



கீழ்க்கண்ட அமைச்சு  
கைத்தொழில் அமைச்சு  
Ministry of Industries



# National Design Center

## Performance Analysis Report

# National Design Centre

## Introduction

The National Design Centre (NDC) is a statutory body that was established under the National Crafts Council and Allied Institutions Act No: 35 of 1982 and commenced its operations in 1983, and currently functions under the purview of the Ministry of Industries with the primary objective of improvement of craftsmen through the uplifting of the local handicrafts sector.

## Vision :-

Making the handicraft sector, a more dynamic and economically viable area.

## Mission:-

Introducing market based creative designs in line with global and local market trends through promotion, development, capacity building, popularization and adaption to the mainstreaming.

**Thrust Area :-** Nurturing, preserving, and developing handicrafts

## Objectives

- Developing handicrafts currently manufactured by craftsmen and introducing innovations and new design concepts in line with current and future market trends in the local and export markets.
- Conducting research programs with scientific and technical institutions to introduce appropriate technology, improve quality standards, and introduce proper technical and raw material preparation methods to increase qualitative production capacity.
- Providing advanced technical and product development training assistance to craftsmen with the aim of increasing income for the better development of the handicrafts sector.
- Facilitating the database, use of new technology, and common facilities for craftsmen/small-scale entrepreneurs and the public.
- Introducing substitute raw materials and more efficient, innovative production methods for handicraft designs.
- Improving the market for newly designed handicraft products both local and international.
- Providing design consultancy services as requested by the public, private, and non-governmental sectors.
- Improving the ability to design creativity through conducting vocational education programs and training.

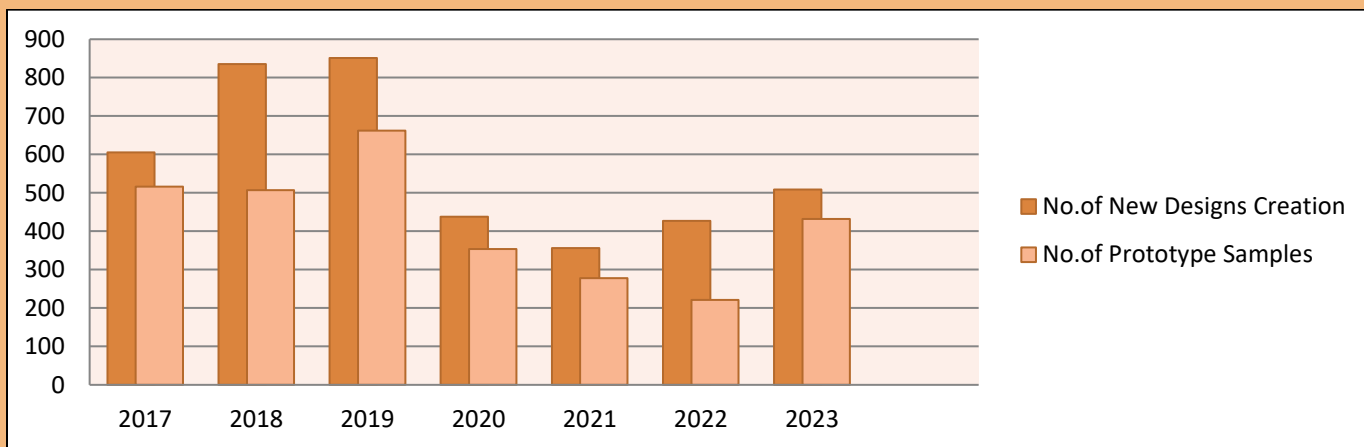


### Challenges facing the Institution

37% of the staff, including the staff who contribute directly to the development process of the institution, are vacant, therefore the work has to be carried out with a limited staff.

### Performance Analysis

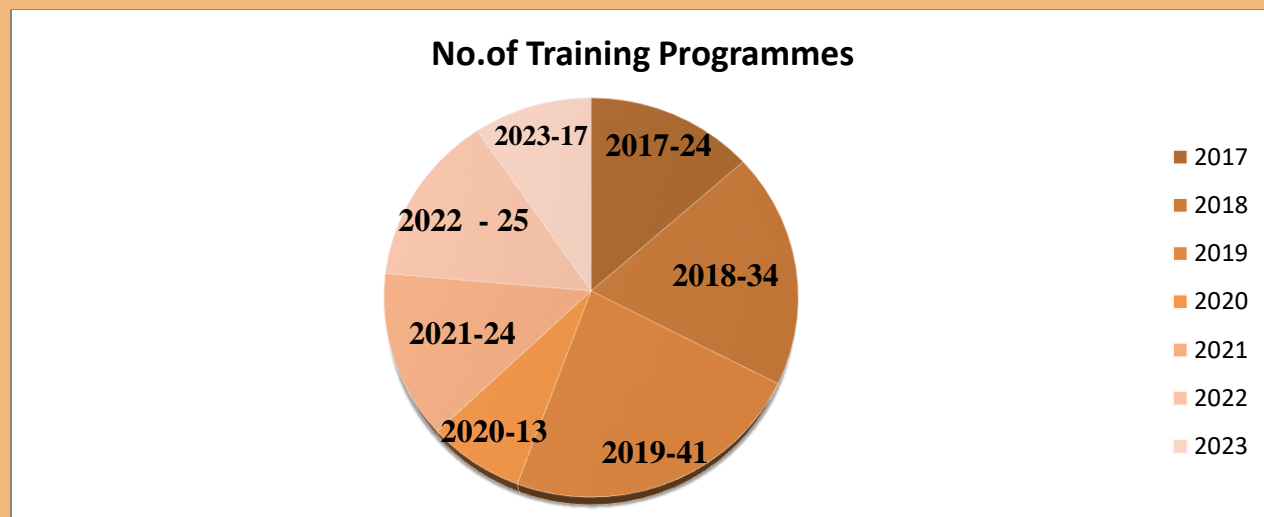
#### Creating market-oriented new & innovative designs for the handicraft sector



Graph 01

Description of Graph 01	Year						
	2017	2018	2019	2020	2021	2022	2023
No. of New Design Creation	605	835	851	438	356	549	509
No. of Produced Prototype Samples	516	507	662	354	278	343	432

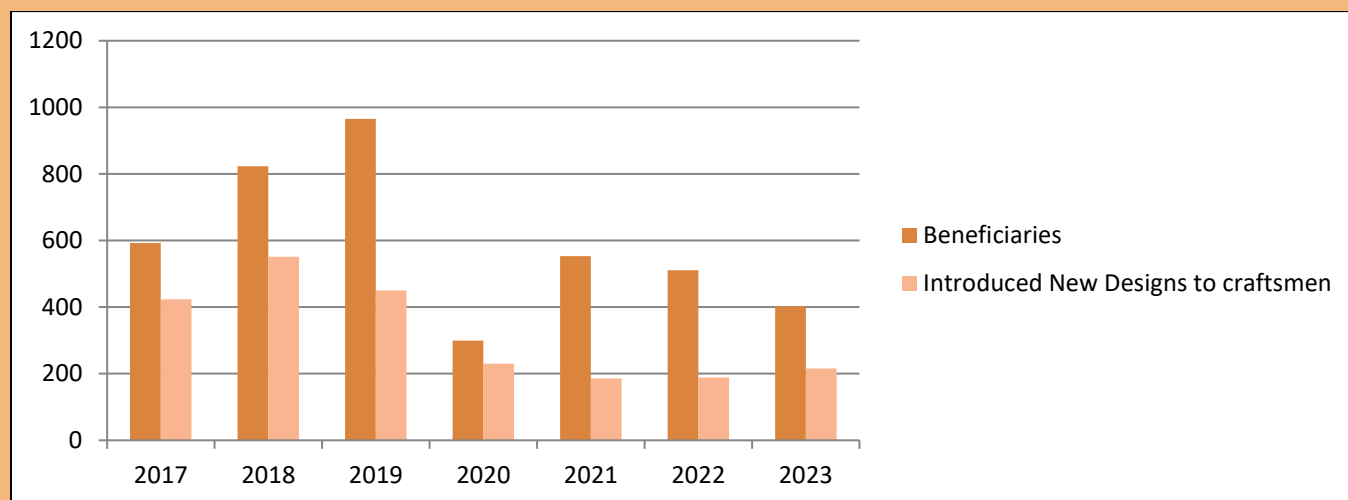
## Conducted New Design and New Technology Training Programmes



**Graph 02**

Description of Graph 02	Year						
	2017	2018	2019	2020	2021	2022	2023
No. of Training Programmes	24	34	41	13	24	25	17

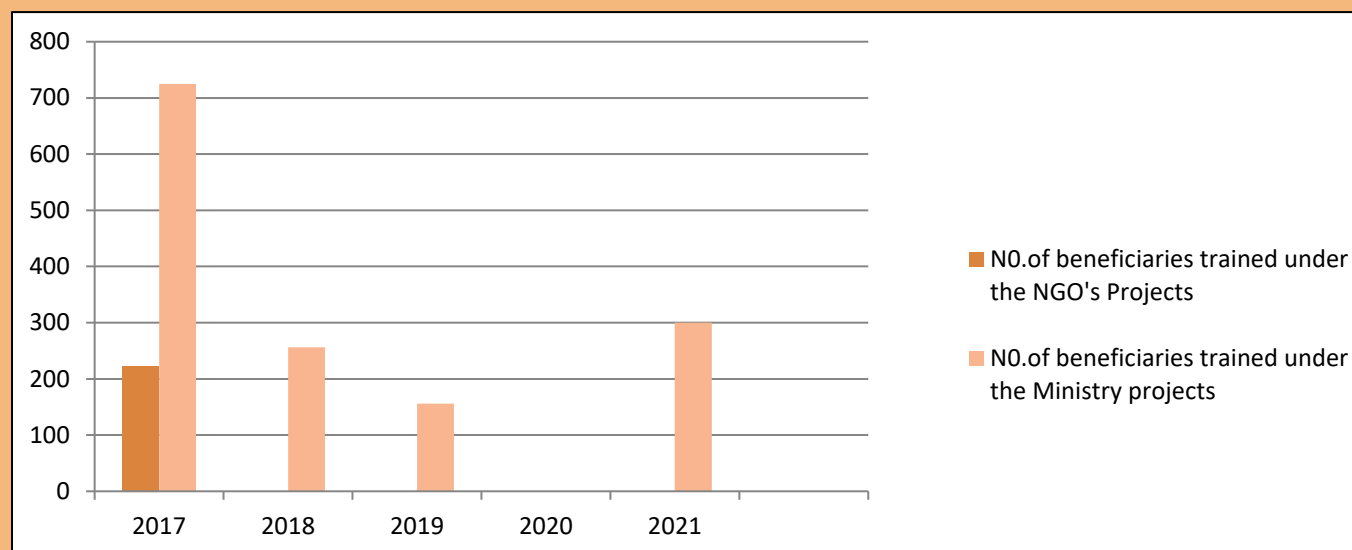
## No. of Beneficiaries trained under the training Programmes and No. of New Designs introduced



**Graph 03**

Description of Graph 03	Year						
	2017	2018	2019	2020	2021	2022	2023
No. of Beneficiaries	592	823	965	299	553	511	402
No. of Introduced New Designs to craftsmen	423	551	450	230	186	189	216

## No. of beneficiaries trained in new design under the projects



**Graph 04**

**Description of Graph 04**

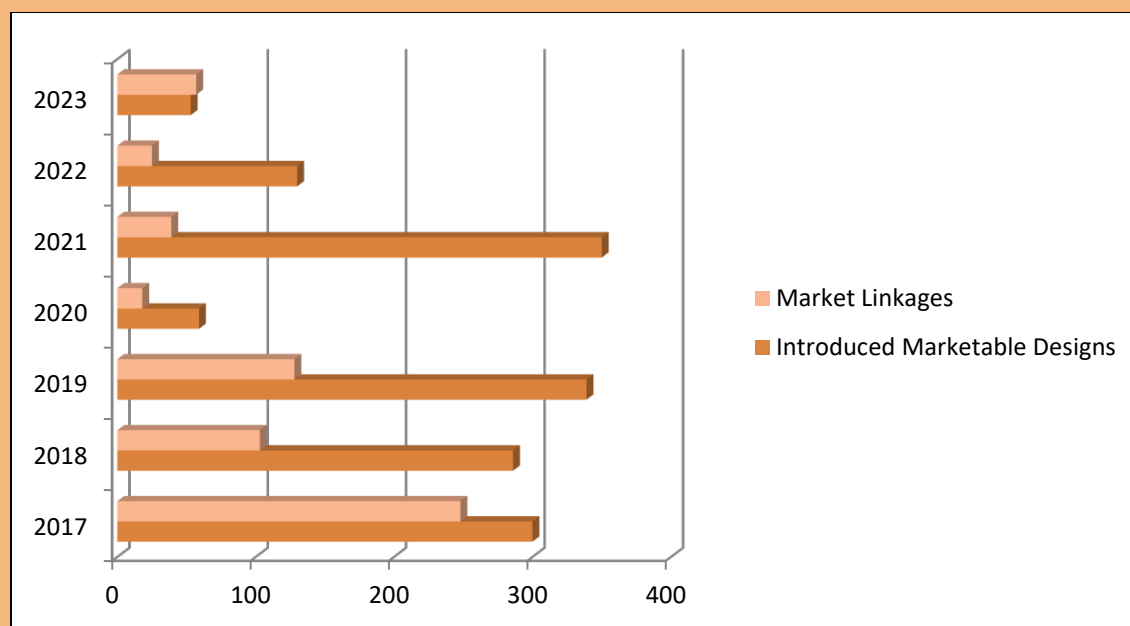
Project Name	Source of Fund	2017		2018		2019		2021	
		Project Value Rs.Mn	Bene	Project Value Rs.Mn	Bene.	Project Value Rs.Mn	Bene	Project Value Rs.Mn	Bene
UNDP & OXFAM Project	NGO's		222						
New & innovative design Livelihood Development Programme for unemployed youth and Traditional handicraftsmen.	Ministry	22.73	527						
Development Enterprise Village & Women Entrepreneurship Programme	Ministry	8.0	198	1.8	256	0.8	156		
Batik New Design Training Programme	Ministry							6.8	300

## Introducing Marketable Design & Market Linkages

When considering the below tables, as a whole there is an upward performance from the year 2017 to the year 2019. But from the year 2020, there is a decline in the targeted progress

The factors that affected the decline in that progress are as follows.

- ❖ The spread of the covid-19 epidemic in the years 2020 and 2021
- ❖ Facing the fuel crisis in 2022
- ❖ Deficiency of the essential raw material, and a large increase in prices
- ❖ During this period, required staff was not recruited.
- ❖ Reduction of the treasury allocations under the circulars issued to limit public expenditure



**Graph 05**

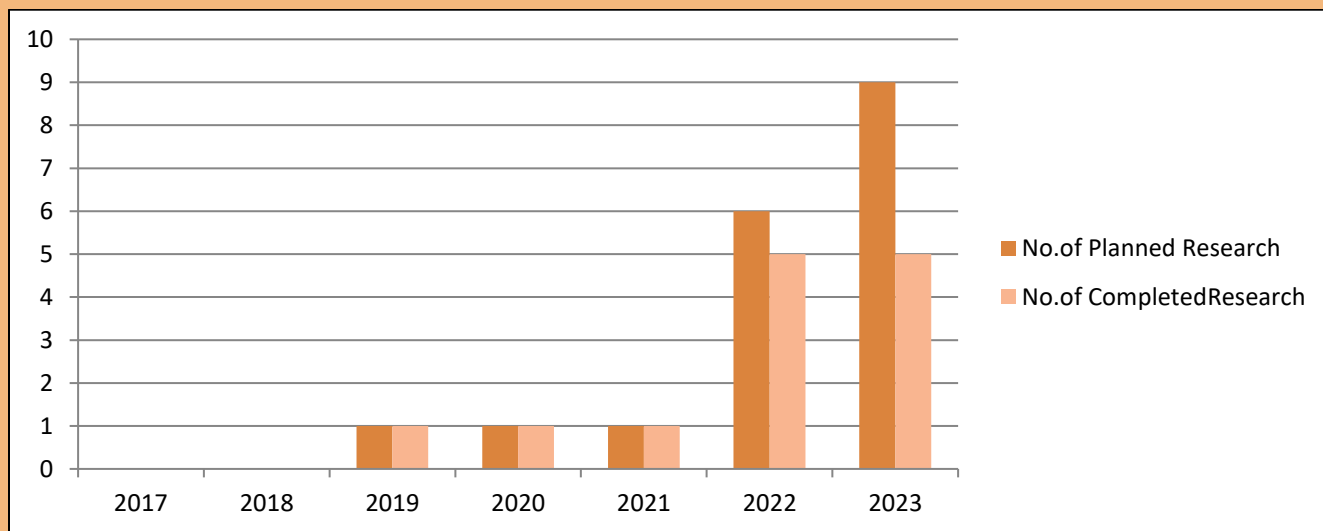
**Chemical Research and Development Activities**

Year	Project	Status
2017	Study on fungus growth on palmyrah crafts	Finding the fungi species
2018	Research for colour making on clay bodies	No. of workshops – 2
	Research on introduce an appropriate preservative method for fungal affected palmyrah crafts	Collaboration research with UOM Continued in 2019
	Study of dye quality use in palmyrah crafts	Colored sample tested & results informed
2019	Research on introduce an appropriate preservative method for fungal affected palmyrah crafts	Completed
	Survey on application of research findings for craft industry (ITI Red clay water filter)	Presented a project proposal for Department of National Planning, Testing of ITI water filter Survey conducted in Mannar, Weeravila & Vavuniya
		Report prepared including findings
	Field survey & data collection in palmyrah craft sector	Report prepared including findings
	Application of alternative dyes for coir crafts	

Year	Project	Status
2020	<p>Research on good quality dyes for crafts</p> <p>Survey on application of research findings for craft industry(ITI Red clay water filter)</p> <p>Research on wastewater treatment methodologies in batik sector</p> <p>Project handling for the establishment of batik dye WWTP in NDC project office, Kandy</p>	<p>On going</p> <p>Testing of ITI Filter</p> <p>Literature survey Completed</p>
2021	<p>Survey &amp; data collection in batik industry for the qualitative development of batik sector</p> <p>Awareness program on safe chemical handling practices for batik workers</p> <p>Research on reuse potentials of clay pots for packaging of curd</p> <p>Reuse of water treatment sludge for clay crafts</p>	<p>Survey conducted in Western province, data analysis</p> <p>Workshop conducted for survey participants (via zoom)</p> <p>Completed</p> <p>Collaboration with NWS&amp;DB-continued</p>
2022	<p>Development of quality certification scheme for batik sector - Committee member in GMP preparation</p> <p>-Field study on good quality dyes for batik processing</p> <p>-Field Survey on application of antifungal agent for control the fungi attack on palmyrah crafts</p> <p>-Reuse of water treatment sludge for clay crafts</p>	<p>Guideline preparation -completed</p> <p>Processing for publication as standard –On going</p> <p>Field workshop in Ratmalana</p> <p>Field workshop in Weeravila</p> <p>Collaboration with NWS&amp;DB- On going</p>
2023	<p>Conducting research programmes in collaboration with local universities and other relevant reputed institutions.</p>	<p>It was plan to conduct a collaborative research project between NDC &amp; NSF allocating Rs.Mn.1.850. But the project was not implemented due to the non-allocation of budget. There for a new development project was implemented for fabrication of small scale batik waste water treatment plant on Minister's request on 15th August 2023. Batik wastewater was tested and the project was supervised to install 500L/day capacity batik WWTP in Miriswatta NCC batik training centre. The plant installation was completed. The plant was not commissioned due to the problem of wastewater supply in batik training centre.</p>

Year	Project	Status
2023	<p>-Reuse of water treatment sludge for clay crafts in collaboration with NWS&amp;DB</p> <p>-Research Project to Finding the Possibilities of Reusing the Sludge from Water Treatment Process in NWS&amp;DB for Clay Crafts</p>	<p>- Signing MOU to continue the Project between NDC &amp; NWS&amp;DB</p> <p>-Clayware Produced by Village Craftsmen using the Clay Transported to Mahayala Training Centre under this Project</p> <p>-Application were received from Mahayala Clay Village for register the craftsmen to get clay</p> <p>No. of craftsmen registered – 05</p>
	<p>The project on development of Natural Dye from by-products of plant extract</p>	<p>-Literature study</p> <p>-Prepared the project proposal and presented to the Ministry of Industries</p> <p>-Discussed with SLINTEC about research project</p> <p>-Worked to prepare the MOU Sign a MOU between SLINTEC, MOI, NDC</p>

### Mechanical Research and Development Activities



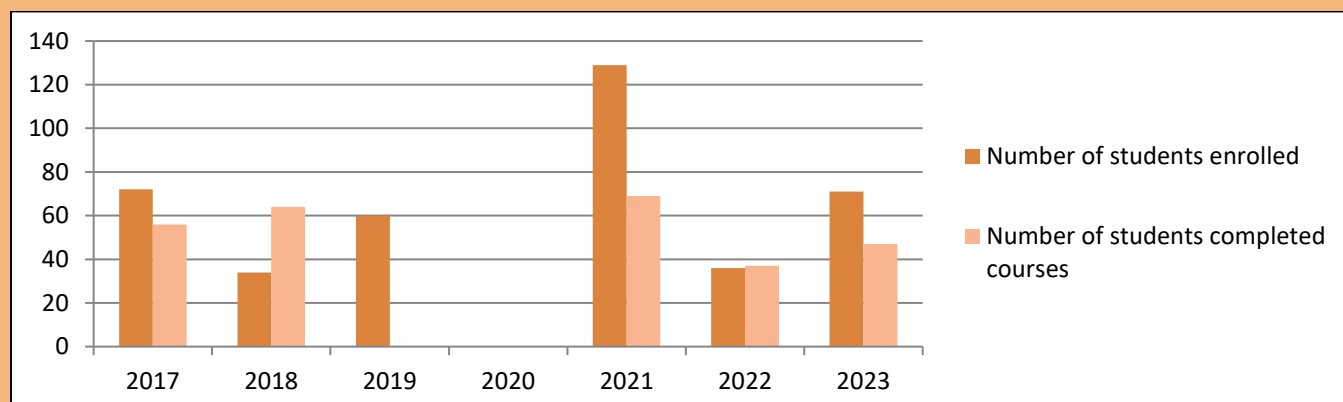
Graph 06



### In detailed description of Mechanical Research and Development Activities

Year	Project	Beneficiaries
2019	Design & development of jute fibre extraction machine	Direct: 03 Indirect : 10
2020	Design & development of Lacquer lathe holder device	Direct: 03 Indirect : 10
2021	Design & development of bamboo steamer	
2022	Design & development of jute fibre spinning machine	Direct: 03 Indirect : 10
	Design & development of smooth driven speed controlling mechanism for existing reed foaming machine & modifying it to coir foaming	Direct: 04 Indirect : 10
	Modification of an existing Manual machine used to foaming reed in to a Motorized machine (fully functioned)	Direct: 02 Indirect : 10
	Introducing & Developing Preventive Maintenance Strategies for NDC Workshop	Direct: 20 Indirect : 50
	Introducing & Installation of Cost effective, Suitable Dust Extraction System for NDC Workshop	Direct: 20 Indirect : 50
2023	<p>Providing modern vocational and technical inputs to create competent craftsmen.</p> <ul style="list-style-type: none"> <li>- Demonstration of semi-automated reed forming machine for rush &amp; reed sector</li> </ul> <p>Introducing new innovation, new technologies, new machineries, equipment and tools to upgrade and modernize the handicraft sector.</p> <ul style="list-style-type: none"> <li>- Design &amp; development of basic pattern weaving machine for coir industry</li> <li>- Design &amp; development of multi-functional clay lamp making machine for pottery industry</li> <li>- Introducing and developing KNOCK-DOWN Technology for Lacquer industry</li> </ul>	Direct: 25
	Conducting awareness programmes and trainings on decent job.	Direct: 40

## Activities of the Sri Lanka National Design Institute under the National Design Centre



**Graph 07**

Paying attention to table no. 07, The courses that were initiated in 2018 and 2019 were scheduled for completion in 2020. However, due to the COVID-19 pandemic in 2020, there were no enrolments, and the courses could not be completed as planned.

### Financial Situation

**Rs.Mn.**

Description	Year						
	2017	2018	2019	2020	2021	2022	2023
Fixed Assets	53.9	68.9	44.2	45.1	142.5	170.8	158.5
Current Assets	45.6	51.9	43.3	39.7	36.3	43.0	45.3
Short Term Liabilities	10.2	11.3	11.6	10.4	15.6	8.9	10.3
Long Term Liabilities	24.7	25.0	24.7	28.3	25.3	26.7	25.5

**Rs.Mn**

Description	Year						
	2017	2018	2019	2020	2021	2022	2023
Capital Budget – Approved	100.0	80.0	68.3	30.0	80.0	30.0	40.0
- Released	16.8	46.3	45.9	21.4	37.6	20.0	26.11
- Actual Expenditure	16.8	46.3	44.4	19.3	41.2	9.7	26.11
Recurrent – Released	58.0	61.0	68.7	67.8	72.6	67.3	72.04
Salaries and wages	32.5	37.4	42.8	45.1	44.3	40.7	41.0
- Overtime Payments and other allowance	18.4	16.2	16.7	13.5	16.9	16.0	19.0

Description	Year						
	2017	2018	2019	2020	2021	2022	2023
Other Earnings	1.5	3.0	1.2	0.2	1.0	1.0	1.4
<b>Sri Lanka National Design Institute</b>							
Institutional Chargers	2.8	2.8	3.7	2.5	2.2	8.0	6.5
Expenditure	1.3	2.5	3.7	2.5	1.3	4.2	4.6
If an expenditure from capital allocation	-	-	-	-	2.8	-	-

### Suggestions to improve the organization

- ❖ Raising the quality of the existing courses and starting new courses relating to craft & design in Sri Lanka National Design Institute under the National Design Centre to cater to the high demand for craft and design job categories
- ❖ Conducting continuous short-term training sessions for various handicraft fields with effective use of current staff and existing resources in the institute to develop skilled persons.
- ❖ In addition to the existing handicraft sections in the workshop of the Head office and branch office, it is suggested to establish new sectors to provide services for the handicraft field that have a high trend for the present and the future market
- ❖ Get more overseas opportunities (such as exhibitions, trade fairs, workshops, and seminars) for the internal staff to develop their knowledge and skills to go forward with Global trends.
- ❖ To develop NDC as a local and global platform to link designers, craftsmen, and the market.
- ❖ Recruitment of vacant staff to implement future plans of the institution
- ❖ To get the approval to include new cadre requirements for the posts of Assistant Director Planning, Research Officer and Information Technology Officer
- ❖ Develop the infrastructure facilities of Research & Development (R&D) Laboratory