



SCOPE

Delivery of steel balls for Drum ball mills in FGD

Title

TECHNICAL SPECIFICATION

for

delivery of steel balls for Drum ball mills in FGD

27.02.15

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Date:

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	ContourGlobal Maritsa East 3 AD	Document №
	Technical specification for delivery of steel balls for Drum ball mills in FGD	Page 2 of 6

CONTENT

1.	Scope of delivery	3
2.	Technical requirements for the delivery	3
3.	Time for delivery	4
4.	Place of the delivery:	4
5.	Access to "ContourGlobal Maritsa East 3" TPP	4
6.	Wrapping, packaging and putting in sets	5
7.	Receiving goods in the storehouse.....	5
8.	Protocols and documents for reference	6

	ContourGlobal Maritsa East 3 AD	Document №
	Technical specification for delivery of steel balls for Drum ball mills in FGD	Page 3 of 6

1. SCOPE OF DELIVERY

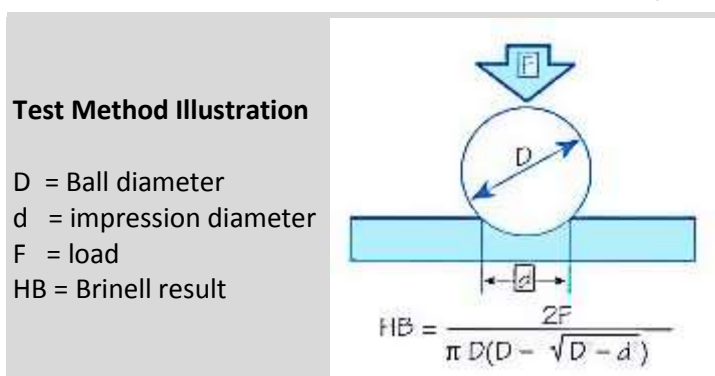
The scope of delivery includes: Delivery of steel balls for Drum ball mills in FGD

2. TECHNICAL REQUIREMENTS FOR THE DELIVERY

2.1 REGULAR SPHERIC SHAPE WITHOUT REMAINING MARKS AFTER THE PROCESSING

2.2 VOLUMETRIC HARDNESS OF THE STEEL BALLS ≥ 496 HB

2.3 SURFACE HARDNESS OF THE STEEL BALLS 560 ÷ 654 HB ISO 6506/ASTM E103




2.4 COMPOSITION:

Elements in %								
C	Mn	Si	Cr	Cu	Mo	Ni	S	P
0,40-0,80%	0,40-1,50%	0,15-0,60%	Max. 1.80%	Max. 0.20%	Max. 0.10%	Max. 0.50%	Max. 0.03%	Max. 0.03%

2.5 SIZE OF THE BALLS:

Ø 60 mm- 200 t

2.6 ADMISSIBLE TOLERANCE FOR ALL DIAMETERS – (-2/+3 mm)

	ContourGlobal Maritsa East 3 AD	Document №
	Technical specification for delivery of steel balls for Drum ball mills in FGD	Page 4 of 6

2.7 THE PACKAGING OF THE STEEL BALLS TO BE IN METAL TANKS WITH METAL COVERS, 2 TANKS IN A PALLET /CAPACITY OF ONE TANK - UP TO 200 L/

№	Description of the commodity /name/	Commodity number	Quantity (ton)
1.	Steel balls Ø 60 mm	ST006038	200

3. TIME FOR DELIVERY

The spare parts to be delivered according to the following schedule:

Description of the commodity	Quantity	MONTH OF DELIVERY
Steel balls Ø 60 mm	100 t	August 2015
Steel balls Ø 60 mm	100 t	October 2015

4. PLACE OF THE DELIVERY:

ContourGlobal Maritsa East 3 TPP is situated 60 km south east of the town of Stara Zagora, 10 km south east of the town of Galabovo and 2 km north of the village of Mednikarovo, Galabovo municipality, Stara Zagora district, close to an open mine Troyanovo 3.

GPS: N-42.143321 и E-26.000856

The goods are delivered to the storehouse which is situated on the territory of ContourGlobal Maritsa East 3 TPP.


5. ACCESS TO "CONTOURGLOBAL MARITSA EAST 3" TPP

The working time with suppliers of goods to storehouse is every working day from Monday to Friday, from 8.30h to 15h. The suppliers shall follow the following rules when delivering goods:

- When delivering letters, packages or goods with small size the carrier of the goods gets a temporary access card after presenting his identity card. The temporary access card gives him the opportunity to enter the power plant and submit the goods to the recipient or to the storehouse, accompanied by a representative of the Contracting authority.
- The permission to have access when delivering goods to the storehouse is given in the following way: The supplier of the goods presents at the cargo gate of the power plant a copy of the Purchase order or other documents certifying that the goods are delivered under a contract or order of ContourGlobal Maritsa East 3 or ContourGlobal Operations Bulgaria. An access card is prepared by a guard at the cargo gate which is signed by the H&S manager.
- Motor vehicles with not washed tires or with not fixed loads are not allowed to enter the power plant.

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	ContourGlobal Maritza East 3 AD	Document №
	Technical specification for delivery of steel balls for Drum ball mills in FGD	Page 5 of 6

- During the loading and unloading activities it is mandatory for the supplier to use the PPE required for work on the territory of the power plant - a hard hat, protective shoes and appropriate working clothes.
- The drivers of motor vehicles transporting volatile materials or materials that can be scattered are obliged to put covers on the bodyworks of the vehicles.
- The drivers of vehicles on the territory of the power plant shall move, stop and park in such a way not to obstruct the movement of other vehicles / firefighting truck, ambulance, business cars/ or people.
- After having delivered the goods to the storehouse, the supplier shall immediately leave the power plant.
- It is absolutely forbidden to bring inside the territory of the power plant alcohol/ including beer/, drugs or other psychotropes as well as to enter the power plant under the influence of such substances.
- It is absolutely forbidden to bring inside firearm, blank guns, cold steel, explosives and nail guns.

6. WRAPPING, PACKAGING AND PUTTING IN SETS

The manufacturing plant wraps, puts the labels on, packages or puts in sets the goods as per the requirements and rules for safe transportation and storage on the basis of its physical and chemical properties.

The purpose of the labeling of the goods is to guarantee that the consumers have access to the full information about the content and the composition of the product in order to protect their health and interests. Other information may give details about some aspect of the product, for example, its origin or mode of manufacture. Some chemical products are also subject of specific regulations. The labeling shall also give clear information about the goods in order to guarantee their safe usage and to allow the consumers to exercise their real choice. Besides, the manufacturing criteria shall be met when packaging the products so that to avoid contamination or damage during their transportation. The wrappings protect the products which are fragile or sensitive to vibrations during processing, storing and transporting by restoring their shape in order to absorb the next mechanical impact. There are different materials and methods to provide that protection and one should select the appropriate ones prior to the distribution of those products.

If there are requirements of the Contracting authority related to the wrapping, packaging, putting in sets and transportation of the goods, they shall be described in detail.


7. RECEIVING GOODS IN THE STOREHOUSE

When delivering goods the Supplier is obliged to advise the date and time of delivery, one day in advance, in order to be organized the necessary equipment for loading and unloading activities.

The materially responsible person from the storehouse certifies by stamping the delivery note or the Hand over protocol that the materials are delivered. Afterwards he informs the Maintenance department via email. Within the end of the next working day the technical person who is responsible for receiving the goods shall perform technical control on the delivered goods/ material and shall sign a Hand over protocol proving that the goods are received. At the same time he fills in the hand over protocol information about the technical control carried out. After that the goods are put on a specific place in the storehouse and the invoice and hand over protocol are submitted to the Accounting department.

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	ContourGlobal Maritsa East 3 AD	Document №
	Technical specification for delivery of steel balls for Drum ball mills in FGD	Page 6 of 6

In case the goods do not meet the requirements from the technical specification or the parameters set in the requisition, or in case there is an ascertained damage which is described in the protocol for the technical control, those goods are returned to the supplier and are not received and accepted in the storehouse.

For each delivery of steel balls there will be non-destructive and destructive control on the integrity, hardness and chemical composition performed in a certified laboratory. If more than 0,1 % of the delivered quantity is in discrepancy with the present technical specification, the goods will be returned to the Supplier.

At “Visual appearance” (broken/semi-cracked balls) parameter control the whole batch of goods will be inspected. In case of semi-cracked balls the exact % shall be defined via measurement and calculation of the % per each m² of the batch surface, then an average result will be taken. When evidencing a presence of over 1% broken balls delivery the result is deemed negative (discrepancy) and goods will be returned to the Supplier.

At “Visual appearance” (surface cracks, furrows, absence of ball parts, remaining marks after the processing and geometric /oval/ form aberration etc.) and “Size” parameters control the whole batch of goods will be checked up. The balls in 1m² will be taken as a base for setting of defective balls % /percentage/. When evidencing an aberration from 3% to 10% per 1m² the result is deemed negative (discrepancy) and goods will be returned to the Supplier.

8. PROTOCOLS AND DOCUMENTS FOR REFERENCE

The goods are accompanied by the following documents:

- Hand over protocol
- Quality certificate by the manufacturer