



मंगलूर रिफाइनरी एण्ड पेट्रोकेमिकल्स लिमिटेड
MANGALORE REFINERY AND PETROCHEMICALS LIMITED

अनुसूची 'अ' के अंतर्गत भारत सरकार का उद्यम, SCHEDULE 'A' GOVT. OF INDIA ENTERPRISE.
(ऑयल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड की सहायक कंपनी, A SUBSIDIARY OF OIL AND NATURAL GAS CORPORATION LIMITED)
आई.एस.ओ. 9001, 14001 एवं 50001 प्रमाणित कंपनी, AN ISO 9001, 14001 AND 50001 CERTIFIED COMPANY.
सीआईएन/CIN : L23209KA1988GOI008959 / वेबसाइट Website : www.mrpl.co.in

August 22, 2023

The Assistant General Manager, Listing Compliance
BSE Limited

Scrip Code: 500109

Scrip Code (Debenture): 959161, 959162, 959250, 960362, 973692

The Compliance & Listing Department
National Stock Exchange of India Limited

Symbol: MRPL, Series: EQ

Debt Security: INE103A08027, INE103A08019, INE103A08035, INE103A08043, INE103A08050

Dear Sir/Madam,

Subject: Business Responsibility and Sustainability Report for the FY 2022-23

Pursuant to Regulation 34(2) of SEBI (Listing Obligations and Disclosure Requirements), Regulations 2015, please find enclosed herewith Business Responsibility and Sustainability Report of the Company. It is a part of Annual Report for the FY 2022-23 which has already been submitted to Stock Exchanges on August 02, 2023.

We request you to take the above on record.

Thanking You,

Yours faithfully,

For Mangalore Refinery and Petrochemicals Limited

K B Shyam Kumar

Company Secretary

Encl: A/a

BUSINESS RESPONSIBILITY & SUSTAINABILITY REPORT (BRSR)
SECTION A: GENERAL DISCLOSURES

I. Details of the listed entity

1	Corporate Identity Number (CIN) of the Listed Entity	L23209KA1988GOI008959
2	Name of the Listed Entity	Mangalore Refinery and Petrochemicals Limited
3	Year of incorporation	1988
4	Registered office address	Mudapadav, Kuthethoor P.O. Via Katipalla, Mangalore, Karnataka- 575030
5	Corporate address	MRPL, Kuthethoor P.O. Via Katipalla, Mangalore, Karnataka- 575030
6	E-mail	investor@mrpl.co.in
7	Telephone	0824-2270400
8	Website	www.mrpl.co.in
9	Financial year for which reporting is being done	2022-23
10	Name of the Stock Exchange(s) where shares are listed	BSE Limited and National Stock Exchange of India Limited (NSE)
11	Paid-up Capital	₹ 1752,59,87,770
12	Name and contact details	Name: Shri M.S. Sudarsan Telephone: 0824-288 3950 e-mail: sudarshanms@mrpl.co.in
13	Reporting Boundary(Are the disclosures under this report made on a standalone basis (i.e. only for the entity) or on a consolidated basis (i.e. for the entity and all the entities which form a part of its consolidated financial statements, taken together).	MRPL on standalone basis

II. Products/services

14. Details of business activities (*accounting for 90% of the turnover*):

14	Details of business activities	Description of Main Activity	Description of Business Activity	% Turnover of the Entity
		Manufacture of refined petroleum products Note: % turnover is based on the quantity	Production of LPG = 1.15 MMT	7.6
			Production of POLYPROPYLENE = 0.44 MMT	2.9
			Production of MS VI = 1.48 MMT	9.7
			Production of MS 95 RON (Non BS VI SPEC) = 0.95 MMT	6.2
			Production of NAPHTHA = 0.05 MMT	0.4
			Production of SKO = 0.04 MMT	0.3
			Production of HSD = 4.71 MMT	30.9
			Production of HFHSD = 1.87 MMT	12.3
			Production of ATF = 1.92 MMT	12.6
			Production of MFO = 0.43 MMT	2.8
			Production of BITUMEN = 0.17 MMT	1.1
			Production of PET COKE = 1.00 MMT	6.6
			Production of SULPHUR = 0.24 MMT	1.6
			Production of BENZENE = 0.09 MMT	0.6
			Production of REFORMATE = 0.68 MMT	4.5

15. Products/Services sold by the entity (*accounting for 90% of the entity's Turnover*):

S. No.	Product/Service	NIC Code	% of Total Turnover contributed
1	LPG	192	7.5
2	POLYPROPYLENE	192	2.8
3	MS VI	192	9.6
4	MS 95 RON (Non BS VI SPEC)	192	6.2
5	NAPHTHA	192	0.4
6	SKO	192	0.3
7	HSD	192	30.9
8	HFHSD	192	12.4
9	ATF	192	12.5
10	MFO	192	3.2
11	BITUMEN	192	1.1
12	PET COKE	192	6.6
13	SULPHUR	192	1.6
14	BENZENE	192	0.6
15	REFORMATE	192	4.4

Note: % turnover is based on the quantity.

III. Operations

16. Number of locations where plants and/or operations/offices of the entity are situated:

Location	Number of plants	Number of offices	Total
National	The details of locations of the Company are mentioned at para 16(xi) of the Corporate Governance report		
International			

Apart from above, MRPL is having depots at Hassan, Kasargod, Hindupur, Hosur

 17. Markets served by the entity:

a. Number of locations

Locations	Number
National (No. of States)	Karnataka, Kerala, Maharashtra, Daman and Diu, Gujarat, Madhya Pradesh, Delhi, Tamil Nadu, Pondicherry, Andhra Pradesh, Telangana, West Bengal, Rajasthan, Odisha, Bihar, Jharkhand, Haryana No of states: 14 No of union territories: 3
International (No. of Countries)	24

b. What is the contribution of exports as a percentage of the total turnover of the entity?

MRPL Exports 36.78% of the total sales of the entity

c. A brief on types of customers

Business-to-Consumer through Company Owned Company Operated Retail Outlets, Business-to-Business through other Industrial / Bulk sales.

IV. Employees

18. Details as at the end of Financial Year:

a. Employees and workers (including differently abled):

Breakdown of Employees per Employee Category according to Gender as on 31.03.2023			
Employee Category	Total Strength as on 31.03.2023	Gender	
		Female	Male
Executives	1107	62	1045
Non-Executives	1443	164	1279
Grand Total	2550	226	2324

b. Differently abled Employees and workers: 42

19. Participation/Inclusion/Representation of women

	Total (A)	No. and percentage of Females	
		No. (B)	% (B / A)
Board of Directors	11	2	18.18%
Key Management Personnel	3	0	0

20. Turnover rate for permanent employees and workers

(Disclose trends for the past 3 years)

Turnover Rate for Permanent Employees and Workers	FY 2022-23	FY 2021-22	FY 2020-21
Turnover Rate	2.45%	2.40%	3.95%
Attrition Rate	2.45%	2.40%	3.95%

V. Holding, Subsidiary and Associate Companies (including joint ventures)

21. (a) Names of holding / subsidiary / associate companies / joint ventures

S.No.	Name of the holding/subsidiary/ associate companies / joint ventures (A)	Indicate whether holding/ Subsidiary/ Associate / Joint Venture
1	Oil and Natural Gas Corporation Limited	Holding Company
2	Shell MRPL Aviation Fuels and Services Limited	Joint Venture

VI. CSR Details

22. (i) Whether CSR is applicable as per section 135 of Companies Act, 2013: **(Yes/No) Yes**

(ii) Turnover (in ₹): 1,24,685.59 Cr.

(iii) Net worth (in ₹): 9,834.65 Cr.

VII. Transparency and Disclosures Compliances

23. Complaints/Grievances on any of the principles (Principles 1 to 9) under the National Guidelines on Responsible Business Conduct:

Stakeholder group from whom complaint is received	Grievance Redressal Mechanism in Place (Yes/No)	FY 2022-23			FY 2021-22		
		Number of complaints filed during the year	Number of complaints pending resolution at close of the year	Remarks	Number of complaints filed during the year	Number of complaints pending resolution at close of the year	Remarks
Communities	https://grievance.MRPL.co.in	23	0		22	2	
Investors (other than shareholders)	https://MRPLIndia.com/web/eng/investors/investor-contact	Nil	Nil		Nil	Nil	
Shareholders	https://MRPLIndia.com/web/eng/investors/investor-contact	61	2	Resolved after March 31, 2023	48	0	
Employees and workers	https://grievance.MRPL.co.in	0	-		0	-	
Customers		47	1		14	3	
Value Chain Partners	https://grievance.MRPL.co.in	3	0		1	0	
Other (please specify)	https://grievance.MRPL.co.in						

24. Overview of the entity's material responsible business conduct issues

Please indicate material responsible business conduct and sustainability issues pertaining to environmental and social matters that present a risk or an opportunity to your business, rationale for identifying the same, approach to adapt or mitigate the risk along-with its financial implications, as per the following format



S. No.	Material issue identified	Indicate whether risk or opportunity (R/O)	Rationale for identifying the risk / opportunity	In case of risk, approach to adapt or mitigate	Financial implications of the risk or opportunity (Indicate positive or negative implications)
1	Air Quality	Risk	<p>Rationale for identifying it as risk:</p> <ol style="list-style-type: none"> 1) Health Impact- Polluted air will impact health. 2) Environmental Impact: Polluted air will affect environment. 3) Climate Change: Air quality and climate change are interconnected. Many air pollutants, such as carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O), are greenhouse gases that trap heat in the atmosphere, leading to global warming and climate change. 	<ol style="list-style-type: none"> 1. Adopt latest available pollution control technologies 2. Adopt good environment management systems, and prioritize compliance with air quality regulations 	<p>Negative</p> <p>Financial Implications: Poor air quality has significant economic consequences. It can lead to increased healthcare costs due to the treatment of air pollution-related illnesses. Oil refineries are subject to stringent environmental regulations that govern air emissions. Meeting these regulatory requirements often involves installing and maintaining expensive pollution control equipment such as scrubbers, catalytic converters, and monitoring systems. Compliance costs include capital investments, operational expenses, and regular maintenance to ensure compliance with air quality standards. Failure to meet regulatory standards can result in fines, penalties, or even closure of the facility, leading to substantial financial losses.</p>
2	Water Management	Water Scarcity Risk	<p>Water scarcity is a significant concern for refineries, as they require substantial amounts of water for their operations. With increasing water stress in Mangalore during</p>	<p>To adapt or mitigate the risk of water scarcity, the refinery implement various measures, such as: Implementing water conservation and efficiency measures to</p>	<p>Negative</p> <p>Financial implications: Water scarcity can lead to unwanted shutdowns and increased costs for water acquisition or treatment, disruptions in operations,</p>

			<p>summers or due to increased domestic demand, refineries face the risk of water scarcity. This can lead to operational disruptions, regulatory challenges, and reputational damage. Identifying water scarcity as a risk helps the refinery proactively address the issue and develop strategies to mitigate its impact.</p>	<p>minimize water consumption during refining processes. Investing in water recycling and reuse technologies to reduce freshwater intake and decrease reliance on external water sources. Conducting regular water risk assessments to identify vulnerable areas and develop contingency plans. Developing alternative water supply sources like desalination facilities, domestic sewage treated water. In order to conserve river water for domestic and general public purpose and to reduce fresh water intake for industrial usage, MRPL has set up a Desalination plant at Thanirbhavi site, Mangalore to meet the present demand of 30 MLD (6.6MGD). Final product water, is likely to be expanded up to 70 MLD or 15.4 MGD in future. Utilization of Mangalore City Sewage treated water in refinery, which resulted in reduction of fresh water consumption. At present about 3-4 MGD being used.</p>	<p>and reputational damage. These can result in financial losses for the refinery.</p>
3.	Crisis and Risk Management	Risk	<p>Company has maintained risk register in line with SEBI LODR Guidelines identified under Critical,</p>	<p>The approach includes measures to reduce the impact or likelihood of risk.</p>	<p>Negative financial implications are expected in the event of risk playing out.</p>



			Significant, Moderate and Low risks. Expert services are engaged periodically. Risk owners undertake mitigation measures which are reported to Board/committee for any further directions.		
4.	Emission & Emission management	Opportunity	The Company has implemented top technologies for energy benchmarking across sites. MRPL's Energy Roadmap 2030 addresses climate change and the Nation's Net Zero Agenda. The strategy aims to consolidate its refining business, expand in the oil and gas value chain, diversify into renewables, petrochemicals and explore new avenues.		Positive
5.	Data Privacy and Information Security	Risk	<ol style="list-style-type: none"> 1. Hacking, 2. Phishing, 3. Ransomware and Data encryption, 4. Data leak, 5. Impersonation, 6. Unauthorized access, 7. Damage to organization reputation etc. 	<ol style="list-style-type: none"> 1. Use of Firewalls and antivirus software. 2. Complied with the requirements of Information Security Management System and certified for ISO 27001 certification. 3. Conducting regular VA/PT on the systems and application. 4. Control on removable / roaming devices. Implementation of EDR. 	<p>Negative</p> <ol style="list-style-type: none"> 1. Business disruption and downtime 2. Reputational Damage 3. Ransom demand for data decryption.

				<ol style="list-style-type: none"> 5. Revoking administrative rights of end-points. 6. Implementation of access control to applications with role-based, least privilege specific etc. 7. Periodic system / application audit. 8. S y s t e m s upgradation and regular O/S patching. 9. Training and awareness to end-users. 10. C o n t i n u o u s monitoring with Security Information and Event Management (SIEM). 11. Segmentation of LAN. Network Access Control for Wired/Wireless devices. 12. Implement multi-factor authentication and strong password policy. 13. Backup and off-site Disaster recovery plans. 14. B u s i n e s s Continuity Plan and incident Response Plan. 	
6.	Responsible supply chain	Risk	It is critical for MRPL to have a sustainable supply chain in order to truly meet its sustainability goals.	MRPL is dedicated to ensuring that all of its vendors and suppliers work in a healthy and safe environment while maintaining the highest level of service quality. Throughout its supply	Negative

				chain, the Company has implemented a methodical approach to ensure compliance with applicable labour practice requirements, including child labour and human rights issues. All the service contract agreements between MRPL and its suppliers include provisions for compliance with appropriate legal and HSE standards, which are ensured throughout the execution. MRPL urges its suppliers to manage their environmental impact through appropriate policies, methods, and procedure	
7.	Community Engagement	Opportunity	The company has been implementing CSR projects in Dakshina Kannada & other parts, within Karnataka state, through a dedicated team which is focused on assessing the needs of the community around its operational and non-operational areas.	NA	Positive
8.	Climate change	Risk	Regulatory and market changes: Efforts to mitigate climate change, such as carbon pricing and emissions regulations, can increase costs for MRPL Extreme weather events: shifts in precipitation patterns	Enhance energy efficiency and emission reductions: MRPL is focusing on energy efficiency measures and optimizing the process, investing in co-generation.	Negative

			<p>and water availability may affect the refining process.</p> <p>Heatwaves and temperature extremes: Refineries require large amounts of cooling water for their processes, and higher temperatures can reduce the efficiency of cooling systems.</p> <p>Sea-level rise and coastal flooding: MRPL is located in coastal area. Rising sea levels increase the risk of coastal flooding, which can damage infrastructure, equipment, and storage facilities</p>	<p>Renewable energy integration: MRPL is having own solar plant and also importing solar power for energy requirements.</p>	
9.	Biodiversity and Ecosystem Conservation	Opportunity	<p>As governments increasingly recognize the importance of biodiversity and ecosystem conservation, more legislation is expected to be in place for its conservation. It is necessary in all cases to anticipate and respond to regulation in a timely manner.</p> <p>Supporting the global response to the threat of climate change.</p> <p>Image building</p>	NA	Negative
10.	Workforce Competence and Engagement	Risk	<p>Incompetence and disengaged workforce would affect productivity</p>	<p>Focused skill development and training program are conducted. Welfare measure are timely revised for engaging the employees</p>	Positive

SECTION B: MANAGEMENT AND PROCESS DISCLOSURES

This section is aimed at helping businesses demonstrate the structures, policies and processes put in place towards adopting the NGRBC Principles and Core Elements.

Disclosure Questions	P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9
Policy and management processes									
1. a. Whether your entity’s policy/policies cover each principle and its core elements of the NGRBCs. (Yes/No)	Y	Y	Y	Y	Y	Y	-	Y	Y
b. Has the policy been approved by the Board? (Yes/No)	Y	Y	N	Y	Y	N	-	Y	Y
c. Web Link of the Policies, if available	Y	Y	Y	Y	Y, The link is available for all employees	Y	-	Y	Y
2. Whether the entity has translated the policy into procedures. (Yes / No)	Y	Y	Y	Y	Y	Y	-	Y	Y
3. Do the enlisted policies extend to your value chain partners? (Yes/No)	Y	Y	Y	Y	N, The policies are only for Employees	Y	-	N	Y
4. Name of the national and international codes/certifications/ labels/ standards (e.g. Forest Stewardship Council, Fairtrade, Rainforest Alliance, Trustea) standards (e.g. SA 8000, OHSAS, ISO, BIS) adopted by your entity and mapped to each principle.	MRPL certified with ISO 9001: 2015, ISO 14001: 2018 and ISO 45001: 2018, ISO 50001:2018, ISO 17025, ISO 27001								
5. Specific commitments, goals and targets set by the entity with defined timelines, if any.	Mechanical Completion Target <ul style="list-style-type: none"> ♦ Devangonhi Marketing Terminal-Oct-23 ♦ PFCCU Regenerator Stack Wet Scrubber System-Sept-23 ♦ CCR-1 Revamp-May-23 ♦ PFCCU LPG + Propylene Amine Scrubber-Sept-23 ♦ Bitumen Blowing Unit - Additional Train-Dec-23 ♦ Modified Tube Bundles for DHD T CFE-Sept-23 ♦ Second Generation (2G) Ethanol Project, Davanagere- FY 2025-26(Subject to Board approval) ♦ Bio ATF Demo Plant-Oct-2025 ♦ Grid Power up gradation – 72 MW – FY 2025-26 (subject to MESCOM approval) ♦ MRPL intends to be an integrated refinery with increase in petrochemical intensity. The present petrochemical intensity is about 10%. It is expected to take this to about 13% in 3 years. 								

6. Performance of the entity against the specific commitments, goals and targets along-with reasons in case the same are not met.	The Company is making all efforts to increase presence in the petrochemical industry.
Governance, leadership, and oversight	
7. Statement by director responsible for the business responsibility report, highlighting ESG related challenges, targets and achievements	Health, Safety and Environment (HSE) is fundamental to the conduct of our business and MRPL attaches highest priority to occupational health, safety and protection of environment in and around its operational areas.
8. Details of the highest authority responsible for implementation and oversight of the Business Responsibility policy (ies).	Shri M. Venkatesh Managing Director & CEO (DIN:07025342)
9. Does the entity have a specified Committee of the Board/ Director responsible for decision making on sustainability related issues? (Yes / No). If yes, provide details.	Yes. The same is overseen by Corporate Social Responsibility (CSR) and Sustainability Development (SD) Committee and Stakeholders Relationship Committee.

10. Details of Review of NGRBCs by the Company:

Subject for Review	Indicate whether review was undertaken by Director / Committee of the Board/Any other Committee									Frequency(Annually/ Half yearly/ Quarterly/ Any other – please specify)								
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P1	P2	P3	P4	P5	P6	P7	P8	P9
Performance against above policies and follow up action	Y	Y	Y	Y	Y	Y	-	Y	Y	Ne ed ba se d	Ne ed ba se d	HY	Ne ed ba se d	Ne ed ba se d	HY	-	Q	Ne ed ba se d
Compliance with statutory requirements of relevance to the principles, and, rectification of any non-compliances	Y	No	Y	Y	Y	Y	-	Y	Y	Ne ed ba se d	Ne ed ba se d	Q	Ne ed ba se d	Q	Q	-	Q	Ne ed ba se d
11. Has the entity carried out independent assessment/ evaluation of the working of its policies by an external agency? (Yes/No). If yes, provide name of the agency.										P1	P2	P3	P4	P5	P6	P7	P8	P9
										Assessment not being conducted by MRPL. All policies are as per the industrial practices and in compliance with government guidelines								

Note:

HY- Half Yearly

Q- Quarterly

12. If answer to question (1) above is “No” i.e. not all Principles are covered by a policy, reasons to be stated:

Not applicable

SECTION C: PRINCIPLE WISE PERFORMANCE DISCLOSURE

This section is aimed at helping entities demonstrate their performance in integrating the Principles and Core Elements with key processes and decisions. The information sought is categorized as “Essential” and “Leadership”. While the essential indicators are expected to be disclosed by every entity that is mandated to file this report, the leadership indicators may be voluntarily disclosed by entities which aspire to progress to a higher level in their quest to be socially, environmentally and ethically responsible.

PRINCIPLE 1 Businesses should conduct and govern themselves with integrity, and in a manner that is Ethical, Transparent and Accountable.

Essential indicators

- Percentage coverage by training and awareness programs on any of the principles during the financial year: 9%

Segment	Total number of employees	Topics/principles covered under the training and its impact	% age of persons in respective category covered by the awareness programmes
Employee	227	Toward Ethical Work Culture	9%

- Details of fines / penalties /punishment/ award/ compounding fees/ settlement amount paid in proceedings (by the entity or by directors / KMPs) with regulators/ law enforcement agencies/ judicial institutions, in the financial year, in the following format (Note: the entity shall make disclosures based on materiality as specified in Regulation 30 of SEBI (Listing Obligations and Disclosure Obligations) Regulations, 2015 and as disclosed on the entity’s website):

No Fines/ penalty/Punishment was paid to Court/Judicial Institution in 2022- 23.

- Of the instances disclosed in Question 2 above, details of the Appeal/ Revision preferred in cases where monetary or non-monetary action has been appealed.

Not applicable

- Does the entity have an anti-corruption or anti-bribery policy? If yes, provide details in brief and if available, provide a web-link to the policy.

MRPL has Vigilance Department which independently functions under a Chief Vigilance Officer under the Central Vigilance Commission. The Discipline & Appeal Section functions under HR Department for ensuring compliance to Conduct Rules of the Company. Apart from the above, the Internal Audit and Representatives of CAG also functions as a watchdog for ensuring compliance to regulations, rules and procedures.

MRPL has a “MRPL Whistle Blower Policy” link for which is available at: <https://mrpl.co.in/sites/default/files/Whistle%20Blower%20Policy%20-English.pdf>

- Number of Directors/KMPs/employees/workers against whom disciplinary action was taken by any law enforcement agency for the charges of bribery/ corruption:

Category	FY 2022-23	FY 2021-22
Directors	Nil	Nil
KMPs	Nil	Nil
Employees	Nil	01 (FIR Registered on 11.09.2019 and Final Report filed on 05.08.2021by CBI, but later discharged by the special CBI Court).
Workers	Nil	Nil

6. Details of complaints regarding conflict of interest:

	FY 2022-23		FY 2021-22	
	Number	Remark	Number	Remark
Number of complaints received in relation to issues of Conflict of Interest of the directors	Nil	Nil	Nil	Nil
Number of complaints received in relation to issues of Conflict of Interest of the KMPs	Nil	Nil	Nil	Nil

7. Provide details of any corrective action taken or underway on issues related to fines / penalties / action taken by regulators/ law enforcement agencies/ judicial institutions, on cases of corruption and conflicts of interest.

Not applicable

Leadership Indicators

1. Awareness programs conducted for value chain partners on any of the principles during the financial year:

Total no of awareness programs held	Topics/principles covered under the training	% of value chain partners covered (by value of business done with such partners) under the awareness program
8	Dealer Training Programs / Dealer / DCA Meets	All extant dealers / DCAs participated
3	1. Vendor meet program (04 Nov 2022)	400 Vendor participated
	2. Special Vendor meet program for SC/ST -MSE Vendors and Women Entrepreneurs (on 2nd March 2023)	90 Vendor participated
	3. Vendor Development program (Exhibition for MSE Vendors) on 7th and 8th March 2023	

2. Does the entity have processes in place to avoid/ manage conflict of interests involving members of the Board? (Yes/No) If Yes, provide details of the same.

Yes. The Company has a Code of Conduct in place for the Board of Directors and Senior Management, which inter-alia includes to make prudent judgement to avoid all situations, decision or relationship in case of conflict of interest. Further, Directors also submit their declaration(s) providing details of relatives/ related parties as per requirements of the Companies Act, 2013 and related party transactions (including with relatives of Directors, if any) are reviewed by the Audit Committee.

PRINCIPLE 2 Businesses should provide goods and services in a manner that is sustainable and safe

- Percentage of R&D and capital expenditure (capex) investments in specific technologies to improve the environmental and social impacts of product and processes to total R&D and capex investments made by the entity, respectively.

	FY 2022-23	FY 2021-22	Details of improvements in environmental and social impacts
R&D	0	0	NA
CAPEX	6.83%	69.4%	Fresh water consumption reduction, product SOx emission reduction.

- Does the entity have procedures in place for sustainable sourcing? (Yes/No)

Yes. MRPL has a detailed procedure for sustainable sourcing, by way of a well-documented Material Management (MM) Manual. Basis the procedure defined therein the MM Manual, sourcing of the goods/services for operations and maintenance of the plant, in a steady, continuous, and sustainable manner are being done, for ensuring uninterrupted plant operations. MRPL has policies of long-term contracts and rate contracts to ensure continuous operations of the plant, so that plant would not suffer due to external uncertainties.

- If yes, what percentage of inputs were sourced sustainably?

With proper systems & procedures in place, 100% of the inputs are being sourced sustainably.

- Describe the processes in place to safely reclaim your products for reusing, recycling, and disposing at the end of life, for (a) Plastics (including packaging) (b) E-waste (c) Hazardous waste and (d) other waste.

a) Plastic: Disposed to the recyclers

b) E-waste: Disposed to recyclers

c) Hazardous waste: For the purpose of recovery of resource, oily sludge generated in Effluent Treatment Plants (ETP) is thickened & centrifuged, producing sludge containing only 3-5% oil, which is stored in HDPE lined impervious sludge pits. This oily sludge is either reprocessed in our Delayed Coker Unit (DCU) where it gets converted to valuable products or sent for Co-processing in SPCB Authorized Cement Industry. Co-processing leaves no residue as the incombustible, inorganic content of the waste materials are incorporated in the clinker matrix. Therefore, after the waste is co-processed, it becomes a part of the product. During 2022-23, about 4588.1 MT of oily sludge is reprocessed in DCU while 1273.01 MT are Co-processed through SPCB authorized Cement industries. During 2022-23, around 367.65 MT of Spent Catalyst containing oxides of transition metals like Platinum, Cobalt, Molybdenum, Nickel, alumina, etc. is disposed to SPCB authorized recyclers.

- Whether Extended Producer Responsibility (EPR) is applicable to the entity's activities (Yes / No). If yes, whether the waste collection plan is in line with the Extended Producer Responsibility (EPR) plan submitted to Pollution Control Boards? If not, provide steps taken to address the same.

Yes, the waste collection plan is in line with the Extended Producer Plan (EPR) submitted to Central Pollution Control Board. MRPL has registered on Central Pollution Control Board, as a Brand Owner and planned its actions for the fulfillment of obligations, for disposal of Multilayered Plastic (MLP) & other plastic waste generated as per the EPR Action Plan.

Leadership Indicators

1. Has the entity conducted Life Cycle Perspective / Assessments (LCA) for any of its products (for manufacturing industry) or for its services (for service industry)? If yes, provide details in the following format?

No.

2. If there are any significant social or environmental concerns and/or risks arising from production or disposal of your products / services, as identified in the Life Cycle Perspective / Assessments (LCA) or through any other means, briefly describe the same along-with action taken to mitigate the same.

Not applicable

3. Percentage of recycled or reused input material to total material (by value) used in production (for manufacturing industry) or providing services (for service industry).

Input material	Recycled/ re-used input material to total material
	FY 2022-23
Slop	Total Slop Processed in FY 2022-23 is = 147663 MT Total Gross Crude Processed in FY 22-23 = 1,71,16,276 MT % of Slop (Recycled or Reused material) in Production = $147663/17116276 * 100 = 0.863\%$

4. Of the products and packaging reclaimed at end of life of products, amount (in metric tonnes) reused, recycled, and safely disposed, as per the following format:

	FY 2022-23			FY 2021-22		
	Re-Used	Recycled	Safely Disposed	Re-Used	Recycled	Safely Disposed
Plastics (including packaging) (MT)	103.36	1304		58.70		
E-waste (MT)		1			6.89	
Hazardous waste (MT)	4607	744.8	3351.7	2566.8	1007.15	1456.8
Other Waste (MT)		3064.7	308.42		4044.623	

5. Reclaimed products and their packaging materials (as percentage of products sold) for each product category.

Indicate product category	Reclaimed products and their packaging materials as % of total products sold in respective category
Nil	Nil

PRINCIPLE 3: Businesses should respect and promote the well-being of all employees, including those in their value chains

Essential Indicators

1. a. Details of measures of wellbeing of employees

Category	% of employees covered by										
	Total (A)	Health insurance		Accident insurance		Maternity benefits		Paternity Benefits		Day Care facilities	
		Number (B)	% (B / A)	Number (C)	% (C / A)	Number (D)	% (D / A)	Number (E)	% (E / A)	Number (F)	% (F / A)
Permanent Employees											
Group A	1107	1107	100%	1107	100%	2	0.18	39	3.52	0	
Group C	1416	1416	100%	1416	100%	25	1.76	132	9.32	0	
Group D	27	27	100%	27	100%	0	0	0	0	0	

- b. Details of measures for the well-being of workers:

Yoga Day

MRPL Recreation Club

2. Details of retirement benefits, for Current FY and Previous Financial Year

Benefits	FY 2022-23		FY 2021-22	
	No. of employees covered as a % of total employees	Deducted and deposited with the authority (Y/N/N.A.)	No. of employees covered as a % of total employees	Deducted and deposited with the authority (Y/N/N.A.)
PF	100 %	Y	100%	Y
Gratuity	98%*	N.A	92%	N.A
ESI	N.A	N.A	N.A	N.A
SABF_MDCPS	98%*	Y	92%	Y

* Not applicable for trainees.

3. Accessibility of workplaces: Are the premises / offices of the entity accessible to differently abled employees and workers, as per the requirements of the Rights of Persons with Disabilities Act, 2016? If not, whether any steps are being taken by the entity in this regard.:

Yes

4. Does the entity have an equal opportunity policy as per the Rights of Persons with Disabilities Act, 2016? If so, provide a web-link to the policy.

Yes

5. Return to work and Retention rates of permanent employees and workers that took parental leave.

Total Number of people who took parental leave in FY 2022-23	Total Number of people who returned after availing parental leave
198	186

6. Is there a mechanism available to receive and redress grievances for the following categories of employees and worker? If yes, give details of the mechanism in brief.

S I. No.	Category	Grievances Received	Grievances Pending	Grievances Closed
1	Management	Nil	Nil	Nil
2	Non-management	Nil	Nil	Nil

7. Membership of employees and worker in association(s) or Unions recognized by the listed entity:

MRPL Management Staff Association (MSA) - 917 (Management Employees)

MRPL Employees Union (MEU) - 973 (Non-Management Employees)

8. Details of training given to employees and workers:

Category	FY 2022-23				
	Total (A)	On Health and safety measures		On Skill upgradation	
		No. (B)	% (B / A)	No. (C)	% (C / A)
Executive					
Permanent	1107	215	19.42	468	42.27
Non-Executive					
Permanent	1443	983	68.12	269	18.64

NOTE: No. of employees and no. of training program imparted may not be matching as employees undergo different type of training programmes as per requirements during the same year.

9. Details of performance and career development reviews of employees and worker:

The Performance reviews of the employees are carried out on annual basis. As per the DPE guidelines 5 point rating scale is being used for performance rating. The each employees performance are reviewed at three levels i.e. Reporting Authority, Reviewing Authority and Accepting Authority

10. Health and safety management system:

- a. Whether an occupational health and safety management system has been implemented by the entity? (Yes/ No). If yes, the coverage of such system?

Yes, Occupational health and safety management has been implemented. Covers refinery complex, aromatic complex and marketing office-Bangalore. MRPL is certified with ISO 45001:2018 Occupational Health and Safety Management System. It is integrated with other management system like ISO 9001:2015, ISO 45001:2015 and ISO 50001:2018.



- b. What are the processes used to identify work-related hazards and assess risks on a routine and non-routine basis by the entity?

Job Safety Analysis involving all the stakeholders are done for all major routine and non – routine activities to identify the work-related hazards and assess risks. Counter mitigation measures are taken on the basis of the risks assessed.

Also, MRPL is having well established Permit to Work System for Hot Work/Vehicle Entry, Cold Work, Height Work, Excavation Clearance, Radiography Permit, Electrical Permit, Vessel Entry. PTW system enables the stakeholders to assess the risk and take counter mitigation measures to reduce the risk level.

In order to identify health related hazards, Industrial Hygiene survey and Annual Medical Examination for Employees and Secondary workforce are conducted. Urine phenol test for employees exposed to benzene are checked twice in a year. Employees exposed to noise are subjected to audiometry for any hearing loss. There are Special test done for DCU employees. Eye examination for Fork lifts operator, Fire and safety drivers are conducted.

- c. Whether you have processes for workers to report the work related hazards and to remove themselves from such risks. (Y/N)

Yes, Safety Suggestion Boxes are placed at strategic locations where workers can report the hazards existing in their work area.

- d. Do the employees/ worker of the entity have access to non-occupational medical and healthcare services? (Yes/ No):

Yes

11. Details of safety related incidents, in the following format:

Safety Incident/ Number	FY 2022-23	FY 2021-22
Lost Time Injury Frequency Rate (LTIFR) (per one million-person hours worked)	NIL	NIL
Total recordable work-related injuries	NIL	NIL
No. of Fatal Accidents	NIL	NIL

12. Describe the measures taken by the entity to ensure a safe and healthy work place.

Plant is designed with safety systems which are compliant to various Statutes as well as International standards prevalent in the industry like OISD, OSHAS, PESO. Risk analysis is carried out periodically in line with Manufacture, Storage and Import of Hazardous Chemical (MSIHC) rules HAZOP studies being carried out for all the modifications. Regular monitoring of OHS performance of contractors, vendors, transporters and other stakeholders. Imparting regular training to regular and contractor employees, Conducting safety awareness campaigns for general public and employees, ensuring proper housekeeping at workplace,

Displaying of warning signs and labels, well regulated road traffic etc., Updated SOPs including safety/ security system/ safe operating procedures, Onsite emergency plan, Operating manuals, dossiers, safety manual, fire manual, MSDS etc., are in place.

All equipment and pipelines are periodically tested and maintained as per procedure. Toxic/hydrocarbon detectors are placed at strategic locations and checked periodically. Fire prevention and protection system is

in place. High volume long range water cum foam monitors and Rim seal fire protection system for floating roof storage tanks are in place. Identification of areas in the refinery periphery that are vulnerable to fire. Internal & External Safety Audits are conducted at regular interval and its recommendations are complied. Strict classification of areas for electrical installations at hydrocarbon processing and handling facilities as zone-0,1,2.

Onsite and offsite mock exercises are conducted to check the preparedness for emergency mitigation Safety awareness amongst the employees/ contractor/ stakeholder/ customers through various training & contact session. Toolbox talks are conducted on daily basis for on-roll employees and for contractual workmen prior to deployment. 3 dedicated fire stations with 8 people appointed at each locations and operational round the clock. In accordance with OISD 105 standard, work permit system/ job safety analysis conducted prior to gate entry basis identification of potential hazards. Central Safety Committee (CSC) under the chairmanship of ED (Refinery) meets on monthly basis. Further, the Area Safety Committee (ASCs chaired by Unit Head) are constituted across each of the 15 demarcated zones in the refinery and meet monthly, with participation of contractors and contractual workers.

Annual medical checkup is done for employees once in a year. Urine phenol test for employees exposed to benzene are checked twice in a year. Employees exposed to noise are subjected to audiometry for any hearing loss. Four Ambulances stationed in three Occupational Health Center's (OHC) and one hospital situated in various locations with 24 X 7 driver and medical staffs including doctors, emergency technicians and nurses. OHC and Hospital is equipped with lifesaving equipment's such as Defibrillator, Ventilator, Multipara Monitor, Automated External Defibrillators (AED) etc.

13. Number of Complaints on the following made by employees and workers:

	FY 2022-23			FY 2021-22		
	Filed during the year	Pending resolution at the end of year	Remarks	Filed during the year	Pending resolution at the end of year	Remarks
Working Conditions	0	0		0	0	
Health & Safety	0	0		1	0	

14. Assessments for the year:

	% of your plants and offices that were assessed (by entity or statutory authorities or third parties)
Health and safety practices Working Conditions	100 % of our plant area and offices were assessed during External Safety Audit by M/s British Safety Council during November, 21 st to 26 th , 2022.

15. Provide details of any corrective action taken or underway to address safety-related incidents (if any) and on significant risks / concerns arising from assessments of health & safety practices and working conditions.

All safety-related accidents are being investigated and learnings from investigation reports are shared across organisations for of health and safety practices and working conditions of value chain partners. Deployment



of corrective actions to stop recurrence of such incidents. Effectiveness of Corrective actions deployment being Significant risks/concerns if any related to health & safety practices and working conditions are evaluated during the assessment and checked during safety Audits. Significant risks/concerns arising from assessment of Health and Safety Practices are addressed through hierarchy of risk controls. Value Chain Partners comply with the HSE standards in accordance with MRPL’s requirement as stipulated in the contractual agreement.

Leadership indicators

1. Does the entity extend any life insurance or any compensatory package in the event of death of
 - (A) Employees (Y/N): Yes
 - (B) Workers (Y/N): Yes
2. Provide the measures undertaken by the entity to ensure that statutory dues have been deducted and deposited by the value chain partners.

For statutory dues pertaining to secondary workforce, HR-Contract Section is ensuring that in every purchase/work order, 16% of the bill is being withheld on account of HR statutory labor compliances such as payment of Minimum Wages, Employee Provident Fund, Employee State Insurance/Employee compensation, Bonus and Leave with wages while making payment towards Running/Final bill of the vendors.

3. Provide the number of employees / workers having suffered high consequence work- related injury / ill-health / fatalities (as reported in Q11 of Essential Indicators above), who have been are rehabilitated and placed in suitable employment or whose family members have been placed in suitable employment:

	Total no.of affected employees/ workers		No. of employees/workers that are rehabilitated and placed in suitable employment or whose family members have been placed in suitable employment	
	FY 2022-23	FY 2021-22	FY 2022-23	FY 2021-22
Employees	NIL	NIL	NIL	NIL
Workers	NIL	NIL	NIL	NIL

4. Does the entity provide transition assistance programs to facilitate continued employability and the management of career endings resulting from retirement or termination of employment? (Yes/ No):
Yes. Only for superannuating employees
5. Details on assessment of value chain partners:

	% of value chain partners (by value of business done with such partners) that were assessed
Health and safety practices Working Conditions	100%Yes, such assessments are carried out for, Operation & Maintenance Contractors, Transporters of our organization, as they are the most crucial Value chain partner. Assessment is being carried out internally

6. Provide details of any corrective actions taken or underway to address significant risks / concerns arising from assessments of health and safety practices and working conditions of value chain partners.

All safety-related accidents are being investigated and learnings from investigation reports are shared across organisations for of health and safety practices and working conditions of value chain partners. Deployment of corrective actions to stop recurrence of such incidents. Effectiveness of Corrective actions deployment being Significant risks/concerns if any related to health & safety practices and working conditions are evaluated during the assessment and checked during safety Audits. Significant risks/concerns arising from assessment of Health and Safety Practices are addressed through hierarchy of risk controls. Value Chain Partners comply with the HSE standards in accordance with MRPL's requirement as stipulated in the contractual agreement.

PRINCIPLE 4: Businesses should respect the interests of and be responsive to all its stakeholders

Essential indicators

1. Describe the processes for identifying key stakeholder groups of the entity.

MRPL follows a well-integrated stakeholder engagement process. It leverages formal and informal modes of dialogue to identify the requirements and expectations of stakeholders. This process involves four key phases namely plan, Identify, engage and report.

2. List stakeholder groups identified as key for your entity and the frequency of engagement with each stakeholder group.

Stake holder group	Whether identified as vulnerable and marginalized group (Yes/No)	Channels of communication	Frequency of engagement (Annually/Half-yearly/Quarterly/others-specify)	Purpose and scope of engagement including key topics and concerns raised during such engagements
Shareholders and Investors	No	Annual General Meeting, Corporate website, Press releases/press conference	Annually or an and when required	Financial performance, Risk Management, Corporate governance, Dividend
Customers	No	e-mail, sms, newspapers, pamphlets, advertisements, community meetings, notice board, website, other	Continual	Products and Services
Channel Partners	No	e-mail, sms, newspapers, pamphlets, advertisements, community meetings, notice board, website, other	As and when required	As per dealership arrangement; Products and Services
Regulatory bodies	No	e-mail, notice, website	As and when required	Regarding compliances on act and rules

PRINCIPLE 5: Businesses should respect and promote human rights

1. Employees and workers who have been provided training on human rights issues and policy(ies) of the entity, in the following format:

Program Name	Institute Name	Participation in no's
Workshop for liasion officers of sc/st	Institute of secretariat training & mgm	02
Reservation for pwbd		02
Reservation policy		33
Right to information act 2005	Institute of good governance	03

2. Details of minimum wages paid to employees and workers, in the following format:

Category	FY 2022-23		
	Total (A)	More than Minimum Wage	
		No. (B)	% (B / A)
Executive			
Non-executive			
Unskilled	616	35	5.68
Semi-skilled/unskilled supervisory	695	50	7.19
Skilled/clerical	816	70	8.57
Highly skilled	897	90	10.03

3. Details of remuneration/salary/wages, in the following format:

	Male Number	Median remuneration/ salary/ wages of respective category	Female Number	Median remuneration/ salary/ wages of respective category
Board of Directors (BoD)	2	7812000	0	0
Key Managerial Personnel	2	4977000	0	0
Employees other than BoD and KMP	1041	3208000	62	2061000
Workers	1279	1460000	164	983000

4. Do you have a focal point (Individual/ Committee) responsible for addressing human rights impacts or issues caused or contributed to by the business? (Yes/No)

No

5. Describe the internal mechanisms in place to redress grievances related to human rights issues.

Yes

6. Number of Complaints on the following made by employees and workers:

	FY 2022-23		
	Filed during the year	Pending resolution at the end of year	Remarks
Sexual Harassment	0	0	Internal Committee is functional as per statutory provisions of The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013, The Repealing and Amending Act, 2016. Few important measures taken are as detailed below : 1. The email/s sent to the Visitor/s has the message - “Sexual Harassment is a prohibited Act in MRPL”. 2. The General Terms and Conditions of all Work Orders issued by MRPL has a mention about the statutory provisions w.r.t The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013, The Repealing and Amending Act 2016. 3. Gender Sensitization Training programs for Employees are organized during the year by MRPL through its Training Center. 4. Awareness about Gender Sensitization is also routinely imparted to newly joined employees during the induction programs by MRPL.
Discrimination at workplace	0	0	
Child Labour	0	0	NA as nobody is employed under the age of 18.
Forced Labour			
/Involuntary Labour	0	0	
Wages	0	0	Minor complaints of late payments resolved as and when received.
Other human Rights related issues	0	0	

7. Mechanisms to prevent adverse consequences to the complainant in discrimination and harassment cases.

Yes

8. Do human rights requirements form part of your business agreements and contracts?

(Yes/No)

Yes



9. Assessments for the year:

	% of your plants and offices that were assessed (by entity or statutory authorities or third parties)
Child labor	Labor authorities checking the compliances regularly
Forced/involuntary labor	
Sexual harassment	
Discrimination at workplace	
Wages	
Others – please specify	

10. Provide details of any corrective actions taken or underway to address significant risks / concerns arising from the assessments at Question 9 above.

No corrective actions suggested.

Leadership Indicators

1. Details of a business process being modified / introduced as a result of addressing human rights grievances/ complaints.

Nil

2. Details of the scope and coverage of any Human rights due-diligence conducted.

Nil

3. Is the premise/office of the entity accessible to differently abled visitors, as per the requirements of the Rights of Persons with Disabilities Act, 2016?

Yes. Offices have accessibility.

4. Details on assessment of value chain partners:

	% of value chain partners (by value of business done with such partners) were assessed
Sexual Harassment	Labor authorities checking the compliances regularly
Discrimination at workplace	
Child Labour	
Forced Labour/Involuntary Labour	
Wages	
Others – please specify	

5. Provide details of any corrective actions taken or underway to address significant risks / concerns arising from the assessments at Question 4 above.

No corrective actions suggested

PRINCIPLE 6: Businesses should respect and make efforts to protect and restore the environment

1. Details of total energy consumption (in Joules or multiples) and energy intensity, in the following format:

Parameter	FY 2022-23	FY 2021-22
Liquid Fuel Consumption (A)(GJ)	31127270.30	27900466.76
Gaseous Fuel Consumption (B)(GJ)	28493373.95	26061624.19
Solid Fuel Consumption (C)(GJ)	6082874.93	6278514.58
Total energy consumption (A+B+C) (GJ)	65703519.17	60240605.53
Specific Energy Consumption (MBN)	71.30	73.44

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

No. However duly filled Proforma has been submitted to KREDL & BEE every financial year.

2. Does the entity have any sites / facilities identified as designated consumers (DCs) under the Performance, Achieve and Trade (PAT) Scheme of the Government of India? (Y/N) If yes, disclose whether targets set under the PAT scheme have been achieved. In case targets have not been achieved, provide the remedial action taken, if any.

For PAT - VI cycle, target given was 69.08 against actual MBN of 71.30.

3. Provide details of the following disclosures related to water, in the following format:

Parameter	FY 2022-23	FY 2021-22
Water withdrawal by source (in kilolitres)		
(i) Surface water(Note-1)	1,75,35,996	1,47,52,903
(ii) Groundwater	Nil	Nil
(iii)Third party water (Municipal)	61,09,556	65,87,079
(iv)Seawater / desalinated water	21,92,386	-
(v) Others (Rain water Storage)		
<i>Total volume of water withdrawal(in kilolitres)</i> <i>(i + ii + iii + iv + v)</i>	2,58,37,938	2,13,39,982
Total volume of water consumption(in kilolitres)	2,47,73,719	2,13,22,311
Water intensity per rupee ofturnover (<i>Water consumed / turnover</i>), <i>kl/Rs million</i>	19.86	24.76
Water intensity (<i>optional</i>) – therelevant metric may be selected by the entity		

Note1: - Includes water receipt for BASF, HPCL, Colony

Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

No

4. Has the entity implemented a mechanism for Zero Liquid Discharge? If yes, provide details of its coverage and implementation.

ZLD study was carried out in 2018 and implemented necessary modifications to minimize treated effluent discharge to sea. Implementing ZLD will generate huge quantity of solid waste for which sustainable disposing option is not available. At present 70% of water is recycled to cooling towers.

5. Provide details of air emissions (other than GHG emissions) by the entity, in the following format:

<i>Parameter</i>	<i>Please specify unit</i>	<i>FY 2022-23</i>
NOx	TPD	6.06 (Refinery) & 1.13 (Aromatic complex)
SOx	TPD	57 (Refinery) & 1.26 (Aromatic complex)
Particulate matter(PM)	TPD	NA
Persistent organicpollutants (POP)	mg/m3	Nil
Volatile organiccompounds (VOC)	Tonnes	0.0064 (Aromatic complex)2.1 (Aromatic complex)
Hazardous air pollutants (HAP)	mg/m3	Nil
Others please specify	ppm	Nil

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

No.

(Grid analysis study for 10 km radial distance from MRPL boundary is under progress by M/s CSIR-NEERI)

6. Provide details of greenhouse gas emissions (Scope 1 and Scope 2 emissions) & its intensity, in the following format:

Parameter	Unit	FY 2022-23 (Note-2)	FY 2021-22
Total Scope 1 emissions (Break-up of the GHG into CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆ , NF ₃ , if available)	<i>Metric tonnes of CO₂equivalent</i>	55,90,664	49,93,711
Total Scope 2 emissions (Break-up of the GHG into CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆ , NF ₃ , if available)	<i>Metric tonnes of CO₂equivalent</i>	92,035	79,840
Total Scope 1 and Scope 2 emissions per rupee ofturnover	tCO ₂ / million rupees	4.557	5.89
Total Scope 1 and Scope 2 emission intensity (optional)– the relevant metric may beselected by the entity	tCO ₂ / MT of crude processed	0.332	0.341

Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

Yes. M/s Emergent Ventures India. FY 2022-23 data validation under progress.

Note-2: Data for Fy 2022-23 is provisional.

7. Does the entity have any project related to reducing Green House Gas emission? If Yes, then provide details. MRPL proposed to upgrade power import facility to 72 MW power. MRPL is implementing energy-efficient technologies to minimize energy waste and associated GHG emissions. MRPL is in the process of putting up a Bio-ATF plant. By integrating bio alternative ATF into the refinery’s operations, the reliance on fossil fuels can be reduced, resulting in lower carbon dioxide emissions. Additionally, MRPL is establishing 2G-ethanol plants which will enable the production of renewable fuel sources, thereby decreasing the GHG emissions associated with traditional petroleum-based products.

8. Provide details related to waste management by the entity, in the following format:

Parameter	FY 2022-23	FY 2021-22
Total Waste generated (in metric tonnes)		
E-waste (A)	3.36	1.72
Hazardous Waste (B)	9304.95	8619.23
Non-hazardous waste generated(C). Please specify, if any. (Break-up by composition i.e. by materials relevant to the sector)	3844.3	4170
Total (A + B + C)	13153	12791

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

No.

9. Briefly describe the waste management practices adopted in your establishments. Describe the strategy adopted by your company to reduce usage of hazardous and toxic chemicals in your products and processes and the practices adopted to manage such wastes.

- a) Effluent Treatment Plants: State-of-the-Art Effluent Treatment Plants for treating effluents generated in the Refinery to meet MINAS standards prior to disposal/reuse. Separate segregated treatment facilities are provided for oily wastewater and contaminated rainwater. MRPL has installed 3 Effluent Treatment Plants (ETPs). ETP-I was installed with a capacity of 100 m3/hr (Dry weather flow) and 300 m3/hr (Wet weather flow), whereas ETP-2 has a capacity of 300 m3/hr (Dry weather flow) and 600 m3/hr (Wet weather flow). The ETP-3 can cater to the requirement of oil treatment section (480 m3/hr); biological treatment section (625 m3/hr); CTBD treatment system (525 m3/hr); UF system (600 m3/hr); RO treatment system (1000 m3/hr) and CRWS system (450 m3/hr). Domestic effluent is being treated along with trade effluent in ETP’s; maximum recycled to cooling tower and the balance discharged to sea
- b) Oily sludge: For the purpose of recovery of resource, oily sludge generated in Effluent Treatment Plants (ETP) is thickened & centrifuged, producing sludge containing only 3-5% oil, which is stored in HDPE lined impervious sludge pits. This oily sludge is either reprocessed in our Delayed Coker Unit (DCU) where it gets converted to valuable products or sent for Co-processing in SPCB Authorized Cement Industry. Co-processing leaves no residue as the incombustible, inorganic content of the waste materials are incorporated in the clinker matrix. Therefore, after the waste is co-processed, it becomes a part of the product. During 2022-23, about 4588.1 MT of oily sludge is reprocessed in DCU while 1273.01 MT are Co-processed through SPCB authorized cement industries.
- c) Spent catalyst: During 2022-23, around 367.65 MT of Spent Catalyst containing oxides of transition metals like Platinum, Cobalt, Molybdenum, Nickel, alumina, etc. is disposed to SPCB authorized recyclers.



- d) Suspended particulate Matter Reduction: MRPL is in the process of commissioning New Wet Gas scrubber at PFCC Unit to reduce SPM.

Use of Low-Sulfur Fuels: By using low-sulfur fuel oil, fuel gas or natural gas, we are reducing the emission of sulfur-related pollution. Switching to cleaner fuels helps mitigate the formation of particulate matter during the refining process.

Regular maintenance practices and good housekeeping in the refinery can minimize the generation and release of particulate matter. This includes implementing proper dust control measures (eg. Fog Generator), regularly cleaning surfaces and equipment, and promptly addressing any leaks or spills that may lead to the generation of particulate matter.

- e) Reduction of oil and oil contaminated waste water spillage: To reduce oil and oil-contaminated wastewater spillage, MRPL has employed several preventive and mitigation measures.

Leak Detection and Maintenance: Regular inspections and maintenance of equipment, pipelines, and storage facilities to identify and repair leaks or fugitive emission.

Spill Prevention Systems: Implementing containment systems, such as secondary containment structures, oil catchers to capture and prevent spills from spreading into the environment. Emergency Response Plans: Developed comprehensive emergency response plans to quickly and effectively respond to spills or leaks, including containment, cleanup, and mitigation procedures.

Training and Awareness: MRPL is providing proper training to refinery personnel regarding spill prevention, response protocols, and use of appropriate safety equipment to minimize the risk of spills.

Compliance with Regulations: MRPL is adhering to regulatory standards for produced water management and disposal to ensure environmental protection and sustainability.

10. If the entity has operations/offices in/around ecologically sensitive areas (such as national parks, wildlife sanctuaries, biosphere reserves, wetlands, biodiversity hotspots, forests, coastal regulation zones etc.) where environmental approvals / clearances are required, please specify details in the following format:

S.No.	Whether the conditions of environmental approval / clearance are being complied with? (Y/N)If no, the reasons thereof and Corrective action taken, if any.
1	Yes MRPL- Phase-I project EC Issued vide File No. J-1101/6/89-IA.II dated 01/02/1991
2	Yes MRPL-Project (Phase-II) EC Issued vide File No. J-11011/1/96-IA.II(I) dated 05/08/1996
3	Yes MRPL phase-1 SEZ Project EC Issued vide File No. 21-383/2007-IA-III Dated 03/04/2008
4	Yes MRPL 13.6 MMTPA Expansion Project EC Issued vide File No. J-11011/8/2009-IA.II(I) Dated 23/12/2009
5	Yes MRPL-SPM & Storage facilities at port trust project EC Issued vide File No. 10-49/2009-IA.III Dated 01/04/2011
6	Yes MRPL-PP Project EC Issued vide File No. J-11011/215/2010-IA.II(I) Dated 01/11/2011
7	Yes MRPL-BS VI Project EC Issued vide File No. J-11011/47/2016-IA.II(I) Dated 10/07/2017
8	Yes MRPL-CRZ Clearance For 70 MLD Desalination Plant At Village Taneerbavi, Mangalore Issued vide File No. 11-3/2019-IA-III Dated 18/04/2019
9	Yes MRPL-Modernization Project EC Issued vide File No. J-11011/215/2010-IA.II(I) Dated 19/01/2021
10	Yes MRPL Capacity Expansion EC from 16.6 TO 18.2 MMTPA Issued vide File No J-11011/215/2010-IA-II(I) Dated 09/01/2023
11	Yes MRPL 60 KLPD Second Generation (2G) Ethanol Project at Davangere EC Issued vide File No. SEIAA 38 IND 2019 dated 21/01/2023

11. Details of environmental impact assessments of projects undertaken by the entity based on applicable laws, in the current financial year:

Name and brief details of project	EIA Notification No.	Date	Whether conducted by independent external agency(Yes / No)	Results communicated in public domain(Yes / No)	Relevant Web link
Capacity Expansion from 16.6 to 18.2 MMTPA at Mangalore	2006	09-01-2023	YES	YES	https://admin.mrpl.co.in/img/UploadedFiles/EnvironmentRelatedData/Files/English/ff0647cc31214dc392d5426befcc8d2b.pdf

12. Is the entity compliant with the applicable environmental law/ regulations/ guidelines in India; such as the Water (Prevention and Control of Pollution) Act, Air (Prevention and Control of Pollution) Act, Environment protection act and rules thereunder (Y/N).

If not, provide details of all such non-compliances, in the following format:

Yes. Total 17 nos. of show cause notices received during FY 2022-23 for OCEMS exceedances, ETP quality, High noise in surrounding. Corrective actions has been taken and compliance is submitted to KSPCB. No complaint is pending for compliance.

Leadership indicators

1. Provide break-up of the total energy consumed (in Joules or multiples) from renewable and non-renewable sources, in the following format:

Parameter	FY 2022-23 GJ	FY 2021-22 GJ
From renewable sources		
Solar	28205	28748
Total energy consumed from renewable sources	28205	28748
From non-renewable sources		
Liquid fuel	31127270	27900466
Gas fuel	28493373	26061624
Solid fuel	6082874	6278514
Total energy consumed from non-renewable sources	65703519	60240605
Total	65731724	60269354

Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/ N) If yes, name of the external agency:

No



2. Provide the following details related to water discharged:

Parameter	FY 2022-23	FY 2021-22
Water discharge by destination and level of treatment (in kilo litres)		
(i) To Surface water	Nil	Nil
- No treatment		
- With treatment – please specify level of treatment		
(ii) To Groundwater	Nil	Nil
- No treatment		
- With treatment – please specify level of treatment		
(iii) To Seawater	Total discharge to sea=701.4m ³ /hr Dry weather to sea = 312.4m ³ /hr Wet weather to sea = 389m ³ /hr	Total discharge to sea=524.48m ³ /hr Dry weather to sea=159.48m ³ /hr Wet weather to sea=365m ³ /hr
- No treatment		
- With treatment – please specify level of treatment	Before discharging to sea treated in ETP- Physical treatment, Chemical treatment, Biological process, Polishing section and meeting MINAS standard before discharge to sea.	Before discharging to sea treated in ETP- Physical treatment, Chemical treatment, Biological process, Polishing section, and meeting MINAS standard before discharge to sea
(iv) Sent to third-parties	Nil	NIL
- No treatment		
- With treatment – please specify level of treatment		
(v) Others	Nil	
- No treatment		
- With treatment – please specify level of treatment		
Total water discharged (in kilolitres)	Total discharge to sea=701.4m ³ /hr Dry weather to sea=312.4m ³ /hr Wet weather to sea=389m ³ /hr	Total discharge to sea=524.48m ³ /hr Dry weather to sea=159.48m ³ /hr Wet weather to sea=365m ³ /hr

Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

No

3. Water withdrawal, consumption and discharge in areas of water stress (in kilolitres):

For each facility / plant located in areas of water stress, provide the following information:

- (i) Name of the area
- (ii) Nature of operations
- (iii) Water withdrawal, consumption and discharge in the following format:

None of the MRPL facilities has been established in water stress area

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) If yes, name of the external agency.

No

4. Please provide details of total Scope 3 emissions & its intensity, in the following format:

Parameter	Unit	FY 2022-23 (Note-3)	FY 2021-22 (Note-2)
Total Scope 3 emissions (Break-up of the GHG into CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, if available)	Million tonnes of CO2equivalent	57.33	36.15
Total Scope 3 emissions per rupee of turnover	tCO2 (eq)/ million INR turnover	46	42

Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/ N) If yes, name of the external agency.

No

Note 2 & 3: Emission based on use of sold products only.

5. With respect to the ecologically sensitive areas reported at Question 10 of Essential Indicators above, provide details of significant direct & indirect impact of the entity on biodiversity in such areas along-with prevention and remediation activities.

There is no ecologically sensitive area near MRPL Refinery Mangalore. However for MRPL Second Generation (2G) Ethanol Project proposed at Hanagawadi Village, Harihar Taluk, Davangere District, Karnataka which is 9.2 Km away from Ranebennur Wildlife Sanctuary. Wildlife conservation plan has been prepared and authenticated by PCCF, DFEE, GoK.

6. If the entity has undertaken any specific initiatives or used innovative technology or solutions to improve resource efficiency, or reduce impact due to emissions / effluent discharge / waste generated, please provide details of the same as well as outcome of such initiatives, as per the following format:

S. No	Initiative undertaken	Details of the initiative (<i>Web-link, if any, may be provided along-with summary</i>)
1	Energy efficiency improvement measures	<ol style="list-style-type: none"> 1. Optimisation of SCAPH and reduction of dry flue gas losses in Boiler-1 ~ 820.8 SRFT/ Annum 2. UB1 Economiser Performance Improvement through dry ice blasting~1302 SRFT/ Annum 3. Attending of faulty & leaking steam traps across refinery complex ~6704 SRFT/ Annum 4. Attending/Replacing damaged/faulty insulation for steam and process lines across refinery ~ 197 SRFT/ Annum 5. Conducting Leak Survey and attending Instrument Air/ Plant Air/ Nitrogen leaks across refinery ~ 260 SRFT/ Annum 6. Replacement of HPMV & HPSV lights with energy efficient fixtures in plant area~ 222 SRFT/ Annum. <p>Total Energy savings for FY22-23 is 9506 SRFT / Annum</p>
2	Water Recycling	<p>MRPL in collaboration with an agricultural university is conducting feasibility study on ‘Utilization of treated effluent water for gardening/ irrigation.</p> <p>Minimizing the total effluent generation by recycling the effluents within the units has been incorporated during design stage itself, like reusing / recycling Stripped sour water within the De-salters of the Crude Distillation Unit and usage of sour water for HCU fin fan cooler washing.</p> <p>Treated effluents are reused in cooling towers and fire water to the maximum extent and exploring options to recycle in nearby industry balance treated effluents are disposed into the Sea.</p>
3	Emission control	<ol style="list-style-type: none"> 1. MRPL is in process of installing a Wet Gas Scrubber in PFCC unit. 2. Using Natural Gas & Fuel Gas in most of the heaters. 3. Sulphur Palletization Unit to avoid formation of Sulphur Dusts 4. Installation VOC recovery Units in Effluent Treatment Plant 5. Usage of Fog generators within Refinery premises for reduction of Dust Generation 6. Adequate Stack Heights of Process Heaters

7. Does the entity have a business continuity and disaster management plan? Give details in 100 words/ web link.

Yes

On Site Emergency Plan is prepared in line with the statutory requirements and approved by Director of Factories, Boilers, Industrial Safety and Health, Government of Karnataka. It covers the possible accident scenarios and its mitigation measures. Onsite Mock Drills are conducted twice in a year to create awareness

among the workforce about the possible emergency situations. Off Site Emergency Plan approved by Chairman, District Disaster Management Authority, Dakshina Kannada District is available with MRPL. Natural Disaster Scenarios like Flood, Earth Quake, Cyclone, and Outbreak of disease, Pandemic, Excessive Rains, and Tsunami are covered in Emergency Response & Disaster Management Plan made as per Petroleum & Natural Gas Regulatory Board Guidelines and Offsite Emergency Plan prepared by Chairman, DDMA, Dakshina Kannada District.

8. Disclose any significant adverse impact to the environment, arising from the value chain of the entity. What mitigation or adaptation measures have been taken by the entity in this regard.

No adverse effect to the environment

9. Percentage of value chain partners (by value of business done with such partners) that were assessed for environmental impacts.

No formal examination of value chain partners has been conducted for Environmental Impacts.

PRINCIPLE 7: Business in engaging in influencing public and regulatory policy, should do in a manner that is responsible and transparent

Essential indicators

1. a) List the trade and industry chambers/ association (determined based on total members of such body) the

Sl no	entity is a member of / affiliated to Name of trade and industry chambers/ associations	Reach of trade and industry chambers/ association (National/ State)
1	Global Compact Network India (GCNI)	National
2	Standing Conference of Public Enterprises (SCOPE)	National
3	Federation of Indian Petroleum Industry (FIPI)	National
4	Confederation of Indian Industry - Karnataka	State
5	Chemicals and Petrochemicals Manufacture Association	National

2. Provide details of corrective action taken or underway on any issues related to anti- competitive conduct by the entity, based on adverse orders from regulatory authorities.

No adverse order received from any regulatory authorities related to anti- competitive conduct.

PRINCIPLE 8: Business should promote inclusive growth and equitable development

Essential indicators

1. Details of Social Impact Assessments (SIA) of projects undertaken by the entity based on applicable laws, in the current financial year.

MRPL has not carried out any CSR projects above 1 50 lakhs, hence Impact assessment study was not carried out for the financial year 2022-23 as per the policy.

2. Provide information on project(s) for which ongoing Rehabilitation and Resettlement (R&R) is being undertaken by your entity:

Nil for FY 2022-23

3. Describe the mechanisms to receive and redress grievances of the community:

Online mail, CPGRAMS and additionally complaints received through letters. Company representative attend the meetings of the Neighboring Panchayats whenever invited.

4. Percentage of input material (inputs to total inputs by value) sourced from suppliers:

	FY 2022-23	FY 2021-22
Directly sourced from MSMEs/ small producers	28.09%	28.80%
Sourced directly from within the district and neighboring districts	Not Applicable	Not Applicable

Leadership indicators

1. Provide details of actions taken to mitigate any negative social impacts identified in the Social Impact Assessments (Reference: Question 1 of Essential Indicators above):

MRPL has not conducted Social Impact Assessment for FY 2022-23

2. Provide the following information on CSR projects undertaken by your entity in designated aspirational districts as identified by government bodies:

Nil for FY 2022-23.

3. (a) Do you have a preferential procurement policy where you give preference to purchase from suppliers comprising marginalized /vulnerable groups? (Yes/No)

Yes

- (b) From which marginalized /vulnerable groups do you procure?

SC/ST & Women Micro & Small Enterprises

- (c) What percentage of total procurement (by value) does it constitute?

Target Procurement from SC/ST MSEs is 4% and from Women MSEs is 3%.

4. Details of the benefits derived and shared from the intellectual properties owned or acquired by your entity (in the current financial year), based on traditional knowledge:

Nil

5. Details of corrective actions taken or underway, based on any adverse order in intellectual property related disputes wherein usage of traditional knowledge is involved.

Nil

6. Details of beneficiaries of CSR Projects:

Annual Report on CSR is provided as Annexure to the Board's Report."

PRINCIPLE 9: Businesses should engage with and provide value to their consumers in a responsible manner

Essential Indicators

1. Describe the mechanisms in place to receive and respond to consumer complaints and feedback.

Dedicated email IDs for different Marketing verticals for customer complaints and feedback. Detailed working of Customer Grievance Redressal mechanism is in place and is a part of ISO.

2. Turnover of products and/ services as a percentage of turnover from all products/ service that carry information about:

	As a percentage of total turnover	
Environmental and social parameters relevant to the product	Product/Service	% of Total Turnover contributed
	Production of LPG = 1.15 MMT	7.6
	Production of POLYPROPYLENE = 0.44 MMT	2.9
	Production of MS VI = 1.48 MMT	9.7
	Production of MS 95 RON (Non BS VI SPEC) = 0.95 MMT	6.2
	Production of NAPHTHA = 0.05 MMT	0.4
	Production of SKO = 0.04 MMT	0.3
	Production of HSD = 4.71 MMT	30.9
	Production of HFHSD = 1.87 MMT	12.3
	Production of ATF = 1.92 MMT	12.6
	Production of MFO = 0.43 MMT	2.8
	Production of BITUMEN = 0.17 MMT	1.1
	Production of PET COKE = 1.00 MMT	6.6
	Production of SULPHUR = 0.24 MMT	1.6
	Production of BENZENE = 0.09 MMT	0.6
	Production of REFORMATE = 0.68 MMT	4.5
	Above products are manufactured for fulfilling the energy requirement to sustain the social development, fully understanding the negative impact on the Environment. During refinery operation while generating these products refinery ensures meeting all the stipulated environmental norms.	
Recycling and safe disposal*	1273.01 MT of Oily Sludge & 1428.44 MT of PFCC Spent catalysts have been Co-processed in SPCB authorized cement industries. 367.65 MT of Spent catalysts has been disposed through SPCB authorized Recyclers/ Re-processors.	

3. Number of consumer complaints

45 complaints all inclusive in 2022-23. All but one has been resolved. Root-cause analysis for the last one is in progress,

4. Details of instances of product recalls on account of safety issues

	Number	Reasons for recall
Voluntary recalls	Nil	NA
Forced recalls	Nil	NA

5. Does the entity have a framework/ policy on cyber security and risks related to data privacy? **(Yes/No)** If available, provide a web-link of the policy.

Yes. ISO 27001 framework for MRPL Datacenter and Disaster Recovery sites. MRPL Certified for ISO 27001:2013 ISMS. The certification valid till May 2025. Last surveillance Audit May 2023.

6. Provide details of any corrective actions taken or underway on issues relating to advertising, and delivery of essential services; cyber security and data privacy of customers; re-occurrence of instances of product recalls; penalty / action taken by regulatory authorities on safety of products / services.

MRPL markets the product based on stringent quality checks and meeting ASTM norms for petroleum products / internal specifications for Polypropylene, duly tested in the NABL accredited Laboratory. Customer complaints, if any, are handled as per ISO procedure.

Leadership indicators

1. Channels / platforms where information on products and services of the entity can be accessed (provide web link, if available).

MRPL website: mrpl.co.in

2. Steps taken to inform and educate consumers about safe and responsible usage of products and/or services.
Regular training of DSM and Operators for Retail Outlets who then pass on the safety standards information to consumers of our products.

3. Mechanisms in place to inform consumers of any risk of disruption/discontinuation of essential services.

Retail dealers / consumers / DSAs are regularly informed through proper communication channels viz. Mails, calls etc. and are intimated in case of any supply disruptions from time to time.

4. Provide the following information relating to data breaches:

- a) Number of instances of data breaches along-with impact

No cyber incidents related to data breach. Continuous monitoring and enrolled for threat intelligence advisories from NCIIPC, Cert-IN and MHA.

- b) Percentage of data breaches involving personally identifiable information of customers

Not applicable