

Sesa Goa & VSD Iron ore specification

July 2010

Chemical & Physical Composition (on dry basis, percentage by weight)

		Fe	SiO ₂	Al ₂ O ₃	P	S	Moisture ¹	Size ²	LOI
63% Fe Iron ore Fines Ex- Haldia and/or Paradip	Guaranteed	63% basis 63% min	3.50% max	3.00% max	0.07% max	0.03% max	12.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	63.30%	3.00%	2.50%	0.06%	0.025%	6.00%	+10 mm 4.00% -0.15 mm 30.00%	
63% Fe Iron ore Lumps (CLO) 30-70 MM Ex- Mines and/or Plot Orissa	Guaranteed	63% basis 63% min	2.50% max	2.50% max	0.05% max	0.01% max	9.00%	-30 mm 10.00%max +70 mm 10.00%max	
	Typical	63.30%	2.50%	2.00%	0.03%	0.025%	6.00%	-30 mm 8.00% +70 mm 8.00%	
63% Fe Iron ore Lumps (CLO) 10-30 MM Ex- Mines and/or Plot Orissa	Guaranteed	63% basis 62.5% min	3.00% max	3.00% max	0.05% max	0.01% max	9.00%	-10 mm 10.00%max +30 mm 7.00% max	
	Typical	62.70%	2.50%	2.50%	0.03%	0.025%	6.00%	-10 mm 8.00% +30 mm 5.00%	
62% Fe Iron ore Fines Ex- M'gllore Or-Belekeri Or-Karwar Or-K'patnam Or-Goa	Guaranteed	62% basis 62% min	5.00% max	3.00% max	0.07% max	0.03% max	12.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	62.30%	4.50%	2.50%	0.06%	0.025%	6.00%	+10 mm 4.00% -0.15 mm 30.00%	
62% Fe Iron ore Lumps (CLO) 10-30 MM Ex- Goa or Karnataka	Guaranteed	62% basis 62% min	5.00% max	3.00% max	0.07% max	0.03% max	12.00%	+30 mm 10.00%max -6 mm 15.00%max	
	Typical	62.30%	4.50%	2.50%	0.06%	0.025%	6.00%	+30 mm 8.00% -6 mm 12.00%	

1. Free moisture loss at 105 degrees centigrade
2. Physical specification on natural basis

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		Fe	SiO ₂	Al ₂ O ₃	P	S	Moisture ¹	Size ²	LOI
62% Fe Iron ore Lumps (CLO) 6-20 MM	Guaranteed	62% basis 62% min	4.00% max	3.50% max	0.07% max	0.03% max	9.00%	+20 mm 10.00%max -6 mm 10.00%max	
	Typical	62.30%	3.50%	3.00%	0.06%	0.025%	6.00%	+20 mm 8.00% -6 mm 6.00%	
Ex- Mines Karnataka									
61% Fe Iron ore Fines	Guaranteed	61% basis 61% min	5.00% max	3.30% max	0.06% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	61.30%	4.50%	3.00%	0.055%	0.025%	11.50%	+10 mm 3.00% -0.15 mm 30.00%	4.00%
Ex- Goa SESA/VSD									
61% Fe Iron ore Lumps (CLO)	Guaranteed	61% basis 61% min	4.00% max	3.50% max	0.10% max	0.03% max	12.00%	+30 mm 10.00%max -6 mm 15.00%max	
	Typical	61.30%	3.00%	3.30%	0.05%	0.02%	**8.50% *7.50%	+30 mm 8.00% -6mm 12.00%	4.00%
Ex- Goa SESA/VSD									
60% Fe Iron ore Fines	Guaranteed	60% basis 60% min	4.50% max	3.50% max	0.10% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 25.00%max	
	Typical	60.30%	4.25%	3.25%	0.05%	0.02%	12.00%	+10 mm 4.50% -0.15 mm 20.00%	
Ex- Goa SESA/VSD									
58% Fe Iron ore Fines	Guaranteed	58% basis 58% min	6.00% max	5.00% max	0.10% max	0.10% max	15.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	58.30%	5.00%	4.90%	0.05%	0.035%	11.00%	+10 mm 4.00% -0.15 mm 30.00%	5.00%
Ex- Goa SESA/VSD									

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** Monsoon Season 1st June to 30th Sep
* Fair Season 1st Oct to 31st May

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		Fe	SiO ₂	Al ₂ O ₃	P	S	Moisture ¹	Size ²	LOI
58% Fe Iron ore Fines	Guaranteed	58% basis 58% min	7.50% max	4.50% max	0.12% max	0.10% max	15.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	58.20%	7.00%	4.20%	0.10%	0.05%	11.00%	+10 mm 4.00% -0.15 mm 30.00%	5.00%
58% Fe Iron ore Lumps (CLO)	Guaranteed	58% basis 58% min	4.00% max	4.50% max	0.10% max	0.03% max	12.00%	+40mm 10.00%max -6mm 15.00%max	
	Typical	58.30%	3.50%	4.00%	0.05%	0.02%	**8.50% *7.50%	+40mm 8.00% -6mm 12.00%	5.00%
56% Fe Iron ore Fines	Guaranteed	56% basis 56% min	6.00% max	6.50% max	0.10% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	56.30%	5.50%	5.80%	0.08%	0.02%	11.00%	+10 mm 4.50% -0.15 mm 30.00%	7.00%
56% Fe Iron ore Lumps (CLO)	Guaranteed	56% basis 56% min	4.00% max	6.50% max	0.10% max	0.03% max	12.00%	+40 mm 10.00%max -6 mm 15.00%max	
	Typical	56.30%	3.50%	6.00%	0.08%	0.02%	**8.50% *7.50%	+40 mm 8% -6 mm 12.00%	7.00%
54% Fe Iron ore Fines	Guaranteed	54% basis 54% min	7.00% max	8.00% max	0.10% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	54.30%	6.00%	7.00%	0.05%	0.02%	11.00%	+10 mm 4.50% -0.15 mm 30.00%	

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54% Fe Iron ore Lumps (CLO)	Guaranteed	54% basis 54% min	7.00% max	8.00% max	0.10% max	0.03% max	12.00%	+40 mm 10.00%max -6mm 20.00%max	
	Typical	54.50%	6.00%	7.50%	0.05%	0.02%	**8.50% *7.50%	+40 mm 5.00% -6mm 15.00%	
52% Fe Iron ore Fines	Guaranteed	52% basis 52% min	8.00% max	9.00% max	0.10% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 35.00%max	
	Typical	52.50%	7.00%	8.50%	0.05%	0.02%	14.00%	+10 mm 4.50% -0.15 mm 30.00%	
52% Fe Iron ore Lumps (CLO)	Guaranteed	52% basis 52% min	8.00% max	9.00% max	0.10% max	0.03% max	12.00%	+40 mm 10.00%max -6 mm 20.00%max	
	Typical	52.50%	7.00%	8.50%	0.05%	0.02%	**8.50% *7.50%	+40 mm 5% -6 mm 15.00%	
52% Fe Iron ore Fines (Tailings)	Guaranteed	52% basis 52% min	9.00% max	8.00% max	0.10% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 60.00%max	
	Typical	52.50%	8.50%	7.00%	0.05%	0.02%	14.00%	+10 mm 4.50% -0.15 mm 50.00%	
50% Fe Iron ore Fines	Guaranteed	50% basis 50% min	10.00% max	10.00% max	0.10% max	0.03% max	15.00%	+10 mm 5.00% max -0.15 mm 60.00%max	
	Typical	50.50%	9.00%	9.00%	0.05%	0.02%	14.00%	+10 mm 4.50% -0.15 mm 50.00%	

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