

1. Skill/ Training programme details as per Project Document (2018-2020)

S.No	Type of Skill/Training Prog.	FY 18-19 Skill/Training Prog.			FY 19-20 (Till January 31, 2020) Skill/Training Prog.			Grand Total FY 18-20 Skill/Training Prog.			ECF (Fee)/ Employment Generated if any 2018-19 (Rs in Lakh)	ECF (Fee)/ Employment Generated If any 2019-20 (Rs in Lakh)
		Targeted (1)	Conducted (2)	Trainees Trained (3)	Targeted (4)	Conducte d (5)	Trainees Trained (6)	Targeted (1+4)	Conducted (2+5)	Trainees Trained (as on 31.01.2020) (3+6)		
1	Industry Sponsored Prog.	7	5	67	5	6	95	12	10	162	16.750	19.000
2	Semi Sponsored Skill/Training Prog.	4	2	65	7	6	251	11	8	316	0.325	1.255
3	NSDC (Skill Councils) Aligned Prog.	0	0	0	2	0	0	2	0	0	0	0
4	Societal Skill/Training Programmes (excluding Aroma Mission)	2	5	31	4	14	257	6	19	288	0	0
5	Others Skill Training Prog*	4	4	214	5	6	133	9	8	347	0	0
	Grand Total	17	16	377	23	29	694	40	45	1113	17.075	20.255

*Under Others Skill Training programs: NA may be opted against targeted/conducted but Please mention Number of trainees trained till 31.1.2020 and targeted till Mar 31, 2020

2. Skill/ Training programme implemented during April 01, 2018 – January, 2020

S.No	Type of Skill/Training Prog.	Name of the Programme	Qualifications	Start Date	End Date	Duration (in days)	Number of trainees trained
1.	Industry Sponsored Prog.	Transition Training program on Laboratory Quality Management as per ISO/IEC 17025:2017	Graduate	24 April 2018	25 April 2018	2	22
2.	Industry Sponsored Prog.	Experimental Tools and Techniques for Materials Characterization (ETMC 2018)	Graduate	25 Sept 2018	28 Sept 2018	4	6
3.	Industry Sponsored Prog.	Metallurgical Failure Investigation for Engineering Components	Graduate	14 Jan 2019	17 Jan 2019	4	13
4.	Industry Sponsored Prog.	Structural Integrity Assessment of Engineering Components (SIA-2018)	Graduate	6 Aug 2018	10 Aug 2018	5	11
5.	Industry Sponsored Prog.	Advanced Mechanical Characterization	Graduate	20 Aug 19	21 Aug 19	6	15
				25 Sept 19	26 Sept 19		
				03 Jan 19	04 Jan 19		
6.	Industry Sponsored Prog.	Recycling of Metallurgical Wastes (4R Waste 2019)	Graduate	27.11.2019	29.11.2019	3 Days	22
7.	Industry Sponsored Prog.	Experimental Techniques in Iron and Steel Making (ETIS 2019)	Graduate	10.12.2019	13.12.2019	4 Days	30
8.	Industry Sponsored Prog.	Metallurgical Failure of Engineering Components: Diagnosis and Remedy (MFEC 2020)	Graduate	21.01.2020	24.01.2020	4 Days	12
9.	Industry Sponsored Prog.	TIG Welding Training	Non Matric	23.09.2019	27.09.2019	5 Days	5

10.	Industry Sponsored Prog.	TIG Welding Training	Non Matric	16.12.2019	23.12.2019	5 Days	4
11.	Industry Sponsored Prog.	The IIW Jamshedpur Branch Welder Competition		05.11.2019	05.11.2019	1 Day	22
12.	Semi Sponsored Skill/Training Prog.	Soft skill for quality improvement	Undergraduate	27 Feb 2019	28 Feb 2019	2 days	42
13.	Semi Sponsored Skill/Training Prog.	Entrepreneurship development on e-waste management	Graduate	12 March 2019	15 March 2019	4 days	23
14.	Semi Sponsored Skill/Training Prog.	EDP on E-Waste Collection and Deconstruction	B.Sc Student	13.05.2019	24.05.2019	10 Days	16
15.	Semi Sponsored Skill/Training Prog.	EDP on E-Waste Collection and Deconstruction(Ranchi)	Diploma/ITI Student	26.08.2019	30.08.2019	5 days	53
16.	Semi Sponsored Skill/Training Prog.	Industrial Training on Materials and Metallurgical Engineering	Diploma Student	30.09.2019	30.10.2019	30 days	70
17.	Semi Sponsored Skill/Training Prog.	In Plant Training on Deconstruction and Upcycling of E-Waste	Diploma Student	30.09.2019	30.10.2019	30 days	26
18.	Semi Sponsored Skill/Training Prog.	EDP on E-Waste Collection and Deconstruction	Undergraduate	20.11.2019	29.11.2019	5 days	54
19.	Semi Sponsored Skill/Training Prog.	Industrial Training on Materials and Metallurgical Engineering	Diploma Student	09.12.2019	04.01.2020	30 Days	32
20.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual metal arc welding and gas cutting	Non Matric	22 Feb 2019-	21 March 2019	30 Days	9
21.	Societal Skill/Training Programmes (excluding Aroma Mission)	Chemical Analysis for Metallurgical Samples 1st batch	MSc Chemistry Student	18 March 2019	29 March 2019	15 days	16
22.	Societal Skill/Training Programmes (excluding Aroma Mission)	Energy efficient furnace	Non Matric	25 March 2019	26 March 2019	2 days	6

23.	Societal Skill/Training Programmes (excluding Aroma Mission)	Chemical analysis for Metallurgical Samples (CAMS)	MSc Chemistry Student	01.04.2019	12.04.2019	10 days	17
24.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual Metal Arc Welding and Gas Cutting (MMAW)	Non Matric	01.05.2019	31.05.2019	30 days	5
25.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual Metal Arc Welding and Gas Cutting (MMAW)	Non Matric	10.06.2019	09.07.2019	30 days	16
26.	Societal Skill/Training Programmes (excluding Aroma Mission)	EDP on Innovative Product Prototyping for MSME (IPPM)	Non Matric	15.07.2019	19.07.2019	5 Days	27
27.	Societal Skill/Training Programmes (excluding Aroma Mission)	Fitter Training	Non Matric	29.07.2019	09.09.2019	30 days	4
28.	Societal Skill/Training Programmes (excluding Aroma Mission)	Turner Training	Non Matric	29.07.2019	09.09.2019	30 days	9
29.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual Metal Arc Welding and Gas Cutting	Non Matric	29.07.2019	09.09.2019	30 days	15
30.	Societal Skill/Training Programmes (excluding Aroma Mission)	Industrial Training on Materials and Metallurgical Engineering (ITMME)	Non Matric	08.08.2019	06.09.2019	30 Days	10
31.	Societal Skill/Training Programmes (excluding Aroma Mission)	EDP on Innovative Product Prototyping for MSME (IPPMSME)	Non Matric	11.09.2019	20.09.2019	10 Days	20
32.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual Metal Arc Welding and Gas Cutting	Non Matric	18.11.2019	17.12.2019	30 Days	8
33.	Societal Skill/Training Programmes (excluding Aroma Mission)	Industrial Training on Materials and Metallurgical Engineering (ITMME)	Non Matric	08.08.2019	06.09.2019	30 Days	10

34.	Societal Skill/Training Programmes (excluding Aroma Mission)	EDP on Innovative Product Prototyping for MSME (IPPM)	Non Matric	11.09.2019	20.09.2019	10 days	20
35.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual Metal Arc Welding and Gas Cutting	Non Matric	18.11.2019	17.12.2019	30 Days	8
36.	Societal Skill/Training Programmes (excluding Aroma Mission)	Management Development Program on Export Marketing of Metal Craft	Undergraduate	16.12.2019	20.12.2019	5 Days	27
37.	Societal Skill/Training Programmes (excluding Aroma Mission)	Chemical Analysis of Ore and Minerals	MSc Chemistry Student	23.12.2019	10.01.2020	15 days	13
38.	Societal Skill/Training Programmes (excluding Aroma Mission)	EDP on E-waste Collection and Deconstruction (EWCD) (Purulia Polytechnic)	Diploma Student	13.01.2020	17.01.2020	5 days	80
39.	Societal Skill/Training Programmes (excluding Aroma Mission)	Manual Metal Arc Welding and Gas Cutting	Non Matric	27.01.2020	26.02.2020	30 days	6
40.	Others Skill Training Prog*	BoPT apprentice training	Diploma/Graduate	22 nd Feb 2018	21 st Feb 2019	365 Days	10
41.	Others Skill Training Prog*	ITI apprentice training	ITI	8 th Aug 2017	7 th Aug 2018	365 Days	15
42.	Others Skill Training Prog*	BoPT apprentice training	Diploma/ Graduate	1 st August 2018	31 st July 2019	365 Days	7
43.	Others Skill Training Prog*	ITI apprentice training	ITI	28 th Aug 2018	27 th Aug 2019	365 Days	15
44.	Others Skill Training Prog*	Internship/summer training	Undergraduate	June 2018	July 2018	30-60 Days	32
45.	Others Skill Training Prog*	Dissertation	B Tech			180 Days	44

46.	Others Skill Training Prog*	Internship/ Summer training	B.Tech Student	01.05.2019	31.07.2019	90 Days	55
47.	Others Skill Training Prog*	Winter Training	B.Tech Student	01.12.2019	29.02.2020	90 Days	24
48.	Others Skill Training Prog*	M.Tech Thesis	B Tech			365 Days	21
49.	Others Skill Training Prog*	International Training					13
50.	Others Skill Training Prog*	Graduate & Technician Apprentice	ITI/Diploma/B.Tech	14.11.2019	14.11.2020	365 Days	20

4. Coverage Beneficiaries:

The data presented below is for semi-sponsored and Societal Skill Training Programs. For fully sponsored training programs, data is yet to be compiled.

State	District
(1) Jharkhand (2) West Bengal	(1) East Singhbhum, Ranchi, Saraikela, West Singhbhum, Deoghar, Chatra, Bokaro, Dhanbad, Godda, Kharsawan, Gigidih, Musabani, Dhanbad, Ramghar, Bokaro, Banka, Matpa (2) Paschim Mednapore, Purulia, Bankura, Bardhaman

Total Trainees: 604

State	Urban (%)	Rural(%)	Male(%)	Female(%)	SC(%)	ST(%)	Gen(%)
Jharkhand	55	45	60	40	7	17	76
West Bengal	11	89	83	17	7	3	90

5. Asset/Service created if any & its maintenance plan

- A few personal computers and printers were purchased as the performance of the old computer systems deteriorated.
- Infrastructure facility like welding booth was developed for welding operations and facility was also created for e-waste management.
- Annual maintenance contract by laboratory will be utilized for the maintenance

6. Sustainable Development Goals (SDG) served

- **Quality Education (Number 4):** We have been able to provide skill training program to ITI/Diploma students which will help them prepare for the competitive world of job seekers.
- **Decent Work and Economic Growth (Number 8):** Skill training to ITI/Diploma students enhanced their employability and earning potential
- **Industry, Innovation & Infrastructure (Number 9):** Infrastructure was developed for up-cycling of e-waste materials and creating innovative products prototypes through metal fabrication and joining as business ideas

- **Climate Action (Number 13):** E-waste is one of the crucial waste streams. CSIR-NML has e-waste recycling facilities and technologies for extraction of precious metals from e-waste. The training created awareness among the ITI and Diploma students and they were taught how to create awareness in the community about the e-waste menaces.
- **Partnership for the Goals (Number 17):** We have arranged many skill training programs in association with the institutes like NIIFT Ranchi, Purulia Polytechnic, NEILIT Kolkata, Indian Institute of Metals Jamshedpur etc.

7. National Development Plans served

- **Skill India Mission:** We have given skill training on Welding practice, e-waste management and many other areas
- **Swachh Bharat:** We have supported this drive through collection and up-cycling of e-waste materials.
- **Make in India:** We have developed infrastructure to create innovative low cost product prototypes for large scale production by up-cycling e-waste.

8. Gaps in Achievements of Outcomes

- We planned to organise an NSDC training program for Master Trainers which remained unfulfilled
- The Quality Pack that we planned to complete is not yet uploaded on the website although the first draft is ready for review
- We planned to train 1256 people out of which 1113 people have been trained so far. It would be possible to achieve the target by 31st March 2020.
- We wanted to collaborate with the employers for creating the job opportunities. This remains to be unfulfilled.
- We are yet to assess the training outcome in terms of employment generation and entrepreneurship development.

9. Present Status with Coverage of Scheme (operational/non-operational)

- The scheme is still operational
- We have planned 3 more training programs before 31st March 2020

10. Key Bottlenecks & Challenges

- Skill training is considered as a low priority activity by scientists and senior management
- Rural students lack the ability to develop new skills. Hence the training needs to be restructured to suit their requirement.
- Professional and communication skills of rural students/participants are poor and they lack confidence and motivation
- Many of the rural students who come for skill training program are daily wage earners. They do not want to sacrifice their daily earning to learn new skills
- Providing accommodation to the outstation students is a major problem
- Ensuring employment after undergoing the skill training is difficult due to the prevailing economy slow down.
- The participants who undergo Entrepreneurship Development Program (EDP) are not able to start their business due to lack of funding opportunities

11. Key Achievements

- Through various skill training programs, we are able to develop a team of trainers and expert training providers.
- We have developed course curriculum for entrepreneurship development program on (1) e-waste collection and deconstruction and (2) Innovative product prototypes for MSME
- We have provided skill training to more than 1100 participants and 80% of them are coming from disadvantaged background
- We have developed linkage with ITI/Diploma colleges and institutions and also with the rural communities
- We have created infrastructure facilities for welding practice and e-waste management