

**NAME OF THE INDUSTRY - : Indian Metals & Ferro Alloys Ltd**  
**MONTH WISE STATUS OF UTILIZATION OF COAL ASH ( FLY ASH AND BOTTOM ASH)**

| SL NO | Month-Year | Coal Consumption (MT) | Power Generation (MW) | Quantity of Fly ash Generated (MT) | Quantity of Bottom ash Generated (MT) | Total ash Generated (MT) | Disposal Method    | Brick Manufacturing (MT) (own) | Supplied to other Brick / Block Manufacturing Industries (MT) | Mine void Quarry Filling (MT) |                   | Utilization in Embankment/Dyke Raising (MT) | Other purpose (MT) |             |     |                 |       |            |               | Total ash Utilized (MT) |                     |                    | % of Utilization |
|-------|------------|-----------------------|-----------------------|------------------------------------|---------------------------------------|--------------------------|--------------------|--------------------------------|---|-------------------------------|-------------------|---|--------------------|-------------|-----|-----------------|-------|------------|---------------|-------------------------|---------------------|--------------------|------------------|
|       |            |                       |                       |                                    |                                       |                          |                    |                                |   | Quarry Filling                | Mine Void Filling |   | Dyke Raising       | Road Making | RMC | Small land fill | Tiles | Aggregates | Cement Making | From Current month      | From Previous stock | Total ash utilized |                  |
| 1     | April-2022 | 87471.1               | 87425.9               | 28557                              | 10892                                 | 39449                    | By Dumper / Bulker | 0                              | 10400   | 22360                         | 0                 | 0   | 0                  | 0           | 0   | 0               | 0     | 6689       | 39449         | 0                       | 39449               | 100                |                  |
| 2     | May-2022   | 95330.6               | 87743.3               | 28959                              | 15205                                 | 44164                    | By Dumper / Bulker | 856                            | 12772   | 28247                         | 0                 | 0   | 384                | 0           | 0   | 0               | 0     | 1905       | 44164         | 0                       | 44164               | 100                |                  |
| 3     | June-2022  | 96694.2               | 84257.4               | 33526                              | 12347                                 | 45873                    | By Dumper / Bulker | 1591                           | 14180   | 25795                         | 0                 | 0   | 0                  | 0           | 0   | 0               | 0     | 4307       | 45873         | 0                       | 45873               | 100                |                  |
| 4     | July-2022  | 108791.7              | 96395.8               | 47089                              | 5704                                  | 52793                    | By Dumper / Bulker | 0                              | 13860   | 29572                         | 0                 | 0   | 0                  | 0           | 0   | 0               | 0     | 9361       | 52793         | 0                       | 52793               | 100                |                  |
| 5     | Aug-2022   | 94940.4               | 89345                 | 39411                              | 5158                                  | 44569                    | By Dumper / Bulker | 0                              | 12416   | 24962                         | 0                 | 0   | 0                  | 0           | 0   | 0               | 0     | 7191       | 44569         | 0                       | 44569               | 100                |                  |
| 6     | Sept-2022  | 92883                 | 87400                 | 39547                              | 4422                                  | 43969                    | By Dumper / Bulker | 837                            | 12580   | 19868                         | 211               | 0   | 132                | 0           | 0   | 0               | 0     | 10341      | 43969         | 0                       | 43969               | 100                |                  |
| 7     | Octo-2022  | 94668.8               | 98695.6               | 37489                              | 5201                                  | 42690                    | By Dumper / Bulker | 0                              | 14180   | 23483                         | 696               | 0   | 0                  | 0           | 0   | 0               | 0     | 4331       | 42690         | 0                       | 42690               | 100                |                  |
| 8     | Nov-2022   | 92132.4               | 94528.3               | 32982                              | 8672                                  | 41654                    | By Dumper / Bulker | 0                              | 16460   | 19704                         | 1529              | 0   | 0                  | 0           | 0   | 0               | 0     | 3961       | 41654         | 0                       | 41654               | 100                |                  |
| 9     | Dec-2022   |                       |                       |                                    |                                       |                          |                    |                                |   |                               |                   |   |                    |             |     |                 |       |            |               |                         |                     |                    |                  |
| 10    | Jan-2023   |                       |                       |                                    |                                       |                          |                    |                                |   |                               |                   |   |                    |             |     |                 |       |            |               |                         |                     |                    |                  |
| 11    | Feb-2023   |                       |                       |                                    |                                       |                          |                    |                                |   |                               |                   |   |                    |             |     |                 |       |            |               |                         |                     |                    |                  |
| 12    | Mar-2023   |                       |                       |                                    |                                       |                          |                    |                                |   |                               |                   |   |                    |             |     |                 |       |            |               |                         |                     |                    |                  |
| Total |            | 762912.2              | 725791.3              | 287560                             | 67601                                 | 355161                   |                    | 3284                           | 106848  | 193991                        | 2436              | 0   | 516                | 0           | 0   | 0               | 0     | 48086      | 355161        | 0                       | 355161              | 100.00             |                  |

**Note : MT = Metric ton**

| Name of the Power Utility : Indian Metals & Ferro Alloys Ltd. |   |   |                                  | Name of the Thermal Power Plant ( Capacity in MW)<br>Indian Metals & Ferro Alloys Ltd. 50MW + 30 MW + 120 MW = Total 200 MW |   |            |   |          |   |
|---|---|---|----------------------------------|---|---|------------|---|----------|---|
| Details of ash utilization during the Month of November 2022  |   |   |                                  |   |   |            |   |          |   |
| Sl. No.   | Name of Ash Disposal Area   | Ash disposal area in Hectare                        | Design Life of Ash disposal area | Pond Ash Availability in MT (up to 30.11.2022)  | Ash Generated in MT during the November 2022          |            | Ash Utilized in MT during November 2022 |          | Pond Ash Availability in MT ( up to 01.12.2022) |
|   |   |   |                                  |   | ESP Fly Ash   | Bottom Ash | Dry ESP Fly Ash and bottom ash          | Pond Ash |   |
| (1)   | (2)   | (3)   | (4)                              | (5)   | (6)   | (7)        | (8)                                     | (9)      | (10)  |
| 1   | IDCO land and Puspangi  | 50.64   | 20 yrs                           | Nil   | 32982   | 8672       | 41654                                   | Nil      | Nil   |
| ASH UTILIZATION DETAILS                                       |   |   |                                  |   |   |            |   |          |   |
| Sl. No.   | Area of Utilization   | For the Month (November 2022)<br>Ash utilized in MT |                                  |   | Cummulative for Year (FY 22-23)<br>Ash Utilized in MT |            |   |          |   |
|   |   | Dry ESP Fly Ash                                     | Bottom Ash                       | Pond Ash  | Dry ESP Fly Ash and bottom ash                        |            | Pond Ash                                |          |   |
| 1   | Bricks/Blocks/Tiles industries                                      |   |                                  |   |   |            |   |          |   |
| 1A  | Dry ESP Fly Ash Issued to Bricks/Blocks/Tiles industries (Outside)  | 16460   |                                  | Nil   |   | Nil        |   |          |   |
| 1B  | Pond Ash Issued to Bricks/Blocks/Tiles industries (Outside)         | Nil   |                                  | Nil   |   | Nil        |   |          |   |
| 1C  | Fly Ash issued for Bricks/Blocks/Tiles in Own Plant                 |   |                                  | Nil   |   | Nil        |   |          |   |
|   | a) Dry ESP Fly Ash issued   | 0   |                                  | Nil   |   | Nil        |   |          |   |
|   | b) Pond ash issued  | Nil   |                                  | Nil   |   | Nil        |   |          |   |
|   | Sub-Total   | 0   |                                  | Nil   |   | Nil        |   |          |   |
|   | Total fly ash Issued to Bricks/Block/Tile Industries (1A+1B+1C)     | 16460   |                                  | Nil   |   | Nil        | 110132                                  |          | Nil   |
| 2   | Cement Industries   |   |                                  |   |   |            |   |          |   |
| 2A  | Dry ESP Fly Ash Issued to Cement Industries                         |   |                                  |   |   |            |   |          |   |
|   | a) Cement   | 3961  |                                  |   |   |            |   |          |   |
|   | b) RMC  | 0   |                                  |   |   |            |   |          |   |
|   | c) Asbestos   |   |                                  |   |   |            |   |          |   |
|   | Sub-Total   | 3961  |                                  |   |   |            |   |          |   |
| 2B  | Pond Ash Issued to Cement Industries                                |   |                                  |   |   |            |   |          |   |
|   | Total Fly Ash Issued to Cement Industries (2A+2B)                   | 3961  |                                  |   |   |            | 48086                                   |          | Nil   |
| 3   | Roads, Fly over /Rail Embankment                                    |   |                                  |   |   |            |   |          |   |
| 3A  | Dry ESP Fly Ash Issued for Road construction (Outside)              | 0   |                                  |   |   |            |   |          |   |
| 3B  | Pond Ash Issued for Road construction (Outside)                     | Nil   |                                  |   |   |            |   |          |   |
|   | Total Fly Ash Issued for Road Construction (3A+3B)                  | 0   |                                  |   |   |            | 516                                     |          | Nil   |
| 4   | Total Fly Ash issued for Part replacement of cement in concrete     | Nil   |                                  |   |   |            | Nil                                     |          | Nil   |
| 5   | Total Fly ash supplied to Hydro power sector                        | Nil   |                                  |   |   |            | Nil                                     |          | Nil   |
| 6   | Total Fly ash used for Ash Dyke raising                             | Nil   |                                  |   |   |            | Nil                                     |          | Nil   |
| 7   | Landfill/Reclamation of low lying area                              |   |                                  |   |   |            |   |          |   |
|   | a) Power Utility Own Land   | Nil   |                                  |   |   |            | Nil                                     |          | Nil   |
|   | b)Outside Land  | 19704   |                                  |   |   |            | 193991                                  |          | Nil   |
|   | Total Fly Ash used for Landfill/Reclamation of low lying area       | 19704   |                                  |   |   |            | 193991                                  |          | Nil   |
| 8   | Mine filling  |   |                                  |   |   |            |   |          |   |
|   | a) Open cast mine   | 0   |                                  |   |   |            |   |          |   |
|   | b) U.G.Mine   | 1529  |                                  |   |   |            |   |          |   |
|   | Total Fly Ash used for Mine filling                                 | 1529  |                                  |   |   |            | 2436                                    |          | Nil   |
| 9   | Agriculture / waste land development                                |   |                                  |   |   |            |   |          |   |
| 9A  | Dry ESP Fly Ash Issued for Agriculture / waste land development     |   |                                  |   |   |            |   |          |   |
| 9B  | Pond Ash Issued forAgriculture / waste land development             |   |                                  |   |   |            |   |          |   |
|   | Total Fly Ash Issued to Agriculture/ waste land development (9A+9B) | Nil   |                                  |   |   |            | Nil                                     |          | Nil   |
| 10  | Others  |   |                                  |   |   |            |   |          |   |
|   | a) CLSM   |   |                                  |   |   |            |   |          |   |
|   | b) Cenospheres  |   |                                  |   |   |            |   |          |   |
|   | c) Bottom ash cover   |   |                                  |   |   |            |   |          |   |
|   | d) Any other (Low Density Aggregates) own                           | 0   |                                  |   |   |            |   |          |   |
|   | Total Fly Ash Issued for other purpose                              | 0   |                                  |   |   |            | 0                                       |          | Nil   |
|   | Grand Total   | 41654   |                                  |   |   |            | 355161                                  |          | Nil   |

Bottom ash -collected from the bottom of furnace

Dry ESP Fly Ash - Collected from ESP and stored in Silo

Pond Ash - Fly ash and bottom ashStored in Pond

CLSM - Controlled Low strength Material

MT = Metric ton

### STATUS OF UTILISATION OF COAL ASH (FLY ASH) for November' 2022

## ANNEXURE-I

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## ANNEXURE-II

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