Environmental, Social and Governance Status Update

November 2021

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"GMR Group is one of the fastest growing infrastructure enterprises in the country with a rich and diverse experience spanning three decades. Using the Public Private Partnership model, the Group has successfully leveraged its core strengths to implement several iconic infrastructure projects in India."

Group vision

GMR Group will be an institution in perpetuity that will build entrepreneurial organizations, making a difference to society through creation of value

Our values & belief

Humility　　Entrepreneurship　　Delivering the promise　　Learning and inner excellence　　Respect for individual　　Teamwork & relationships　　Social responsibility

Business sectors

Airports	Energy	Transportation	Urban Infrastructure	Services Business

GMR Varalakshmi Foundation is the Corporate Social Responsibility arm of the GMR Group

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Headquarters

- New Delhi, India

Airports

- Delhi International Airport Limited, India (*DIAL*)

- GMR Hyderabad International Airport Limited, India (*GHIAL*)

Services

- RAXA Techno Security Solutions (*RAXA*)

Energy

- GMR Gujarat Solar Power Private Limited (*GSPPL*)

- GMR Warora Energy Limited (*GWEL*)

- GMR Kamalanga Energy Limited (*GKEL*)

- GMR Renewable Energy Limited (*GREL*)

Transportation

- GMR Pochannpalli Expressways Limited (*GAPEL*)

- GMR Ambala Chandigarh Expressways Private Limited (*GACEPL*)

- GMR Chennai Outer Ring Road Private Limited (Associate) (*GCORR*)

- GMR Hyderabad Vijayawada Expressways Private Limited (Associate) (*GHVEPL*)

- DFCC- EPC Project (*DFCC-EPC*)

- In this presentation, only operational and material assets have been included.

- The entities for which GMR is not the major shareholder have been excluded.

Unless otherwise stated, the information presented in this presentation pertains to the business units mentioned above.

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ESG Considerations

- The Group companies strive together to create a difference in society through creation of value for each stakeholder.
- We have responsibly invested and allocated resources to adhere to environmental standards and enhance our Environment, Health and Safety levels. We are uplifting surrounding communities through our CSR arm i.e., GMR Varalakshmi Foundation.

Environment

- Focus on climate action
- Natural resource conservation
- Energy efficiency and reduced emissions
- Green infrastructure
- Pollution prevention

People

- Care for society
- Social and mental well-being of employees and their family members
- Responsibility towards internal as well as external stakeholders
- Learning and development

Profits

- Sustainable economic value
- Sustainable business growth
- Strict governance principles through guided values of the organization
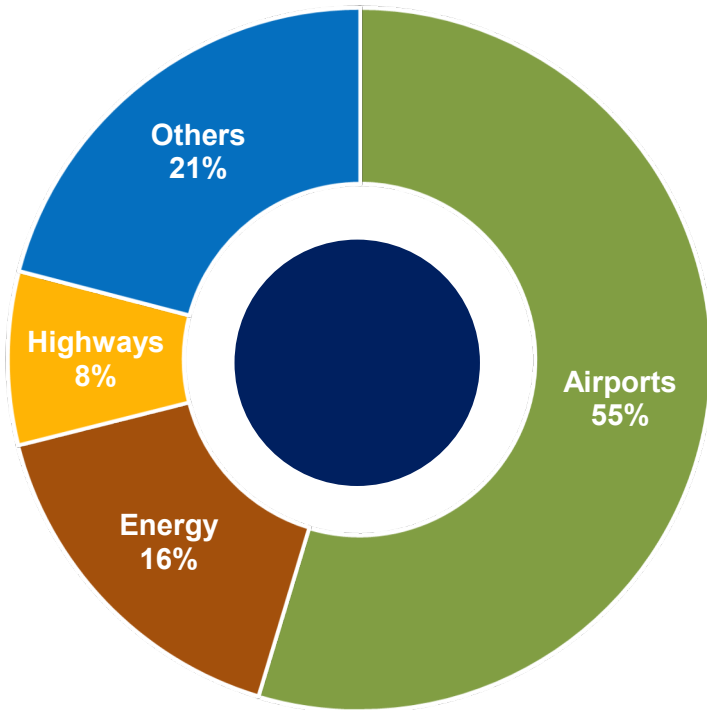
Governance

- All the secretarial compliances in place
- Internal audits, MAG audits keep processes very transparent
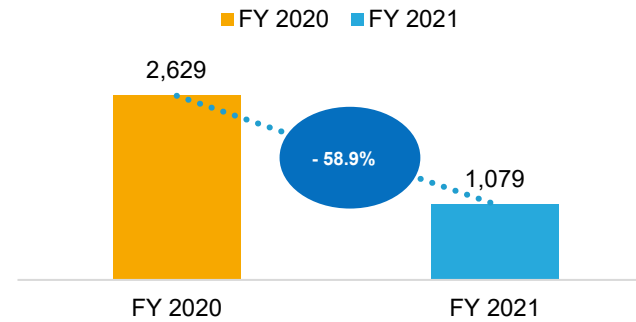- Business excellence framework, ethics & intelligence, ombudsman services in place

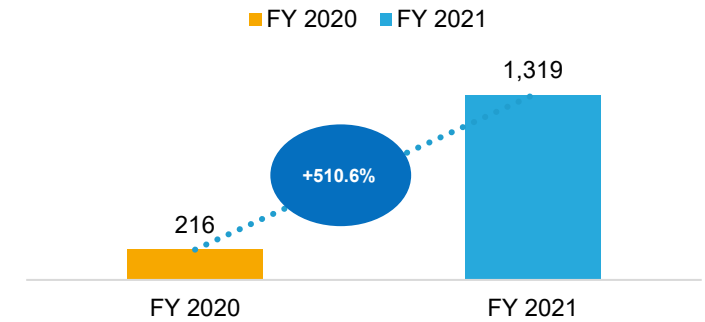Humility I Entrepreneurship I Teamwork and Relationships I Deliver the Promise I Learning and Inner Excellence I Social Responsibility I Respect for Individual

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GMR

Sector-wise revenue from operations

Airports 55%
Others 21%
Highways 8%
Energy 16%

EBITDA (in INR crores)

■ FY 2020   ■ FY 2021

2,629 — -58.9% → 1,079

FY 2020   FY 2021

Net worth (in INR crores)

■ FY 2020   ■ FY 2021

216 — +510.6% → 1,319

FY 2020   FY 2021

Total Assets (in INR crores)

■ FY 2020   ■ FY 2021

46,527 — +7.3% → 49,960
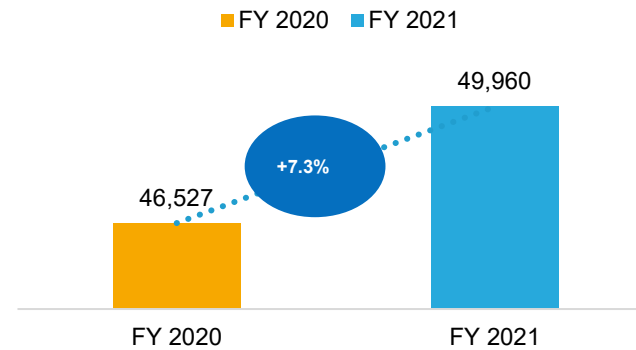
FY 2020   FY 2021

Borrowings (in INR crores)

■ FY 2020   ■ FY 2021

32,102 — +7.7% → 34,593

FY 2020   FY 2021

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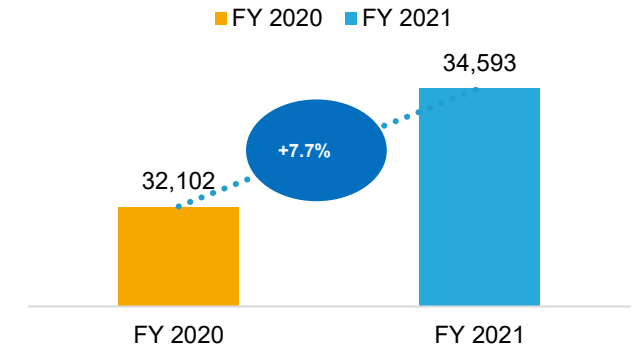
Significant ESG issues FY 2020-21

GMR

Climate Change and Energy

Environmental Regulations and Compliance

Occupational Health and Safety

Labor Management

Community Engagement

Water and Waste Management

Biodiversity and Land-Use

Corporate Governance

Responsible Sourcing and Procurement

Employee and Customer Relationship Management

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GMR-Leadership Team

G M Rao
Group Chairman

Srinivas Bommidala
Chairman-Energy & International Airports

G B S Raju
Chairman - Airports

Kiran Kumar Grandhi
Corporate Chairman

B V N Rao
Chairman - Transportation & Urban Infrastructure

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Name of the Directors	Mr. G. M. Rao	Mr. Grandhi Kiran Kumar	Mr. Srinivas Bommidala	Mr. G.B.S. Raju	Mr. Madhva Terdal	Mr. B.V. N. Rao	Mr. N. C. Sarabeswaran	Mr. R.S.S.L.N. Bhaskarudu	Mr. S. Rajagopal	Mr. S. Sandilya	Mrs. Vissa Siva Kameswari	Mr. Suresh Lilaram Narang
Category	Chairman, Promoter Director	Managing Director and CEO, Promoter Director	Promoter Director	Promoter Director	Executive Director/Whole time Director (other than above)	Non-Executive Director	Independent Non-Executive Director	Independent Non-Executive Director	Independent Non-Executive Director	Independent Non-Executive Director	Independent Non-Executive Director	Independent Non-Executive Director
Skillset/ Competencies												
Project Management	•	•	•	•	•	•		•		•		
Domain/ Industry Specialist	•	•	•	•	•	•	•	•	•		•	•
Asset Management/ Operational Excellence	•	•	•	•	•	•		•		•		•
Business Development & Business Strategist	•	•	•	•	•	•	•	•	•	•	•	•
Organizational Learning and Institutional Memory	•	•	•	•	•	•	•	•	•	•	•	•
Governance Consciousness	•	•	•	•	•	•	•	•	•	•	•	•
Functional expertise	•	•	•	•	•	•	•	•	•	•	•	•
Networking	•	•	•	•	•	•	•	•	•	•	•	•
General Attributes	•	•	•	•	•	•	•	•	•	•	•	•

- Functional expertise includes Information Technology, Finance & Banking, etc.
- General Attributes includes Entrepreneurship, Understanding of Domestic Economic Environment & Global Issue, Interpersonal Communication skills, Leadership Skills, Soundness of Judgment, People & Process Orientation
- Due to his sudden demise, Mr. C.R. Muralidharan ceased to be director of the company w.e.f October 2020
- Currently Messrs. Sarbeswaran, Bhaskrudu, Rajagopal, Sandilya and Mrs Kameswari have been replaced by Messrs. E Sankara Rao, M. Ramachandran, Sadhu Ram Bansal, A. Subbarao, and Mrs. Bijal Tushar Ajinkya

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Risk Management Committee

Debentures Allotment Committee

Audit Committee

Nomination and Remuneration Committee

Our Board Committees

Management Committee

Stakeholders' Relationship Committee

Corporate Social Responsibility (CSR) Committee

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Governance Highlights FY 2020-21

Description	Availability
Board remuneration policy	✓
Board election/ re-election guidelines	✓
Process of board performance evaluation (self assessment/ independent assessment)	✓
Mechanism for ESG governance including executives responsible for ESG performance and management	✓
Board structure (number of independent, non-executive and executive directors)	✓
Number of non-executive directors with relevant industry experience in company's own sector	✓
Guidelines for compensation of CEO and other executive directors (including financial and non-financial metrices that determine variable compensation)	✓
Guidelines around performance period and time vesting for CEO's variable compensation	✓
Anti corruption and bribery policy	✓
Policy around anti-trust/anti-competitive practices	✓
Non-discrimination policy	✓

Description	Availability
Policy around confidentiality of information	✓
Policy around conflict of interest	✓
Policy around money-laundering and/or insider trading/dealing	✓
Process for addressing CoC non-compliances (whistleblowing guidelines)	✓
Periodic training for employees on the CoC guidelines	✓
A Quality Management System document or guidelines to ensure merchants and distributors comply with customer service quality standards	✓
Process for audit of merchants to ensure product and consumer service quality	✓
Risk management framework and governance process, including SOPs around risk assessment and mitigation	✓
Details of sensitivity analysis or stress testing undertaken for any financial, operational, market or business-related risks	✓
Details of key existing and long-term emerging risks identified, along with their potential impact and mitigation strategies	✓
Measures taken to promote an effective risk culture in the organisation (such as financial incentives which incorporate risk management metrics or training throughout the organization on risk management principles)	✓

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Data and Information Security

Key initiatives and statistics

- There were **Zero security incidents / breaches** with any material impact that required reporting.
- **Bi-weekly communications** related to IT Security awareness are sent to all employees and third parties
- **Monthly instructor led IT Security training and awareness programmes** are conducted for all employees
- **Sample based phishing simulation** is twice a year
- Designed **Comprehensive groupwide cyber culture mission** program (to be launched by Nov'21)
- Institutionalized new **Group level Vulnerability Threat & Risk management program**

Key changes in ISMS post COVID-19 pandemic

- Enhanced IT infrastructure to be ready for secure remote working
- Greater focus on end point security.
- Increase focus on user awareness

Cybersecurity Awareness celebrated in the month of October

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Our ISO Compliances

Our ISO Certifications

ISO: 9001
GKEL, GWEL, DFCC, DIAL, GHIAL

ISO: 14001
GKEL, GWEL, DFCC, DIAL, GHIAL

ISO: 50001
GKEL, GWEL, DIAL, GHIAL

ISO: 45001
GKEL, GWEL, DFCC, DIAL, GHIAL

ISO: 14064
DIAL, GHIAL

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CSR thrust areas

Health
Preventive and curative primary health care facilities made accessible to improve wellbeing and quality of life of beneficiaries

Education
Better learning opportunities

Empowerment and livelihoods
Livelihood opportunities created for individuals/families thus enhancing their incomes and quality of life

Community development
Generating awareness among communities on social and environmental issues

CSR spent

CSR spent for FY 2020-21
INR 21.22 crores

Total beneficiaries
229,245

% CSR spent

- Others 5%
- Education 18%
- Health 12%
- Empowerment and livelihood 65%

COVID-19 related work

- Supplied 140000 cooked meals to the most needy and vulnerable
- Supported over 7000 families and 5 orphan homes with dry ration.
- Conducted 'Hands for Humanity' program in collaboration with 92.7 Big FM and Delhi
- Police at Delhi under which ration kits were provided to 1050 families in 10 days.
- Trained women made over 60000 masks and 6500 PPE kits

SDG alignment

1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
11 SUSTAINABLE CITIES AND COMMUNITIES

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Key initiatives

Education

- Support Govt. Schools to improve the quality of Education
- Supporting Govt. Anganwadis and Running Bala Badis to provide Quality Pre-school Education
- Sponsoring the education of under-privilege children under the gifted children scheme, scholarships etc.
- •Support to students with coaching for different entrance and competitive examinations, as well as through scholarships and loans for pursuing higher education etc.
- Also running several schools, an engineering college and a degree college in rural or remote areas for providing access to good quality education
- GMRVF's vocational training centers are ISO 9001:2015 certified

Health, Hygiene and Sanitations

- Running 200- bed multispecialty hospital at Rajan, Andhra Pradesh which provides affordable quality health care to the communities
- Running free medical clinics, Mobile Medical Units (MMU) where there is lack of good access of health facilities
- Conducting need-based awareness general and specialized health check-up camps and school health check-ups
- Conducting health awareness programs with special focus on seasonal illnesses, HIV/AIDS etc.
- Constructing public toilets and facilitating construction of individual sanitary lavatories
- Providing nutritional supplements to vulnerable groups like AIDS affected, anemic adolescent girls, pregnant women etc.

Empowerment and Livelihood

- Running 15 vocational training centers for training under-privilege dropout youth in different vocational programs
- Promoting and strengthening Self-Help Groups (SHG) of women and providing training, input and marketing support to them to take up income generation programs
- Working with farmers to enhance the productivity and incomes and support micro-entrepreneurs with material, training and marketing support etc.
- Running community libraries, supporting youth clubs, conducting awareness programs on social issues etc.

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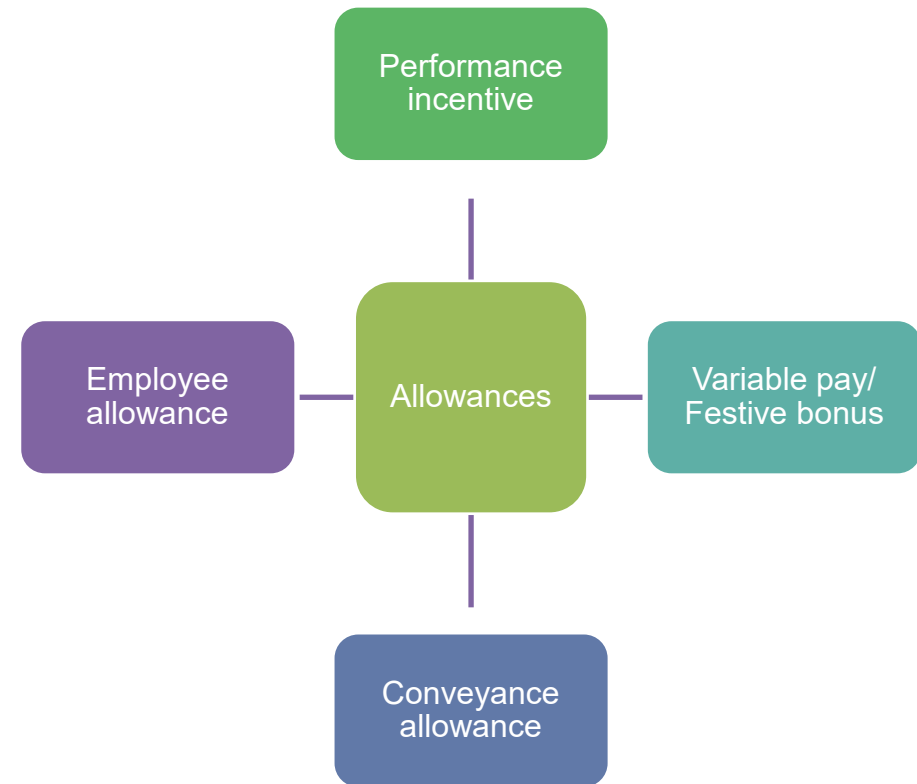
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Our employees are the backbone of our company and the driving force behind its success and fulfillment of its goals.

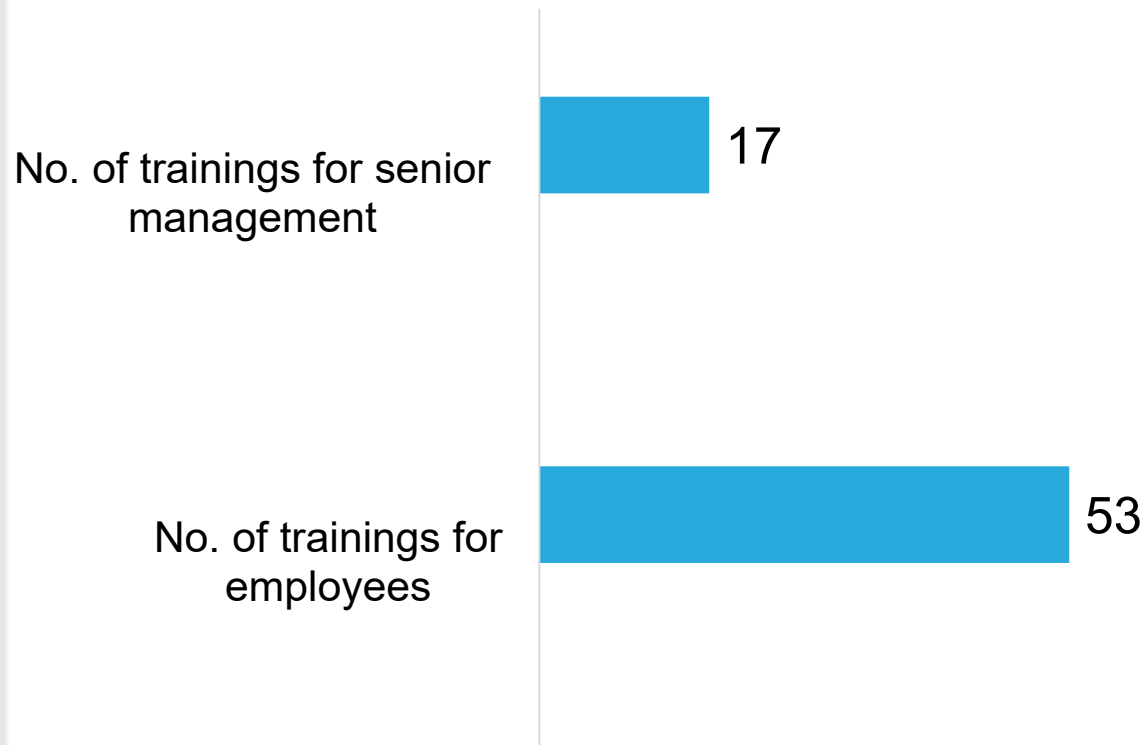| Number of employees	Energy & Transportation*	Airports
No. of male employees (permanent full-time)	3,056	1,858
No. of female employees (permanent full-time)	56	278
No. of male employees (contractual)	5,176	6,728
No. of female employees (contractual)	213	705
Total number of male employees	8,232	8,586
Total number of female employees	269	983
Total number of employees	8,501	9,569

* Also, includes RAXA

We provide multiple benefit allowances to our employees which can be customized and thus provides additional benefit to them.

- Performance incentive
- Employee allowance
- Allowances
- Variable pay/ Festive bonus
- Conveyance allowance

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Employees Learning and Development

Healthcare Benefits for Regular Employees

Employees are entitled to parental leave

- Maternity leave 26 weeks
- Paternity leave 3 days
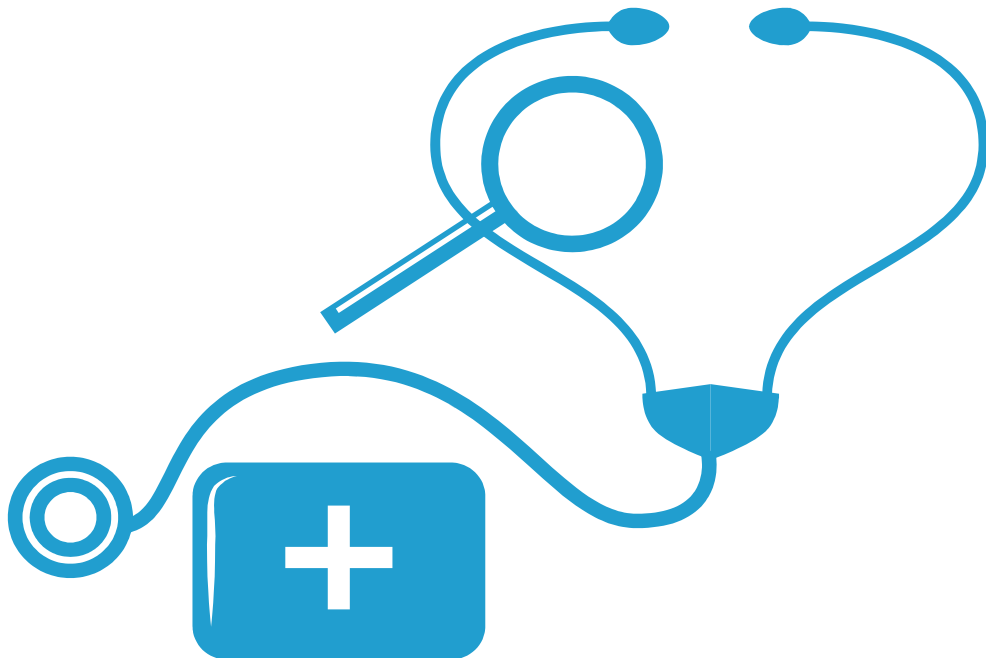
Group Medical Insurance

- All regular employees are provided with a mandatory Medical Insurance Coverage of 1.5 Lacs per annum for Self, Spouse and two dependent children.

- In addition, employees are given the option to chose higher Medical Insurance Coverage of Rs. 3, 5, 7 and 10 Lacs.

- Employees can also cover their parents and parent in-laws (Max 4) under Medical Insurance Coverage of Rs. 1.5, 3, 5, 7 and 10 Lacs.

Executive Health Check Up Policy

- Under executive health check up policy, employees above 40 years of age are provided with a reimbursement of 4,500/- towards executive health check up once in a year.

- Employee's spouse above 50 years of age is also covered under this.

- ESCI Coverage is given to all employees as per ESCI Norms.

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Responsible Procurement

GMR has a dedicated supplier code of conduct and business ethics standards. Our ethos for responsible sourcing and procurement are:

Strengthening our procurement process's governance and transparency	Ensuring a secure working environment	Supplier/ contractor Employee statutory welfare measures

Suppliers are screened on the following social criteria:

- ✓ Clean and safe facilities
- ✓ Minimum wages
- ✓ Working hours (allowing at least one day off per week)
- ✓ Health and safety practices
- ✓ Non-discrimination
- ✓ Freedom of association and collective bargaining
- ✓ Humane treatment and prevention of harassment or abuse
- ✓ Prohibition of child labor
- ✓ Prohibition of forced or compulsory labor
- ✓ Collective bargaining
- ✓ Business ethics

Suppliers are screened on the following environmental criteria:

- ✓ Environmental management systems
- ✓ Pollution prevention and resource reduction
- ✓ Solid waste management
- ✓ Hazardous substances management
- ✓ Environmental permits
- ✓ Air emissions monitoring and management
- ✓ Water management
- ✓ Energy consumption and GHG emissions

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We strongly believes in **zero harm** to our employees and allied workforce working across all its locations, operations, and services. Our goal is **Zero accident and Zero Environmental incidents**.

Risk Minimization methods adopted

- **Hazard Identification & Risk Assessment (HIRA)** is carried out for all our site activities during construction and O&M phases. It helps to recognize and control hazards before harm occurs.

- **Safety Induction:** Initial induction meeting to familiarize the personnel with the site specific EHS rules and regulations.

- **Permit to Work (PTW) System:** PTW is used to authorize certain people to carry out specific work, at certain times and dates.

- **Toolbox Talk (TBT):** TBT is used to enhance communication between workers and supervisors resulting in increased awareness between all members.

- **EHS officer is deputed at site for day-to-day supervision, monitoring and reporting of E&S requirements as per ESMS.**

- **Compliance of E&S requirements is a part of contractors' agreement**. Contractors submit the EHS Plan before team mobilization.

- Internal Audits are conducted by EHS&S Managers

- Kaizen, 5S, Quality Management System for risk control programmes and controls on OHS

Types of OHS training imparted to employees

Safety induction training	PPE use	Health & hygiene
First aid	Fire safety	PPE
Work at height	Material handling	Traffic safety
PTW and LOTO safety	Job safety analysis	COVID-19 prevention

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Key Highlights

- No work-related deaths reported

- Average days of absenteeism due to injury at workplace is reported as 0

- DIAL and GHIAL achieved the ACI Airport Health Accreditation ("AHA")

- Regular internal and external audits conducted

- Sarathi (mobile based EHS App) used for monitoring OHS-related data

- Celebrate National Safety Day/ Week every year

- Multiple safety awareness campaigns were conducted

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Key Objectives of our EHSQ Policy

At GMR, we have a group level EHSQ (Environmental, Health, Safety and Quality) Policy which governs our operations in line with corporate sustainability. The key objectives of our policy are:

- Implement and maintain an integrated EHSQ management system to achieve sustainable performance

- Adopt and sustain a Business Excellence framework for continuous improvement of business operations

- Protect the environment, conserve natural resources, minimize energy consumption, improve occupational health and safety performance, and mitigate risks by adopting optimal production processes and services, driven by environmentally friendly technologies

- Adhere to and strive to exceed all applicable legal and regulatory requirements

- Strive to continuously achieve the satisfaction of all stakeholders through contributions to social development

- Effectively communicate the EHSQ system throughout the organization; create awareness; and increase the competency of all employees through training

- Establish a specific organizational structure for the purpose of facilitating guidance, implementation, and regular review of the EHSQ management system

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DIAL became Asia Pacific's first Level 4+ and Carbon neutral airport in Asia Pacific

T3 – First IGBC LEED certified NC building – GOLD
IGBC Platinum rated existing building

First airport registered with UNFCC&C for Clean development mechanism for energy efficient measures

7.85 MW installed Solar capacity

IGIA- First airport in the World to be certified ISO 50001: 2011

Water Management: 300 plus water harvesting structures; 16.6 MLD STP

First Airport to install A-CDM

First Airport globally to use TaxiBot at commercial level

Bridge Mounted Equipment to reduce the APU usage of aircrafts

Use of Electric Buses

Multimodal Connectivity

Waste Management and Single Use Plastic Free Airport

Aircraft Tracking System & Noise Management

Training and Competency Development

Financing through Green bonds

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Rewards & Recognition | DIAL

DIAL became Asia Pacific's first Level 4+ (Transition) accredited airport and Second airport globally under ACI's Airport Carbon Accreditation program

Green Airport recognition 2021-Platinum Level, for Air Quality Management by ACI

DIAL achieved ACI ASQ Top rank among Asia pacific airports (overall & >40 MPPA category) in CY2020

Delhi Airport achieved Airport Council International (ACI) Airport Health Accreditation

DIAL achieved ASQ rating of 5.0000 for CY2020

DIAL won ACI World's 'Voice of Customer' recognition

Delhi airport voted as Best Airport in India / Central Asia for 2nd consecutive year in Skytrax ranking; ranked 7th in 60-70 mn. passenger category globally

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Climate Change Management: Bridge Mounted Equipment

Terminal Building certified for "Leadership in Energy & Environmental Design" (LEED) "silver rating" by US Green Building Council

Green Development

Area of 683 acres is developed with various plants and 2000 acres with Natural vegetation; Removing ~685 tonnes of CO_2 / annum from the environment

Green Energy

Installation of 10 MW Solar Power Plant, Meeting 10 to 15% of Airport's electricity demand. Saving of over 6500 tons of carbon emission p.a.

Carbon Neutral Airport

For 3rd consecutive year, GHIAL has been accredited with Carbon Neutral Level 3+ certification successfully by ACI

ISO Certification

Certified to the new international Environmental Management System ISO 14001:2015

Water Management: 2 STPs with capacity of 1850 KLD

Wastewater is being treated in STP at site & reused for flushing use. Sludge from STP is being used as manure. Airport is zero liquid discharge facility

Food Waste Management

Food waste is decomposed through organic waste convertor and used as a compost for planation.

Climate Change & GHG Management

Adopted electric vehicles services for ferrying passengers

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Rewards & Recognition | GHIAL

GHIAL won ACI ASQ best airport by size and region in Asia-Pacific region and 15-25 million passenger category

2021 - Gold for the Air Quality Management. GHIAL won this award 4th times in a row

GHIAL awarded Level 3+ Neutrality status under ACI's Airport Carbon Accreditation program

GHIAL achieved ASQ rating of 5.00 for CY2020

2018 – Gold for the best Solid Waste Management

2019 - Silver for the best Green Infrastructure

2020 – Platinum for the best Water Management

GHIAL won ACI World's 'Voice of Customer' recognition

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Environmental & Safety Practices | Energy Business

1 — Plants are certified for ISO 9001 : QMS, ISO 14001 : EMS, ISO 45001 & ISO 50001

2 — Implementation of "EHS Sarathi" at Energy Plants an app portal for EHS (Environment, Health & Safety) Management System.

3 — Both Plants expanded its footsteps towards sustainable ash utilization by sending by-product to cement manufacturers / Brick Manufacturing through railway rakes.

4 — GKEL planted 1400 saplings in Q 1, FY 2022, Total - 3.90 L sapling covering 357 Acres till Q 1 FY 2022.

5 — Implemented non-usage of Single-use Plastic as per government guidelines

6 — Both Projects continue with building a 5S culture at GWEL & GKEL. The Plants are certified as a 5S Zone by National Productivity Council.

7 — Various workshop under EHS as part of excellence and regular process carried out at both sites for Associate & GMR Employees.

Environmental & Safety Practices | Highways and DFCC

1 — DFCC is certified for ISO 14001

2 — Implementation of EHSQ Policy and ESMS system . Conducts regular OHS trainings, workshops and mock drills for employees

3 — RWH at toll plaza are geotagged for better maintenance and monitoring. Uses treated effluent water in cleaning the highways and other purposes

4 — DFCC has planted more than 16000 trees while highways has planted more than 100,000 trees were planted along median and avenue in FY 2020-21 itself.

5 — Scrap stored by DFCC at designated sites while C&D waste is used to fill low lying areas. Hazardous waste is disposed via authorized vendor
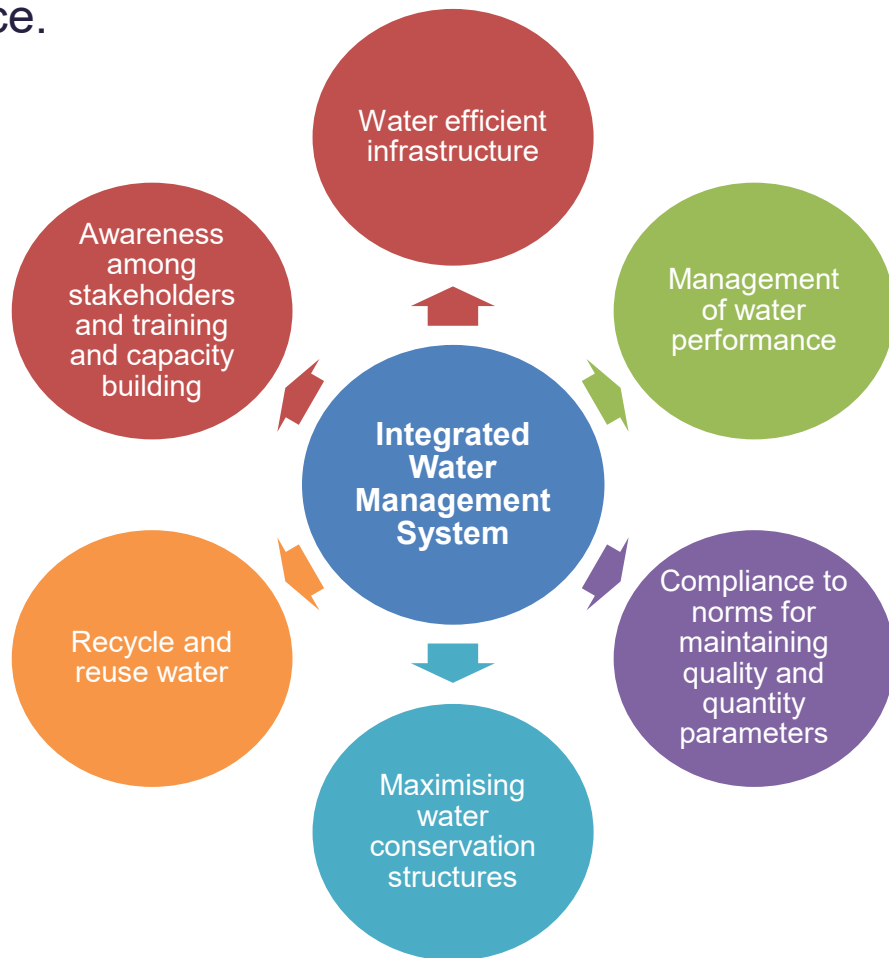
6 — LED lights and solar modules installed by highways to reduce energy consumption

7 — Various workshop under EHS as part of excellence and regular process carried out by DFCC and Highways for employees

Our approach to water sustainability is multi-pronged with continuous monitoring and evaluation mechanism in place.

- Water efficient infrastructure
- Awareness among stakeholders and training and capacity building
- **Integrated Water Management System**
- Management of water performance
- Recycle and reuse water
- Compliance to norms for maintaining quality and quantity parameters
- Maximising water conservation structures

Rainwater Harvesting Structures at toll plaza to conserve water

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Some of the key measures that we have taken to conserve and save water are:

- Rainwater harvesting
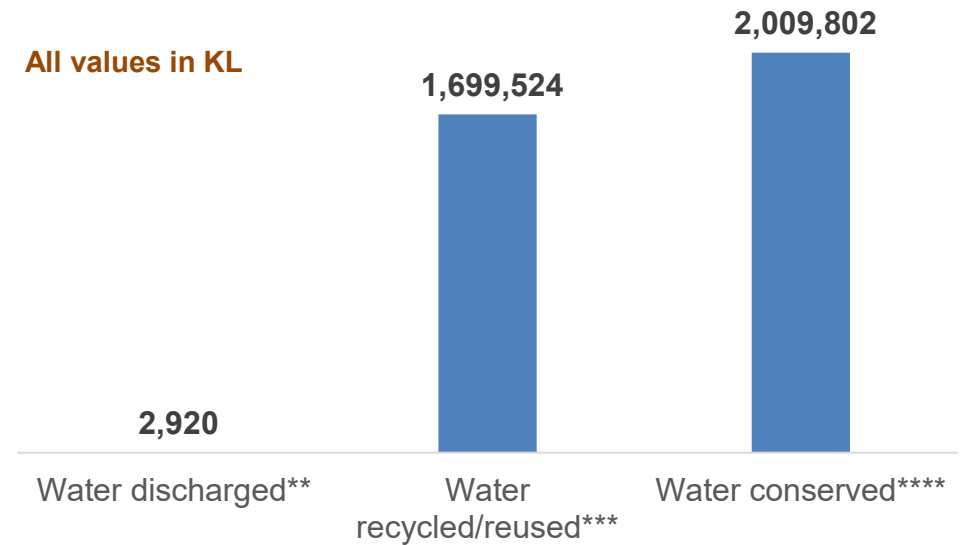- Water Treatment Plant
- Water Efficient Fixtures
- Sewge Treatment Plant
- Landscape and irrigation systems
- Water balance study to identify unbalance
- Use of technology to identify leakages in pipes

Water consumption from all areas*: 27,989,539 KL

All values in KL

2,009,802

1,699,524

2,920

Water discharged** | Water recycled/reused*** | Water conserved****

- Most of the entities are **zero waste-water discharge** and have in-house STPs to treat sewage. Only 2920 KL is discharged (from GACEPL)

- *Includes DIAL, GHIAL, GKEL, GWEL, GCORR, GACEPL, GAPEL
- ** Includes GACEPL
- *** Includes DIAL, GHIAL, GKEL, GWEL
- **** Includes GKEL, GWEL

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The airport operations have a stringent and robust process to manage Bio-medical waste. Additional care was taken this FY to dispose COVID-19 PPE waste used and discarded by staff and passengers

DIAL is single use plastic (SUP) free airport and was certified by CII- ITC CESD. Similarly, GHIAL, GWEL and GKEL has single use plastic free operations as well

DIAL has implemented paper recycling programme

DIAL has received ACI Green Airport silver level recognition in the year 2018 for waste management initiatives

DIAL has adopted CII-GBC Green Company Framework and has achieved Platinum rating for environmental excellence

GHIAL has been awarded Green Airport 2017 Gold by Airports Council International

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GWEL and GKEL transport wastes to authorized agencies of CPCB/ SPCB for treatment or disposal while batteries and e-waste are handled by authorized vendors. Fly ash is transported to cement, or brick manufactures to be used as a raw material

Railway wagons used for transport of Fly-ash in GWEL contributing to Sustainability

At GAPEL, we are only getting steel scrap materials from site.

At DFCC-EPC, the generated construction and demolition waste is used for filling lowland areas and camp surroundings. Hazardous waste generated is disposed via authorized vendor and other non-hazardous waste is disposed either via municipal services or recycled and reused

Organic farming equips to the needs of the residents of GKEL township. Mechanical food biodigester is used to convert kitchen waste to compost and used in horticulture

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Energy and Emissions

Energy	Non-RE (GJ)	RE (GJ)	Petrol (L)	Diesel(L)	Sector
Energy consumption within the organization	303714	548,489	1,375	179,905	Airport
	2,879,255	-	-	1,141,914	Energy and Highways

GHG Emissions (tCO2)		
Scope 1	**Scope 2**	**Sector**
2,623	155,27.4	Airport
3,075*	663,828**	Energy and Transportation

*Scope 1 (GKEL, GWEL); **Scope 2 (GKEL, GWEL, GCORR)

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Snapshot of Energy Efficiency Initiatives

Sector	Initiatives
Airports	Energy efficient HVAC & Chiller system
	'Green Building' Infrastructure
	Installation of solar energy plant
	UNFCCC's CDM registration for Energy Efficiency project in Terminal 3, DIAL
	Multimodal Connectivity
	Integrated Building Management System (IBMS)
	Daylight harvesting and baggage handling system.
	Efficient lighting
	Use of TaxiBot at DIAL
	VVVFD (Variable Voltage Variable Frequency Drives) in Travellators and Escalators at DIAL
	At GHIAL, terminal building is equipped with building automation system which optimizes use of AC based on ambient conditions and reduces energy consumption
Transportation	GPEL Truck lay bye Solar lights - 11 truck laybys
	GHVEPL Truck lay bye Solar lights - 7 truck laybys
Energy	Auxiliary Power Consumption reduction & reliability improvement through removal of short Column Pipe in River Water Pump
	Power Consumption Optimization through 3 Mill Operation during low load operation

Sector	Initiatives
Energy	Installation of Airtron-AC Energy Saver for energy conservation in Air Conditioner
	Water Treatment Plant Power Consumption Optimization by improving RO Recovery
	Plant Performance Improvement during Flexible load Operation
	Energy Conservation through Installation of Wind Driven Exhaust fan in RO-DM building Roof Top
	Ash Handling Plant Power Consumption reduction by Optimizing Operational Performance
	Unit-2 LVS Screen Replacement with LED Technology
	BFP Power Consumption Optimization by Replacement of Existing Valve with Modified RC Valve
	Heat Rate Improvement Through CT Fills and Nozzles Replacement
	Reduction in Diesel Consumption in CHP by adopting best operational practices
	Boiler Efficiency improvement by CAVT Test & Attending Duct Leakages
	Auxiliary Power Consumption reduction by CAVT Test & attending duct leakages
	Improvement in Yard GCV losses by 48 Kcal by adopting best operational strategies
	To provide CT make up by gravity without CT make up pump pumping
	Replacement of Existing conventional lightings with LEDs throughout the plant
	Degassifier water usage through gravity to CT forebay
	Optimization of CW/ACW Pump & CT Fan running hours

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Biodiversity and Land-Use

Mega tree plantation drive at IGIA

Green cover at GMR Hyderabad Airport

GWEL Green Belt

Greenery across highways

Sector	Sector/Entity	Tree Census
Airport	DIAL	Landscaping area covering more than 120 acres of land
	GHIAL	273 hectares of green belt area developed; 7 hectares of nurseries have been developed
Energy	GKEL	3,88,797 plants, 357 acres of land, landscaping on 33 acres of land, 20000 saplings
	GWEL	1,34,500 saplings, 173 acres land
Transportation	DFCC	10,723 trees, 5473 at another location
	GCORR	14000 plants
	GACEPL	Along the Median: 13700, Avenue: 14704
	GPEL	55,000 avenue plants and 50,000 median plants. Green cover area of 6,88,0053m2 of Avenue Plantation and 397575 m2 of median plantation

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Creating long-term social impact

GMR AA is part of GMR Airports, which operates airports in India and globally. All training is supplemented with OJT (On-Job Training) at the airports.

GMR AA is one of the eight (8) Active Regional Training Centers of Excellence (RTCE) globally recognized by ICAO, along with Incheon, Singapore, GCAS, EASA, ASCA, ENAC, and CIIASA.

GMGMR AA is the first official knowledge partner with RGNAU (MoCA) in the delivery of the Post Graduate Diploma in Airport Operations.

GMR AA provides holistic all-round training with job placement assurance and has maintained over 90% placement records.

GMR AA is poised to set up a school in Aircraft Engineering, AVR (Augmented Virtual Reality) and other advanced technologies and pedagogy applied to airports.

Key highlights

- Recognized by ICAO, ACI, IATA, DGCA and BCAS of India
- 20,994 participants were trained in FY 2019-20. 1,467 participants trained in FY 2020-21
- 35 Number of Courses
- 7 Professional Certification Courses
- 2 Aviation Awareness Programmes
- GMR Aviation Academy, Emirates Group Security sign MoU
- GMRAA and UAE-based Emirates Group Security (EGS) have joined hands to jointly offer various aviation and security courses in India, Asia and the Gulf region

Accredited by

- Airport Council International (ACI)
- International Air Transport Association (IATA)
- International Civil Aviation Organization (ICAO)
- Directorate General of Civil Aviation (DGCA)
- Bureau of Civil Aviation Security (BCAS) of India with focus on Asia Pacific, Middle East and African regions

One of its kind in India

- "Regional Training center of Excellence" (RTCE) stature of ICAO
- "Global training HUB" by the ACI
- Authorized Training Center and Accredited Training School of IATA

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Key Initiatives

- After the lockdown due to COVID-19, GBHHPL conducted health camps at remote locations. At the project site, 90% of the employees have been vaccinated.
- Environment monitoring (air, water, and noise) is being done on a quarterly basis. Water sprinkling is done to reduce pollution.
- There have been no complaints about pollution from local residents, the SPCB, or enforcement authorities.
- A head count of workers working inside the tunnel is carried out daily.
- A flood alarm is installed for the safe evacuation of man and machinery before a sudden flood.
- At site, safety tool-box talk, safety training, pre-job briefing, and site inspections are conducted on a daily basis and mock drills are conducted periodically.
- More than 2,500 tree saplings were planted at project and colony sites.
- It has an audit, a nomination and remuneration, and a CSR committee.

Key highlights

- 1 Fatality and 0 Lost Time Injuries (LTI) reported at site
- Periodic medical health check-ups conducted for employees and contractual workers
- 100% contractual employees covered under EHS awareness
- 0 fines/ penalties from enforcement agencies

- Dumping of muck in designated dumping sites
- Ventilation system installed for fresh air in the tunnel
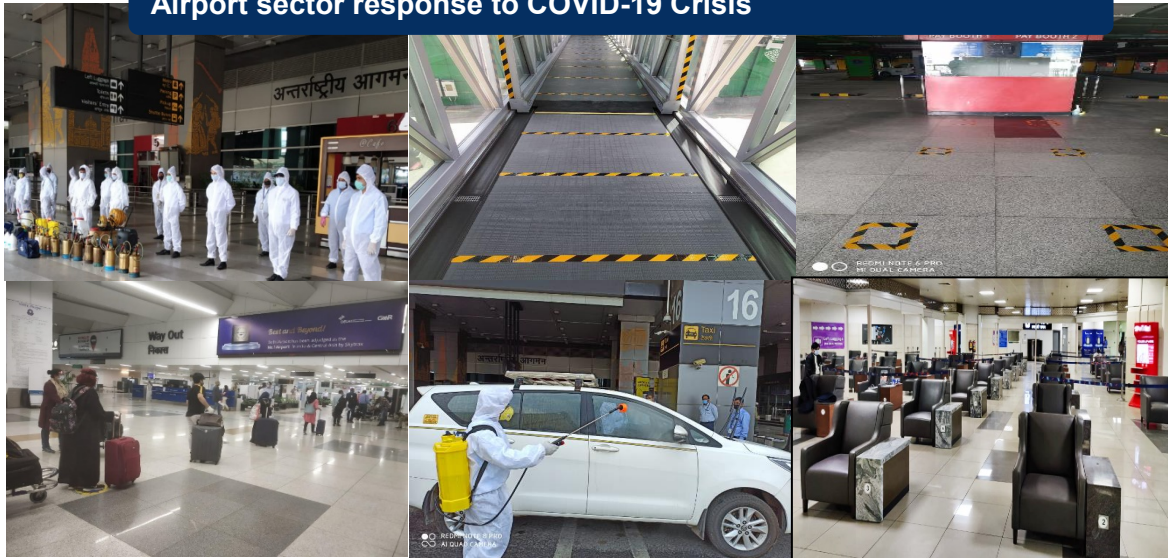- Safety induction for all workers

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Case study: GMR Group COVID-19 Management

Airport sector response to COVID-19 Crisis

Prevention and Measures

We at GMR Group took immediate steps during COVID-19 pandemic at the airport to ensure safe travel of employees, passengers and other stakeholders.

Key measure during COVID-19

Place - Re-designing the Airport	Policy - Pro-active stakeholder management	Process - Re-designing Airport processes
▪ Creation of Passenger Triage Facilities ▪ Enhanced AIQ (Airport Indoor Quality) ▪ Passenger Flow Management ▪ Implementation of plexi-glass partitions at CISF check points and airline counters for boarding card checks ▪ Covid testing Lab	• Leading the airport sector by gathering insights and pro-actively collaborating with Government stakeholders (incl Ministry of Health – a new stakeholder for airports) • Deploying solutions on behalf of the Government to support in the fight against COVID-19	▪ Forecourt process improvements (Scan & Fly, Boarding card checks) ▪ UV disinfection of passenger baggage and ATRS trays ▪ Social distance markings in terminal areas, ▪ Contactless commerce for retail and F&B ordering and payment

Disinfected Baggage carts/ trolleys	Contactless boarding card check	Contactless CUSS	Security check with e-boarding card reader	Digital tools for food court/ lounge	Social distancing in queues and seats

Intervention outcome

✓ Alleviating risk of infection and transmission
✓ Minimal to no disruption in passenger journey - *Delhi Airport rated safe by >95% of the travelers*
✓ Transition from conventional import cargo process to a digital contactless working

✓ Simplification of Int'l arrivals into the country through Air Suvidha
✓ Supported Vande Bharat for evacuation mission by GoI; handled more than 7 lac passengers- highest by any Indian airport

Case study: GMR Goa International Airport Limited (GGIAL)

Salient features

- State of the art integrated passenger terminal building with energy efficient features and building materials
- Cargo terminal and ancillary facilities for processing and storage
- 5 MW Solar Power Plant for captive use
- Sewage Water Treatment Facilities with Zero Liquid Discharge Concepts and development of rainwater harvesting structures
- Development of on-site waste management facilities
- Use of electric vehicles and use of Bridge Mounted Equipment to ensure cleaner airport operation
- Aviation facilities such as Aircraft Rescue & Fire Fighting facilities, infrastructure for Aircraft Fueling Services
- Setting up of Aviation Skill Development Centre

LTIR and LTIFR was zero for Goa Airport

Total 24 HSE audits were conducted

Zero fatalities reported in FY 2020-21

709 OHS trainings conducted in FY 2020-21

- 3.56 million safe man hours reported in the FY 2020-21
- Ventilation system installed for fresh air in the tunnel
- Safety induction for all workers

Key highlights

- The IGBC standard is being adopted for GGIAL airport and has received Platinum Rating in the pre-certification process

- Complete adherence to all applicable legal, regulatory, and statutory requirements

- Appropriate planning to maintain ambient air quality, noise levels, and dust, etc. as per regulatory requirements

- Environment parameters are monitored and measured every month and periodic inspections conducted

- Strict observance of COVID-19 protocol

- 100% compliance with mock drill plans

- National Safety Day awareness workshops are conducted

- Fire safety training is conducted with a demonstration of the safe use of fire extinguishers

- Heavy vehicle inspections was conducted

Thank you