## <u>NAME OF THE INDUSTRY - :</u> Indian Metals & Ferro Alloys Ltd <u>MONTH WISE STATUS OF UTILIZATION OF COAL ASH (FLY ASH AND BOTTOM ASH)</u>

| Month-<br>Year | Coal<br>Consumption<br>(MT)   | Power<br>Generation<br>(MW)  | Quantity of<br>Fly ash<br>Generated<br>(MT)   | Quantity of<br>Bottom ash<br>Generated<br>(MT)   | Total ash<br>Generated<br>(MT)  | Disposal<br>Method  
   
   
  | Brick<br>Manufacturi<br>ng<br>(MT)   
   
   
   | Supplied<br>to other<br>Brick /<br>Block<br>Manufactu<br>ring   | Filling  | ,                       | Utilization in<br>Embankmen<br>t/Dyke<br>Raising<br>(MT)   |   |   
  | Other pu  | rpose (  | MT)   |  |  
  | Total ash<br>Utilized<br>(MT)   |  | % of<br>Utilization  |
|----------------|---|--|---|--|---
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---|--|-------------------------|--|---
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  | (=,  
   
   
   | (MT)  | Quarry<br>Filling  | Mine<br>Void<br>Filling | Dyke<br>Raising  | Road<br>Making  | RMC   
  | Small<br>land fill  | Tiles  | Aggregates  | Cement<br>Making   | From<br>Current<br>month   
  | From<br>Previous<br>stock   | Total ash<br>utilized  |  |
| April-2022     | 87471.1   | 87425.9  | 28557   | 10892  | 39449   | By<br>Dumper /<br>Bulker  
   
   
  | 0  
   
   
   | 10400   | 22360  | 0                       | 0  | 0   | 0   
  | 0   | 0  | 0   | 6689   | 39449  
  | 0   | 39449  | 100  |
| May-2022       | 95330.6   | 87743.3  | 28959   | 15205  | 44164   | By<br>Dumper /<br>Bulker  
   
   
  | 856  
   
   
   | 12772   | 28247  | 0                       | 0  | 384   | 0   
  | 0   | 0  | 0   | 1905   | 44164  
  | 0   | 44164  | 100  |
| June-2022      | 96694.2   | 84257.4  | 33526   | 12347  | 45873   | By<br>Dumper /<br>Bulker  
   
   
  | 1591   
   
   
   | 14180   | 25795  | 0                       | 0  | 0   | 0   
  | 0   | 0  | 0   | 4307   | 45873  
  | 0   | 45873  | 100  |
| July-2022      | 108791.7  | 96395.8  | 47089   | 5704   | 52793   | By<br>Dumper /<br>Bulker  
   
   
  | 0  
   
   
   | 13860   | 29572  | 0                       | 0  | 0   | 0   
  | 0   | 0  | 0   | 9361   | 52793  
  | 0   | 52793  | 100  |
| Aug-2022       | 94940.4   | 89345  | 39411   | 5158   | 44569   | By<br>Dumper /<br>Bulker  
   
   
  | 0  
   
   
   | 12416   | 24962  | 0                       | 0  | 0   | 0   
  | 0   | 0  | 0   | 7191   | 44569  
  | 0   | 44569  | 100  |
| Sept-2022      | 92883   | 87400  | 39547   | 4422   | 43969   | By<br>Dumper /<br>Bulker  
   
   
  | 837  
   
   
   | 12580   | 19868  | 211                     | 0  | 132   | 0   
  | 0   | 0  | 0   | 10341  | 43969  
  | 0   | 43969  | 100  |
| Octo-2022      | 94668.8   | 98695.6  | 37489   | 5201   | 42690   | By<br>Dumper /<br>Bulker  
   
   
  | 0  
   
   
   | 14180   | 23483  | 696                     | 0  | 0   | 0   
  | 0   | 0  | 0   | 4331   | 42690  
  | 0   | 42690  | 100  |
| Nov-2022       | 92132.4   | 94528.3  | 32982   | 8672   | 41654   | By<br>Dumper /<br>Bulker  
   
   
  | 0  
   
   
   | 16460   | 19704  | 1529                    | 0  | 0   | 0   
  | 0   | 0  | 0   | 3961   | 41654  
  | 0   | 41654  | 100  |
| Dec-2022       | 77010.6   | 77418.9  | 26823   | 8073   | 34896   | By<br>Dumper /<br>Bulker  
   
   
  | 1371   
   
   
   | 15700   | 16084  | 0                       | 0  | 0   | 0   
  | 0   | 0  | 0   | 1741   | 34896  
  | 0   | 34896  | 100  |
| Jan-2023       | 84854.4   | 88483.8  | 33524   | 5021   | 38545   | By<br>Dumper /<br>Bulker  
   
   
  | 307  
   
   
   | 17888   | 15837  | 687                     | 0  | 0   | 0   
  | 0   | 0  | 0   | 3826   | 38545  
  | 0   | 38545  | 100  |
| Feb-2023       | 80623.6   | 79835.9  | 26462   | 9964   | 36426   | By<br>Dumper /<br>Bulker  
   
   
  | 0  
   
   
   | 13772   | 16022  | 2581                    | 0  | 0   | 0   
  | 0   | 0  | 0   | 4051   | 36426  
  | 0   | 36426  | 100  |
| Mar-2023       |   |  |   |  |   |   
   
   
  |  
   
   
   |   |  |                         |  |   | |
  |   |  |   |  |  
  |   |  |  |
| -<br>Total     | 1005401   | 971529.9   | 374369  | 90659  | 465028  |   
   
   
  | 4962   
   
   
   | 154208  | 241934   | 5704                    | 0  | 516   | 0   
  | 0   | 0  | 0   | 57704  | 465028   
  | 0   | 465028   | 100.00   |
|                | Year  April-2022  May-2022  June-2022  Aug-2022  Sept-2022  Octo-2022  Nov-2022  Dec-2022  Jan-2023 | Month-Year Consumption (MT)  April-2022 87471.1  May-2022 95330.6  June-2022 96694.2  July-2022 108791.7  Aug-2022 94940.4  Sept-2022 92883  Octo-2022 94668.8  Nov-2022 92132.4  Dec-2022 77010.6  Jan-2023 84854.4  Feb-2023 80623.6  Mar-2023 | Month-Year         Consumption (MT)         Generation (MW)           April-2022         87471.1         87425.9           May-2022         95330.6         87743.3           June-2022         96694.2         84257.4           July-2022         108791.7         96395.8           Aug-2022         94940.4         89345           Sept-2022         92883         87400           Octo-2022         94668.8         98695.6           Nov-2022         92132.4         94528.3           Dec-2022         77010.6         77418.9           Jan-2023         84854.4         88483.8           Feb-2023         80623.6         79835.9           Mar-2023         Mar-2023 | Month-Year         Consumption (MT)         Generation (MW)         Fly ash Generated (MT)           April-2022         87471.1         87425.9         28557           May-2022         95330.6         87743.3         28959           June-2022         96694.2         84257.4         33526           July-2022         108791.7         96395.8         47089           Aug-2022         94940.4         89345         39411           Sept-2022         92883         87400         39547           Octo-2022         94668.8         98695.6         37489           Nov-2022         92132.4         94528.3         32982           Dec-2022         77010.6         77418.9         26823           Jan-2023         84854.4         88483.8         33524           Feb-2023         80623.6         79835.9         26462           Mar-2023         Mar-2023 | Month-Year         Consumption (MT)         Generation (MW)         Fly ash Generated (MT)         Boltom ash Generated (MT)           April-2022         87471.1         87425.9         28557         10892           May-2022         95330.6         87743.3         28959         15205           June-2022         96694.2         84257.4         33526         12347           July-2022         108791.7         96395.8         47089         5704           Aug-2022         94940.4         89345         39411         5158           Sept-2022         92883         87400         39547         4422           Octo-2022         94668.8         98695.6         37489         5201           Nov-2022         92132.4         94528.3         32982         8672           Dec-2022         77010.6         77418.9         26823         8073           Jan-2023         84854.4         88483.8         33524         5021           Feb-2023         80623.6         79835.9         26462         9964           Mar-2023         Mar-2023         80623.6         79835.9         26462         9964 | Month-Year         Consumption (MT)         Generation (MW)         Fly ash Generated Generated (MT)         Bottom ash Generated Generated (MT)         India rate Generated (MT)           April-2022         87471.1         87425.9         28557         10892         39449           May-2022         95330.6         87743.3         28959         15205         44164           June-2022         96694.2         84257.4         33526         12347         45873           July-2022         108791.7         96395.8         47089         5704         52793           Aug-2022         94940.4         89345         39411         5158         44569           Sept-2022         92883         87400         39547         4422         43969           Octo-2022         94668.8         98695.6         37489         5201         42690           Nov-2022         92132.4         94528.3         32982         8672         41654           Dec-2022         77010.6         77418.9         26823         8073         34896           Jan-2023         84854.4         88483.8         33524         5021         38545           Feb-2023         80623.6         79835.9         26462         9964         36426 <td>Month-Year         Consumption (MT)         Generation (MW)         Fly ash Generated Generated (MT)         Bottom ash Generated (MT)         Total ash Generated Generated (MT)         Disposal Method           April-2022         87471.1         87425.9         28557         10892         39449         Disposal Method           May-2022         95330.6         87743.3         28959         15205         44164         Disposal Method           June-2022         96694.2         84257.4         33526         12347         45873         Disposal Method           July-2022         108791.7         96395.8         47089         5704         52793         Disposal Method           Aug-2022         94940.4         89345         39411         5158         44569         Degree Paulker           Sept-2022         92883         87400         39547         4422         43969         Dumper / Bulker           Octo-2022         94668.8         98695.6         37489         5201         42690         Degree Paulker           Nov-2022         92132.4         94528.3         32982         8672         41654         Degree Paulker           Jan-2023         84854.4         88483.8         33524         5021         38545         Dumper / Bulker<td>  Month-Year   Consumption (MT)   Generated (MT)   Disposal Method (MT)  </td><td>  Coal Month-Year   Cosumption (MT)   Coantity of Generation (MT)   Consumption (MT)   Co</td><td>  April-2022</td><td>  Nov-2022   Part   Par</td><td>  Normalization   Power (MY)   Power (MY)  </td><td>  Non-th-  N</td><td>  No.   No.</td><td>  North Veel   Consumption   Pewer   Pewer   Consumption   Pewer   Pewer  </td><td>  Part   Part  </td><td>  North   Nort</td><td>  Property   Property</td><td>  Part   Part  </td><td>  Purple   P</td><td>  Monte-Park   Power   Power  </td></td> | Month-Year         Consumption (MT)         Generation (MW)         Fly ash Generated Generated (MT)         Bottom ash Generated (MT)         Total ash Generated Generated (MT)         Disposal Method           April-2022         87471.1         87425.9         28557         10892         39449         Disposal Method           May-2022         95330.6         87743.3         28959         15205         44164         Disposal Method           June-2022         96694.2         84257.4         33526         12347         45873         Disposal Method           July-2022         108791.7         96395.8         47089         5704         52793         Disposal Method           Aug-2022         94940.4         89345         39411         5158         44569         Degree Paulker           Sept-2022         92883         87400         39547         4422         43969         Dumper / Bulker           Octo-2022         94668.8         98695.6         37489         5201         42690         Degree Paulker           Nov-2022         92132.4         94528.3         32982         8672         41654         Degree Paulker           Jan-2023         84854.4         88483.8         33524         5021         38545         Dumper / Bulker <td>  Month-Year   Consumption (MT)   Generated (MT)   Disposal Method (MT)  </td> <td>  Coal Month-Year   Cosumption (MT)   Coantity of Generation (MT)   Consumption (MT)   Co</td> <td>  April-2022</td> <td>  Nov-2022   Part   Par</td> <td>  Normalization   Power (MY)   Power (MY)  </td> <td>  Non-th-  N</td> <td>  No.   No.</td> <td>  North Veel   Consumption   Pewer   Pewer   Consumption   Pewer   Pewer  </td> <td>  Part   Part  </td> <td>  North   Nort</td> <td>  Property   Property</td> <td>  Part   Part  </td> <td>  Purple   P</td> <td>  Monte-Park   Power   Power  </td> | Month-Year   Consumption (MT)   Generated (MT)   Disposal Method (MT) | Coal Month-Year   Cosumption (MT)   Coantity of Generation (MT)   Consumption (MT)   Co | April-2022              | Nov-2022   Part   Par | Normalization   Power (MY)   Power (MY) | Non-th-  N | No.   No. | North Veel   Consumption   Pewer   Pewer   Consumption   Pewer   Pewer | Part   Part | North   Nort | Property   Property | Part   Part | Purple   P | Monte-Park   Power   Power |

Note: MT = Metric ton
Bottom ash is being sent to Mahagiri Chromite Mines of IMFA at Kaliapani for mine void filling.

Name	of the Power Utility: Indian Metals & Ferro Alloys L	td.		Indian M		e of the The				n <u>MW)</u> IW = Total 200 MW
	Details of	ash util	ization o	luring the M					v + 12U IV	144 - 10tal 200 IVIVV
SI. No.	Name of Ash Disposal Area	Ash disposal area in Hectare	Design Life of Ash	Pond Ash Availability in MT (up to 31.01.2023)	Ash G in MT c Febru	enerated luring the ary 2023	Ash U during I	tilized i February	y 2023	Pond Ash Availability in MT ( up to 01.03.2023)
					ESP Fly Ash	Ash	Dry ESP I and botto		Pond Ash	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8		(9)	(10)
1	IDCO land and Puspangi	50.64	20 yrs	Nil	26462	9964	364	126	Nil	Nil
SI.	Area of Utilization		For the	LIZATION DETA Month (Februar			Cun			ear (FY 22-23)
No.		Dry ESF	Asn ut P Fly Ash	ilized in MT Bottom Ash	Por	nd Ash	Dry ESP I			ed in MT Pond Ash
		_					bottom as	sh		
	Bricks/Blocks/Tiles industies									
	Dry ESP Fly Ash Issued to Bricks/Blocks/Tiles industies (Outside)	13	772	Nil		Nil				
	Pond Ash Issued to Bricks/Blocks/Tiles industries (Outside)	١	Nil .	Nil		Nil				
1C	Fly Ash issued for Bricks/Blocks/Tiles in Own Plant			Nil		Nil				
	a) Dry ESP Fly Ash issued b) Pond ash issued		0	Nil		Nil				
	Sub-Total		<u> </u>	Nil Nil	Nil Nil					
	Total fly ash Issued to Bricks/Block/Tile Industries (1A+1B+1C)		772	Nil		Nil	159170			Nil
2	Cement Industries									
2A	Dry ESP Fly Ash Issued to Cement Industries									
	a) Cement		)51		<u> </u>					
	b) RMC c) Asbestos	0								
	Sub-Total	40	 )51							
2B	Pond Ash Issued to Cement Industries	- 10								
	Total Fly Ash Issued to Cement Industries (2A+2B)	40	)51				57704			Nil
	Roads, Fly over /Rail Embankment									
3A	Dry ESP Fly Ash Issued for Road construction (Outside)		0							
3B	Pond Ash Issued for Road construction (Outside)	١	Vil							
	Total Fly Ash Issued for Road Construction (3A+3B)		0					516		Nil
4	Total Fly Ash issued for Part replacement of cement in concrete	١	<b>Jil</b>					Nil		Nil
5	Total Fly ash supplied to Hydro power sector	N	Nil					Nil		Nil
	Total Fly ash used for Ash Dyke raising	١	Vil					Nil		Nil
7	Landfill/Reclaimation of low lying area									N.
	a) Power Utility Own Land b)Outside Land		Nil 022					Nil 241934		Nil Nil
	Total Fly Ash used for Landfill/Reclaimation of low lying area		022					241934		Nil
8	Mine filling									
	a) Open cast mine		0							
	b) U.G.Mine		81					E70.4		KISI
9	Total Fly Ash used for Mine filling Agriculture / waste land development	25	581				<del>                                     </del>	5704		Nil
	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)	N	lil .					Nil		Nil
10	Others									
	a) CLSM b) Cenospheres									
	c) Bottom ash cover									
<u> </u>	d) Any other (Low Density Aggregates) own  Total Fly Ash Issued for other purpose		<u>0</u> 0		<u> </u>		-	0		Nii
Щ_	Total Try Asil Issued for other purpose		U					105000		Nil

465028

Nil

36426

STATUS OF UTILISATION OF COAL ASH (FLY ASH) for February' 2023  ANNEXURE-I																						
2.2	I. Name and o. address of the TPP	Power plant installed capacity	coal	fly ash	Capacity of dry fly ash storage silo (MT)	Disposal method (Dry / HCSD/Lean	Fly ash	Cement manufactur ing	Ready mix concrete	Ash and Geo- Polymer based	Manufacturi ng of sintred or cold		of Utilisatio	n (MT)		Use Overbur den dumps	Agriculture			Others	Ash utilised for the Reporting period	% Ash utilised for the Reporting period
	1 1 Indian Metals & Ferro Alloys	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Ltd, Choudwar	200 MW PP	80623.6	26462	3650	Dry	13772	4051	0	0	0	0	0	8639	0	0	0	0	0	0	26462	100



				STATUS OF UTILISATION OF COAL ASH (BOTTOM ASH) for February ' 2023  ANNEXU											RE-II								
			Power plant installed	Quantity of coal	Quantity of bottom	Capacity	Disposal							of Utilisation	• •							Ash utilised	% Ash
		ddress of the TPP	capacity	consumed		bottom	Lean	Bottom ash based products (Bricks/bl ocks/tiles, fibre, cement sheets, pipes, boards, panels etc)	Cement manufactur ing	concrete	Geo-	sintred or cold bonded	embańkment	n of Dams	Filling of low lying areas	Filling of mine voids	Use Overbu rden dumps		Constructi on of shoreline protection structures in coastal districts	ash to other		for the Reporti	utilised for the Reporti ng period
F	$\perp$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Me Fe Ltc	noudwar	200 MW PP	80623.6	9964	1200	Dry	0	0	0	0	0	0	0	7383	2581	0	0	0	0	0	9964	100

Note : Bottom ash is being sent to Mahagiri Chromite Mines of IMFA at Kaliapani for mine void filling.