

**GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS & FERTILIZERS
DEPARTMENT OF CHEMICALS & PETROCHEMICALS**

RAJYA SABHA

**UN-STARRED QUESTION NO. 3072
TO BE ANSWERED ON 28.03.2023**

Shortage of skilled R&D talent in the chemicals industry

3072. Ms. Dola Sen:

Will the Minister of CHEMICALS AND FERTILIZERS, be pleased to state:

- (a) whether it is a fact that there is a shortage of skilled Research & Development (R&D) talent in the chemical industry thereby affecting its growth prospects;
- (b) If so, the steps taken to increase the domestic R&D talent pool to augment the growth prospects of chemical industry, if not, the reasons therefor;
- (c) whether Government has any data to highlight the competitiveness of the chemical industry across various categories such as feedstock availability, labour & utilities, capital costs etc. vis-à-vis its global peers; and
- (d) if so, the details thereof and if not, the reasons therefor?

ANSWER

MINISTER OF STATE FOR CHEMICALS AND FERTILIZERS

(SHRI BHAGWANTH KHUBA)

(a) & (b): As per the information provided by Ministry of Skill Development and Entrepreneurship (MSDE), the details for the Job role related to Chemical Industry under National Apprenticeship Promotion Scheme and sector wise job role under Pradhan Mantri Kaushal Vikas Yojana is at **Annexure-I**.

(c) & (d): No sir. The chemical sector is de-licensed and de-regulated except few hazardous chemicals.

Annexure-I

National Apprenticeship Promotion Scheme (NAPS) PAN India update (for the jobroles related to Chemical industry) since FY 2018-19 to FY 2022-23 (Till 31/12/2022) as per Apprenticeship Portal is given below:-

Sector	Course Name	Apprentices Enrolled
Life Sciences	Analyst/Chemist-Quality Control: Gas Chromatography (GC)	9
Life Sciences	Analyst/Chemist-Quality Control: Gas Chromatography (GC) Ultraviolet-visible Spectroscopy (UV)	52
Life Sciences	Analyst/Chemist-Quality Control: High-Performance Liquid Chromatography (HPLC)	46
Life Sciences	Analyst/Chemist-Quality Control: High-Performance Liquid Chromatography (HPLC) Ultraviolet-visible Spectroscopy (UV)	160
Life Sciences	Analyst/Chemist-Quality Control: Ultraviolet-visible Spectroscopy (UV) Fourier Transform Infrared Spectroscopy (FT-IR)	93
Life Sciences	Analyst/Chemist-Quality Control-Ultraviolet-visible Spectroscopy (UV)	10
Life Sciences	Chemist - Production (Pharma Cosmetics & Biologics): Non-Sterile Product Manufacturing	210
Life Sciences	Chemist - Production (Pharma Cosmetics & Biologics): API Manufacturing	562
Life Sciences	Chemist - Production (Pharma Cosmetics & Biologics): AYUSH Drug Manufacturing	49
Life Sciences	Chemist - Production (Pharma Cosmetics & Biologics): Sanitary and Personal Hygiene Product Manufacturing	35
Life Sciences	Chemist - Production (Pharma Cosmetics & Biologics): Sterile Product Manufacturing	98
Life Sciences	Chemist- In-process Quality Assurance (Pharma Biologics and Medical Device)	247
Grand Total		1571

Pradhan Mantri Kaushal Vikas Yojana (PMKVY) sector-wise job role wise update as per Skill India Portal reports as of Dec 31, 2022

Sector Name	Job Role Name	Trained / Oriented	Certified	Reported Placed
Life Sciences	Quality Assurance Chemist	1822	1645	0
Life Sciences	Production/ Manufacturing Chemist- Life Sciences	3440	3065	98
Life Sciences	Quality Control Chemist	4613	3928	98
Textiles and Handlooms	Dyestuff & Chemical Preparation Operator	551	521	48

Textiles and Handlooms	Fitter - Processing	204	200	0
Total		10630	9359	244
<i>Recognition of Prior Learning (RPL) orients candidates and doesn't mandate placements</i>				
