



Independent Sustainability Assurance Statement



Assurance of Select Sustainability Non-Financial Disclosures

For

Reporting Period:

April 01, 2022 – March 31, 2023



Bureau Veritas (India) Private Limited

72 Business Park, 9th Floor, MIDC Cross Road 'C', Opp. SEEPZ Gate #2,
Andheri (East) Mumbai-400 093 India.



Reference No. - 18441726/2023

Introduction and objectives of work:

BUREAU VERITAS has been engaged by JSW Infrastructure Limited (hereinafter abbreviated as “**JSWIL**”) to conduct Limited Assurance on “**Select Non-financial Sustainability Disclosures**” of the JSW INFRA Integrated Report for the reporting period from 01.04.2022 to 31.03.2023. This assurance statement applies to the related information included within the scope of work described below.

The selection of reporting criteria, reporting period, reporting boundary, monitoring and measurement of data, preparation, and presentation of information in the Sustainability data sheets and the Sustainability KPI's FY 23 document of “JSWIL” for the assurance on “select non-financial sustainability disclosures” of Integrated Report are the sole responsibility of the management of “JSWIL”. Bureau Veritas was not involved in the drafting or preparation of the said sustainability data sheets of “JSWIL”. Our sole responsibility was to provide independent assurance on those select disclosures. .

Intended user

The assurance statement is made for “JSWIL” and users of JSWIL’s Integrated Report and is made solely for them as per the governing contractual terms and conditions of the assurance engagement contract between “JSWIL” and Bureau Veritas. To the extent that the law permits, we owe no responsibility and do not accept any liability to any other party other than “JSWIL” for the work we have performed for this assurance report or for our conclusions stated in the paragraphs below.

Scope of work

The scope of work included:

- ✚ Checking that the data and information included in the above referred Sustainability data sheets of “JSWIL” and the Sustainability KPI's FY 23 document for the reporting period from 01.04.2022 to 31.03.2023 was fairly presented without material misrepresentation.
- ✚ Appropriateness and robustness of underlying reporting systems and processes, used to collect, analyze, and review the information reported.

Reporting criteria:

The International Framework (January 2021), Global Reporting Initiative (GRI) Standards, Greenhouse Gas (GHG) Protocol & National Guidelines on Responsible Business Conduct (NGRC).

Reporting period: 01/04/2022 to 31/03/2023





Assurance standard: The assurance process was conducted in line with the requirements of the ISAE 3410 International Standard on Assurance Engagements for Greenhouse Gas Statements & ISAE 3000 (Revised) International Standard for Assurance Engagements Other than Audits or Reviews of Historical Financial Information for other sustainability parameters.

Level of assurance:

The assurance process was conducted with a view to be able to provide a Limited level of assurance. *(The level of assurance obtained in work performed in a limited assurance engagement is lower than for a reasonable assurance engagement but is higher than no assurance).*

Methodology used to conduct the assurance:

JSWIL initially submitted the Sustainability data sheets for the chosen locations which are within the reporting boundaries for this reporting period and also the Sustainability KPI's FY 23 document.

The reporting boundaries considered for this reporting period are as follows:

Site I: JSW Dharamtar Port Limited, At: Dharamtar, Post: Dolvi, Taluka – Pen, District Raigad
402107, Maharashtra.

Site II: South West Port Limited, Office Building, Berth no. 5A / 6A, Harbour, Mormugao 40803- Goa

Site III: JSW Jaigarh Port Limited, Jaigad, Taluka & District – Ratnagiri. Pin - 415614, Maharashtra.

Site IV: JSW Paradip Terminal Limited, SS2 Admin Building, Near PPT, Gate No. 1, Nehru Bangalow Road, Near Marine Police Station, Paradip, Jagatsinghpur 754142. Odisha.

Site V: Ennore Coal Terminal Limited and Ennore Bulk Terminal Pvt Ltd, SF No. 143, Puzhidhivakkam village, Vallur Post, Ponneri Taluk, Thiruvallur District – 600120.

Site VI: Mangalore Coal Terminal Limited, Berth No. 16, New Mangalore Port trust, Penambur, Mangalore – 575010.

Site VII: JSW Mangalore Container Terminal Limited, New Mangalore Port trust, Penambur, Mangalore – 575010.

Site VIII: Paradip East Quay Coal Terminal Limited, Paradip, Jagatsinghpur 754142 Odisha.





Bureau Veritas conducted site visits in both, physical as well as online modes, as described in the following table:

| Site Name | Site visit date |
|---|-------------------------------------|
| Site I: JSW Dharamtar Port Private Limited | 8 th May 2023 (On-site) |
| Site II: JSW South West Port Limited, Goa | 11 th May 2023 (On-site) |
| Site III: JSW Jaigarh Port Ltd. | 9 th May 2023 (On-site) |
| Site IV & VIII: JSW Paradip Port, Iron Ore and EQ Terminals | 15 th May 2023 (Remote) |
| Site V: Ennore Coal & Bulk Terminals | 16 th May 2023 (Remote) |
| Site VI & VII: Mangalore Container and Coal Terminal Pvt Ltd. | 12 th May 2023 (Remote) |

The assessment, of the submitted information was carried out based on a sampling exercise, to verify the data and computations that were prepared by JSWIL. The physical site visits as well as the remote assessment was conducted by the assessment team.

The assessment was carried out only for the following parameters that have been considered by JSWIL for the sustainability reporting in the Integrated Report for FY 23:

- ✦ GHG emissions and emission intensity (Scope 1,2 & 3) [kg CO₂e/tons of cargo handled (tch)]
- ✦ Energy consumption (Electricity) (kJ/tch)
- ✦ Energy consumption (Fossil fuel) in mobile and stationary equipment (kJ/tch)
- ✦ Renewable energy (MW)
- ✦ Fresh water consumption (m³/tch)
- ✦ Waste generation (kg/tch)
- ✦ Waste Recycled / utilized (% of waste generated)
- ✦ Fugitive emissions (Work zone dust) (µg/Nm³)
- ✦ Diversity & Inclusivity (% of female workforce)
- ✦ Biodiversity (No. of species)
- ✦ CSR Activities
- ✦ Occupational Health & Safety (OHS) accident data
- ✦ Total cargo handled (tons)





The data values for all the above-mentioned parameters were verified by Bureau Veritas through an auditing process based on sampling of data records. Sampling was conducted by considering the contribution of the individual parameter to the overall organizational sustainability levels. A separate verification checklist was also utilized during the assessment.

Bureau Veritas has validated the quantification methodology used by JSWIL for the monitoring and calculations of the sustainability parameters from its different sources and confirms the same to be in line with accepted practice of standard GHG computations. The materiality threshold of 5% has been considered in this assessment process.

The emission factor values used in the calculation of emissions from purchased grid electricity is considered from Version 18 of the Central Electricity Authority CDM CO₂ Baseline database. The emission factor for acetylene is sourced from 'The Climate Registry General Reporting Protocol v 1.1, 2008.

The conversion factors used for diesel consumption values have been considered from the IPCC 2006 database. The GWP values have been considered from the IPCC Assessment Report 6 (AR6). Bureau Veritas has validated that the emission factor as well as the conversion factor values chosen by JSWIL are from reliable and acceptable sources and correct values are taken.

The details of the breakdown of data were verified by Bureau Veritas during the physical as well as remote office assessment conducted to verify the data. Samples of data were verified during the audit to confirm the correctness of values considered in the calculations.

The activity data values used in the sustainability parameter calculations can be regarded as conservatively considered.

JSWIL has reported, and Bureau Veritas has verified and assured the following data parameters for the IR of FY 23 with reference to the following GRI Standards viz: 302-1, 303-3 (2018), 304-1 (2016), 305-1, 305-2, 305-3, 305-6, 305-7 (2016), 306 (2020), 403-9 & 10 (2018), 405-1 (2016) & 413-1 (2016).



PART A

| Parameter | UOM | Site I Dharamtar | Site II Goa | Site III Jaigarh | Site IV Paradip Iron Ore | Site V Ennore Coal &Bulk | Site VII Mangalore coal |
|--|-----------------------|---------------------|----------------|---------------------|--------------------------------|-----------------------------------|-------------------------------|
| CO2 emissions intensity (Scope 1 & 2 only) | kg CO2e/tch | 0.52 | 1.27 | 1.34 | 1.23 | 1.50 | 1.21 |
| Energy Consumption Intensity (Electricity) | KJ/tch | 2026 | 5045 | 3840 | 5344 | 5636 | 5083 |
| Energy Consumption Intensity (Fossil fuel) | KJ/tch | 904 | 1810 | 6411 | 00 | 3140 | 906 |
| Renewable energy | MWh | 00 | 00 | 00 | 00 | 799 | 00 |
| Fresh water consumption | m ³ /tch | 0.00232 | 0.00226 | 0.01031 | 0.00479 | 0.00099 | 0.00072 |
| Waste generation | kg/tch | 0.00716 | 0.09712 | 0.02274 | 0.02710 | 0.00127 | 0.00061 |
| Waste Recycled/ utilized | % of waste generated | 00 | 82.85 | 96.36 | 100 | 00 | 124.34 |
| Fugitive emissions (Work zone dust) | µg/Nm ³ | 47.94 | 69.92 | 41.05 | 83.90 | 57.56 | 51.91 |
| Diversity & Inclusivity | % of female workforce | 5 | 3 | 6 | 2 | 1 | 2 |
| Biodiversity | No. of species | 55 | 30 | 107 | 29 | 19 | 35 |
| Total cargo handled (tch) | MT | 23940376 | 7063686 | 33784133 | 9494155 | 10593412 | 4454294 |

Apart from the above verified data, the assessment team also cross-checked, on a sampling basis, the reported data of Occupational Health, and Safety (OHS) statistics for all the 08 sites, which are under the assessment scope. It was indicated that the OHS data of other sites that are not part of this assurance activity may also be presented in the IR. The assessment team states that the data verification and assurance is carried out only for the 08 sites covered under the reporting boundary for this engagement and not to any other site that may have been presented in the Integrated Report.

The following are the assured data verified for OHS statistics.

| Parameter | UOM | Site I Dharamtar | Site II Goa | Site III Jaigarh | Site IV&VIII Paradip Iron Ore &Coal | Site V Ennore Coal &Bulk | Site VI & VII Mangalore Coal & Container |
|---|------|---------------------|----------------|---------------------|---|-----------------------------------|---|
| Fatalities | Nos. | 00 | 00 | 00 | 00 | 00 | 00 |
| LTI | Nos. | 00 | 00 | 00 | 00 | 01 | 00 |
| LTIFR | | 00 | 00 | 00 | 00 | 1.9 | 00 |
| Severity Rate | | 00 | 58.6 | 00 | 00 | 7.84 | 00 |
| Non-reportable incidents | Nos. | 4 | 7 | 17 | 31 | 4 | 5 |
| Near-miss incidents | Nos. | 193 | 306 | 438 | 42 | 69 | 21 |
| Safety Observations (nos.) | Nos. | 5361 | 4315 | 9840 | 4795 | 11697 | 2404 |
| Planned inspections and audits | Nos. | 86 | 36 | 62 | 310 | 124 | 21 |
| % of corrective / preventive actions closed from planned inspections / audits | % | 100 | 92 | 50 | 95 | 92 | 90.5 |
| High Potential Incidents | Nos. | 0 | 0 | 0 | 3 | 1 | 0 |
| Regulatory Inspections | Nos. | 0 | 1 | 0 | 0 | 2 | 0 |
| Notices of non-compliance / show causes received from regulators | Nos. | 0 | 0 | 0 | 0 | 0 | 0 |

PART B (Mangalore Container, Paradip Coal Terminals)

| Parameter | UOM | Site VI Mangalore Container | Site VIII Paradip Coal EQCTPL |
|-------------------------------------|--------------------------|--------------------------------|-------------------------------------|
| CO2 emissions (Scope 1 & 2 only) | kg CO2e/tch | 1.56 | 1.54 |
| Energy Intensity (Electricity) | KJ/tch | 4675 | 6822 |
| Energy Intensity (Fossil fuel) | KJ/tch | 6828 | 11 |
| Renewable energy | MWh | 00 | 00 |
| Fresh water consumption | m ³ /tch | 0.00035 | 0.00378 |
| Waste generation | kg/tch | 0.00352 | 0.02139 |
| Waste Recycled/ utilized | % of waste generated | 43 | 100 |
| Fugitive emissions (Work zone dust) | µg/Nm ³ | 46.55 | 83.90 |
| Diversity & Inclusivity | % of female workforce | 0 | 4 |
| Biodiversity | No. of species | 16 | 29 |
| Total cargo handled (tch) | MT | 21,70,079 | 1,20,28,203 |





PART C (Scope -3 Emissions)

| Category No. | Name | tCO2e | Percentage (%) |
|--------------|--|--------------|----------------|
| 1 | Purchased Goods and Services | 11109 | 21.4 |
| 2 | Capital Goods | 3696 | 7.1 |
| 3 | Fuel and Energy | 31212 | 60.1 |
| 4 | Upstream Transportation and Distribution | 1128 | 2.2 |
| 5 | Waste Generated | 3622 | 7.0 |
| 6 | Business Travel | 835 | 1.6 |
| 7 | Employee Commute | 298 | 0.6 |
| Total | | 51901 | 100 |

The assessment team also verified the various CSR activities undertaken by the different sites, under the scope of this assessment, and found the information satisfactory.

| Particulars | INR (Crores) |
|---------------------------|--------------|
| Turnover for the FY 22-23 | 3195 |
| Amount spent on CSR | 9.35 |

Our work was conducted against the requirements of ISAE 3410 for GHG, ISAE 3000 (Revised) for other parameters and Bureau Veritas' standard procedures and guidelines for external assurance of sustainability information, based on current best practice in independent assurance.

The Bureau Veritas assurance process has also involved an Independent Technical Review (ITR) to check for correctness and accuracy of the assurance conclusions as well as adherence to Bureau Veritas internal procedures and/or assurance standard requirements.





Our Conclusion:

Based on our methodology and the activities described above, it is our opinion that the Sustainability data sheets and the Sustainability KPI's FY 23 document of "JSWIL" containing its reporting and declaration of the sustainability parameters from the operations within the reporting boundary and the reporting period, as described above, is prepared in all material respects in line with the applicable criteria here before stated.

Limitations and Exclusions:

Excluded from the scope of our work is any assurance of information relating to:

- ✚ Activities outside the defined assurance period stated hereinabove.
- ✚ Our assurance does not extend to the activities and operations of "JSWIL" outside of the scope and geographical boundaries mentioned in this report as well as the operations undertaken by any other entity that may be associated with or have a business relationship with "JSWIL".
- ✚ Our assurance of the sustainability parameters covers only those parameter and sites, that have been described in the above tables.

This independent statement should not be relied upon to detect all errors, omissions or misstatements that may exist within the Sustainability calculation data sheets and the Sustainability KPI FY 23 document.

Uncertainty: The reliability of assurance is subject to uncertainty(ies) that are inherent in the assurance process. Uncertainties stem from limitations in the GHG quantification model, emission factors used or may be present in the estimation of data used to arrive at results of GHG emission values. Our conclusions in respect of this assurance are naturally subject to any inherent uncertainty(ies) involved in the assurance process.





Statement of independence, impartiality, and competence

Bureau Veritas is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with almost 190 years history in providing independent assurance services.

Bureau Veritas has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities. We are particularly vigilant in the prevention of conflicts of interest. No member of the assurance team has a business relationship with "JSWIL", its Directors, Managers or officials beyond that required of this assignment. We have conducted this verification independently and there has been no conflict of interest.

The assurance team has extensive experience in conducting assurance over environmental, social, ethical and health & safety information, systems and processes an excellent understanding of Bureau Veritas standard methodology for the Assurance of Integrated Reporting.

Lead Assurer - Mr. Bholenath Vishwakarma

Team Member – Ms. Khushboo Valia

Technical Reviewer

Place: Mumbai, India

Bureau Veritas (India) Private Limited

72 Business Park, 9th Floor, MIDC Cross Road 'C', Opp.
SEEPZ Gate #2, Andheri (East) Mumbai-400 093 India.

