

NSQF QUALIFICATION FILE GUIDANCE

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Handicrafts and Carpet Sector Skill Council
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List of documents submitted in support of the Qualifications File

1. Career Progression of Handicrafts (Ceramics) Sub-Sector
2. List of QP/NOS validating companies
3. Requirement and recommendation letter from Line Ministry
4. Qualification Pack
5. Curriculum
6. Minutes of the meeting of GC Consultation meeting
7. NSDC Human Resource & Skills Requirement in Handloom & Handicraft Sector
8. RFP for development of Occupational Standards
9. Selection process of the Consultants to develop Occupational Standards

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SUMMARY

1	Qualification Title	Engraving Artisan (Metal Handicrafts)
2	Qualification Code, if any	HCS/Q2902
3	NCO code and occupation	NCO-2015/7313.19 Engraver
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	- Qualification pack, To prepare people to work in the Metal ware sector
5	Body/bodies which will award the qualification	Handicrafts and Carpet Sector Skill Council (HCSSC)
6	Body which will accredit providers to offer courses leading to the qualification	Handicrafts and Carpet Sector Skill Council (HCSSC)
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	The accreditation/affiliation would be processed only through the link below: http://smart.nsdcindia.org/
8	Occupation(s) to which the qualification gives access	Metal craft making
9	Job description of the occupation	The individual at work is responsible for preparing the surface of the metal and raw materials, Creating the design onto the metal surface, checking for defects, ensuring it matches the prescribed design and requirements, adhering to quality standards.
10	Licensing requirements	N/A
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	The said job role is required in the respective sector (evidence attached in Annexure 3)
12	Level of the qualification in the NSQF	4
13	Anticipated volume of training/learning required to complete the qualification	340{(NOSs + Bridge module = 280)+ (Entrepreneurship and Soft Skills + Digital Literacy = 60)}
14	Indicative list of training tools required to deliver this qualification	Laptop, white board, marker, projector, PPTs, Handbook, Engraving tool, Ink, hammer, chisel, graver, magnifier, knife, cutter, Surface grinder, rubbing paper, buffing machine, etching chemical, marker, scale, tracing paper, carbon paper, design patterns, Computer system,

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		printer, Protective gears like goggles, mask, gloves. Cleaning tools, electricity tester, accident report sheet	
15	Entry requirements and/or recommendations and minimum age	Basic literacy, preferably 5th class pass	
16	Progression from the qualification (Please show Professional and academic progression)	Shift in charge / Production in charge	
17	Arrangements for the Recognition of Prior learning (RPL)	A 3-day RPL program has been devised to certify the trainees.	
18	International comparability where known (research evidence to be provided)	N/A	
19	Date of planned review of the qualification.	2020	
20	Formal structure of the qualification		
	Mandatory components		
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level
(i)	HCS/N2902 Perform pre engraving requirements	70	4
(ii)	HCS/N2903 Engrave design on the metal surface	90	4

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(iii)	HCS/N9901 Coordinate with colleagues and work as a team	30	4
(iv)	HCS/N9902 Maintain safe work environment	30	4
(v)	HCS/N9903 Maintain personal health	20	4
(vi)	HCS/N9904 Basic business management	30	4
Total		270	

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SECTION 1 ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>The assessment bodies affiliated to the Handicrafts and Carpet Sector Skill Council will carry out the assessment.</p> <ul style="list-style-type: none">• Rational Multi Skills (RMS)• Trendsetter Skill Assessors• CEE Vision Technologies Pvt. Ltd.• Cindrel Technologies Private Limited• NICE Educational & Welfare Trust
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. The process of RPL assessment is under development.</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>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.</p>

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ASSESSMENT EVIDENCE

Assessment Criteria	
Job Role	Engraving Artisan (Metal Handicrafts)
Qualification Pack	HCS/Q2902, v1.0
Sector Skill Council	Handicrafts and Carpet

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 each PC.
2	Each NOS will assessed both for theoretical knowledge and practical
3	The assessment will be based on knowledge bank of questions created by the SSC.
4	Individual assessment agencies will create unique question papers for theory and skill practical part for each candidate at each examination/training center
5	To pass the Qualification Pack, every trainee should score a minimum of 70% 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

Assessable Outcomes	Assessment Criteria	Total Marks (600)	Out Of	Theory	Skills Practical
HCS/N2902 Perform pre engraving requirements	PC1. understand the engraving method for its shape, style, materials, etc.	100	9	4	5
	PC2. understand the design requirement		8	4	4
	PC3. understand the areas to be engraved		8	4	4
	PC4. plan the target on number of pieces to be completed		8	4	4
	PC5. select the appropriate tool such as hammer, chisel, gravers, magnifier, etc. to engrave		9	4	5
	PC6. sharpen the tools periodically		8	4	4
	PC7. collect and arrange the materials to begin the process		8	4	4
	PC8. report on any shortage or defect of raw materials to the concerned person		8	4	4
	PC9. ensure to stock the required materials in advance		8	4	4
	PC10. collect the metal product to be engraved		8	4	4
	PC11. clean the surface of the metal using a wet cloth and soapy water		9	4	5
	PC12. dry the surface		9	4	5

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		Total	100	48	52
HCS/N2903 Engrave design on the metal surface	PC1. choose the appropriate engraving method based on the type of metal used	100	7	3	4
	PC2. choose the appropriate raw materials according to the engraving method		7	3	4
	PC3. trace or outline the design on the metal surface i.e. cut the design onto the surface		7	3	4
	PC4. use the appropriate tool such as graver, hammer, chisel, etc. for engraving styling selecting the tool with appropriate shape and size as required		7	3	4
	PC5. use appropriate tools for hand engraving method for smaller space iHCSriptions		7	3	4
	PC6. level the inner surface		7	3	4
	PC7. carve the design or letters on the metal surface as per design requirement		7	3	4
	PC8. perform shading to the engraved portion		7	3	4
	PC9. add varnish to the engraved portion		7	3	4
	PC10. ensure not to apply too much force during cutting or engraving		7	3	4
	PC11. ensure to use safety measures such as respirator, mask, etc.		7	3	4
	PC12. ensure accuracy, cleanliness and designing in the engraving process as per requirement		7	3	4
	PC13. ensure the target number of pieces are engraved		8	4	4
	PC14. ensure the output delivered is defect free and hazard free		8	4	4
	Total	100	44	56	
HCS/N9901 Coordinate with colleagues and work as a team	PC1. receive job order and instructions from reporting supervisor	100	4	3	1
	PC2. understand the work output requirements, targets, performance indicators and incentives		5	4	1
	PC3. deliver quality work on time and report any anticipated reasons for delays		5	1	4
	PC4. report on any grievances, production defects and any potential hazards		4	2	2
	PC5. communicate on process flow improvements		4	2	2
	PC6. communicate maintenance and repair schedule proactively to the supervisor		4	1	3

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PC7. receive feedback on work standards	4	2	2
PC8. interact and clarify doubts on design, usage of materials & tools, quality & standards compliance, etc	5	2	3
PC9. report in time for shortage or need of raw materials	4	1	3
PC10. handover completed work to supervisor	4	2	2
PC11. communicate to the colleagues from within and other departments, clearly and effectively on all aspects to carry out the work among the team	5	2	3
PC12. maintain the etiquettes, use polite language, demonstrate responsible and disciplined behaviours to the colleagues	5	2	3
PC13. interact with colleagues from different functions and understand the nature of their work	4	2	2
PC14. put team over individual goals and multi task or share work where necessary supporting the colleagues	4	2	2
PC15. resolve conflicts and ensure smooth workflow	4	1	3
PC16. interact and understand the production requirement for the day from the previous and successive processing department and work accordingly	4	1	3
PC17. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement	4	1	3
PC18. receive feedback from Quality Control and rework in order to complete work on time	5	1	4
PC19. share information with colleagues to enable efficient delivery of work	6	3	3
PC20. highlight any errors of colleagues, help to rectify and ensure quality output	4	2	2
PC21. work with cooperation, coordination, communication and collaboration, with shared goals and supporting each others performance	4	1	3
PC22. document all the details accurately relating to one's role as required	4	1	3
PC23. report on the work completed and keep it in records	4	1	3
Total	100	40	60

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HCS/N9902 Maintain safe work environment	PC1. comply with safety procedures while on work to prevent accidents	100	8	2	6
	PC2. take adequate safety measures while handling materials, chemicals and tools		8	2	6
	PC3. wear appropriate personal protective gears such as gloves, protective goggles, masks etc. while working		8	2	6
	PC4. undertake basic safety checks before operation of all tools and electrical equipments		9	2	7
	PC5. wear appropriate and recommended clothing as per the work environment (eg: working in a furnace area)		9	2	7
	PC6. follow recommended material handling procedure to control material and personal damage		8	2	6
	PC7. perform all procedures as per company's work instructions for controlling operational risk		8	4	4
	PC8. perform the duties in a manner which minimizes environmental damage		6	2	4
	PC9. dispose of waste safely and correctly in a designated area as per company's SOP		8	2	6
	PC10. report any accidents, incidents or problems without delay to the supervisor and take necessary immediate action to reduce further danger		8	4	4
	PC11. ensure zero accident at workplace		10	2	8
	PC12. adhere to safety standards and ensure no material damage		10	2	8
	Total	100	28	72	
HCS/N9903 Maintain personal health	PC1. always cover the mouth and nose with a dust mask while working and keep on changing when it gets blocked with dust	100	12	4	8
	PC2. follow work instructions strictly to reduce the amount of pollution at the work place e.g. wet the rock / craft material before working on it		10	2	8
	PC3. wear protective goggles over eyes and replace them when scratches on it obscure the vision		10	2	8
	PC4. wear gloves as per the materials used for making handicraft to avoid blisters; scratches and cuts		10	2	8

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	PC5. undergo preventive health checkups at regular intervals		10	2	8
	PC6. take prompt treatment from the doctor in case of illness		11	3	8
	PC7. follow SOPs for dealing with blisters; scratches; accidental fires or any other type of emergencies at work		11	4	7
	PC8. ensure no productivity loss or absenteeism from work due to illness		13	3	10
	PC9. ensure no long term ill effect on the personal health		13	3	10
		Total	100	25	75
HCS/N9904 Basic business management	PC1. allot work to the employees of the unit according to their skill and experience	100	3	1	2
	PC2. train the employees of his/her unit with the appropriate skills required to make market relevant and quality products		3	1	2
	PC3. motivate the employees		2	1	1
	PC4. handle the grievances/issues that are raised by the employees		2	1	1
	PC5. manage the employee expectations		2	1	1
	PC6. gather and analyse the cues from the market		2	1	1
	PC7. ascertain the customer preference		3	1	2
	PC8. create product lines based on current market preference		3	1	2
	PC9. create product lines that are unique and able to price high		3	1	2
	PC10. price the products according to market trends		3	1	2
	PC11. decide the best way to market the product lines		3	1	2
	PC12. make a list of raw materials required according to the product lines		2	0	2
	PC13. ascertain the quantity and right price to procure the materials		3	1	2
	PC14. identify the right locations/agents from where the raw materials can be procured		3	1	2
	PC15. negotiate to get the best price		3	0	3
	PC16. ensure quality materials are procured		4	1	3
	PC17. ensure the procured materials are stored in appropriate conditions		3	1	2
	PC18. maintain the bills and record the prices of procurement for future		3	1	2

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	reference				
	PC19. maintain healthy vendor relationships		3	1	2
	PC20. identify the nearest market		3	1	2
	PC21. analyze the prevalent price for product lines		3	2	1
	PC22. decide on the most effective means to access the market		2	1	1
	PC23. plan for cost effective transportation to the market		3	1	2
	PC24. position the product according to market requirements		3	1	2
	PC25. manage customer expectations		2	0	2
	PC26. analyze and ascertain the cost of production		3	1	2
	PC27. maintain the book of accounts related to the business		3	1	2
	PC28. own and operate a bank account		4	2	2
	PC29. identify cost effective means of running business		3	1	2
	PC30. identify various aspects of business that require recording		3	2	1
	PC31. create formats for recording		3	2	1
	PC32. make various records pertaining to all aspects of business		3	2	1
	PC33. maintain these records with periodic updation		3	2	1
	PC34. maintain necessary documents as per local government and regulatory requirement		3	2	1
	PC35. analyze the records and glean various trends from the same		3	2	1
		Total	100	40	60

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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Engraving Artisan (Metal Handicrafts)		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>The incumbent works in familiar and predictable routine of engraving in metal ware manufacturing. The situation of clear choice (descriptor of level 4) is evident through the following examples-</p> <ul style="list-style-type: none"> • choose the appropriate raw materials according to the engraving method • pattern to be created • Choose the appropriate tools such as graver, hammer, chisel, etc. for engraving styling selecting the tool with appropriate shape and size as required. 	<p>This is not of level 5 which requires clear choice of procedures, as here the procedure is standardised by the limited methods of engraving defined by the metal used.</p>	4
Professional knowledge	<p>The incumbent has factual knowledge of field of knowledge or study which is in this case includes engraving in metal ware manufacturing</p> <p>Examples:</p> <ul style="list-style-type: none"> • Metal craft details • metal making process and types of 	<p>This is not level 5 as there is a requirement of principles and general concepts at level 5 which is not required here. Also not level 3 as this level as outlined above requires factual knowledge of field of study and not mere basic facts, process and principle knowledge of trade of employment</p>	4

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Title/Name of qualification/component: Engraving Artisan (Metal Handicrafts)			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"> • products • various kinds of raw materials involved in the process • different kinds of engraving methods to be used based on the requirement • preparation of the metal surface • creating designs and tracing the outline • imagination, creativity and familiarity with engraving style • tools, consumables and equipment for engraving 		
Professional skill	<p>Most of the work involves recall and demonstration of practical skill, is routine and repetitive and in a narrow range of application. The incumbent also uses appropriate rule and tool and quality concepts to complete their work. This is evident through:</p> <ul style="list-style-type: none"> • use the appropriate tool such as graver, hammer chisel, etc. for engraving styling selecting the tool with appropriate shape and size as required • use appropriate tools for hand engraving method for smaller space 	This is not level 5 as it is missing required cognitive skills and range of methods for problem solving.	4

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Title/Name of qualification/component: Engraving Artisan (Metal Handicrafts)			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>inscriptions</p> <ul style="list-style-type: none"> ensure not to apply too much force during cutting or engraving 		
Core skill	<p>The incumbent needs language to communicate written or oral, with required clarity, to interact with customers, various departments, supervisors, personnel and teams, confirm requirements and communicate the same for shared understanding. Also prepare a range of routine documentation.</p> <p>Examples:</p> <ul style="list-style-type: none"> how to read and write the notes from design how to read company policy documents interact with team members to work efficiently communicate effectively with supervisor <p>The incumbent also needs skill pertaining to basic arithmetic and algebraic principles, for calculating various quantities and parameters, etc.</p> <p>For example:</p> <ul style="list-style-type: none"> how to plan for daily production 	Oral and written communication skills are required with clarity.	4

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Title/Name of qualification/component: Engraving Artisan (Metal Handicrafts)			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"> • how to plan for budget • The incumbent works with responsibility for own work and learning, which is evident from the incumbent's deliverables and also there is no responsibility for the learning of others therefore this is not level 5. • ensure accuracy, cleanliness and designing in the engraving process as per requirement quantities and parameters, etc. <p>For example:</p> <ul style="list-style-type: none"> • how to plan for daily production • how to plan for budget and material requirement • plan the target on number of pieces to be completed 		
Responsibility	<ul style="list-style-type: none"> • ensure accuracy, cleanliness and designing in the engraving process as per requirement • ensure the target number of pieces are engraved • ensure the output delivered is defect free and hazard free 	The incumbent works with responsibility for own work and learning, which is evident from the incumbent's deliverables and also there is no responsibility for the learning of others therefore this is at level 4.	4

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Title/Name of qualification/component: Engraving Artisan (Metal Handicrafts)			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"> interact with colleagues from different functions and understand the nature of their work communicate and discuss work flow related difficulties in order to find solutions with mutual agreement. 		

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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?		
	<p>Basis</p> <p>Need of the qualification</p> <p>Industry Relevance</p> <p>Usage of the qualification</p> <p>Estimated uptake</p>	<p>In case of SSC</p> <p>While collecting data from the companies for the occupational map, we also took feedback from industry, which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the Industry feels they face. Governing council of HCSSC gave final approval and endorsement for the same.</p> <p>This job role is required in the specific industry and thus is also validated by organizations of the industry – the list of which is attached below</p> <p>It would used for training purposes to skill and up-skill candidates.</p> <p>Employed in the role: 15000; Estimate uptake 5000 based on requirements for existing and prospective workforce on the basis of Skills Gap analysis Reports and</p>	<p>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</p>

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	<p>validation of skill gap study through feedback from industry for demand. An LMIS development initiative is being put in place to be more precise regarding the demand and supply.</p>
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</p> <p>Recommendation received from the office of Development Commissioner (Handicrafts), Ministry of Textiles, Govt. Of India (evidence attached in Annexure 3).</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? Give justification for presenting a duplicate qualification</p> <p>NSDC list of Approved and Under-Development QPs was checked prior to commissioning the work.</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? Specify the review process here</p> <ul style="list-style-type: none"> • 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. 2020

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> <ol style="list-style-type: none"> 1. Vertical mobility options have been articulated in the occupational map 2. Vertical: Shift in charge / Production in charge; Horizontal: Embossing artisan
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Career Progression:

Metal Craft Production																			
Metal Casting & Stamping				Metal craft making						Cleaning / Polishing / Buffing		Painting & Plating			Lathe work management				
Production incharge																			
										Polishing Supervisor		Painting / Colouring Supervisor			Plating Supervisor		Workshop Foreman		
Ca sti ng op era tor	Fur nac e Ope rator	Die mak er	Sta mpi ng op era tor / Pre ssm an	Emb ossin g artis an	Engr aving artis an	Inlay Artisa n	Etch ing Artis an	Cutt ing Mac hine Ope rator / Cutt er	Threa ding / Drill ing Oper ator	Acid Clea ner	Polis her	Sketc her & Paint er	Pow der coat ing tech nici an	Lac quer ing tech nici an	Plating techni cian / oper ator	Weld er	Tur ner	Iron Fab ricat or	
				Grinding / Filing Artisan															
Furnace Operation helper		Helper		Hammering artisan		Helper				Material handler / Helper		Helper							

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List of companies validated the QP

Sl.No	Name of the Company	Size of the Company
1	Overcare Markets Pvt Ltd	Medium
2	Visba	Large
3	Globe Exports Corporation	Medium
4	Dewan & Sons	Large
5	Fantasy Exports	Large
6	Akash International	Small
7	Dewan India	Medium
8	Rozy International	Small
9	R.I. Collections	Medium
10	Images Inc.	Small
11	Images Exports	Small
12	KLK International	Medium
13	Sitlax India	Small
14	Lee-Za International	Large
15	Palak International	Medium
16	Paramount Home Collections	Large
17	SAG New Look Home Art Collection	Large
18	Iqbal Paramount Metal Industries	Medium
19	Interseas Metal Finishings	Small
20	Sahar Arts Valley	Medium
21	Global Exports	Small
22	Sealine Collections	Medium
23	Rudraksh International	Medium
24	HAQ Brothers	Large
25	Euro Collection	Small
26	Brassex India	Large
27	Horizon's Collection	Medium
28	Horizon Enterprises	Medium
29	Moradabad Handicrafts Of India	Large
30	Fine Finish Handicrafts	Medium
31	Galaxy Exports	Medium
32	Bansal Impex	Large
33	Artesia Collections	Small
34	ZS Creations	Small
35	Abidsons	Small
36	India Design	Medium
37	Indian Touch	Medium
38	New Design Exports	Small