

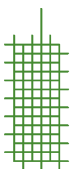


Vardhmān

pro

proactively responsible organisation

GROUP PROFILE





Vardhmān

ETHICS
IN PRACTICE

INNOVATION
IN PROCESS



ONE OF THE LARGEST
VERTICALLY
INTEGRATED TEXTILE
MANUFACTURERS
IN INDIA



TURNOVER OF
MORE THAN A
BILLION DOLLARS



LEADING
MANUFACTURER OF
PROCESSED FABRIC,
ESPECIALLY IN
PIECE DYED AND
STRETCH FABRIC



18 STATE-OF-THE-ART
MANUFACTURING
FACILITIES ACROSS INDIA



Vardhmān

ETHICS
IN PRACTICE

INNOVATION
IN PROCESS



**LARGEST INSTALLED
SPINNING CAPACITY
IN INDIA - 1.1 MILLION
SPINDLES**



**STRONG EXPORT
PRESENCE IN MORE
THAN 75 COUNTRIES**



**PRODUCING YARN AND
FABRICS FOR BOTH
TOPS AND BOTTOMS IN
THE APPAREL SEGMENT**



**DIRECT EMPLOYMENT
TO 25,000 + PEOPLE**



Vardhman

VSGs

VARDHMAN SUSTAINABILITY GOALS

To align all members of the team and ensure consistent focus across the organisation on our ten material issues, we have set goals for each one of them.

1 WATER



REDUCE CONSUMPTION OF FRESH WATER AND REJUVENATE SOURCES

2 ENERGY



DECOUPLE GROWTH FROM ENERGY CONSUMPTION AND SHIFT TO GREENER SOURCES

3 GHG EMISSIONS



MINIMISE EMISSIONS AND CONTRIBUTE TO MITIGATION OF CLIMATE CHANGE

4 WASTE



MINIMISE, REUSE AND UPCYCLE WASTE TO REDUCE THE BURDEN ON LANDFILL

5 RAW MATERIAL



ENHANCE TRACEABILITY AND USE OF ETHICALLY AND SUSTAINABLY SOURCED RAW MATERIAL

6 PEOPLE



WORK CONDITIONS THAT INSPIRE PRODUCTIVITY AND TRAINING PROGRAMMES THAT ACCELERATE HOLISTIC DEVELOPMENT

7 COMMUNITY



EMPOWER THE MARGINALISED BY MAINSTREAMING THEM IN THE FORMAL ECONOMY

8 CHEMICALS



ELIMINATE HAZARDOUS CHEMICALS FROM ALL PROCESSES AND ADOPT GREEN CHEMISTRY

9 COLLABORATION



LEVERAGE ACCESS AND COMPETENCIES TO HELP CUSTOMERS REACH THEIR SUSTAINABILITY GOALS

10 PRODUCT



RESPONSIBLE FASHION AND TRANSITION TO CIRCULAR ECONOMY

VARDHMAN SUSTAINABILITY FRAMEWORK



Our framework focusses on a holistic, balanced and practical approach for addressing all three facets of sustainability - Environmental, Social and Economic

proactively



Environment

protect

responsible



Social

prosper

organisation



Economic

proliferate



Vardhmān

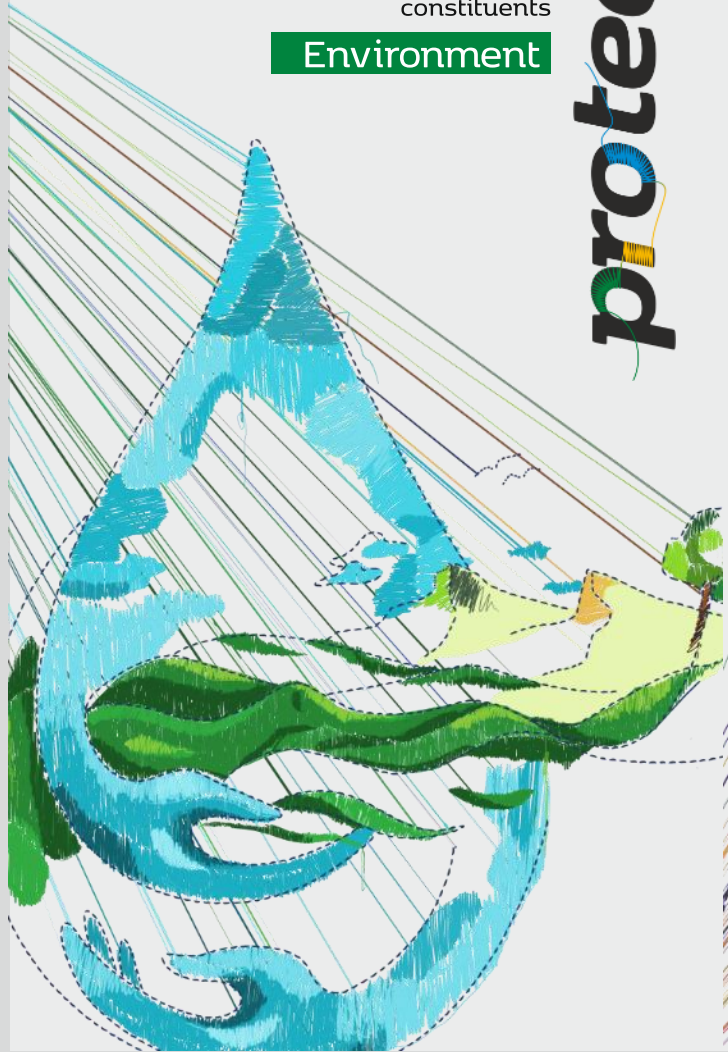
pro
pr

*proactively
responsible
organisation*

Proactively protect the
environment and all its
constituents

Environment

protect



Be responsible
for the prosperity of
all stakeholders

Social

prosper



Provide a strong
organisational thrust to proliferate
the green product portfolio

Economic

proliferate





Vardhmān

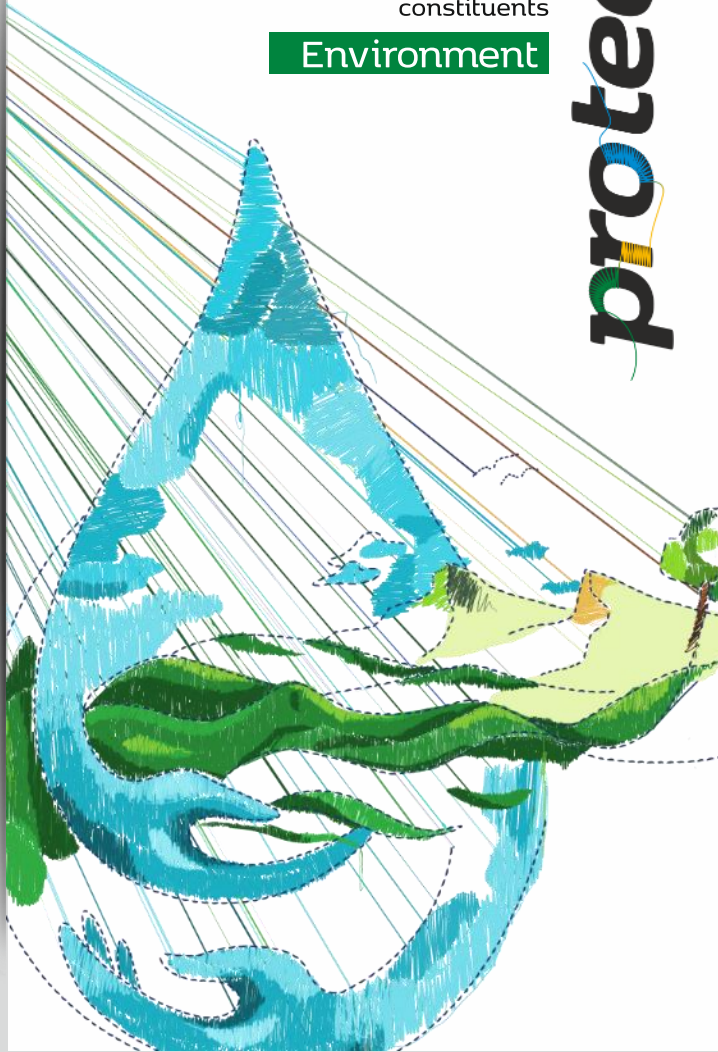
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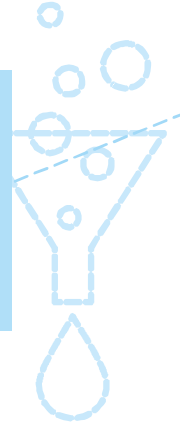
WATER MANAGEMENT

REDUCING FRESH WATER CONSUMPTION

14% reduction in fresh water consumption in processing



0.81 million KL of raw water saved by using treated STP water for non-process activities



Introduced eco-washers to minimise water consumption

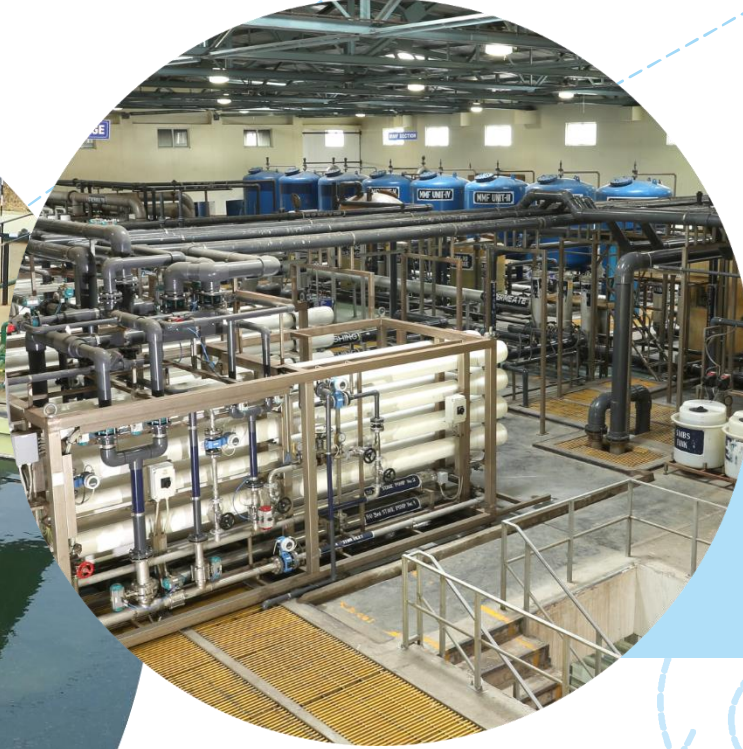


WATER MANAGEMENT



**TAKING THE WASTE OUT
OF WASTEWATER**

**3.19 million KL
of wastewater
treated per year
in our ETPs**



**COD, BOD removal
efficiency of ZLD
plant is 90-92% and
96-98% respectively**

**9 STPs and 3 ETPs
in the group, of which 2 are
Zero Liquid Discharge - 8,800 KLD**



WATER MANAGEMENT



RECOVER AND REUSE



52 rainwater harvesting systems with 1.75 million KL recharge capacity per annum

We currently recycle 36% of our process water

100% reuse of STP treated water in processing plant at Vardhman Fabrics



ENERGY & EMISSIONS



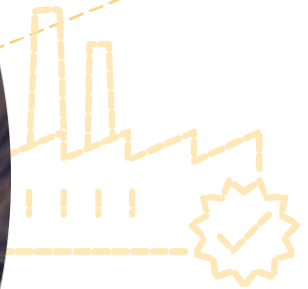
**EXEMPLARY
PERFORMER
IN PAT - 1**



“Best Achiever Award” for energy conservation

29% energy savings against notified target of 5.77%

10 units registered in PAT Scheme and certified as E-cert



VFB chosen as Model Factory to develop Energy Conservation guidelines for Indian textile industry

ENERGY & EMISSIONS



REDUCING ENERGY CONSUMPTION

Installed level-III energy efficient transformers



Replaced high-pressure compressors with lower pressure ones



Periodic Energy Audits for continual improvement

ENERGY & EMISSIONS



GREENING THE ENERGY MIX



Installation of 8.75 MW of solar power system underway

EXPECTED TO GENERATE 170 MILLION KWH



120 kg/day

Biogas produced from in-house organic waste used for cooking



100%

Carbon neutral biomass based fuel in Baddi



ENERGY & EMISSIONS



REDUCING EMISSIONS



Reduction in our carbon emissions in FY 2018-19

63,000 tons

Sequestered carbon dioxide by promoting afforestation, and planting

2,80,000+ saplings

CHEMICAL MANAGEMENT



**CHAMPIONING
GREEN CHEMISTRY**



All dyes and chemicals are GOTS certified & finished fabric is Oeko-Tex Class-I certified

Identified and eliminated potentially harmful and banned chemicals from manufacturing process through CHEM-IQSM





CHEMICAL MANAGEMENT



**CHAMPIONING
GREEN CHEMISTRY**

**RESTRICTED
SUBSTANCES LIST**

  **CLEANCHAIN**

Registered on the ZDHC InCheck & Gateway

Working with CleanChain and Clean by Design

100% ZDHC compliant input of chemicals



Exhaustive Restricted
Substances List
(RSL) - most stringent
among RSLs and MRSLs
of 23 brands

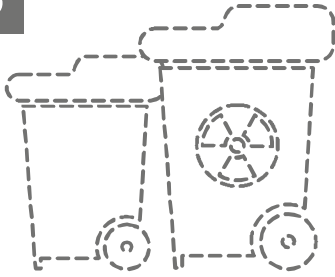


WASTE MANAGEMENT

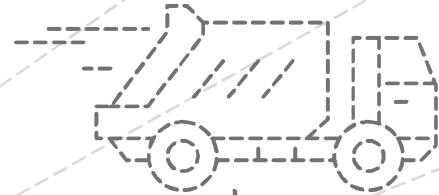


A 3-STEP PROCESS

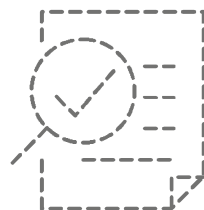
Segregation
of waste into hazardous and non-hazardous at generation and storage site



Responsible Disposal of waste
to Pollution Control Board authorised vendors only



Validation
through periodic audits and visits to vendors



REDUCING PACKAGING WASTE

Shifted from
90-95 GSM HDPE to
60-65 GSM HDPE



Increased
reuse of HDPE
sheets from
50-55% to
90-95%

Switched to cut
pieces for pallet
packaging, which
resulted in savings
of 30-40%

In the past two years, Vardhman Fabrics reduced its plastic consumption by 60%



Vardhmān

pro

*proactively
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organisation*

Proactively protect the environment and all its constituents

Environment

protect



Be responsible for the prosperity of all stakeholders

Social

prosper



Provide a strong organisational thrust to proliferate the green product portfolio

Economic

proliferate

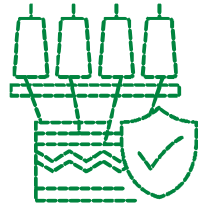


EMPLOYEE SAFETY

What gets measured, gets managed.

SAFETY AUDIT

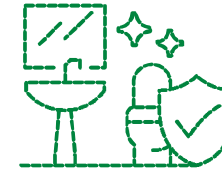
FREQUENCY | 6 MONTHS



WORKPLACE SAFETY AUDIT



CANTEEN HYGIENE & SAFETY AUDIT



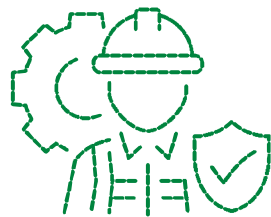
WASHROOM HYGIENE & SAFETY AUDIT



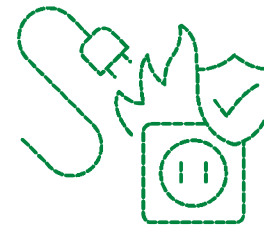
WAREHOUSE SAFETY AUDIT

THIRD PARTY AUDIT

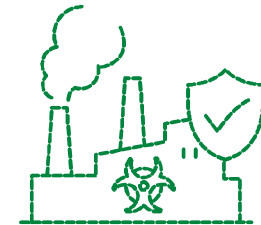
FREQUENCY | ANNUALLY



ISO - 45001 / OHSAS 18001 & ISO 14001



ELECTRICAL SAFETY AUDIT



HAZARDOUS PLANTS SAFETY AUDIT

All group units

Auro Textiles - Liquid Ammonia Plant
Vardhman Acrylics Limited | Vardhman Fabrics

EMPLOYEE SAFETY



ROBUST SAFETY SYSTEMS AND PROCESSES



System based maintenance of machines and equipment

One Day Safety Officer (ODSO) to propagate a safety culture and create higher ownership among employees

LOTO System for electrical & maintenance work

- Comprehensive safety manual
- Emergency preparedness & response plans
- Regular mock drills



EMPLOYEE SAFETY



THOROUGH SAFETY TRAINING

Safety training for all new recruits

Sessions on material handling, fire-fighting, chemical & safety



3,708
female workers provided safety training



1,251
workers across the organisation trained by Red Cross

Trained and qualified fire-fighting teams in all group units

EMPLOYEE DEVELOPMENT



PROFESSIONAL COMPETENCY UPGRADE

- Induction Training
- Functional Orientation Training
- Attitudinal Training
- FTE Training



VIBRANT QUALITY CIRCLES



Help sharpen analytical & problem solving skills of employees

Slew of national and international awards stand testimony to the efficacy of this programme



EMPLOYEE DEVELOPMENT



BEST PRACTICES AND NEXT PRACTICES

Workshops by external faculties and thought leaders

Training and lectures on emerging trends in areas like sustainability and the probable impact on our industry

PERSONAL ADVANCEMENT AND CAREER ENHANCEMENT BY GAP



P.A.C.E.
Gap Inc.

483
women workers
covered in
15 batches



WOMEN EMPOWERMENT

ADVOCACY FOR EQUAL PROFESSIONAL RIGHTS FOR WOMEN



Through persistent advocacy, convinced the Punjab, Madhya Pradesh and Himachal Pradesh Governments to pass a bill allowing women to work in the night shift

13% women in our nightshift workforce



WOMEN EMPOWERMENT

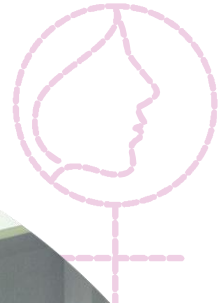
**ECONOMIC
EMPOWERMENT**

15,000 women workers joined
our workforce over the last 5 years

57% women from
rural background,
leading empowered
new lives



WOMEN EMPOWERMENT



SAFE AND ENABLING ENVIRONS

HOMELY ENVIRONMENT



NUTRITIOUS FOOD



HOLISTIC DEVELOPMENT



3,000 women provided accommodation in 14 hostels

SPORTS & ACTIVE LIFESTYLE



CELEBRATION OF FESTIVALS

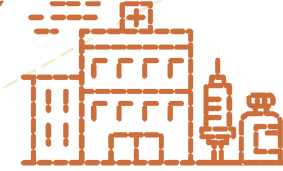


COMMUNITY EMPOWERMENT

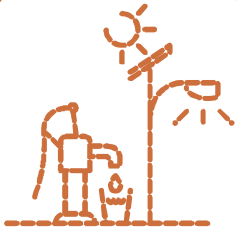
MAIN FOCUS AREAS



EDUCATION



HEALTHCARE



RURAL
DEVELOPMENT



DISASTER RELIEF
SUPPORT



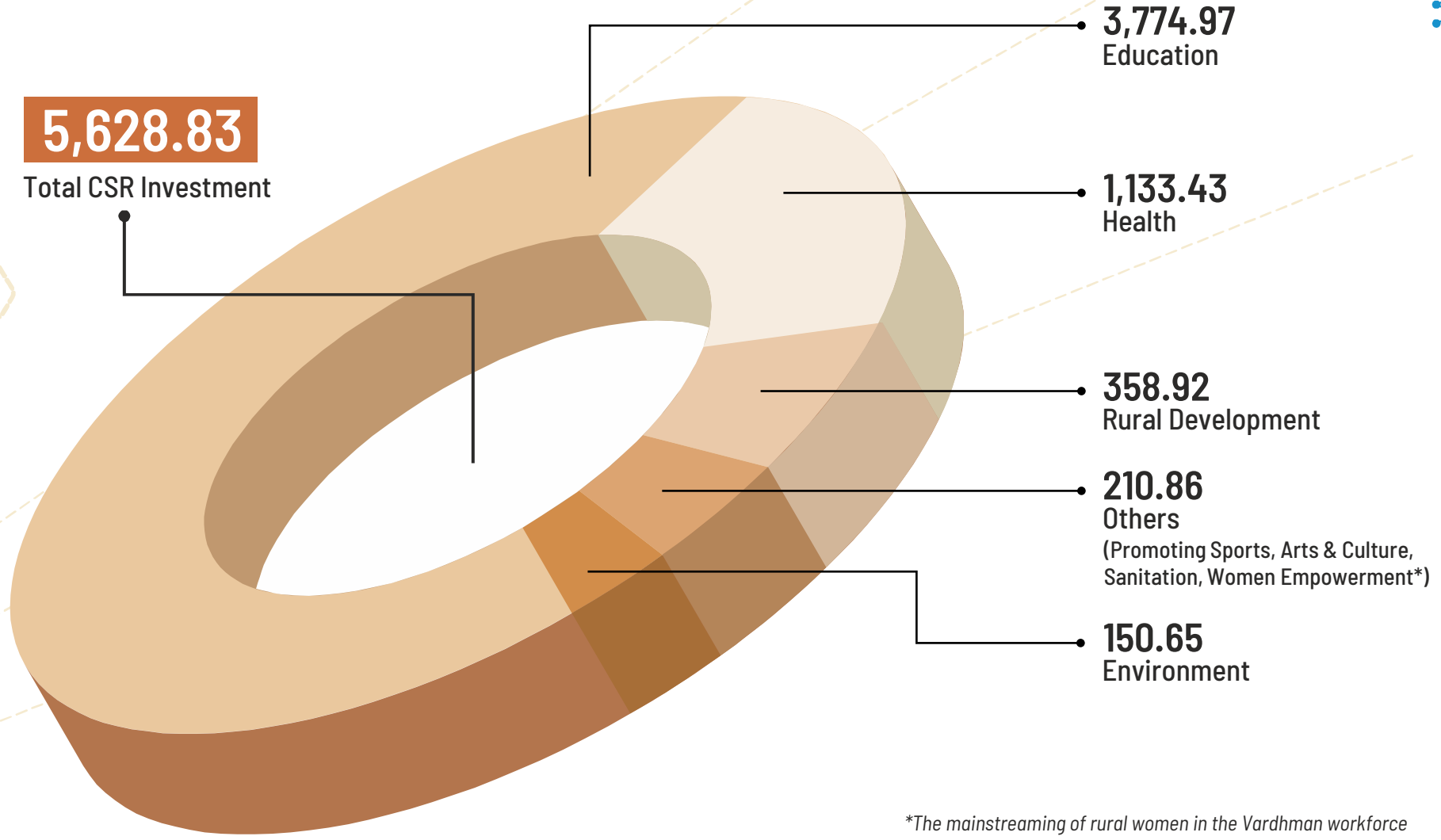
COMMUNITY EMPOWERMENT



CSR INVESTMENT DASHBOARD

during 2015-2019 in INR lakh

5,628.83
Total CSR Investment



**The mainstreaming of rural women in the Vardhman workforce is not accounted as a CSR spend and thus does not reflect in the above chart.*

prosper EDUCATION

**BUILDING AND STRENGTHENING
INFRASTRUCTURE**



Installed 30 water coolers & RO systems in Government Schools

Supported 65 Government Schools and 41 Anganwadis

Built 150 classrooms & 40 toilet blocks at different Government Schools in Punjab, Himachal Pradesh and Madhya Pradesh

BENEFITTING

30,000+ students



prosper EDUCATION



SCHOLARSHIPS TO UNDERPRIVILEGED STUDENTS

BENEFICIARIES
500 students

ENCOURAGING DIGITAL LITERACY

PROMOTING TRIBAL EDUCATION

Constructed a school block at Bheem Kothi, MP – a tribal village

Set up 8 computer labs, provided 100 computers + software



HEALTHCARE

UPGRADING HEALTHCARE INSTITUTIONS



Modern medical equipment to 12 hospitals and 2 community health centres

BENEFICIARIES

1,50,000 community members

HEALTHCARE



**INVESTING IN MOTHER
AND CHILD CARE**

**INR 1.20 crore for
construction of paediatric
ward at Hoshangabad**

BENEFICIARIES

250 patients
everyday

**Provided equipment to
Mother & Child Hospital (MCH),
Ludhiana**

BENEFICIARIES

2,400+ women



HEALTHCARE



**MAKING HEALTHCARE
ACCESSIBLE**

**Medical grant to the Clinical
Haematology Diagnostic Fund**

**MoU with CMCH for annual grant of
INR 25 lakh for cancer patients**

BENEFICIARIES

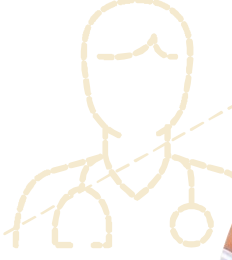
300 patients

**Annual grants of INR 30 lakh each given
to DMC and PGI under Poor Patients' Fund**

HEALTHCARE



HEALTH CAMPS AND BLOOD DONATION DRIVES



Organised
33 medical
health camps
in 40 villages

BENEFICIARIES

5,600+ villagers



Collected 1,300 units of blood
through 14 blood donation camps



HEALTHCARE

PROJECT NANDINI



Installation of sanitary napkin vending machines in government schools

Installation of incinerators for safe disposal of napkins in the schools



Regular talks and workshops at these schools on menstrual health

BENEFICIARIES **3,400** adolescent girls



RURAL DEVELOPMENT



ELECTRIFICATION

Installed 60
Solar Lights

LIGHTING UP

20,000+
lives

SAFE DRINKING WATER



HYGIENE & SANITATION

Constructed 3
community toilets



Provided 5 borewells and 8 hand pumps

BENEFICIARIES

10,000+ villagers



Vardhmān

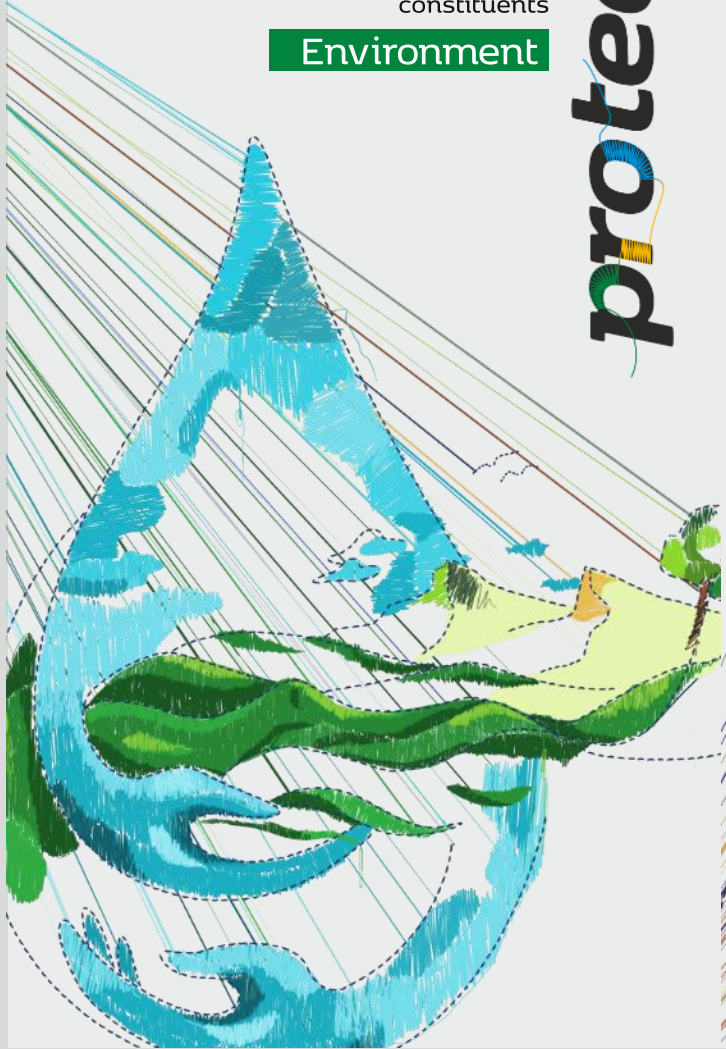
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Environment

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Be responsible
for the prosperity of
all stakeholders

Social

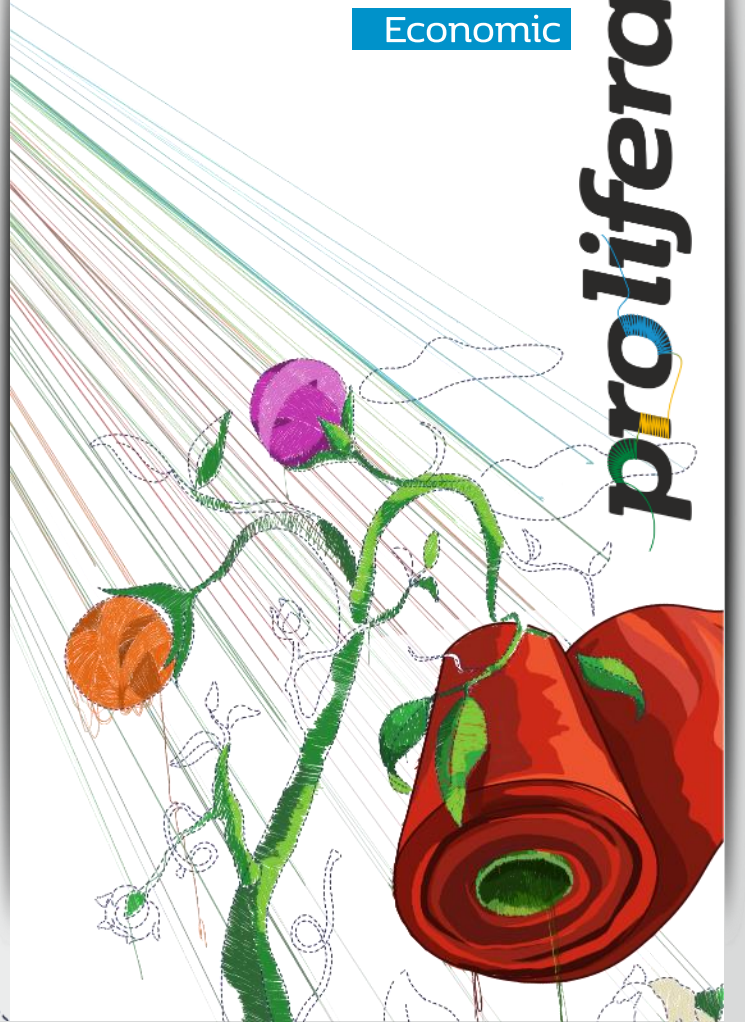
prosper



Provide a strong
organisational thrust to proliferate
the green product portfolio

Economic

proliferate



GREEN PRODUCT PORTFOLIO



NATURAL FIBRE



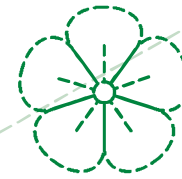
Recycled and BCI Cotton



Wool



Hemp



Linen

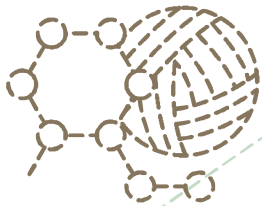


Silk

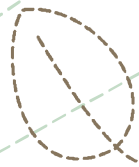
GREEN FIBRES

REGENERATED FIBRE

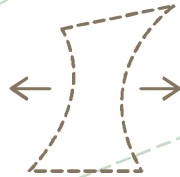
SYNTHETIC



MAN-MADE FIBRE



EcoVero



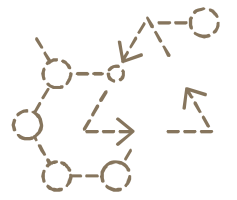
Modal



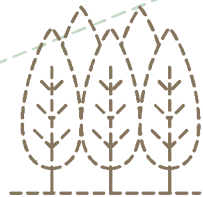
Tencel



Refibra



Recycled Polyester
Recycled Nylon



Livaeco



Bamboo



FSC - Viscose

GREEN PRODUCT PORTFOLIO



**SUSTAINABLE
COTTON**



Organic Cotton
8,000 tons

BCI Cotton
28,000 tons

Recycled Cotton
5 tons*

**Initiated in 2018*



PROJECT PRAGATI INITIATIVE



Launched in 2015 in Gujarat to train farmers as per BCI requirements

24,173 hectares of land

5 producer units

25-30% of our total cotton procured from our own BCI certified projects in Gujarat

80 villages

Distribute cotton bags to prevent contamination of cotton during picking

13,949 farmers



GREEN FABRIC FINISHES



**FLUORINE-FREE,
WATER REPELLENT FINISH**



**PLANT EXTRACT
BASED SOFTNER**



ANTIMICROBIAL FINISH



SILVER-ION FINISH



**FORMALDEHYDE-FREE EASY CARE,
AND ZERO FORMALDEHYDE RESIN
FOR CREASE RECOVERY AGENT**



ANTI-MOSQUITO FINISH



MECHANICAL FINISHES



GREEN COLLABORATIONS



UPCYCLING PET BOTTLES

Fabric Innovation with
Reliance Industries

To produce the
new-age fabric



GreenGold



CLEAN-TECH PROGRAM

with H&M and WWF

Experts from Glofin (consultant) visit units to assess and help develop the business case for energy efficiency and renewable energy measures.

CLEAN BY DESIGN

with NRDC, Apparel Impact Institute
and Sustainable Textile Solutions

To implement best practices for increasing water and energy efficiency and promote Green Chemistry.



GREEN CERTIFICATIONS

HIGG FEM 3.0 SCORE

Auro Textiles I 85.6

Auro Textiles II 82.54

Vardhman Fabrics 85.04



REACH
Registration, Evaluation,
Authorisation and
Restriction of Chemicals

GREEN AT EVERY STEP

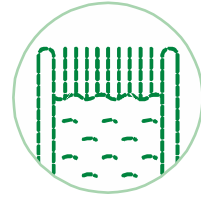


**COTTON FIBRE/
FILAMENT/
SYNTHETIC FIBRE**



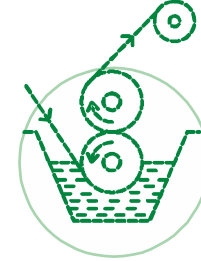
SPINNING

Installed Acetex/Fibre
Recovery Plant to
convert unusable waste



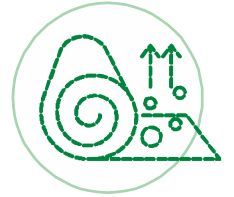
WEAVING

- Shift from synthetic sizing chemicals to 100% natural green products
- Natural wax used
- Remnant yarn from 5.50% to 2.70%



DESIZING

Enzymatic desizing
instead of chemical
desizing



SCOURING

Added process of
Bio-Scouring



FINISHING

- Promoting mechanical finishes
- Promoting plant extract based softeners
- Zero Formaldehyde resin for wrinkle free finish



SOAPING

Probiotic based soaping
agent in place of
chemical detergent



DYEING

Shifted from
conventional salt
based dyeing process



MERCERISATION

Installed two Caustic
Recovery Plants with an
efficiency of 90%



BLEACHING

No chlorine, only 100%
peroxide bleaching





VARDHMAN TEXTILES LIMITED

Chandigarh Road, Ludhiana, Punjab - 141 010, India.

mngt@vardhman.com | www.vardhman.com

CIN: L17111PB1973PLC003345