# NSQF QUALIFICATION FILE

**Approved in 23rd NSQC Meeting, 22nd August, 2019**

**NSDA Code**

**2019/TEXT/MOT/3231**

## CONTACT DETAILS OF SUBMITTING BODY

### Name and address of submitting body:

Textiles Committee (Ministry of Textiles, Govt. Of India)

P Balu Road, Prabhadevi Chowk,

Mumbai - 400025

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

**Name** : Kartikay Dhanda

**Position in the organisation** : Director (Lab)

**Address if different from above** : same as above

**Tel numbers** : 022-66527519, 66527520

**E-mail address** :tcrsaisds@gmail.com, dlab.tc@nic.in

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

1. Career map of Hand Block Printing Operator
2. Hand Block Printing Operator Course Module
3. Format for RFP for Assessment Agency Accreditation from RSA
4. Assessment Protocol developed by RSA
5. Skill gap report for textile sector
6. Assessment Sheet
7. Photographs and attendance sheet of validation program.

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## SUMMARY:

| | | |
|---|---|---|
| **1** | **Qualification Title** | **Hand Block Printing** |
| **2** | **Qualification Code, if any** | TC HLM 03 |
| ***3*** | **NCO code and occupation** | NCO-2015/7318.05 |
| **4** | **Nature and purpose of the qualification (Please specify whether qualification is short term or long term)** | A certificate course under ISDS (A project of Govt. Of India)<br>Purpose: To convert a non worker (layman) into a worker (able to do block printing) |
| **5** | **Body/bodies which will award the qualification** | Textiles Committee (RSA) under the Ministry of Textiles |
| **6** | **Body which will accredit providers to offer courses leading to the qualification** | Ministry of Textiles/ Office of Textile Commissioner / Resource Support Agency (Textiles Committee) |
| **7** | **Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)** | N/A |
| **8** | **Occupation(s) to which the qualification gives access** | Hand Block Printing Operator |
| ***9*** | **Job description of the occupation** | A Hand Block Printing Operator- gets work (programme) allotted by his supervisor and is responsible for carrying out operating all activities, giving due importance to safety and environmental aspects. |
| **10** | **Licensing requirements** | N/A |

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| **11** | **Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)** | N/A |
| **12** | **Level of the qualification in the NSQF** | 2 |
| **13** | **Anticipated volume of training/learning required to complete the qualification** | 300 hrs |
| **14** | **Indicative list of training tools required to deliver this qualification** | • Printing table<br>• Blocks of different designs<br>• Washers and boiler for steaming |
| **15** | **Entry requirements and/or recommendations and minimum age** | • The candidate should be able to read and write in any language<br>• Minimum 14years of age |
| **16** | **Progression from the qualification (Please show Professional and academic progression)** | Hand Block Printing Operator to hand block printing jobber |
| **17** | **Arrangements for the Recognition of Prior learning (RPL)** | N/A |
| **18** | **International comparability where known (research evidence to be provided)** | N/A |
| **19** | **Date of Planned Review Of the qualification** | 2021 |

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| 20 | **Formal structure of the qualification**<br><br>**Mandatory components** |
|---|---|

| **Title of component and identification code/NOSs/Learning outcomes** | **Estimated size (learning hours)** | **Level** |
|---|---|---|
| Theoretical Knowledge to impart relevant basic technical information of the machines and its operations | 60 | 2 |
| Practical knowledge of the course to understand the work practises and operating the machines. | 210 | |
| Soft Skills to improve safety, behavior, hygiene, attitude, etc. | 30 | |
| **sub total** | **300** | |

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum

1: Hand Block Printing Operator course module – Annexure II

## SECTION 1

**ASSESSMENT:**

| 21 | **Body/Bodies which will carry out assessment:**<br><br>The Assessment Agencies empanelled under Resource Support Agency (Textiles Committee) will carry out the Assessment.<br><br>Details of the documents:<br>list of Assessment Agencies empanelled under Resource Support Agency (Textiles Committee) is mention below. |
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| **22** | **How will RPL assessment be managed and who will carry it out?**<br><br>N/A |
| **23** | **Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.**<br><br>a) The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria.<br>b) The assessment Sheets are developed by Subject Matter Experts (SME) available with the Resource Support Agency.<br>c) The assessments sheets are also checked for the various outcome based parameters such as technical knowledge, soft skills, Practical Knowledge, & equipment requirement, etc.<br>d) The assessments are designed so as to assess maximum parts during the practical hands on work.<br>e) The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit that they are not associated with any other assessment agencies or any training partner to avoid any conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.<br>f) The assessment agencies are instructed to Ideally have assessor with right mix of industry experience, academia and these are detailed in Assessment Protocol<br>g) The documents of the assessors selected by Assessment Agencies are then forwarded to RSA for further scrutiny.<br>h) The selected assessors are provided with unique assessor id by RSA as per the assessment protocol.<br>i)<br>The assessment results are backed by evidences collected by assessors. |

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| | 1. The assessor ensures that the attendances of the trainees are equal to or more than 60%.<br>2. The assessor needs to verify the authenticity of the candidate by confirming the biometric identity. In case of suspicion, the assesso should authenticate and cross verify trainee's credentials in the enrolment form.<br>3. The assessor collects the assessment summary sheet with signature of both the assessor and the Implementing Agency's coordinator after successful completion of the assessment.<br>4. The assessor also needs to carry a photo ID card.<br>5. The assessor verifies whether the training infrastructure is in compliance to the criteria as set by RSA.<br>6. The details on assessment are elaborated in the Assessment Protocol developed by RSA.<br><br>All accredited Assessment Agency follow the "Assessment Protocol developed by RSA". Each course module comprises of soft skills, theoretical part and practical and accordingly the assessment sheets are prepared. The marks for the theoretical and practical assessment, in total, are calculated and the candidates acquiring marks equal to or more than 60% are declared pass. |

Please attach any documents giving further information about assessment and/or RPL.

Give details of the document(s) here:

1. Format of RFP for AA Accreditation from RSA- Annexure III
2. Assessment Protocol Developed by RSA – Annexure IV

## 24. ASSESSMENT EVIDENCE:

**Title of Component:**

| Outcomes to be assessed/NOSs to be assessed | Assessment criteria for the outcome |
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| **Practical Outcome:**<br><br>• Proper use of the Blocks.<br>• Printing paste preparation.<br>• Proper curing and washing of the printed fabric. | • The operator will print a design given by the assessor on sample fabric of about 50 to 100 cm.<br>• The operator will prepare a printing paste according to the recipe given by the assessor.<br>• The trainee should have a proper knowledge of the post printing process like curing and washing. He/she will be asked by the assessor to do the same for the sample fabric. |
| **Theoretical Outcome:**<br>• Knowledge of basic textile terms.<br>• Functions of different chemicals used.<br>• Importance of curing and washing.<br>• Printing defects & their remedies.<br>• Safety precautions | • The trainee will be asked different questions (given in the assessment sheet) about basic textile terms by the assessor.<br>• The assessor will ask different questions about functions of various chemicals used in printing paste.<br>• The assessor will ask different questions about importance of curing and washing after printing.<br>• The assessor will ask him/her about different type of printing defects and their remedies.<br>• General questions about safety precautions will be asked by the assessor. Example: what safety precaution will you take before starting printing. |
| **Means of assessment 1** | Theoretical and practical knowledge would be assessed separately with the help of |

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| | questionnaire (already attached above) |
| **Means of assessment 2** | N/A |
| **Pass / Fail** | Qualified or Not qualified. Only after qualifying the certificate will be awarded. |

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## SECTION 2

### 25. EVIDENCE OF LEVEL

| Title / Name of qualification / component: Hand Block printing | Outcome of the Qualification/Component | How the outcomes relates to the NSQF level descriptors | NSQF level |
|---|---|---|---|
| **Process** | A Hand Block Printing Operator- gets work (programme) allotted by his supervisor and is responsible for carrying out operating all activities like printing paste preparation, printing the fabric and the post printing treatments. | The process like printing paste preparation, printing and the post printing treatments etc. are the work which are having repetitive nature. This work is done by the operator on regular basis to do printing with a little understanding. | 2 |
| **Professional Knowledge** | A Hand Block Printing Operator needs to know the process like printing table preparation, printing paste preparation, curing &washing etc. Understanding of various defects of printing. Understanding of importance of | The printer has to print different fabrics with different designs. In this way he/she will work with high efficiency, focus on the quality of the product and he/she will make sure | 2 |

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| | quality and productivity. Importance of proper handing over shift and taking over shift. Able to follow the SOP and safety standards, etc. maintained by the industry | that there should be least wastage. | |
| **Professional Skills** | The printer takes charge of shift and do printing on routine basis on instructions from supervisor, provides suggestions in the interest of the industry, and extends voluntary support wherever required. Also identifies the cause of a problem and applies problem-solving approach to get the best suitable solution, refers defects/erratic functioning of the machine to the supervisor. | Limited service skills used in limited context like operating the machine etc. He/she will assist in professional work like to told about any special defects in the machine while working on it.<br>He/she will know about the defects of the product so that he/she could differentiate the good and bad quality. | 2 |
| **Core Skills** | This operator writes clear and short sentences, comprehends written instructions, communicates with the supervisor appropriately and talks to others to convey information effectively. Applies problem-solving approaches in different situations during the | Receive and transmit written and oral messages like the operator received written instruction from the shift officer and transmit them to the helper. The operator knows basic calculations like addition, subtraction etc. | 2 |

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| | production and performs basic calculations required during the production process for quality and uninterrupted output. Safe handling of tools and equipments. Will be able to set the machine according to the design required. Ensures proper functioning of the machine. Knows personal financing and understands social, political and religious diversity, hygiene and environment. | | |
| **Responsibility** | This operator takes charge of the shift after discussing in 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. He is not responsible for any mishap and works under instructions with close supervision. He contributes in making the work place healthy, safe and secure and follows the industry compliances. | As the operator leave the premises after discussing the issues faced during the shift, no responsibility lies on the operator. The shift supervisor takes up the matter and resolves the problem, if any. The operator works under instruction and close supervision of the supervisor. | 2 |

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## SECTION 3

## EVIDENCE OF NEED

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| **26** | **What evidence is there that the qualification is needed? What estimated uptake of this qualification and what is the basis of this estimate?** | | |
| | **Basis** | **In Case Of SSC** | **In case of other Awarding Bodies (Institutes under Central Ministries and states departments)** |
| | **Need of the qualification** | | Different course validation programs were conducted the details of which is mentioned below:<br>1. Validation program of Spinning and Weaving course modules developed by RSA was conducted at **Coimbatore** (Ref. RSA fortnightly report as on 29.05.2015 to MoT).<br>2. Validation program of Processing, Knitting and Apparels course modules developed by RSA was conducted at **Tirupur** (Ref. RSA fortnightly report as on 29.05.2015 to MoT).<br>3. Workshop on course content validation was |

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| | | | held in **New Delhi** on 29.06.2015.<br>4. One day orientation program on course content and assessment on 13th August, 2015 was conducted in **New Delhi**.<br>5. Two validation programs were conducted at **Ludhiana** and **Panipat** on 2nd June, 2015 and 03rd June, 2015 respectively.<br>6. Industrial consultation workshop with the stake holders, traders and industry for course content developed by RSA was organized on Saturday. 31.05.2015 at **Coimbatore** for validation.<br><br>Participants from Industry, Implementing Agencies and Assessment Agencies participated in the validation programs. Based on the feedback from participants suitable modifications in |

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| | | | the course module were incorporated and also some more modules were developed. |
| | **Industry Relevance** | | This job role is required in the specific industry and also validates by organisation of the industry. The list of which is attached below. |
| | **Usage of qualification** | | It will be used for training purpose to convert a non worker into a worker. Also to skill and up-skill the candidates. |
| | **Estimated uptake** | As per the report of NSDC on Human Resource and Skill Requirement in Textile and Clothing Sector (2013-17, 2017-22) (Annexure-5): Currently, 15.23 million people are employed in the textile subsector across yarn and fabric, home textiles, technical textiles and readymade garments. Human resource requirement in the sector is expected to reach 21.54 million by 2022 translating into 6.31 million additional employment opportunities during the period 2013-22. Also the National Textile Policy aims to create 35 million jobs and achieve exports worth INR 18 lakh crores by 2024-25 with the help of investments. Draft | |

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| | | proposal for the same was submitted by expert panel constituted by the government on 28th July, 2014. |
| **27** | **Recommendation from the concerned Line Ministry of the Government / Regulatory Body. To be supported by documentary evidences.**<br><br>Textiles Committee as Resource Support Agency (RSA) is itself submitting the said qualification as per the direction of MoT. | |
| 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.**<br><br>QPs for Job Roles of various related SSC's were studied to ensure that there is no duplicity for the claimed levels i.e. level 2 | |
| 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.**<br><br>Version 1 of the courses has been prepared and uploaded on Textiles Committee website and next version will be prepared by September 2018. Feedback for the courses will be collected 6 months prior to the revision and format for the said purpose will be prepared and uploaded to TC website for receiving the comments from the stake holder for any change, if required, in the said course. Further, the feedback form will be sent to all the Implementing Agencies under MoT for their necessary comments before taking the exercise of revision of version-1.<br>After receiving feedback and compiling the same the necessary amendments, if required, will be made and all the course will be revised by the team of experts in the domain field. | |

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Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

1. Skill gap report for textile sector_2008-2022– Annexure V

## SECTION 4

## EVIDENCE OF PROGRESSION:

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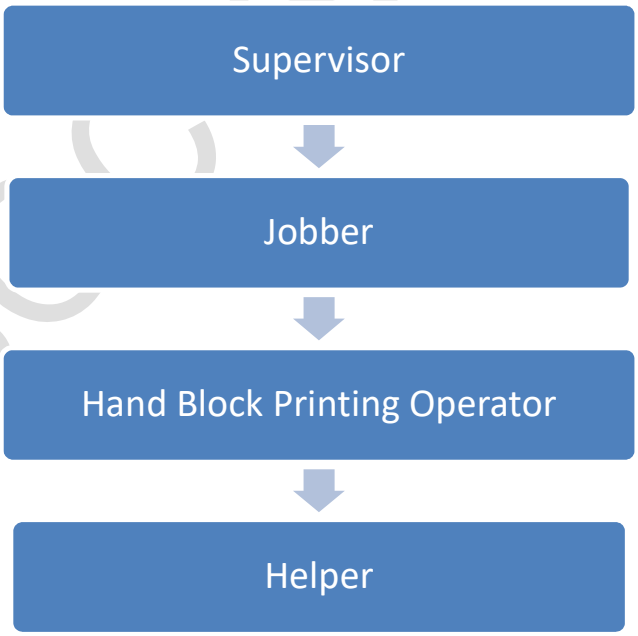
| 30 | **What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?**<br><br>**Show the career map here to reflect the clear progression**<br>By acquiring this qualification the Hand printing operator will be able to prepare the printing solution as per recipe and will be able to print the given fabric. After giving some extra training the Hand printing operator will be able to do other printing like screen printing etc.<br>**The career progression would be as follows:**<br><br>  |

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**Most relevant and recent documents giving further information about any of the topics above:**

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

1. Career map of Hand Block Printing Operator
2. Hand Block Printing Operator Course Module
3. Format for RFP for Assessment Agency Accreditation from RSA
4. Assessment Protocol developed by RSA
5. Skill gap report for textile sector
6. Assessment Sheet
7. Photographs and attendance sheet of validation program

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**List of Industries involved in the validation process:**

- SITRA, Coimbatore
- Tasma, Bindigul
- ALPINE Knits India Pvt. Ltd.
- NIFT, Tirupur
- Nitin Textiles Pvt. Ltd., Dindigul
- Saravana Spg. Mills Pvt. Ltd. Dindigul
- Gomathi Spinning Mills, Tirupur
- Quantum Knits
- G K Consultancy
- BRT Spinners Pvt. Ltd.
- Sky Cotex India Pvt. Ltd.
- KCT, Copimbatore
- Raghav Industries limited
- Textile Technology Kumaraguru College
- NIFTTEA College, Tirupur
- CBC Tirupur
- SCM Textiles
- Sri Karthikeya Spg. Mills
- ELLITE Textiles
- Aatharva Garments
- ATDC-ERODE
- ATDC-Tirupur
- Santhosh Spg mills
- Sri Venkateshwara Spg. Mills
- Venilakshmi Mills
- Hi Tech Spg. Mills
- Sunder Textiles
- SISPA
- Bhaskar Foundation
- CMAI-Mumbai

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- ALT Kanpur
- RSWM, Banswara
- RSWM, Bhilwara
- Modelama Exports
- Textile Association Delhi
- Matric Clothing Pvt. Ltd (ASDA)
- NEED
- Institute of Jute Technology, DJFT, CU
- Dhruv international pvt. Ltd.
- Shri lakshmi Cotsyn
- NTC- New Delhi
- AMH-SSC
- Laj Exports Ltd, noida
- Technopak Advisors Pvt. Ltd.
- Wazir Advisors
- Golden Trends Pvt. Ltd.
- IL&FS Clusters
- SPINFED Odisha
- Orient Craft Limited
- India Fashion
- U K International
- Shivalik Prints
- Feather Touch
- Sampada tex
- Kapoor Industries panipat
- Paliwal Industries
- Rivira Home Furnishings
- Dashmesh Jacquard and Powerloom
- Mittal Industries
- Anand International
- Harisons Overseas
- Khurana Furnishing Pvt. Ltd.

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- R H F Pvt. Ltd.
- ESSKAY Enterprise
- Hometex Design
- Abhishek Textiles
- R P Overseas
- FAZE3

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**List of Assessment Agencies provisionally empanelled under**

**Resource Support Agency (Textiles Committee)**

| Sr. No. | Name of the Applicant Agency |
|---|---|
| 1 | SAMHIT Assessments and Research Foundation |
| 2 | Employable Skills Advancement, Assessments and Certification LLP |
| 3 | E Skill revolution Pvt. Ltd. |

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| 4 | Amrit Skills Development Pvt. Ltd |
| 5 | Punia Consultancy LLP |
| 6 | AIMS Educational Society |
| 7 | PVR Skill Central Pvt. Ltd. |
| 8 | Sun Gateway |
| 9 | INNOCOX Consulting and Research Pvt. Ltd. |
| 10 | Indus Institute of Skills Management Pvt. Ltd. |
| 11 | Indian Institute of Multimedia and Animation Technology |
| 12 | Last Mile Innovation Pvt. Ltd. |
| 13 | Wirat Skill Pvt. Ltd. |
| 14 | FORMAC Software Service Pvt. Limited |
| 15 | Grassroots Skill Development Initiative Pvt. Ltd. |
| 16 | Blue and Green Skills Solution |
| 17 | E & E Skill Development and Technologies Pvt. Ltd. |
| 18 | The Unique Handloom and Handicraft Society |
| 19 | Radiant Infonet Pvt. Ltd. |
| 20 | Yuva Skill Foundation |
| 21 | Odisha institute for Social Development |
| 22 | Federation of indian Chamber of Commerce and Industry |
| 23 | QUIZ India Solutions and Services Pvt. Ltd. |
| 24 | Krushi Mitra Grameen Abhivruddhi Sansthe |
| 25 | Rajiv Gandhi education Foundation |
| 26 | PSG College of Technology |
| 27 | Quibus Technologies Pvt. Ltd. |
| 28 | ITCOT Consultancy and Services Pvt. Ltd. |
| 29 | Ayman Trainer WingsPvt. Ltd. |
| 30 | Aspiring Minds Assessment Pvt. Ltd. |
| 31 | Eduquity Career Technologies Pvt. Ltd. |
| 32 | Pacifier Solutions Pvt. Ltd. |
| 33 | KSR Institute of Technology |
| 34 | ASSOCHAM |

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| 35 | Easyfix Technologies Pvt. Ltd |
| 36 | DN Polytechnic Education Trust |
| 37 | TIRTH Global Solutions LLP |
| 38 | RAS Skill Initiatives |
| 39 | TUV SUD South Asia Pvt. Ltd. |
| 40 | Rational Multiskill Pvt. Ltd. |
| 41 | Skill Training Assessment Management Partners Ltd. (STAMP) |
| 42 | Global SME Devnet Pvt. Ltd. |
| 43 | Federation of Indian Women Entrepreneur |
| 44 | Inspire Youth Development Pvt. Ltd. |
| 45 | Trendsetters Skill Assessors Pvt. Ltd. |
| 46 | Skill Mantra Edutech Consulting India Pvt. Ltd. |
| 47 | The Assessors Guild |
| 48 | Dharmarth paristhapan Evam Sanskriti Samvardhan Samiti |
| 49 | AYES Infotech Pvt. Ltd |
| 50 | SKISAT |
| 51 | Shri Guru Hargovind Society |
| 52 | Geostat Technologies Pvt. Ltd. |
| 53 | Imperial Service Development Society |
| 54 | Sehpathi Publications Pvt. Ltd. |
| 55 | Mirams Training Services (I) Pvt. Ltd. |
| 56 | I-Vintage Solutions Pvt. Ltd. |
| 57 | Mercury Institute of Engineering and Technology |
| 58 | Veritas Skill and Research Pvt. Ltd. |
| 59 | Tanstia FNF Service Center |
| 60 | Roshtoffe International Pvt. Ltd. |
| 61 | Truely Yours Welfare Society |
| 62 | Sell Safari EBIZ Pvt. Ltd. |
| 63 | Unique Call Solutions Pvt. Ltd. |

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| 64 | Skill Express Learning Solutions Pvt. Ltd. |
| 65 | MSAG Skill India LLP |
| 66 | Base research Consultancy Services Pvt. Ltd. |
| 67 | C K Skills Research and Development Pvt. Limited |
| 68 | DNA Training Academy Pvt. Ltd. |
| 69 | Bayleaf |
| 70 | People Point |
| 71 | SB Assessors and Services Pvt. Ltd. |
| 72 | Narsingh Technical Shiksha Samiti |
| 73 | Doon Bosco Women Education and Vocational Training Society |
| 74 | Centeral Technical Consultancy |
| 75 | ITRC Technologies Pvt. Ltd. |
| 76 | Centurian University of Technology and Management |

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