	3	1	2
PC26.set the repeat according to the design to be printed as per measurement and marks on the screen	3	1	2
PC27.get all dyes or Pigments & printing chemical / auxiliaries (like Binder, Catalyst, Thickener or Kerosene oil or Tarpine oil) etc. are ready in specific quantity weighted	3	1	2

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

PC28.get and check the recipe / instruction and mix the gum/synthetic thickener/oil in water emulsion thickener, binder & other auxiliaries first to get the required viscosity by stirring well with stirrer	3	1	2	
PC29.dessolve and add specified dyes/ intake pigments emulsion to the above said thickening paste according to the shade and design to be printed on the cloth and filter the coloured print paste to avoid choke up of design screen	3	1	2	
PC30.check and put screen to 'zero' position on the print machine or print table blanket for proper fabric printing before starting to print fabric	3	1	2	
PC31.make the Screen print table and fabric laid on it (with glue on table blanket) and start of the printing & keep the squeeze ready and adjusting squeeze pressure by trial printing if registration is poor or uneven or proper	3	1	2	
PC32.maintain synchronized feed/laying of specified fabric for print in machine or Print Screen Table	2	0	2	
PC33.carryout printing with proper squeeze pressure and check for pin holes defects & other defects due to blockage of screen or any other reason	3	1	2	
PC34.take out the printed fabric and send to drying and stretching and /or curving and clean the screens, after printing is stopped for longer periods	3	1	2	
PC35.make sure the fabric is dried and stretched/ curved properly after printing	2	0	2	
PC36.keep the print table /Screens / Squeeze and Print machine always clean at all times and clean the printing blanket before changing to new design or new matching	3	1	2	
PC37.check the screens for any defect and repair/replace following preventive maintenance schedule and ensure that the print machine and stirrer and dryer etc. running smoothly	3	1	2	
PC38.check that all controls of screen printing and print fixation drying/stirring machine	2	0	2	
PC39.clean the printing blanket before changing to new design or new shade matching	2	0	2	
	<b>Total</b>	<b>100</b>	<b>25</b>	<b>75</b>

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

HCS/N9005 Maintain work area and tools in handloom sector	PC1.Handle materials and tools safely and correctly	50	5	2	3
	PC2.Use correct lifting and handling procedures		3	1	2
	PC3.Use materials in a manner to minimize waste		3	1	2
	PC4.Maintain a clean and hazard free working area		3	1	2
	PC5.Maintain the tools and equipment used		5	2	3
	PC6.carry out running maintenance within agreed schedules one's responsibility		5	2	3
	PC7.Identify damaged tools and materials and take action according to the standards followed		5	2	3
	PC8.Ensure that the correct tools and yarn required are in place		3	1	2
	PC9.Work in the correct posture		3	1	2
	PC10.Use cleaning equipment and methods appropriate for the work to be carried out		3	1	2
	PC11.Dispose of waste safely in the designated location		4	2	2
	PC12.Store cleaning equipment safely after use		3	1	2
	PC13.Carry out cleaning according to schedule and limits of responsibility		5	2	3
	<b>Total</b>	<b>50</b>	<b>19</b>	<b>31</b>	
HCS/N9006 Working in a team in handloom sector	PC1.Be accountable to the own role in whole process	50	6	2	4
	PC2.Perform all roles with full responsibility		5	1	4
	PC3.Be effective and efficient at workplace		4	2	2
	PC4.Properly communicate about workplace policies		5	2	3
	PC5.Talk politely with other team members and colleagues		5	2	3
	PC6.Submit daily report of own performance		6	2	4
	PC7.Adjust in different work situations		5	2	3

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

	PC8.Give due importance to others' point of view		5	2	3
	PC9.Avoid conflicting situations		5	2	3
	PC10.Improve upon the existing techniques to increase process efficiency		4	2	2
		<b>Total</b>	<b>50</b>	<b>19</b>	<b>31</b>
HCS/N9007 Maintain health, safety and security at work place in handloom sector	PC1.Comply with health and safety related instructions applicable to the workplace	100	6	2	4
	PC2.Use and maintain personal protective equipment as per protocol		6	2	4
	PC3.Carry out own activities in line with approved guidelines and procedures		4	1	4
	PC4.Maintain a healthy lifestyle and guard against dependency on intoxicants		4	1	3
	PC5.Follow environment management system related procedures		4	1	3
	PC6.Store materials and tools in line with manufacturer's and Cooperative Society/ NGO/ SHG requirements		4	2	2
	PC7.Safely handle and move waste and debris		4	2	2
	PC8.Minimize health and safety risks to self and others due to own actions		6	2	4
	PC9.Monitor the work place and work processes for potential risks and threats		6	2	4
	PC10.Carry out periodic walk –through to keep work area free from hazards and obstructions, if assigned		6	2	4
	PC11.Participate in mock drills/ evacuation procedures organized at the workplace		4	2	2
	PC12.Undertake first aid, fire-fighting and emergency response training, if asked to do so		6	2	4
	PC13.Take action based on instructions in the event of fire, emergencies or accidents		6	2	4

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

	PC14.Follow Cooperative Society/NGO/SHG procedures for evacuation when required		4	1	3
	PC15.Identify different kinds of possible hazards (environmental, personal, ergonomic, and chemical) of the industry		4	1	3
	PC16.Recognise other possible security issues existing in the workplace		4	1	3
	PC17.Planning the safety techniques		5	2	3
	PC18.Recognise different measures to curb the hazards		4	1	3
	PC19.Implementing the programs		5	2	3
	PC20.Communicate the safety plan to everyone		4	1	3
	PC21.Attach disciplinary rules with the implementation		4	1	3
		<b>Total</b>	<b>100</b>	<b>33</b>	<b>67</b>
HCS/N9008 Comply with work place requirements in handloom sector	PC1.Perform own duties effectively	50	5	2	3
	PC2.Take responsibility for own actions		5	2	3
	PC3.Be accountable towards the job role and assigned duties		5	2	3
	PC4.Take initiative and innovate the existing		3	1	2
	PC5.Focus on self-learning and improvement		5	2	3
	PC6.Co-ordinate with all the team members and colleagues		5	2	3
	PC7.Communicate politely		5	2	3
	PC8.Avoid conflicts and miscommunication		5	2	3
	PC9.Know the organisational standards		5	2	3
	PC10.Implement them in your performance		5	2	3
	PC11. Motivate others to follow them		2	1	1
		<b>Total</b>	<b>50</b>	<b>20</b>	<b>30</b>
		<b>Grand Total</b>	<b>450</b>	<b>141</b>	<b>309</b>

# NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

## SECTION 2

### EVIDENCE OF LEVEL

#### OPTION A

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>Work in familiar, predictable, routine, situation of clear choice: (Produce different jute diversified crafted products as per market demand or buyer's specification)</p> <ul style="list-style-type: none"> <li>understand jute fabric being printed &amp; preparatory process undergone before printing ensure the technical details as mentioned on the job card display for each jute screen printer</li> <li>check for the availability of thickener/binder/catalyst/other ingredient for preparation of Print Paste correctly with required viscosity</li> <li>check the cloth and print paste for next batch to be printed is ready near the Print table</li> <li>ensure the required Screen preparation chemicals/gels, dyes and pigments and chemicals like binder, catalyst, softener, wetting agent, kerosene/tarpin oil etc. are already weighed &amp; prepared</li> <li>check the error free, design imprinted and clean Print Screen and clean work areas know</li> </ul>	<p>A Jute screen printer operator gets work allotted by his supervisor and is responsible for maintaining the sewing efficiently so as to get maximum output with minimum defects, with less cost of production giving due importance to safety and environment aspects. He should carry out all the activities like uniform feeding, uniform printing, identification of defects on cloth, printing defects, defective products and minor defects of printing machine etc. This operator proactively identifies the causes that may result in machine faults and causes of irregular printing. ensure that quality and productivity is maintained.</p> <p>Hence NSQF Level is 4</p>	4

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p><i>from the previous shift printer for any deviation in the above and pass on the same knowledge of his/ her shift to the printer of next shift</i></p> <ul style="list-style-type: none"> <li>• <i>take over the charge of present shift from the outgoing jute screen printer with sufficient brief of quality , process, shift etc.</i></li> <li>• <i>ensure in providing the details regarding jute fabric quality &amp; the process printing design running and Printing Paste in stock remained etc.</i></li> <li>• <i>provide all relevant information regarding the loss of production/defects in printing and if any damage occur to the fabric or prints.</i></li> <li>• <i>ensure the proper fitting of clips etc. for screen printing table</i></li> <li>• <i>ensure the next lot of fabric to be printed is ready near the table already set &amp; arranged properly</i></li> <li>• <i>ensure the required Screen preparatory chemicals, Nylon Screen cloth, dyes &amp; chemicals, binder etc. for the next lot or next shift of Screen printing work for jute fabric</i></li> <li>• <i>get clearance from the incoming counterpart Jute Screen Printer before leaving the work spot</i></li> <li>• <i>report to his/ her shift superiors as well as</i></li> </ul>		

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>superiors of the incoming shift when the jute printer of next shift doesn't report</p> <ul style="list-style-type: none"> <li>ensure the shift has to be properly handed over with all detailed information to the incoming shift Jute Screen Printer</li> </ul>		
Professional knowledge	<p>Factual knowledge of field of knowledge or study:</p> <ul style="list-style-type: none"> <li>stretch the screen cloth on the back side of the frames evenly (creaseless) and fix it temporarily to keep for few hours</li> <li>re-stretch the mesh cloth again &amp; stick it to the frame with glue or with cord/nails</li> <li>decrease the screen thoroughly using screen degreaser</li> <li>understand the design and colour combination mentioned in the work order, how to prepare the design on tracing with colour separation</li> <li>check the art work or the design film to be exposed / prepared</li> <li>cut the Nylon Screen fabric design required number of mesh as per size of screen/ screen frame ensure to first weigh the scoured material (yarn/fabric)</li> <li>draw the design as per color used on tracing paper</li> </ul>	<p>A Jute screen printer needs to know the process flow and material flow in a handicrafts and carpet mill and concerned person for these activities. Should have understanding of different types of natural fibers, blended yarns, different types of printing machine and different types of yarns. Also, know the causes of printing defects, defects incurred due to man and machine faults and able to identify and also able to rectify minor defects. The importance of print quality, safety mechanisms of the machines, stop motions. Proper handing over shift and taking over shift is very important for continuance of the production. Also, should follow SOP and safety standards maintained by the company.</p> <p>Hence NSQF Level is 4</p>	4



## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> <li>• check the design repeat and design measurement</li> <li>• check the number of colours used and need to be printed in the specified design and do colour separation</li> <li>• clean the screen frames and choose correct error free / defect free screen</li> <li>• select the right mesh size of screen cloth depending upon the type of design to be printed (fine/coarse cloth)</li> <li>• apply solvent resistant PVA Gel emulsion with Sensitizer mixed,</li> <li>• evenly to the screen by brush</li> <li>• dry the screen completely in dark before exposure, in</li> <li>• maintain optimum drying conditions in the drying chamber</li> <li>• ensure the drying area is warm, dust free and dark (no light)</li> <li>• put the traced design over and above the screen mesh cloth and fix with glue and Tape with marking point properly placed</li> <li>• expose the screen with design tracing paper fixed at the back to be placed to light exposure unit</li> </ul>		

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> <li>• wash the exposed screen thoroughly to get the design part cleared and another part is hardened after two hours exposure</li> <li>• dry the screen completely for use</li> <li>• Summarize the task mentioned in the work order (design, number of colours, fabrics, back ground colour of fabrics, Repeat unit/Border etc.)</li> <li>• ensure that the specified screen are properly washed and clean</li> <li>• check the fabric for its whiteness /colour /specification etc. and</li> <li>• load the fabric from the batch/trolley in the centre of the screen printing table or screen printing machine</li> <li>• apply glue /adhesive material to the printing blanket for sticking</li> <li>• ensure fabric is fed/laid as crease- free and lint/ dust free and surface is ready for printing from all aspects</li> <li>• place the specified screens with design as per work order on and above the table in sequence for varying number of colours etc. and those are to be put on Printing Table or Printing Head of the machine according to the colours to be printed</li> </ul>		

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> <li>• set the repeat according to the design to be printed as per measurement and marks on the screen</li> <li>• get all dyes or Pigments &amp; printing chemical / auxiliaries (like Binder, Catalyst, Thickener or Kerosene oil or Tarpine oil) etc. are ready in specific quantity weighted</li> <li>• get and check the recipe / instruction and mix the gum/synthetic</li> <li>• thickener/oil in water emulsion thickener, binder &amp; other auxiliaries first to get the required viscosity by stirring well with stirrer</li> <li>• dissolve and add specified dyes/ intake pigments emulsion to the above said thickening paste according to the shade and design to be printed on the cloth and filter the coloured print paste to avoid choke up of design screen</li> <li>• check and put screen to 'zero' position on the print machine or print table blanket for proper fabric printing before starting to print fabric</li> <li>• make the Screen print table and fabric laid on it (with glue on table</li> <li>• blanket)and start of the printing &amp; keep</li> </ul>		

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p><i>the squeeze ready and</i></p> <ul style="list-style-type: none"> <li>• <i>adjusting squeeze pressure by trial printing if registration is poor or uneven or proper</i></li> <li>• <i>maintain synchronized feed/laying of specified fabric for print in machine or Print Screen Table</i></li> <li>• <i>carryout printing with proper squeeze pressure and check for pin holes defects &amp; other defects due to blockage of screen or any other reason</i></li> <li>• <i>take out the printed fabric and send to drying and stretching and /or curving and clean the screens, after printing is stopped for longer periods</i></li> <li>• <i>make sure the fabric is dried and stretched/curved properly after printing</i></li> <li>• <i>keep the print table /Screens / Squeeze and Print machine always clean at all times and clean the printing blanket before changing to new design or new matching</i></li> <li>• <i>check the screens for any defect and repair/replace following preventive maintenance schedule and ensure that the print machine and stirrer and dryer etc. running smoothly</i></li> </ul>		
Professional skill	<i>Recall and demonstrate practical skill, routine</i>	<i>A Jute screen printer plans and manages work</i>	4

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts:</p> <ul style="list-style-type: none"> <li>• Standard Operating Procedures (SOP) for preparation of Print Paste, recipe and method of Screen Printing of jute fabric by Pigment Colour or any other and all other procedure</li> <li>• the working procedure and regulations of a jute mill</li> <li>• safe working practices to be adopted in jute mill for Screen Printing Operation and other process</li> <li>• design idea, drawing, quality of fabric</li> <li>• quality systems and other processes practiced in the jute mill for screen printing and other department</li> <li>• reporting to the supervisor or higher authority and communicative procedures in case of any anomalies and emergency</li> <li>• design coding, Print Paste coding, fabric coding and color coding adopted for different jute decorative products in a jute mill</li> <li>• the importance of defects free quality &amp; productivity and design quality, pigment distortion and damage</li> </ul>	<p>routine based on instructions from supervisor, attends various programs/meetings, provides suggestions in interest of the company, extends voluntary support wherever required. Also, identifies the real cause of a problem and applies problem-solving approach to get the best suitable solution, refers defects to the supervisor and seeks clarification on problems from others. Ensures maximum utilization and minimum wastage of sliver and minimum machine breakdown time. Demonstrates repetitive skills like procedures for operating different material handling tools and Equipment.</p> <p>Hence NSQF Level is 4</p>	

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> <li>• reasons for various defects in jute fabric, print defects and any other defects in jute processing &amp; their remedy</li> <li>• step by step operation and process flow in a dyeing and printing process</li> <li>• material flow in a dyeing and printing department of a jute mill</li> <li>• functions of various equipment /accessories used and controls of the printing operations for Screen Printing</li> <li>• importance of material handling and types of material handling equipment being used in the dyeing and printing unit</li> <li>• importance of cleanliness at workplace</li> <li>• the functions of various alarm and signals</li> <li>• guidelines for printing operation and their setting</li> <li>• guidelines for taking charge of shift from previous shift Jute Screen Printer</li> <li>• guidelines for handing over the shift to the next shift Jute Screen Printer</li> <li>• safety procedures to be followed while carrying out the printing operation</li> </ul>		
Core skill	Language to communicate written or oral, with required clarity, skill to basic arithmetic and	A Jute screen printer able to convey clear and short sentences, makes daily work report, able to follow	4

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p><i>algebraic principles, basic understanding of social, political and natural environment:</i></p> <ul style="list-style-type: none"> <li>• <i>ensure to have a knowledge of measurement of Fabric cutting and finished size of the final product as per design</i></li> <li>• <i>check whether the look, shape, size and colour of the product are as per design or as per specified order</i></li> <li>• <i>report hazards and potential risks/ threats to supervisors or other authorized personnel</i></li> <li>• <i>equipment operating procedures / supervisor's instructions</i></li> <li>• <i>ensure that exact measurement of jute has been taken into consideration to give the proper width and length of the cloth</i></li> <li>• <i>write clear and short sentences</i></li> <li>• <i>communicate with supervisor appropriately</i></li> <li>• <i>talk to others to convey information effectively</i></li> <li>• <i>communicate effectively in simple language</i></li> <li>• <i>write daily work report</i></li> <li>• <i>write grievance complaint application</i></li> <li>• <i>respond to emergencies, accidents or fire at</i></li> </ul>	<p><i>written instructions, communicates with the supervisor appropriately and talks to others to convey information effectively. Applies problem-solving approaches in different situations during the production and performs basic maintenance work required during the production process for quality and uninterrupted output.</i></p> <p>Hence NSQF Level is 4</p>	

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p><i>the workplace</i></p> <ul style="list-style-type: none"> <li><i>evacuate the premises and help others in need while doing so</i></li> </ul>		
Responsibility	<p><i>Responsibility for own work and learning:</i></p> <ul style="list-style-type: none"> <li><i>check whether proper quality is maintained for jute, jute fabric, pigment color etc.</i></li> <li><i>Check fastness property of pigment in case the product is printed. Also the dye used should not be harmful to user.</i></li> <li><i>check whether the look, shape, size and colour of the product are as per print design or as per specified order</i></li> <li><i>report to his shift superiors as well as that of the incoming shift in case his/her counterpart doesn't come for duty, in that case, the shift has to be properly handed over to the incoming shift superior &amp; clearance got from him.</i></li> <li><i>report to his shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the same from his/ her superiors</i></li> <li><i>focus on self-learning and improvement</i></li> <li><i>report unsafe equipment and other dangerous occurrences</i></li> </ul>	<p><i>A Jute screen printer takes charge of the shift after discussing in detail the issues faced with respect to the quality, production and safety, reports to his shift superior about issues faced in his shift and leaves the department only after getting concurrence for the same from his/her superiors. He is also responsible for maintaining work area, tools and machines and contributes in making the work place healthy, safe and secure and follows the industry &amp; organizational compliances.</i></p> <p><i>Hence NSQF Level is 4</i></p>	4



## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

Title/Name of qualification/component: <b>Jute Screen Printer</b>		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"><li>• <i>carry out cleaning according to schedules and limits of responsibility</i></li><li>• <i>submit daily report of own performance</i></li><li>• <i>be accountable to the own role in whole process</i></li></ul>		

# NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

## SECTION 3

### EVIDENCE OF NEED

#### **What evidence is there that the qualification is needed?**

Please refer to the attached list of job roles and occupations as per the attachment and their career path as per Annexure 1, which have been derived through extensive industry interactions facilitated from 2 workshops, 15 emails and 15 visit / one-on-one discussion conducted and interaction with 61 representatives from different organizations all over the country. 31 industries comprising of Large & Medium scale Industries, and 30 Small scale industries were involved in the validation process to make the Qualification Packs viable to the current Jute Industry requirements.

#### **What is the estimated uptake of this qualification and what is the basis of this estimate?**

Skill gap report for Handicrafts and Carpet (Jute) Sector 2011-2022

Need of Skill development training:

To reduce the gap of manpower shortage at workers level or operator level in Jute Mills

To reduce the gap of manpower shortage at Jr Supervisors Level in Jute Mills

To source and to reduce the gap of manpower shortage at operator/artisan or self-employable person in JDP manufacturing by appropriate training in JDP sector.

To increase self-confidence /employability amongst trainees and to increase their future earnings after training through this project activities.

To Develop of Knowledge and Skill of Workers' & Junior Level Supervisors' and JDP manufacturing operators/Dyers/Printers /Weavers and Stitches etc.

To Improve Productivity and Quality of jute products in both Jute mill sector and JDP sector

ERNST & YOUNG report:

ERNST & YOUNG on 23.11.2010 made a report on Manpower need assessment & implication that Jute Industry is Labour intensive and requires technical manpower and skilled workforce to run mill operations. 2.5 lakh workers across different function, another 1.5 lakh workers is associated indirectly with the allied sector.

Jute mill Sector (Centralized Jute Sector) has really shortages of skilled workers, mistries and sardars and there is also dearth of skilled artisans/skilled operators, stitiches, weavers, dyers and printers etc. in Jute Diversified Product (JDP) manufacturing sector. Moreover, this industry has no arrangement of structured HRD training Programmes in this industry. So, any structured and tailor made HRD training Programme for this sector will be much beneficial for industry to improve productivity and maintenance of quality as well as improvement in work culture showing good overall impact in both of this Jute Mill and JDP sector.

Gap analysis:

Population of training requirement: Out of about 2.5 lakhs workers in jute mills, there are 20-30 % shortage of manpower at this level and out of requirement about 1.5 lakhs of manpower requirement in JDP sector there are shortages of about 0.50 lakhs skilled operator for JDP sector. Hence there is a need of taking such a training activities for jute sector.

Technical Staff Recommended Available Gap

Technically qualified (Jute + Other Engg.) 704327 (39%)

Technically qualified (Jute)422418 (42%)

Work Force

Jute Mill Sector Considering annual 1-2 % (Avg. 1.5 %) superannuation of Jute mill 5,000-6000 workers will be required annually for all the Jute Mills in India

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

JDP Sector Growth of its share from 10% to 20 % by the end of 12th five-year plan period requiring additional manpower about 7,500 per year

SOURCE: REPORT OF ERNST & YOUNG SUBMITTED TO NJB IN MARCH, 2011

During preparation of 12th Five Year plan proposal for HRD for jute sector on behalf of NJB, Mot, Got that there is huge requirement of manpower in jute industry as well as in JDP sector (mainly Sewer, handloom weavers, dyers and printers etc.). Considering annual 1-2 % (Avg. 1.5 %) superannuation of Jute mill workers and supervisors, there is requirement of about (considering 40 man-days per ton and total production of Jute goods is 16 lakh metric ton) about 5,000-6000 workers will be required annually for all the Jute Mills in India (about 72 Jute Mills) and hence IJT has planned to train about 5000 trainees in each year for next 5 yrs. While in JDP Sector there is plan for growth of its share from 10% to 20 % by the end of 12th five-year plan period, requiring additional manpower about 7,500 per year and hence IJT has planned to train about 6,000 persons per year in decentralized sector (JDP sector). Moreover total no. of supervisor /technical staff requirement in jute industry as a whole considering about 2-2.5 % of total workers strength is 5000. Out of 5000 supervisor, if annual retirement and dissociation is considered to be around 10%, the annual requirement of new Supervisors in all the Jute Mills will be around 500 per year.

**What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF?**

QPs for Job Roles of various related SSC's were studied to ensure that there is no duplicity.

**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?**

- Agencies have been appointed by the SSC to interact with training providers to gather feedback in implementation.
- Monitoring of results of assessments
- Employer feedback will be sought post-placement
- A formal review is scheduled in two year time i.e. 2019

# NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

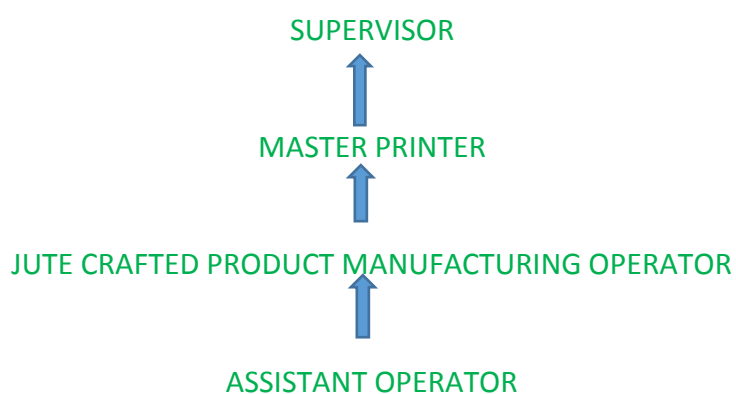
## SECTION 4

### EVIDENCE OF PROGRESSION

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?

1. Vertical mobility options have been articulated in the occupational map
2. Vertical mobility option is of a Master Printer

#### Career Progression



#### List of companies validated the QP

Sl.No.	Name of the Company	Size of the Company
1	Kumbhira Minority Mission	Medium
2	Bansberia Ancient Heritage & Research Society	Medium
3	Parbati Womens World Welfare Organization	Small
4	Bhabna Association for Peoples Upliftment	Medium
5	Jogendra Institute of Social Upliftment	Small
6	Burdwan Jutex Udyog	Medium
7	M/S Hasta Udyog	Medium
8	Society for Welfare and Development to Indian People	Small
9	Padmapukur Diganta Mahila Kalyan Society	Small

## NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

10	Care Home	Small
11	Nawapara Laxminarayan Khadi -O- Gramonnayan Mahila Samity	Medium
12	Shilpi Niketan	Small
13	Craft Combine,	Small
14	Green Harmony,	Small
15	Keliapathar Sabuj Sangha & Library,	Small
16	South Kadamtala Rural Welfare Society,	Small
17	Kaibolyananath Development Public Charitable Trust,	Small
18	Kalighat Society for Development Facilitation,	Small
19	Revati Commercial Pvt. Ltd,	Medium
20	MURDS,	Medium
21	Margdarshak,	Medium
22	Maa Jute Bag Industry	Small
23	Avyans Group,	Small
24	Simantini, Bhattapukur,	Small
25	Tripura Jute Mill Play Centre,	Medium
26	Yuba Welfare Society	Small
27	Shilparghya, Maheshtala	Small
28	Matri Mandir Organisation for Voluntary Efforts	Small
29	Birbhum Makarampur Krishi Kalyan Sansthan	Small
30	Ghonja Sree Ramkrishna Seva Samity	Small