JK Tyre and Industries - Supply Chain Environmental questionnaire

In case your Company has multiple manufacturing Plants, from which you supply to JKTIL, please submit data separately for each manufacturing Plant through this questionnaire. If you have any query regarding the questions, please contact Mr. Santhana Krishna, Mr. Sriranjan J; E-mail- [ssk@vtp.jkmail.com](mailto:ssk@vtp.jkmail.com), [sriranjan@vtp.jkmail.com](mailto:sriranjan@vtp.jkmail.com)

\* Required

General Information



In this Section please provide contact details of your Environment / Utilities Head for ease of communication

1. Company Name \*
2. JKTIL Vendor Code \*
3. Name of Contact Person for this initiative \* - Mr Sunil Katekari
4. Designation \* - AGM – EHS
5. Telephone No. \* - 022- 39213914
6. Email ID \* - sunil.katekari@vvfltd.com
7. Address of Plant for which this questionnaire is being filled up \* VVF

1. Your Company supplies to which locations of JKTIL? \*

Tick all that apply. You can select more than one location, if your Company's Unit supplies to multiple JKTIL locations.

***Check all that apply.***

VTP



TRP



KTP



BTP



CTP



1. Type of Item supplied \*

Tick all that apply.You can select more than one item, if your Company manufactures several of the items/products listed below:

***Check all that apply.***

Natural Rubber



Synthetic Rubber



Carbon Black

Nylon



Steel Wire



Oils & Lubricants



Fuels



Gases



Welding Consumables



Water Treatment Chemicals



Effluent Treatment Chemicals



Others



1. What percentage of your production is supplied to JKTIL (All locations) \*

Eg. a) Carbon Black unit 'XYZ' supplies 50% of its good tonnage to JKTIL units across India b) Rubber manufacturing unit 'ABC' supplies 75% to JKTIL units

1. Total no. of Permanent Employees \*

Permanent employees involved in both Manufacturing and Non manufacturing

1. Total No. of Contractual Employees

Contract employees involved in both Manufacturing and Non manufacturing

1. Details of Legal - "Consents/Permissions" \*

Tick all that apply

***Check all that apply.***

* Permission from local authorities (such as Municipal Corporation) to connect sewage/trade effluent to sewer lines or network.
* Permission from local authorities (such as Municipal Corporation) for disposal of non-hazardous waste (e.g. canteen waste, dust-bin trash, sweepings, etc)
* ‘Consent to Operate’ / 'Hazardous Waste Authorisation' from State Pollution Control Board / Pollution Control Committee for discharge of treated effluent / emissions and for disposal of hazardous waste

1. Does your Company have a currently valid certification to the following Management Systems:

Tick all that apply

***Check all that apply.***

* Quality Management System: ISO-9001: 2008 or ISO/TS-16949



Occupational Health & Safety Management System: OHSAS-18001: 2007



Environment Management System: ISO-14001: 2004



Energy Management System: ISO-50001: 2011

Green House Gas Standards: ISO14001: 2006



1. In case your Company is not certified to these Management Systems today, which of the following Management Systems does your Company plan to adopt in the next year?

Tick all that apply

***Check all that apply.***

Quality Management System: ISO-9001: 2008 or ISO/TS-16949



* Occupational Health & Safety Management System: OHSAS-18001: 2007



* Environment Management System: ISO-14001: 2004



Energy Management System: ISO-50001: 2011



Green House Gas Standards: ISO14001: 2006

1. We would like to know about initiatives implemented in the last 3 years to improve your environmental performance

Pick from the following environmental initiatives. You can select more than one item

***Check all that apply.***

Tree plantation outside premises



* Packaging waste reduction (both raw material consumed and for product output)



 Elimination of hazardous chemicals/ingredients. (both raw material consumed and in product output)



* 3R Projects (Reduce / Reuse / Re-cycle) for Solid Waste (non-hazardous and hazardous)



* Clean Technology



√ Energy and environment criteria in procurement process



* Energy and Water Conservation in manufacturing process



Renewable energy



* Waste segregation & safe disposal



Energy Consumption



Please provide last three years data

Put value 'Zero' wherever Not Applicable

1. Electricity purchased from State Electricity Board (KWH)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
|  | KWH |  |  |  |
|  |  |  |  |  |

1. Electricity generated from DG set / Captive Power Plant

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
|  | KWH |  |  |  |
|  |  |  |  |  |

1. Renewable (wind, solar, biomass) Energy generated in-house or procured

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KWH |  |  |  |
| Actual | KWH |  |  |  |

Quantity of Fossil Fuel Consumed



1. Furnace Oil (Kilo Litre)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. Light Diesel Oil (Kilo Litre)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. High Speed Diesel (Kilo Litre)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. Petrol (Kilo Litre)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. Liquefied Petroleum Gas (MT)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT |  |  |  |
| Actual | MT |  |  |  |

1. Propane/Butane (MT)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT |  |  |  |
| Actual | MT |  |  |  |

1. Natural Gas (NG)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT |  |  |  |
| Actual | MT |  |  |  |

1. Coal (MT)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT |  |  |  |
| Actual | MT |  |  |  |

1. Wood (MT) FY 13-14 \*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT |  |  |  |
| Actual | MT |  |  |  |

1. Please indicate the Specific Energy Consumption - amount of energy consumed per unit of Output

Notes: \*You can submit Plant level or Company level data (text is allowed). \* Use standard units such as KWH, GJ or MKCal for energy and suitable standard unit for your product output such as MT of material manufactured / processed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | GJ |  |  |  |
| Actual | GJ |  |  |  |

1. Please indicate the Specific Energy Consumption - amount of energy consumed per unit of Output –Target and action plan for the next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | GJ |  |  |  |

1. Please indicate the Methods adopted to reduce Specific Energy Consumption –

(Initiatives done to reduce the specific energy consumption)

a.

b

c

d

Water Consumption



Please provide last three years data

Put value 'Zero' wherever not applicable

1. Ground water (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL | Zero | Zero | Zero |
| Actual | KL | Zero | Zero | Zero |

1. Surface water (Lake,River etc) followed by in-house treatment (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. Utility piped water supply/tanker supply (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. Harvested rainwater (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL |  |  |  |
| Actual | KL |  |  |  |

1. Please indicate the Specific Water Consumption - amount of water consumed per unit of Output

Notes: \*You can submit Plant level or Company level data (text is allowed). \* Use standard units such as KL or m3 for water and suitable standard unit for your product output such as MT of material manufactured / processed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL/MT |  |  |  |
| Actual | KL/MT |  |  |  |

1. Please indicate the Specific Water Consumption - amount of energy consumed per unit of Output –Target and action plan for the next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | KL/MT |  |  |  |

Please indicate the Methods adopted to reduce Specific Water Consumption – (Initiatives done to reduce the specific water consumption)

A

B

C

D

Effluent Treatment and Disposal



Please provide last three years data for

1. Qty of effluent generated
2. Qty of treated effluent reused
3. Qty of treated effluent discharged \*Put value 'Zero' wherever not applicable
4. Domestic effluent (sewage) generated (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL/Day | 60.50 | 60.50 | 70.54 |
| Actual | KL/Day | 60 | 58 | 50 |

1. Industrial effluent generated (Inclusive of Cooling Tower Blowdown) (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL/Day | 202.01 | 202.01 | 202.01 |
| Actual | KL/Day | 82 | 104 | 129 |

1. Treated (combined) effluent used for gardening purpose (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL/Day | 25 | 25 | 25 |
| Actual | KL/Day | 23 | 19 | 18 |

1. Treated (combined) effluent recycled back to process (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL/Day | 50 | 50 | 50 |
| Actual | KL/Day | 37 | 47 | 52 |

1. Treated (combined) effluent discharged outside premises (m3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | KL/Day | 262.51 | 262.51 | 272.55 |
| Actual | KL/Day | 21 | 39 | 59 |

Solid Waste Generation and Disposal



Please provide last three years data

Put value 'Zero' wherever not applicable

1. Quantity of hazardous waste\* generated which was disposed off in landfill or incinerated (MT)

\*Disposal facility could be in-house or Common Authorized Facility. \*Hazardous Waste Examples

* + Paint Sludge, ETP Sludge, etc, While summing up total quantity of waste, please convert volume of liquid wastes to mass (MT) using Specific Gravity value for that waste.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT | 135 | 135 | 135 |
| Actual | MT | 86.45 | 88.33 | 83.35 |

1. Quantity of hazardous waste\* which was re-cycled or re-processed through Authorized Re-cyclers / Re-processors (MT)

\*Examples - Paint Sludge converted to Secondary Paint/Primer, dirty thinner converted to re-cycled thinner. While summing up total quantity of waste, please convert volume of liquid wastes to mass

(MT) using Specific Gravity value for that waste..

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT | 190 | 190 | 190 |
| Actual | MT | 140.06 | 144.54 | 101.38 |

1. Quantity of Nonhazardous waste\* generated which was disposed off in landfill or incinerated, Reused/ Recycled (MT)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT | 283 | 283 | 283 |
| Actual | MT | 221 | 222 | 250 |

1. Please indicate the Specific Hazardous Waste Generation - amount of waste generated per unit of Output (MT/unit product)

Notes: \*You can submit Plant level or Company level data (text is allowed). \* Use MT as standard unit for waste and suitable standard unit for your product output such as MT of material manufactured / processed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | MT/MT |  |  |  |
| Actual | MT/MT |  |  |  |

1. Target for Non hazardous waste\* generated which shall be disposed off in landfill or incinerated, Reused/ Recycled (MT) for next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | MT/MT | 283 | 283 | 283 |

1. Target for hazardous waste\* generated which was disposed off in landfill or incinerated (MT) for next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | MT/MT | 135 | 135 | 135 |

1. Target for hazardous waste\* which was re-cycled or re-processed through Authorized Re-cyclers / Re-processors (MT) next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | MT/MT | 190 | 190 | 190 |

1. Please indicate the Specific Hazardous Waste Generation - amount of waste generated per unit of Output (MT/unit product) Target for next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | MT/MT | 190 | 190 | 190 |

Emissions to Air - Please report the calculated mass emissions\* (annual average) to air of significant air pollutants.



Response to this question is optional.\* Mass Emissions to be calculated using the annual average values of stack emission quality measurements and the calculated exhaust volume. Mass balance methods are also acceptable.

1. Particulate Matter (TPM)

Absolute quantity of mass emissions calculated in MT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | mg/Nm3 | 150 | 150 | 150 |
| Actual | mg/Nm3 | 21 | 14.9 | 22.7 |

1. Gaseous Emissions (Sulphur dioxide, Oxides of Nitrogen, Acid Mist, etc) FY 13-14

Absolute quantity of mass emissions calculated in MT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | mg/Nm3 | 4532 kg/d | 4532 kg/d | 14.4 kg/d |
| Actual | mg/Nm3 | 3.02 kg/d | 1.33 kg/d | 3.09 kg/d |

1. Hazardous Air Pollutants (Volatile Organic Compounds - VOC's, process specific emissions, etc)

Absolute quantity of mass emissions calculated in MT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | mg/Nm3 | NA | NA | NA |
| Actual | mg/Nm3 | NA | NA | NA |

Resource Consumption Efficiency



1. Please provide specific material consumption data which is unique to your process in Mass (MT) of raw material per unit of product manufactured. This can be restricted to 1 or 2 key raw materials

Example - \* MT of steel consumed per MT of sheet metal components manufactured; Example - \* MT of Indirect Material (pigment, solvent, ) consumed per MT of paint manufactured etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | mg/Nm3 |  |  |  |
| Actual | mg/Nm3 |  |  |  |

Green House Gas



1. Inventory of greenhouse gas-scope 1 &2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | TCO2e |  |  |  |
| Actual | TCO2e |  |  |  |

1. Please indicate the amount of CO2 emitted for per ton of production

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2013-14 | 2014-15 | 2015-16 |
| Target | TCO2e/MT |  |  |  |
| Actual | TCO2e/MT |  |  |  |

1. Please indicate the target for amount of CO2 emitted for per ton of production for next 3 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Units | 2016-17 | 2017-18 | 2018-19 |
| Target | TCO2e/MT |  |  |  |