

# PROJECT REVIEW REPORT

This project review report includes findings raised during Verra's review of the project specified below. The VVB must address the findings before the project request can be considered for approval by Verra. The project review report will be made publicly available on the Verra Registry. Confidential information may be provided in separate attachments.

<b>Project ID</b>	2093
<b>Project Name</b>	Waste To Energy Projects by Mahindra Waste to Energy Solutions Limited
<b>Review Type</b>	Verification Approval
<b>Program(s)</b>	VCS Program
<b>Verification Period</b>	01 Jan 2022 – 30 Nov 2023
<b>Project Proponent</b>	Mahindra Waste to Energy Solutions Ltd.
<b>Methodology</b>	ACM0022, version 02.0
<b>VVB</b>	TÜV SÜD South Asia Pvt.Ltd.
<b>Assessment Criteria</b>	VCS Standard, v4.7
<b>Date of First Issue</b>	[20 January 2025]
<b>Review Conclusion</b>	[Approved]
<b>Date of Final Issue</b>	[19 September 2025]

## FINDINGS

#	Finding Description	VVB Response	Status
<b>1.</b>	<b>Reporting of SDGs</b>		
	<p><u>Issue</u></p> <ol style="list-style-type: none"> <li>In Table 1 in Section 1.12, it is reported that COVID PPE kits were distributed by the PP under the project activity for SDG 3.8. It is not clear how this is directly attributable to the type of project activity.</li> <li>For SDG 8.6, the proportion of youth not in education is designed to increase.</li> </ol> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>The VVB must ensure the PP includes details of how the COVID PPE kits are attributable to the instances under the project activity for SDG target 3.8.</li> <li>The VVB shall ensure the MR is corrected to be consistent with the SDG target 8.6.</li> <li>The VVB shall update the relevant sections of the verification report as needed.</li> </ol> <p><u>Program Rule(s)</u></p> <p>VCS Monitoring Report Template, version 4.3, Sections 1.12                      VCS Verification Report Template, version 4.3, Sections 4.1                      VCS Standard v4.7, Section 3.17</p>	<p><b>Round 1</b></p> <p><u>VVB Response</u></p> <p>PP has removed the SDG 3.8 as it was found not relevant to the project and introduced new SDG 11.6.1. The outcome of the project activity is directly contributing the SDG 11 by managing the solid waste generated by the cities. Verification team has found the SDG 11 is appropriately defined and found relevant to the project activity.</p> <p>PP has removed the SDG 8.6 as it was found not relevant to the project and introduced new SDG 7.2.1. The outcome of the project activity is directly contributing the SDG 7 by producing biogas and further utilized for bio-CNG application. Verification team has found that the SDG 7.2.1 is appropriately defined as biogas is generated from solid waste through anaerobic digestion process and it is renewable fuel and hence it improves the reliance on clean fuels.</p> <p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>The SDG 3.8 has been deleted and replaced by the relevant SDG 11 and indicator 11.6.1. The value is consistent with the spreadsheet</li> <li>The SDG 8.6 has been deleted and replaced with the SDG 7, representing the quantity of CNG produced under the project activity. The values are consistent with the spreadsheet</li> </ol>	Closed
<b>2.</b>	<b>Assessment of the Project Description Deviations</b>		
	<p><u>Issue</u></p> <ol style="list-style-type: none"> <li>The Deviation 6 described in Section 3.2.2 was not considered in the first and second monitoring periods. Given the impact of the value in the emission reduction calculations (<math>PE_{EC,y} = (178 * 1.02 * 0.83) 151 \text{ tCO}_2\text{e} + PE_{EC,y}</math></li> </ol>	<p><b>Round 1</b></p> <p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>Verification team has checked the section 5.4 of MR. It was found that PP has transparently documented the values <math>Q_{CH_4}</math> for previous monitoring period. Based on proposed</li> </ol>	Closed

<p>= 421 tCO<sub>2</sub> equivalent the VVB does not give sufficient assessment of the impact of the change in the value of <math>F_{EC, default}</math>.</p> <ol style="list-style-type: none"> <li>The registered Joint PD-MR does not include baseline emissions from composting in line with the applied methodology. No composting equipment are included in Section 1.11 of the Joint PD-MR. Similarly, no project emissions from composting are anticipated in Section 4.2 of the same document. For the Deviation 7, equation 1 of the applied methodology ACM0022 and Section 4.1 of the Joint PD-MR do not include provisions for calculation of baseline emissions from composting, and the same is not included in the GHGs included in the project boundary in Section 3.3 of the Joint PD-MR. Further, the VVB does not assess the Deviation 7 in Section 3.2 of the verification report in line with Section 3.20 of the VCS Standard v4.7</li> <li>Section 4.2 of the Joint PD-MR does not include provisions for estimating <math>PE_{FC,y}</math> from composting per equation 4 of the CDM TOOL 13, and only considers provisions of the CDM TOOL 03. However, the same is applied in the calculations and no deviation is proposed.</li> </ol> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>The VVB must ensure the proposed Deviation 6 includes the impact of the error on ERs for the first and second monitoring periods. Further, the VVB shall include an assessment of the impact of the error on the ex-post <math>PE_{EC,y}</math> emissions for the first and second monitoring periods, and to document the steps taken to account for the estimated <b>572 tCO<sub>2</sub>e</b> over-issued emission reduction units.</li> <li>The VVB shall ensure that Deviation 7 is sufficiently assessed in line with the VCS Standard. Further, the VVB is required to explain how it validated and verified the composting component for this MPIII monitoring period.</li> <li>The VVB shall explain how it validated that application of</li> </ol>	<p>clarification 6, PP has evaluated the project emission from the electricity for all the sites for the previous monitoring periods. The values and calculations are accurate. Total overestimation is found to be 542 tCO<sub>2</sub>e. PP has adjusted the overestimation from the current monitoring period Emission reduction. This error has been included and verified by the verification team in the section 5.2 of verification report.</p> <ol style="list-style-type: none"> <li>PP has defined baseline based on avoidance of methane by utilizing the waste to generate biogas through anaerobic digester and/or composting which was previously ended up in the landfill. PP has used the tool 04, V8.0 correctly to determine the baseline emission. So irrespective of utilization of waste either for biogas generation thorough AD or composting of waste, baseline is the avoidance emission from solid waste disposal site. Hence baseline calculation equation 1 of tool 04, V8.0 has been correctly and consistently applied. Moreover, in In Section 1.11 of the Joint PD-MR the composting equipment are already mentioned please refer S. No. 13 (Earth Mover) ,14 (shredder machine) 15 (Compost Sieving machine) and 24 (Compost platform) of List of equipment which are used for composting. VVB has included the deviation 7 in the verification report and assessed deviation inclusion. It was found that the PP has correctly applied the deviation 7 and VVB assessment is included in in section 3.2 of verification report.</li> <li>VVB has assessed that Tool 13, section 6.1.3. Determination of project emissions from fossil fuel consumption (<math>PE_{FC,y}</math>) is providing two options as per section 6.1.3.1. Option 1: Procedure using monitored data and <math>PE_{FC,y}</math> shall be calculated using the latest approved version of the “Tool to calculate project or leakage CO<sub>2</sub> emissions from fossil fuel combustion”, where the project emission source j referred to in the tool is composting and 6.1.3.2. Option 2: Procedure using a default value where equitation 4 is applicable so in</li> </ol>	
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<p>equation 4 of the CDM Methodological TOOL 13 does not amount to a project deviation.</p> <p><u>Program Rule(s)</u>  <i>VCS Monitoring Report Template, version 4.3, Sections 3.2.2</i>  <i>VCS Verification Report Template, version 4.3, Sections 3.2</i>  <i>VCS Standard v4.7, Section 3.20</i></p>	<p>this case option 2 is opted for calculations. PP has included deviation 7 which sufficiently demonstrates the relevant parameters and associated emission with reference to tool 13 V2.0 and therefore new deviation is not proposed</p>	
	<p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>1. Section 5.4 has been adjusted for <math>PE_{EC,y}</math> and <math>LE_{storage,y}</math>, taking into account the error in the first and second monitoring periods</li> <li>2. Baseline emissions from composting are not considered in the Joint PD-MR as per the meth. In Section 6.3 of the Joint PD-MR, <math>PE_{COM,y}</math> is not expected, which contravenes para. 66 of the methodology when composting takes place. The deviation rightly does not include baseline equations applied for composting (<math>BE_{COMP,y}</math>), but does not consider <math>PE_{COMP,y}</math>. The VVB shall ensure the methodology applicability for composting, additionality are all assessed in line with the VCS Standard requirements. Further, equations related to <math>PE_{COMP,y}</math> and associated parameters shall be included</li> <li>3. Similar as above, no composting in the baseline and project calculations are considered. The measurement of <math>PE_{FC,y}</math> from composting shall be assessed in line with the applied methodology and the tool if composting takes place</li> </ol> <p>The finding remains open</p>	
	<p><b>Round 2</b></p> <p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>2. The verification team has reviewed revised MR V9.0. It has been found that in deviation 7, PP has included all the relevant information to composting baseline, applicable tool and equations. Based on the information provided in MR v9.0, the verification team has concluded that it meets the required applicability condition and does not affect the additionality.</li> <li>3. Similar to above response, PP has documented the <math>PE_{comp,y}</math> in which equation for <math>PE_{FC,y}</math> has been included as per tool 13 v2.0. The verification team has checked the completeness and accuracy</li> </ol>	

		<p>of the information provided by PP. It has been concluded that the PP has incorporated all the information under deviation 7 and justified all the emission associated composting. Moreover, it has also been confirmed that the inclusion of composting does not affect the additionality.</p>	
		<p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>1. Applicability condition for composting has been included and all the relevant equations and parameters (fixed) which were omitted in the registered JPD-MR. However, it is noted that no project emissions from composting were accounted for in the first verification of the project activity. The VVB shall ensure the PP updates the MR deviation with a detailed analysis of the impact, the steps taken to adjust the subsequent emission reductions, and include the assessment in the verification report.</li> <li>2. Equation for <math>PE_{FC,y}</math> has been added in line with equation 4 of the CDM TOOL 13 v2.0</li> </ol>	
		<p><b>Round 3</b></p>	
		<p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>1. The verification team has checked that the PP has included the impact of <math>PE_{comp}</math> to the previous monitoring period. The adjustment of error is duly incorporated in the MR and in the verification report. The error is evaluated correctly based on the waste composted in MP1 and MP2.  The verification team has reviewed the deviation 7 again and found that all the information are complete and relevant. So the total error adjustment including the <math>PE_{comp}</math> applicable to previous monitoring period = 3,704 tCO<sub>2e</sub>.</li> </ol>	
		<p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>1. The adjustment is confirmed. The VVB shall ensure that as part of the deviation, all CDMT00L 13 procedures and choices are included in Section 3.2.2 of the MR. This includes but not limited to Options for measuring <math>Q_y</math>, <math>PE_{FC,y}</math>, <math>EF_{CH4,y}</math>, <math>EF_{N2O,y}</math>, <math>EC_{PJ,comp,y}</math>, and <math>CT_{t,y}</math> (if applicable). The VVB shall include more</li> </ol>	

		<p>details of the deviation and adjustments in the final verification report.</p> <ol style="list-style-type: none"> <li>The VVB shall raise an appropriate FAR for each verification during the current crediting period to ensure the verifying VVB is able to check and ensure <math>PE_{COMP,y}</math> is accounted for as a permanent deviation from the registered PD.</li> <li>Project emissions have been adjusted accordingly and assessed as such. However, the spreadsheet does not indicate how the likely over issuance for <math>BE_{CH4,y}</math> in the first monitoring period (at joint registration &amp; verification) for deviation 4 which was based on <math>DOC_j = 0.9</math> has been adjusted before, or in the current monitoring period.</li> </ol>	
		<p><b>Round 4</b></p>	
		<p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>The verifier has checked the revised MR V12.0 and it has been confirmed that PP has included all the parameters not only <math>Q_y</math>, <math>PE_{FC,y}</math>, <math>EF_{CH4,y}</math>, <math>EF_{N2O,y}</math>, <math>EC_{PJ,comp,y}</math>, and <math>CT_{t,y}</math> wherever applicable and documented the justification for the same. VVB has also included the relevant information in the verification report too as per CDM tool 13.</li> <li>FAR has been revised and discussed in detail for <math>PE_{comp,y}</math>.</li> <li>PP has included the error part of <math>DOC_{f,y}</math> relevant to deviation 4 which was previously missed by PP. The verification team has checked the completeness of error adjustment due to <math>DOC_{f,y}</math> in the spreadsheet and in the MR V12.0 and the new baseline emission for MP1 is 7,202 tCO<sub>2</sub>e instead of 12,963 tCO<sub>2</sub>e. VVB, hence confirmed that PP has appropriately included error part from MP1 and subtracted the emission reduction from this current monitoring period.</li> </ol>	
		<p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>The parameters related to project emissions from composting are now included in the VCS MR and VCS VR. <math>CT_{t,y}</math> is not monitored as Option 1 of the CDM TOOL 13 is applied</li> </ol>	

		<p>2. FAR 01 has been modified accordingly</p> <p>3. The errors adjustment has been applied and the ERs claimed during this MPIII are reduced by 5,761 tCO<sub>2</sub>e to 13,624 tCO<sub>2</sub>e.</p>	
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<b>3. Benefit Sharing</b>				
	<p><u>Issue</u></p> <p>As per the Joint PD/MR, fresh waste will be collected from door-to-door on a daily basis. The details of the agreements between the local authorities mandated to collect and dispose municipal waste and any agreement with households, if any, are not included.</p> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>The VVB shall ensure the PP has updated Section 2.3.5 of the MR with any details of agreements between the local authorities and the households.</li> <li>The VVB shall ensure that Section 4.2.7.5 of the Verification Report is updated accordingly.</li> </ol> <p><u>Program Rule(s)</u></p> <p>VCS Monitoring Report Template, version 4.3, Sections 2.3.5 VCS Verification Report Template, version 4.3, Sections 4.2.7.5</p>	<b>Round 1</b>		
		<p><u>VVB Response</u></p> <p>It has been found that the waste is collected from door-to-door on a daily basis by local authorities and PP has agreement/ contract with local authorities, so the collected waste is treated by PP. The PP has provided agreement for Pidugurala, Adoni, Tirupati and Aurangabad location which demonstrate that the waste collected by respective urban local bodies is supplied to the PP for further treatment and to avoid landfilling activity. These agreements do not discuss about benefit sharing clause. The same documents have been mentioned in the appendix 4 of VR.</p>		Closed
		<p><u>Verra Response</u></p> <p>The VVB has confirmed the existence of the agreements between the PP and the local authorities on the treatment of the waste and update Appendix 4 of the verification report with the reference source.</p>		

<b>4. Fixed Parameters</b>				
	<p><u>Issue</u></p> <ol style="list-style-type: none"> <li>In Section 4.1, there are additional parameters <math>FE_{c,default}</math>, <math>EF_{FC,default}</math>, <math>EF_{N2O,default}</math>, <math>SEC_{comp,default}</math>, <math>GWP_{N2O}</math> and <math>TDL_{j,y}</math> relative to the approved and registered Joint VCS PD-MR. No VVB assessment of the deviation in parameters in addition to the proposed Deviation 7.</li> </ol>	<b>Round 1</b>		
		<p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>VVB has included the assessment for the parameters applicable for the calculation of project emission from composting in verification. PP has correctly applied the values of <math>FE_{c,default}</math>, <math>EF_{FC,default}</math>, <math>EF_{N2O,default}</math>, <math>SEC_{comp,default}</math>, <math>GWP_{N2O}</math> and <math>TDL_{j,y}</math> and evaluated the emission associated with composting. Deviation 7 demonstrate the project emission</li> </ol>		Closed

	<p>2. No VVB assessment in the fixed parameters Table 18 to Table 23 of the MR in Section 4.3 of the Verification Report.</p> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>The VVB shall assess any deviations in line with the VCS Standard</li> <li>The VVB shall ensure the Section 4.3 of the VR is corrected with updated assessment and information on the fixed parameters introduced during this third verification.</li> </ol> <p><u>Program Rule(s)</u>  <i>VCS Monitoring Report Template, version 4.3, Sections 4.1</i>  <i>VCS Verification Report Template, version 4.3, Sections 4.1</i>  <i>VCS Standard v4.7, Section 3.20</i></p>	<p>from composting activity and all the calculation has been carried out using tool 13 v2.0 which is correct approach.</p> <ol style="list-style-type: none"> <li>VVB has included the assessment of all the fixed ex-ante parameter in section 4.3 of VR as discussed above,</li> </ol> <p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>The parameters are correctly included in Section 4.1 of the MR and discussed under deviation 7.</li> <li>The assessment of all relevant fixed parameters are now included in Section 4.3 of the VR</li> </ol>	
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<p><b>5. Leakage Considerations</b></p>			
	<p><u>Issue</u></p> <ol style="list-style-type: none"> <li>Section 5.3 of the MR: In the diagram in Section 3.1 of the MR, the digestate is applied in agriculture. The diagram does not indicate when the solid-liquid separation happens and if the composting process utilizes the solid digestate part of the digestate after the bio-methanation process. In Section 4.4 of the VR, the VVB does not explain how it verified that the liquid digestate is not stored under anaerobic conditions (<math>LE_{AD,y} = 0</math> per CDM TOOL 14). Further, the VVB does not explain how it confirmed onsite that <math>LE_{comp,y}</math> is zero (compost not stored under anaerobic conditions).</li> <li>Further, Section 4.3 of the Joint PD-MR mentions an aerated lagoon. The VVB does not explain how it checked that the lagoon is aerated. CL 04 in the Appendix 2 does not provide sufficient assessments.</li> </ol>	<p><b>Round 1</b></p> <p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>PP has included the process flow diagram with solid liquid separation. Solid digestate is directly sold as fertilizer and liquid digestate is stored into the storage tank. The liquid digestate contains active microbial populations which are essential for biogas production, and it is recirculated back to digester which helps retain these microbes in the system. It is further utilized to improve the digester yield. However, PP has evaluated leakage emission associated with liquid digestate as per tool 14. Further, PP produces compost as per the demand. It was confirmed during onsite interviews with supervisor and plant in charge that storing the compost for longer duration affects the quality of compost. and hence it is not stored. This information is further cross-checked with the plant logbook</li> </ol>	<p>Closed</p>

<p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>1. The VVB shall ensure Sections 3.1 and 5.3 of the MR are updated with further details on the handling of the compost and the digestate to justify the exclusion of leakage emissions in line with Issue 1 above.</li> <li>2. The VVB shall reopen the finding CL 04 and provide sufficient assessments and justifications on the project leakage considerations.</li> </ol> <p><u>Program Rule(s)</u>  <i>VCS Monitoring Report Template, version 4.3, Sections 3.1 &amp; 5.3</i>  <i>VCS Verification Report Template, version 4.3, Sections 4.1</i></p>	<ol style="list-style-type: none"> <li>2. CL 04 is related to open environment curing of waste for compost making and appropriate justification has been added further in VVB assessment which state that curing is windrowing technique utilized for production of compost in open environment and the emission associated with the composting has been evaluated by PP as per tool 13, V2.0.</li> </ol> <p>PP has identified that there were no lagoons in the project activity, instead the liquid digestate is stored in the storage tank after solid liquid separation. The liquid is then recirculated again to the digester as it improves the microbial activity and improves the biogas yield. Considering the deviation PP has included the leakage emission associated with the liquid storage as per Section 6.2.1 of Methodological Tool 14: Project and Leakage Emissions from Anaerobic Digesters.</p> <p>Moreover, PP has included the effect of this deviation to previous monitoring period and the error applicable to the previous monitoring period has been adjusted in this monitoring period in section 5.4 of MR and it was also verified by the verification team.</p>	
	<p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>1. The solid liquid separation is not demonstrated in the second diagram. Further, the type of composting and the subsequent composting step is not included. The VVB must ensure the diagram is updated demonstrating the solid-liquid separation and the composting stage and the 'un-aerated lagoon' as indicated in Section 4.3 of the Joint PD-MR. Further, the VVB shall explain how it considered 'decomposing in an open environment' as in CL 04 as a type of composting and if this is sufficient to be termed 'aerobic composting' without mixing and turning similar to windrow. In Deviation 6, composting is sometimes carried out directly without bio-methanation and the diagram does not show this in the flow. The VVB shall also see to it that all figures, tables</li> </ol>	

		<p>and diagrams in the MR are labelled for easier referencing</p> <p>2. The project description deviation 8 is now included confirming the absence of a lagoon on site. However, the VVB must ensure the diagram is updated indicating digestate storage as well as the solid-liquid separation stage. Further it is not clear how long the digestate is stored and why the value selected for <math>F_{ww,CH_4,default}</math> is 0.10 for 'Covered anaerobic lagoons' if the digestate is stored in 'open tank' per the description in the deviation and the VVB assessment in Section 4.3 of the VR.</p> <p>The finding remains open</p>	
		<p><b>Round 2</b></p>	
		<p><u>VVB Response</u></p> <p>1. The second diagram provided in the MR V9.0 also demonstrate the composting and its type. The diagram sufficiently demonstrates the bio-methanation and composting along with its type including solid liquid separation at the end of bio-methanation. During this verification, it was confirmed that there is no lagoon at the site instead the slurry storage tank is there. The slurry is recirculated to the digester to improve the microbial activity. Further, decomposing in open environment was referred to windrow composting when it was raised as findings CL 04. The waste which was referred to open decomposing is windrow composting itself. Hence under deviation 7, PP has included the details of windrow composting. The details provided by PP is found to be correct and relevant.</p> <p>2. The verification team has checked the process flow diagram, and it is in line with the project description. Further value selected for <math>F_{ww,CH_4,default}</math> is 0.2 for conventional digester which is as per para 11 (b) of tool 14 definition and types of Anaerobic digester which is the type of the project digester. Hence the value is considered from Data / Parameter table 8 of Tool 14, 0.10: Covered anaerobic lagoons. Here Covered anaerobic lagoons is type of digester. The verification team has confirmed</p>	

		<p>that the information is in line with the tool 14 requirement. In addition, due the revision in <math>F_{ww,CH4,default}</math> value which has been defined in the deviation 8, the leakage emission associated with the previous monitoring period has also been adjusted in this monitoring period and verified by the verification team.</p>	
		<p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>1. The solid-liquid separation is clearly demonstrated, and windrow composting is added under the Deviation 7 per figure 3. The VVB has confirmed how this was checked and confirmed onsite that there is no ‘unaerated lagoon’.</li> <li>2. The project flow diagram is in line with the project description. The <math>F_{ww,CH4,default}</math> value has been updated to 0.2 in the spreadsheet and the revised MR</li> <li>3. In light of the above corrections and updates to the deviations, and to avoid only future references to the registered JPD-MR, the VVB shall raise an appropriate and recurrent FAR for future reference by a verifying VVB to this MP2 MR and not the Joint PD-MR in relation to <math>PE_{COMP,y}</math> and related parameters</li> </ol>	
		<p><b>Round 3</b></p>	
		<p><u>VVB Response</u></p> <p><u>3. The verification team has raised the FAR as follows</u>          “In the current verification period, PP has revised relevant the data parameter in relation to <math>PE_{COM,y}</math> under section 4 of the MR through project description deviation defined under section 3.2.2 of the MR. In light of the corrections and updates from the registered JPD-MR, the future verifying VVBs shall refer the current monitoring period MR (MP3 MR) for the relevant data parameter defined under section 4.”</p>	
		<p><u>Verra Response</u></p> <p>FAR 01 has been raised and no further action is required</p>	

<b>6.</b>	<b>Measurement Equipment for parameter <math>Q_y</math></b>		
	<u>Issue</u>	<p><b>Round 1</b></p>	
		<p><u>VVB Response</u></p>	<p>Closed</p>

<p>In the Appendix 2, only weighbridge details are provided for each instance, assumed to be for measuring fresh waste (<math>W_x</math>). No information on the measurement of the produced compost, and it is not stated if the same weighbridge is measuring the compost product.</p> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>The VVB shall ensure the details of the measurement of <math>Q_y</math> are included in the Appendix or under the specific parameter table.</li> </ol> <p><u>Program Rule(s)</u></p> <p>VCS Monitoring Report Template, version 4.3, Appendix 2 VCS Verification Report Template, version 4.3, Sections 4.3</p>	<p>PP has corrected the description under parameter <math>Q_y</math> where PP has confirmed that at all the sites same weighbridge are used as it is for <math>W_x</math>. The relevant QA/QC procedure is documented and the weighbridge details including the calibration are mentioned in the appendix 2. The information is found relevant and complete.</p>	<p>Closed</p>
	<p><u>Verra Response</u></p> <p>The produced compost is weighed by the same weighbridge. The MR and VR are now updated.</p>	
	<p><b>Round 2</b></p>	
	<p><u>VVB Response</u></p>	
	<p><u>Verra Response (Pending)</u></p>	
	<p><b>Round 3</b></p>	
	<p><u>VVB Response (Pending)</u></p>	
<p><u>Verra Response (Pending)</u></p>		

7. Emission Reduction Spreadsheet		
<p><u>Issue</u></p> <ol style="list-style-type: none"> <li>In the spreadsheet tab 'Data Sheet', inconsistencies between <math>W_x</math> input and <math>Q_y</math> and biogas produced for all instances across the monitoring period are observed. The finding CL 07 does not provide sufficient assessment of the same (e.g., what the inconsistencies are and how they were resolved).</li> <li><math>PE_{EC,y}</math>: Project emissions from electricity consumption in composting are estimated using the equation 3 of the CDM TOOL 13 and the default grid emission factor. For project emissions from electricity consumption at methanation (<math>Q_{CH_4}</math>), the equation 3 of the CDM TOOL 14 is applied. The monthly data consumption reported in the tab 'Data Sheet' is not considered.</li> </ol>	<p><b>Round 1</b></p>	<p>Closed</p>
	<p><u>VVB Response</u></p> <ol style="list-style-type: none"> <li>VVB has further justified the observation made in the plant record and the datasheet and incorporated in the CL 07 assessment. PP has correctly transferred the values from plant logbook to datasheet and it has been verified by the verification team and there is no discrepancies now.</li> <li>The monthly consumption data mentioned in the data sheet was measured using the energy meter. This meter records the consumption of all the plant and there is no bifurcation to identify the consumption relevant to different processes. In calculation too PP has chosen the default values everywhere not the measured data. The energy meter data is redundant and is of no use. Hence PP has consistently evaluated the ER using default values for electricity.</li> </ol>	

<p>3. Tab 'Project Emissions': N<sub>2</sub>O Project emissions (PEN<sub>2</sub>O) from composting are calculated per equation 7 of the CDM TOOL 13 are calculated in the table but not added in the rows 11 and 17, as part of the project emissions.</p> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>1. The VVB shall explain how it cross-checked the values, and why there is no consistent pattern between the input and outputs across the monitoring period.</li> <li>2. The VVB must clarify is the monthly electricity as reported in the spreadsheet tab 'Data Sheet' is the overall consumption, and why the monitored data appears to be redundant.</li> <li>3. The VVB shall ensure PEN<sub>2</sub>O values are included in PE<sub>y</sub> calculations in the GHG ERR spreadsheet.</li> </ol> <p><u>Program Rule(s)</u> VCS Monitoring Report Template, version 4.3, Sections 5 VCS Verification Report Template, version 4.3, Sections 4.1</p>	<p>3. PP has evaluated PE<sub>N<sub>2</sub>O</sub> correctly and same has been incorporated in the row 11 and 17. It has also been verified that PP has already included the PE<sub>N<sub>2</sub>O</sub> as per equation 7, Tool 13.</p> <p><u>Verra Response</u></p> <ol style="list-style-type: none"> <li>1. The VVB has confirmed that the values are consistent with the plant logbook as transferred by the PP.</li> <li>2. The use of the default values in the calculation of specific project emissions PE<sub>FC,y</sub> and PE<sub>EC,y</sub> is justified.</li> <li>3. PE<sub>N<sub>2</sub>O,y</sub> from composting are now included</li> </ol>	
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<p><b>8. Incomplete project diagram</b></p>		
<p><u>Issue</u> In Appendix 2, the project collects all types of municipal solid waste as per the finding CL 10 (page 64). The diagram in Section 3.1 of the MR does not provide sufficient information to demonstrate if the waste is weighed at the weighbridge before or after sorting.</p> <p><u>Action Required</u></p> <ol style="list-style-type: none"> <li>1. The VVB shall ensure that the MR is updated with a simplified flow diagram depicting all stages of the procurement, bio-methanation, composting, soil application of the digestate as well as sale of the compost.</li> </ol> <p><u>Program Rule(s)</u></p>	<p><b>Round 1</b></p> <p><u>VVB Response</u> Out of the 4 sites, Aurangabad site is collecting organic fraction as well as other types of municipal solid waste. Another 3 sites are only collecting and treating organic fraction. The plant records have been checked by the VVB. For Aurangabad site PP has provided the logbook which separately mention the organic waste which was weighed after sorting. Further VVB has checked the flow diagram which clearly demonstrate all the processes in the project activity.</p> <p><u>Verra Response</u> The VVB has confirmed that 3 sites collect only the organic fraction of waste and hence does not need any sorting. For the Aurangabad, evidence has been adduced to the VVB</p>	<p>Closed</p>

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	<i>VCS Monitoring Report Template, version 4.3, Appendix 2</i> <i>VCS Verification Report Template, version 4.3, Sections 4.1</i>	demonstrating how the sorting process is conducted and weighed after sorting. The diagram is updated	
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