**Ash Compliance Report (for the period 1st April 2024 to 31st March 2025) to be submitted on or before 31st May.**

| SN. | Details | |
|---|---|---|
| 1. | Name of Power Plant | M/s KSK Mahanadi Power Company Ltd. |
| 2. | Name of the company | M/s KSK Mahanadi Power Company Ltd. |
| 3. | District | Janjgir-Champa |
| 4. | State | Chhattisgarh |
| 5. | Postal address for communication: | M/s KSK Mahanadi Power Company Ltd., Village-Nariyara, Tehsil-Akaltara, District- Janjgir,-Champa, Chhattisgarh, Pin-495553 |
| 6. | E-mail: | env.kmpcl@ksk.co.in |
| 7. | Power Plant installed capacity (MW): | 3x600 MW |
| 8. | Plant Load Factor (PLF): | 67.47 % |
| 9. | No. of units generated (MWh): | 10630829 MWh |
| 10. | Total area under power plant (ha):<br>(including area under ash ponds) | 828.46 Ha. |
| 11. | Quantity of coal consumption during reporting period (Metric Tons per Annum): | 69,38,870 MT |
| 12. | Average ash content in percentage (per cent): | 35.2 % |
| 13. | **Quantity of current ash generation during reporting period (Metric Tons per Annum):** | **24,40,339 MT** |
| | Fly ash (Metric Tons per Annum): | 21,96,305 MT |
| | Bottom ash (Metric Tons per Annum): | 2,44,034 MT |
| 14. | Capacity of dry fly ash storage silo(s) (Metric Tons) : | i) 2x3800 m3 =7600 m3 (volume)<br>ii) 7600 x 0.75 = 5700 MT (Fly ash Qty.) |
| 15. | **Details of utilisation of current ash generated during reporting period** | |
| | (a) Total quantity of current ash utilised (MTPA) during reporting period: | **20,87,409** MT |
| | **(b) Quantity of fly ash utilised (MTPA):** | **19,24,145 MT** |
| | (i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) | 69,814 MT |
| | (ii) Cement manufacturing: | 12,94,261 MT |

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| | (iii) Ready mix concrete: | 2,993 MT |
| | (iv) Ash and Geo-polymer based construction material: | -- |
| | (v) Manufacturing of sintered or cold bonded ash aggregate: | -- |
| | (vi) Construction of roads, road and fly over embankment: | 1,07,687 MT |
| | (vii) Construction of dams: | -- |
| | (viii) Filling up of low lying area: | 1,27,224 MT |
| | (ix) Filling of mine voids: | 3,22,167 MT |
| | (x) Use in overburden dumps: | -- |
| | (xi) Agriculture: | -- |
| | (xii) Construction of shoreline protection structures in coastal districts; | -- |
| | (xiii) Export of ash to other countries: | -- |
| | (xiv) Others (please specify): | -- |
| | **(c) Quantity of bottom ash utilised (MTPA):** | **1,63,264 MT** |
| | (i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) | -- |
| | (ii) Cement manufacturing: | -- |
| | (iii) Ready mix concrete: | -- |
| | (iv) Ash and Geo-polymer based construction material: | -- |
| | (v) Manufacturing of sintered or cold bonded ash aggregate: | -- |
| | (vi) Construction of roads, road and fly over embankment: | 63,552 MT |
| | (vii) Construction of dams: | -- |
| | (viii) Filling up of low lying area: | 29,471 MT |
| | (ix) Filling of mine voids: | 70,241 MT |
| | (x) Use in overburden dumps: | -- |
| | (xi) Agriculture: | -- |

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| | (xii) Construction of shoreline protection structures in coastal districts; | -- | |
| | (xiii) Export of ash to other countries: | -- | |
| | (xiv) Others (please specify): | -- | |
| | **Total quantity of current ash un-utilised (MTPA) during reporting period:** | **3,52,929 MT** | |
| 16. | Percentage utilisation of current ash generated during reporting period (per cent): | **86 %** | |
| 17. | **Details of disposal of ash in ash ponds** | | |
| | (a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period): | **2,22,279 MT** | |
| | (b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons): | **3,52,929 MT** | |
| | (c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m3): | **1,46,420 m3** | |
| | (d) Total number of ash ponds:<br>(i) Active:<br>(ii) Exhausted (yet to be reclaimed):<br>(iii) Reclaimed: | (i) Active: **2 nos.**<br>(ii) Exhausted : NIL<br>(iii) Reclaimed: NIL | |
| | (e) total area under ash ponds (ha): | 66 Hectare | |
| 18. | **Individual ash pond details** | | |
| | *Ash pond-1,2, etc. (please provide below mentioned details separately, if number of ash ponds is more than one)* | Pond-1<br>(Fly ash storage) | Pond-2<br>(Bottom ash storage) |
| | (a) Status: Under construction or Active or Exhausted or Reclaimed | Active | Active |
| | (b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY): | 14.08.2013 | 14.08.2013 |
| | (c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds) | Active<br>Not applicable | Active<br>Not applicable |
| | (c) area (hectares): | 32.5Ha | 33.5Ha. |
| | (d) dyke height (m): | 7.9m | 11.3m |
| | (d) volume (m3): | 13,84,000 m3 | 46,67,000 m3 |

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| | (e) quantity of ash disposed as on 31st March 2025 (Metric Tons): | 2,72,159 MT | 80,770 MT |
| | (f) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons): | 22,27,841 MT<br>98% | 45,86,230 MT<br>96% |
| | (g) expected life of ash pond (number of years and months): | Not applicable<br>Active dyke designed for temporary storage of fly ash | Not applicable<br>Active dyke designed for temporary storage of Bottom ash |
| | (e) co-ordinates (Lat and Long):<br>(please specify minimum 4 co-ordinates) | 21°57'14"N 21°57'37"N<br>82° 24'20"E 82°23'54"E<br>21°57'46"N 21°57'33"N<br>82° 23'58"E 82° 24'16"E | 21°57'46"N 21°57'42"N<br>82° 24'57"E 82°23'22"E<br>21°57'26"N 21°57'42"N<br>82° 23'15"E 82° 24'56"E |
| | (f) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining | HDPE lining | HDPE lining |
| | g) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) | High Concentration Slurry Disposal System | Lean Slurry Disposal System |
| | (h) Ratio of ash: water in slurry mix (1:___ ): | 1:0.538 | 1:2.3 |
| | (i) Ash water recycling system (AWRS) installed and functioning: Yes or No | Not available | Not available |
| | (j) Quantity of wastewater from ash pond discharged into land or water body (m3): | NIL | NIL |
| | (k) Last date when the dyke stability study was conducted and name of the organisation who conducted the study: | Work order has been awarded to Rajiv Gandhi University of knowledge Technologies, Andra Pradesh on 16.04.2024 for audit the stability of Ash dyke and Annual compliance of Fly ash. Field inspection report is awaited. | |
| | (l) Last date when the audit was conducted and name of the organisation who conducted the audit: | Last date of audit: 30.10.2024<br>Name of organisation: Rajiv Gandhi University of Knowledge Technologies, NUZVID, Eluru District, Andra Pradesh under NIT Warangal. | |
| 19. | **Quantity of legacy ash utilised (MTPA):** | **2,22,279 MT** | |
| | i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels): | -- | |
| | ii. Cement manufacturing: | -- | |
| | iii. Ready mix concrete: | -- | |

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|---|---|---|
| | iv. Ash and Geo-polymer based construction material: | -- |
| | v. Manufacturing of sintered or cold bonded ash aggregate: | -- |
| | vi. Construction of roads, road and flyover embankment: | 13,289 MT |
| | vii. Construction of dams: | -- |
| | viii. Filling up of low lying area: | 93,388 MT |
| | ix. Filling of mine voids: | 1,15,602 MT |
| | x. Use in overburden dumps: | -- |
| | xi. Agriculture: | -- |
| | xii. Construction of shoreline protection structures in coastal districts; | -- |
| | xiii. Export of ash to other countries: | -- |
| | xiv. Others (please specify): | -- |

20. Summary:

| Details | Quantity generated (MTP) | Quantity utilised (MTP) and (per cent) | Balance quantity (MTP) |
|---|---|---|---|
| Current ash during reporting period | 24,40,339 MT | 20,87,409 MT (86%) | 3,52,929 MT |
| Legacy ash | 2,22,279 MT (Balance stocked as on 31st Mar 2024) | 2,22,279 MT (100%) | 0.0 MT |
| **Total** | **26,62,618 MT** | **23,09,688 MT (87%)** | **3,52,929 MT** |

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| 21. | Any other information:<br>Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to: moefcccoalash@gov.in | Noted. |
| 22. | Signature of Authorised Signatory | |