Council of Scientific and Industrial Research (CSIR) established in 1942 celebrated its 74th Foundation day as well as Platinum Jubilee Commemoration on the 26th of September, 2016. The president of CSIR and Hon’ble Prime Minister, Shri Narendra Modi in his felicitation address emphasised the need for creating ambience to do Technology Business, Developing the Nation and Empowering common Man through S & T.

“Vision for CSIR-Central Leather Research Institute: 2030”

'CSIR-CLRI foresees to be the global hub that would transform the leather industry into one, which is technology and innovation driven, thus steering India to be the global leader in leather'.

This statement is the vision of CSIR-CLRI for a period ending 2030

The most opportune moment for CLRI to be presenting its VISION as CSIR celebrates its Platinum Jubilee celebrations.

Different portfolios are identified in line with the vision of the institute. Each portfolio is resolved into various vision programs and translational projects with specific measurable objectives and deliverables.

The vision document consists of three components:
(a) Vision for 15 years (ending 2030) considering the social goals and ‘sustainable Development Goals’
(b) Strategy for 7 years (2017-18 to 2023-24) indicating the translation of long-term vision into actionable programs
(c) Actionable projects for 3 years (2017-18 to 2019-20)

Three portfolios namely
(i) Open ended research
(ii) Industrial development and sustainability and
(iii) Societal benevolence have been identified as portfolios

As stated, each portfolio is resolved into different programs. The portfolio 'Open Ended Research' is resolved into three programs namely:
(i) Value addition to raw materials and wastes,
(ii) Atom economy in leather processing and
(iii) Synthetic skin.
The portfolio 'Industrial growth and sustainability' is resolved into seven programs namely

(i) Leather  
(ii) Chemicals  
(iii) Leather products  
(iv) HRD  
(v) Biological materials  
(vi) Environment and  
(vii) Information

All the Portfolios, Programs and Projects have been mapped to the Government of India programmes.

<table>
<thead>
<tr>
<th>Portfolio/Program</th>
<th>Description</th>
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<tbody>
<tr>
<td>Swachh Bharat Abhiyan</td>
<td>Technologies for treatment of solid &amp; liquid wastes and value generation from them</td>
</tr>
<tr>
<td>Clean and renewable energy</td>
<td>Bioenergy - Biogas from tannery wastes</td>
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</tbody>
</table>
| Namami Ganga                 | Safeguarding Ganga: CSIR as an enabler  
Enhancing CETP capacity       |
Improved collection/ conveyance of wastes  
Secure landfills                |
| Game Changer                 | Sustainable Manufacture: CSIR-CLRI Technology  
Zero Chromium discharge, Waterless Chrome Tanning Technology,  
Dry Tanning                        |
| Make in India                | Doubling value from Indian Leather by 2020  
CSIR as an enabler – Technology Mission  
Quantum jump in R/M collection  
Augmenting tanning capacity  
Matching CETP capacities  
Benchmarking and Branding         |
| Innovate in India            | Enzyme based fibre opening  
Leather goods from Ray fish, Chicken feet leathers  
Leather + Natural fibre based products |
| Swasthya Bharat              | Footcare solutions for obese and arthritic  
Wound/burn dressing materials/sutures  
Benign and aesthetic children choes             |
| Samarth – Sasakth Bharat     | Academy-Industry-R&D  
CSIR-CLRI as an enabler  
Min. of skill development training programs  
Capacity building in Africa  
World-wide hub for leather education |

Translational Projects
Apart from the afore-said basic and developmental projects, the translational projects will also be carried out aiming translation of technologies in a Fast Track mode.

The validated technologies that will be emerged from the basic and developmental projects will be translated under FTT mode. CSIR-CLRI has 11 projects under FTTP as given below.

1. Waterless Chrome Tanning Technology
2. Children shoes
3. Chicken Feet leathers
4. Pharma grade gelatin
5. Fish skin leathers
6. Enzymes for beam house
7. Retanning cum fatliquoring
8. Comfort shoes for men
9. Soles from fleshing
10. Ergonomic designs for goods
11. Compost from animal hair waste

Efforts will be taken to translate the technologies, which had been validated and ready for translation.

An important synergistic endeavour of the Industry & the Institute is TECHNOLOGY MISSION FOR LEATHER SECTOR

An optimistic target of 27 bn USD turnover has been planned for the leather sector by 2020 from the current level of 12 bn USD under Make in India Programme. Substantial employment generation also is envisaged.

In order to achieve the target, a Technology Mission has been planned for the tanning sector, which will be the basis for the development of Indian Leather and Leather Product Sector. CSIR-CLRI in consultation with CLE and the stake holders have prepared a Technology Mission Document which has been presented by DIPP along with other development action programmes for the sector to the Government of India.

The strategic directions obtained on a diagnostic study have led to development of multipoint technology mission aimed at addressing the issues faced by the industry thereby paving way for meeting the targeted turnover. Accordingly, a large scale technology mission has been identified for implementation under the Make in India programme.

Component 1: Systemic and large collection of raw hides and skins
Component 2: Technologies for capacity utilization
Component 3: Enhanced Environmental management in tanneries
Component 4: Framework for quality benchmarking and certification
Component 5: Preparation of Vision Document for leather industry
At this juncture, I must mention that our Waterless Chrome Tanning Technology has been reaching our far and wide with universal acceptance. Tannery clusters in Erode, Kanpur and Jalandhar have lapped it up and we now gearing-up to demonstrate it in Kolkata by the end of this month and also in other clusters subsequently.

We also have a product based technology for Dry Tanning which also aims at 100% chrome fixation without water.

**Waterless Chrome Tanning Demonstrations have also been made in Vietnam successfully and the next show how will be in Ethiopia. Tanners from New Zealand, South Africa too have evinced interest in our Waterless Chrome Tanning Technology.**

**Our Technologies have proved to be game-changers for the Global Leather Fraternity!**

CSIR-Central Leather Research Institute (CSIR-CLRI) has been making giant strides with its ‘Zero Waste Chrome Technologies (both Waterless Chrome Tanning Technology and a product for facilitating dry tanning). While CSIR-CLRI is in the process of transfer of its dry tanning product technology, Waterless Chrome tanning Technology has been through highly satisfactory demonstrations in the heartland of the Indian Leather Tanning Industries with overwhelming response from the Industry.

Context specific technologies for meeting the environmental standards are being strategized and CLRI has a series of technologies ranging from Electro Oxidation, Sludge minimisation, and waste utilisation technologies.

**Skill Development Programmes of CLRI**

Currently CSIR-CLRI is engaged with societal empowerment programmes through skill development for the needy that are below the poverty and double poverty line limits. These artisanal and skill upgradation programmes correspond to the Qualification Pack and National Operating Standards (QP and NOS) under the National Skill Qualification Framework (NSQF). Several State and Central organisations including National Scheduled Caste Finance Development Corporation and Andhra Pradesh Scheduled Castes Co-operative Finance Corporation Ltd. (APSCCFC Ltd.) provide financial assistance for creation of income generating assets to the Scheduled Caste (SC) households in Andhra Pradesh enabling their social and economic development. It also focuses on providing skill development/upgradation programmes for the SC community in Andhra Pradesh. AP Government through APSCCFC and Leather Industry Development Corporation of Andhra Pradesh (LIDCAP) has approached CSIR-CLRI to organize placement-linked skill development training programmes in different leather trades for SC youth in Andhra Pradesh. The candidates will be trained in different modules including Leather Processing/Leather Goods/Garments/Footwear trades. APSCCFC and LIDCAP will be sponsoring candidates continuously for the Skill Development Initiative of CSIR-CLRI and plan to train around 10000 candidates over a period of 2-3 years in association with CSIR-CLRI. The total financial outlay for this venture will be around Rs 30.0 crores.
For the first time, a meeting of the MODEUROP Colour Club will be held in the American soil.

CSIR-CLRI and CLE are members of MODEUROP since 1994 and for the MODEUROP Roundtable and Colour Club Meeting for the Spring Summer 2018 season slated for 19-23 October 2016 in New York; 18 Indian Tanneries have readied 450 leather/ colour proposals for presentation at this meeting. The MODEUROP Colour Card for the Spring Summer 2018 season will be released in India during mid-November 2016.

In conclusion, the mission of CSIR-CLRI is To meet the requirements of its external and internal customers, relevant regulatory and statutory bodies and other stake holders with continual improvement in its services, while aligning itself to the National agenda through technology innovation led solutions for the sector.