### AGENDA No.16 - c:

<table>
<thead>
<tr>
<th>Name and Address of the industry</th>
<th>M/s. Apple Industries Limited, D.Hirehal Village &amp; Mandal, Anantapur District.</th>
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<tbody>
<tr>
<td>Current Status</td>
<td>The industry is in operation.</td>
</tr>
<tr>
<td>Nature of industry</td>
<td>Sponge Iron, Captive Power plant.</td>
</tr>
<tr>
<td>Consent for Operation &amp; Present status</td>
<td>The Board issued CFO &amp; HWA to the industry vide order dt: 26.03.2016 with a validity 30.11.2020 for manufacture of sponge iron – 200 TPD &amp; Ingots/Billets – 200 TPD. Subsequently the industry was issued with CFO of the Board for expansion vide order dt. 12.06.2017 with a validity upto 31.03.2022 for manufacture of Sponge Iron – 100 TPD and Captive Power generation – 10 MW.</td>
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<th>Whether the industry is closed earlier</th>
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<tr>
<td>Details of revocation of closure/stop production orders, if issued.</td>
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<td>Any unconsented products produced</td>
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<tr>
<td>Whether it is Fresh case / Old case and its Status</td>
<td>Old case.</td>
</tr>
<tr>
<td>Reasons for current review</td>
<td>Non-compliance of Consent order conditions.</td>
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<tr>
<td>Recent inspection Conducted by</td>
<td>SEE, ZO, Kurnool inspected the industry on 05.01.2019.</td>
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<tr>
<td>Bank Guarantee status</td>
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### FACTS OF CASE:


2. The industry has obtained Environmental Clearance from MoEF & CC, GoI, vide order dt: 16/10/2008 for Sponge iron Plant (3 x 100 TPD, 1,00,000 TPA) alongwith Steel Melting Shop (4 x 10 MT, 13,00,000 TPA). Also, the industry has obtained E.C vide order dated:24/12/2009 for expansion for Captive Power Plant – 10 MW, WHRB – 6MW & FBC – 4 MW) and Billets – (Induction furnace) - 2,88,000 TPA.

3. The Board issued CFO & HWA to the industry vide order dt: 26.03.2016 with a validity 30.11.2020 for manufacture of sponge iron – 200 TPD & Ingots/Billets – 200 TPD. Subsequently the industry was issued with CFO of the Board for expansion vide order dt. 12.06.2017 with a validity upto 31.03.2022 for manufacture of Sponge Iron – 100 TPD and Captive Power generation – 10 MW.

4. The SEE, ZO, Kurnool inspected the industry on 05.01.2019 and observed the followings:

- The industry has not provided energy meter for the APCE (ESP) provided to the AFBC boiler.
- The industry has not provided activation recorder to the ABC cap till now which is very much necessary in the event of non operation of power plant (WHRB Boiler).
- During inspection, fugitive emissions were observed at the transfer points, intermediate bin, kiln inlet and cooler discharge.
- The industry has not installed 2 CAAQM in the down wind direction as per the CFO stipulated condition.
- The industry has not asphalted or concreted the internal roads. Fugitive dust emissions were observed during movement of the vehicles on the roads.
- In addition to the sponge iron division, the industry is also having 02 Nos. of induction furnace of capacity 2X10 MT for manufacture of MS ingots/ Billets. The industry has not provided APCE i.e., ducting system (hood over the furnace to collect the fumes) followed by bag house and chimney of 35mts height to control dust emissions from the furnace and hence resulting in lot of fugitive emissions escaped from the hood of induction furnace.
- The Board officials have conducted stack monitoring for the common stack attached Rotary Kiln I & II & AFBC Boiler of capacity 25 TPH on 05.01.2019. As per the Analysis
reports the value of SPM of Rotary Kiln-I & II was recorded as 215 mg/Nm$^3$ & AFBC Boiler of capacity 25 TPH was recorded as 120 mg/Nm$^3$ which is exceeding the standard of 100 mg/Nm$^3$.

- Fugitive emission monitoring was conducted towards western side near the kiln at 10 meters away from the kiln and as per the analysis report, the Value of SPM is 3500 µg/M$^3$ against the standard of 2000 µg/M$^3$.

Other relevant information regarding the industry, including complaints:

a. The industry has established the Sponge iron plant with 02 Nos. DRI Kilns of 100 TPD each, MS billets plant (induction furnace division) and also Captive Power Generation (WHRB-6 MW and FBC - 4 MW). The Board issued CFO & HWA to the industry vide order dt: 26.03.2016 with a validity 30.11.2020 for manufacture of sponge iron – 200 TPD & Ingots/Billets – 200 TPD. Subsequently the industry was issued with CFO of the Board for expansion vide order dt. 12.06.2017 with a validity upto 31.03.2022 for manufacture of Sponge Iron – 100 TPD and Captive Power generation – 10 MW.

b. The industry is having 2 Nos. of rotary kilns I & II of capacity 100 TPD each, 2 Nos of Waste heat recovery of Boilers of capacity 10 TPH each and AFBC boiler of capacity 25 TPH for captive power generation. The Kiln – III permitted in the order dt. 12.06.2017 was not commissioned till now.

c. The industry has provided energy meter for all the air pollution control equipments i.e., ESPs provided to the Kilns and bag filters provided at raw material crusher, injection coal, stock house, cooler discharge and product house and one energy meter exclusively for ID fans of the kilns. The industry is maintaining records for energy consumption.

d. The industry has installed PLC interlocking system for both the kilns 1 & 2 in such a way that feeding to the kiln will be stopped in the case of tripping / stoppage of ID fan connected to ESPs.

e. The industry has provided closed shed for the storage of coal & iron ore. Iron ore fines, ESP dust & slag waste of about 600 tons was found stored openly outside the shed.

f. The industry has implemented the following measures:

   i. It has taken up greenbelt development in another 10 acres in this year with Dubai Tree Plantation mainly and other trees.

   ii. It has increased the number of sprinklers at raw material handling area, kiln area and along the approach road where vehicles are plying. The number of sprinklers were enhanced to 50 Nos. from 12 Nos.

   iii. The industry has disposed the char fines and other solid wastes stored in open area and the open storage was reduced. The industry has sold 4858 MT to M/s.Minera Steel & Power. The industry has disposed dolochar/char of 13,559 MT to M/s.PK Agarwal Industries.

   iv. When compared to the earlier inspection, the industry has improved the functioning of ESPs, the house keeping and reduced open storage of raw materials and solid wastes. It has taken up another 10 acres plantation.

   v. It was reported by the industry that they have taken up rectification measures of the ESP functioning attached to kiln and power plant.

g. It was reported by the industry that several petitions were filed in Mandal Legal Service Authority, Rayadurgam, Anantapuram District and all the petitions were disposed off delivering the order as follows:

   "Petitioner present, respondent absent, the learned counsel for R1 filed counter stating that the allegation made in PLC is baseless and not hold truth and petitioner is not entitled for any reliefs. Hence the matter not settled petition is closed. The petitioner is at a liberty to approach appropriate form to redress the grievance".

Recommendations:

a) The industry has not installed energy meter for the APCE i.e., ESP attached to AFBC boiler.
b) The industry has not provided activation recorder to the ABC cap till now which is very much necessary in the event of non operation of power plant (WHRB Boiler) to check the fugitive emissions.
c) Fugitive emissions were observed at the transfer points.
d) The entire plant area around raw material handling, kiln, product storage etc., and internal roads were covered with fine dust.
e) The industry has not provided adequate closed shed for the storage of coal & iron ore. The industry is providing another shed for additional storage of coal & iron ore.
f) A huge quantity of iron ore fines of about 600 tons was found stored openly outside the shed.

g) The industry has not asphalted or concreted the internal roads.

h) The Board officials have conducted stack monitoring for the common stack attached Rotary Kiln-I & II & AFBC Boiler of capacity 25 TPH on 05.01.2019. As per the Analysis reports the value of SPM of Rotary Kiln-I & II was recorded as 215 mg/Nm$^3$ & AFBC Boiler of capacity 25 TPH was recorded as 120 mg/Nm$^3$ which is exceeding the standard of 100 mg/Nm$^3$.

i) Fugitive emission monitoring was conducted towards western side near the kiln at 10 meters away from the kiln and as per the analysis report, the Value of SPM is 3500 µg/M$^3$ as against the standard of 2000 µg/M$^3$.

j) The industry has not provided the roof level dust extraction system for the induction furnace division till now and during inspection it was observed that the fugitive emissions were escaping through the roof of the shed.

k) The industry has installed 01 No of CAAQM station at stores building for monitoring SPM, SO$_x$, NO$_x$ and the same was not under operation. Also, the industry has not installed the 2$^{nd}$ CAAQM station in the down wind direction till now though the industry was directed to install the 2$^{nd}$CAAQM station within 4 months vide consent order dated 26.03.2016.

l) In view of the non-compliances of the directions issued by the Board, it was recommended to review the industry before EAC (TF) and initiate action under Sec.31(A) of Air Act.

**Conclusion:**

In view of the above, the External Advisory Committee is requested to discuss the issue and recommend further course of action.