



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,  
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010  
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**AMENDMENT TO THE CTE ORDER**

**Order No.253/APPCCB/CTE/RO-VJA/HO/2009**

**29/11/2022**

Sub: APPCB - CTE - **M/s. The Ramco Cements Limited., Jayanthipuram(V), Jaggayyapet (M), NTR District - Amendment to the CTE order – Issued – Reg.**

- Ref:
1. CTE (Expansion) order dt.17.10.2019.
  2. CTO order dt.02.11.2021.
  3. Industry's representation dt.17.11.2022.
  4. RO: VJA report dt.18.11.2022.
  5. CFE Committee meeting held on 22.11.2022.

M/s.The Ramco Cements Limited., vide reference 1<sup>st</sup> cited, obtained CTE (Expansion) order. The industry subsequently, vide reference 2<sup>nd</sup> cited, obtained combined Consent and Authorization order which is valid upto 31.01.2026. The validity was further extended upto 31.01.2027 by issuing amendment to CTO order, vide reference 2<sup>nd</sup> cited, wherein high calorific value hazardous waste/non-hazardous waste with quantities, as mentioned in HWM Authorization are carried out, as listed below to use as a raw material / alternate fuel for co-processing in cement kilns:

S. No.	Material	Quantity
1	Gypsum	1,80,000 TPA
2	Pet Coke (Indian or Imported) for Cement Plant	4,74,666 TPA
3	Organic Waste / residue (liquid)	1800 TPM
4	Organic Waste / residue (solid)	1800 TPM
5	Spent Carbon	1500 TPM
6	Spent Solvents	1500 TPM
7	Waste oils (Furnace oil sludge, Gear Box oil, Lube oil and Used grease)	150 TPA
8	Iron ore fines, rejects / screened / iron sludge	20,000 TPA
9	Waste Tyre / Rubber	1000 TPM
10	Municipal Waste (RDF) / Plastic waste	100 TPM
11	Agro wastes – Agro ash, Rice husk, Coir waste, Shells, Bio- compost & other wastes	41,000 TPA

The industry, vide reference 3<sup>rd</sup> cited, requested for amendment to CTE order by including the following hazardous / non-hazardous wastes with quantities, to enhance the usage of hazardous wastes in their cement kilns

S. No	Material	Quantity as per CFO order dt.02.11.2021	Quantity requested for amendment
1	Gypsum	1,80,000 TPA	1,80,000 TPA
2	Pet Coke (Indian or Imported) for Cement Plant	4,74,666 TPA	4,74,666 TPA
3	Organic Waste / residue (liquid)	1,800 TPM	21,600 TPA
4	Organic Waste / residue (solid)	1,800 TPM	36,000 TPA
5	Spent Carbon	1,500 TPM	60,000 TPA
6	Spent Solvents	1,500 TPM	18,000 TPA
7	Waste Oils (Furnace oil sludge, Gear Box Oil, Lube oil and Used Grease)	150 TPA	1,800 TPA
8	Iron ore fines, rejects / screened / iron sludge	20,000 TPA	20000 TPA
9	Waste Tyre / Rubber / Non-recyclable rubber waste from footwear industry	1,000 TPM	12,000 TPA
10	Municipal Waste (RDF) / Plastic Waste	100 TPM	1,200 TPA
11	Agro Wastes – Agro Ash, Risk Husk, Coir Waste, Shells, Bio-Compost & Other Wastes	41,000 TPA	45,000 TPA
12	Carbon Black	----	5,000 TPA
13	Paint Sludge from Automobile industries	----	2,000 TPA
14	ETP sludge from Pharma industries	----	10,000 TPA
15	ETP sludge from Refined Oil industries	----	10,000 TPA
16	ETP Sludge from Food Industries / Bulk Drug Industries / Paint Industries / Textile Industries / Dyeing Industries / Automobile Industries	----	10,000 TPA
17	Spent Ion Exchange Resin containing Toxic Metals, Chemical Sludge and Oil & Grease Skimming from Common Industrial Effluent Treatment Plants (CETPs)	----	5,000 TPA
18	STP Sludge / WTP Sludge	----	10,000 TPA
19	MEE salts	----	10,000 TPA
20	Organic Spent Solvents	----	10,000 TPA
21	Process or Distillation Residues	----	10,000 TPA
22	Waste Mix from Pre-processing Units	----	10,000 TPA
23	Fast Moving Consumer Goods (FMCG) / Trade Rejects	----	10,000 TPA
24	Fiber Reinforced Plastic (FRP) waste	----	10,000 TPA
25	Carbon Sludge	----	10,000 TPA
26	Spent Catalyst	----	5,000 TPA
27	Refinery Sludge from Petro Chemical Industries	----	5,000 TPA
28	Oil Sludge / Emulsion, Slop Oil, Organic Residue from Process, Chemical Sludge from Waste Water from Petroleum Refinery	----	5,000 TPA
29	Furnace or Reactor Residue & Debris, Tarry Residues & Still Bottom from Distillations, Oily Sludge Emulsions, Organic Residues, Residues from Alkali Wash of Fuels, Spent Catalyst & Molecular Sieves, Oil from Waste Water Treatment from Petrochemicals	----	5,000 TPA

	Process & Pyrolytic Operations		
30	Mixed Waste from Pharma industries	----	10,000 TPA
31	Distillation Residue	----	5,000 TPA
32	Tank Bottom Sludge from Petroleum products storage terminals	----	5.0 TPA
33	Date expired / discarded medicines	----	5,000 TPA
34	Still Bottom Residue from Bulk Drug Industries	----	10,000 TPA
35	ETP Sludge, Still Bottom Residue from Pesticide Industries	----	10,000 TPA
36	Waste / Residue (Sludge from Process), Filters & Filter Materials from Polymer Industries	----	10,000 TPA
37	Dismantled Lube / Fuel Oil Filer from Diesel Loco Sheds	----	10,000 TPA
38	Furnace or Reactor Residue & debris, Tarry Residues & Still Bottoms from Distillation, Oil Sludge Emulsion, Residues from Alkali Wash of Fuels from Petrochemicals Processes and Pyrolytic Operations	----	5,000 TPA
39	Cathode Residues including Pot Lining Wastes and Tar containing Wastes from Aluminum industries	----	5,000 TPA
40	Cargo Residue, Washing Water & Sludge Containing Oil, Cargo Residue and Sludge containing Chemicals, Sludge & Filters contaminated with Oil, Ballast Water Containing Oil from Ships from Cleaning, Emptying and Maintenance of Petroleum Oil Storage Tank including Ships	----	5,000 TPA
41	Waste Cutting Oils	----	10,000 TPA
42	Phosphate Sludge and Plating Metal Sludge	----	5,000 TPA
43	Red Mud	----	10,000 TPA
44	Non-hazardous Waste (automobile Interiors) from Automobile Industry	----	5,000 TPA
45	Mango Seeds / Stones / Peels from Pulp Industries	----	10,000 TPA
46	Expired food products	----	5,000 TPA
47	Non-hazardous waste from Custom Depots, Sea Ports, Air Ports	----	5,000 TPA
48	Tapestry Waste (Carpet Cuts, Scotchbrite) from Automobile Industries	----	10,000 TPA
49	Non-hazardous (belt cuttings, conveyor belts, drive belts) from Engineering Industries	----	10,000 TPA
50	Waste Cotton Cloth Cuttings from Textile Industries	----	10,000 TPA
51	Lead Slag from Steel Industry	----	10,000 TPA
52	Copper Slag	----	5,000 TPA
53	Non-hazardous waste – Railway Coach Waste (Seat Covers, Card Boards, Foam Waste, etc.)	----	10,000 TPA
54	Non-hazardous waste from Packing Industry like Thermocol, Bubble Wrap, etc.	----	10,000 TPA
55	Lime sludge	----	10,000 TPA

56	Dolochar / other byproducts from Sponge Iron Industry	----	10,000 TPA
57	Foundry waste from Metal Foundries	----	10,000 TPA
58	Evaporation salts	----	10,000 TPA
59	Inorganic salts from Rotary Kilns	----	10,000 TPA
60	Pre-treated leaching sludge	----	10,000 TPA

The EE, RO: Vijayawada, vide reference 4<sup>th</sup> cited, submitted report in this regard. The item was placed before the CTE Committee meeting held on 22.11.2022. The representatives of the project proponent attended the meeting through video conference. They have informed that by mistake they have included Bio-medical waste in the materials for co-processing which can be deleted. Further they informed that they would submit the characteristics and calorific value of the material proposed for co-processing. They also informed that they would use the materials which have calorific value 2500 k.cal.

The Committee enquired about the suitability of MEE and inorganic salts for co-processing due to the chloride content. The representative of the industry informed that they would use the MEE salts and inorganic salts in the cement grinding section and not for co-processing as the presence of certain level of chloride in the cement is required.

The Committee opined that the amendment for inclusion of other materials submitted by the industry except MEE salts and inorganic salts and biomedical waste can be considered.

After detailed discussions, the Committee recommended to issue amendment to CTE with a condition to submit characteristics and calorific value of the material proposed for co-processing while applying for CTO.

**The Board after careful scrutiny of the representation of the unit, report of the Regional Officer and recommendations of the CTE Committee, hereby issues amendment to the CTE (Expansion) order dt.17.10.2019 for usage as a raw material / alternate fuel for co-processing in cement kilns:**

S. No	Material	Quantity as per CFO order dt.02.11.2021	Quantity requested for amendment
1.	Gypsum(Raw material)	1,80,000 TPA	1,80,000 TPA
2.	Pet Coke (Indian or Imported) for Cement Plant	4,74,666 TPA	4,74,666 TPA
3.	Organic Waste / residue (liquid)	1,800 TPM	21,600 TPA
4.	Organic Waste / residue (solid)	1,800 TPM	36,000 TPA
5.	Spent Carbon	1,500 TPM	60,000 TPA
6.	Spent Solvents	1,500 TPM	18,000 TPA
7.	Waste Oils (Furnace oil sludge, Gear Box Oil, Lube oil and Used Grease)	150 TPA	1,800 TPA
8.	Iron ore fines, rejects / screened / iron sludge (Raw material)	20,000 TPA	20000 TPA
9.	Waste Tyre / Rubber / Non-recyclable rubber waste from footwear industry	1,000 TPM	12,000 TPA
10.	Municipal Waste (RDF) / Plastic Waste	100 TPM	1,200 TPA

11.	Agro Wastes – Agro Ash, Risk Husk, Coir Waste, Shells, Bio-Compost & Other Wastes	41,000 TPA	45,000 TPA
12.	Carbon Black	----	5,000 TPA
13.	Paint Sludge from Automobile industries	----	2,000 TPA
14.	ETP sludge from Pharma industries	----	10,000 TPA
15.	ETP sludge from Refined Oil industries	----	10,000 TPA
16.	ETP Sludge from Food Industries / Bulk Drug Industries / Paint Industries / Textile Industries / Dyeing Industries / Automobile Industries	----	10,000 TPA
17.	Spent Ion Exchange Resin containing Toxic Metals, Chemical Sludge and Oil & Grease Skimming from Common Industrial Effluent Treatment Plants (CETPs)	----	5,000 TPA
18.	STP Sludge / WTP Sludge	----	10,000 TPA
19.	Organic Spent Solvents	----	10,000 TPA
20.	Process or Distillation Residues	----	10,000 TPA
21.	Waste Mix from Pre-processing Units	----	10,000 TPA
22.	Fast Moving Consumer Goods (FMCG) / Trade Rejects	----	10,000 TPA
23.	Fiber Reinforced Plastic (FRP) waste	----	10,000 TPA
24.	Carbon Sludge	----	10,000 TPA
25.	Spent Catalyst	----	5,000 TPA
26.	Refinery Sludge from Petro Chemical Industries	----	5,000 TPA
27.	Oil Sludge / Emulsion, Slop Oil, Organic Residue from Process, Chemical Sludge from Waste Water from Petroleum Refinery	----	5,000 TPA
28.	Furnace or Reactor Residue & Debris, Tarry Residues & Still Bottom from Distillations, Oily Sludge Emulsions, Organic Residues, Residues from Alkali Wash of Fuels, Spent Catalyst & Molecular Sieves, Oil from Waste Water Treatment from Petrochemicals Process & Pyrolytic Operations	----	5,000 TPA
29.	Mixed Waste from Pharma industries	----	10,000 TPA
30.	Distillation Residue	----	5,000 TPA

31.	Tank Bottom Sludge from Petroleum products storage terminals	----	5.0 TPA
32.	Still Bottom Residue from Bulk Drug Industries	----	10,000 TPA
33.	ETP Sludge, Still Bottom Residue from Pesticide Industries	----	10,000 TPA
34.	Waste / Residue (Sludge from Process), Filters & Filter Materials from Polymer Industries	----	10,000 TPA
35.	Dismantled Lube / Fuel Oil Filer from Diesel Loco Sheds	----	10,000 TPA
36.	Furnace or Reactor Residue & debris, Tarry Residues & Still Bottoms from Distillation, Oil Sludge Emulsion, Residues from Alkali Wash of Fuels from Petrochemicals Processes and Pyrolytic Operations	----	5,000 TPA
37.	Cathode Residues including Pot Lining Wastes and Tar containing Wastes from Aluminum industries	----	5,000 TPA
38.	Cargo Residue, Washing Water & Sludge Containing Oil, Cargo Residue and Sludge containing Chemicals, Sludge & Filters contaminated with Oil, Ballast Water Containing Oil from Ships from Cleaning, Emptying and Maintenance of Petroleum Oil Storage Tank including Ships	----	5,000 TPA
39.	Waste Cutting Oils	----	10,000 TPA
40.	Phosphate Sludge and Plating Metal Sludge	----	5,000 TPA
41.	Red Mud	----	10,000 TPA
42.	Non-hazardous Waste (automobile Interiors) from Automobile Industry	----	5,000 TPA
43.	Mango Seeds / Stones / Peels from Pulp Industries	----	10,000 TPA
44.	Expired food products	----	5,000 TPA
45.	Non-hazardous waste from Custom Depots, Sea Ports, Air Ports	----	5,000 TPA
46.	Tapestry Waste (Carpet Cuts, Scotchbrite) from Automobile Industries	----	10,000 TPA
47.	Non-hazardous (belt cuttings, conveyor belts, drive belts) from Engineering Industries	----	10,000 TPA
48.	Waste Cotton Cloth Cuttings from Textile Industries	----	10,000 TPA
49.	Lead Slag from Steel Industry	----	10,000 TPA
50.	Copper Slag	----	5,000 TPA

51.	Non-hazardous waste – Railway Coach Waste (Seat Covers, Card Boards, Foam Waste, etc.)	----	10,000 TPA
52.	Non-hazardous waste from Packing Industry like Thermocol, Bubble Wrap, etc.	----	10,000 TPA
53.	Lime sludge	----	10,000 TPA
54.	Dolochar / other byproducts from Sponge Iron Industry	----	10,000 TPA
55.	Foundry waste from Metal Foundries	----	10,000 TPA
57.	Pre-treated leaching sludge	----	10,000 TPA

- The industry shall submit characteristics and calorific value of the material proposed for co-processing while applying for CTO.
- All other conditions mentioned in the order issued vide reference 1<sup>st</sup> cited remain the same.

**VIJAY KUMAR GSRKR IAS, MEMBER  
SECY(GSRKRVK), O/o MEMBER  
SECRETARY-APP/CFE**

**To**

**M/s. The Ramco Cements Limited.,  
Jayanthipuram(V), Jaggayyapet (M),  
NTR District.  
Email: mcljpm@ramcocements.co.in**

- Copy to:** 1. The JCEE, Z.O: Vijayawada for information and necessary action.  
2. The E.E., R.O: Vijayawada for information and necessary action.