

TECHNICAL SPECIFICATIONS BOOK FOR GRINDING MEDIA

A cement co. asks for offers for supply of 200 Tons grinding media for cement and raw material ball mills according to the following specifications :

1- Grinding Balls: should be manufactured of two types of cast steel :

A- Balls of diameter 90-60 m m should be of cast steel with chromium content
Cr = 15-19 % and Hardness - HRC

B- Balls of diameter 50 to 25 m m should be of cast steel with chromium content
Cr = 10-12 % and Hardness - HRC

The hardness should be maintained the same inside as well as outside at any cross section .

2- Standard Specifications : German standard specifications DIN are the basis for defining required properties of the offered materials . if other international standards are applied ; the offer should include the relevant specification details and the equivalent DIN specifications ..

3- Inspection of materials :

The co. or its representative inspection co. has the right to make and inspected on the quality of the supplied grinding media during manufacturing and or after supply the supplier should facilitate the entry to his factory for testing .

4- Documents of grinding media and tests :

The supplier should submit with the supplied goods test certifications covering all chemical and physical and physical and mechanical aspects .

5- Packing of grinding media :

In barrels; on which the quality, weight , size of materials should be written clearly, also the supplier name and origin should be included. The weight of each barrel should not exceed one ton .

6 – Wear , Breakage :

The supplier has to indicate and guarantee the following figures in his offer :

A- Specific consumption (gr./ ton) of produced cement (ordinary Portland cement) , should not exceed 60 (gr / ton) .

B- Balls breakage ratio after 1000 working hours . for each size .

7- Geometric form :

The balls should have unified roundness, maximum deference in diameter should not exceed :

2 mm . For Ball Ø 60-90 mm
1 mm . For Ball Ø 25-50 mm

8-- Any other specifications if any .

9- Reference list :

Bidder is requested to submit reference list and annual production of grinding media, the origin and manufacturer should be mentioned .

10- Delivery period :

The shortest possible period and this period will be considered between the basic items of comparison of the offers .

11- Prices : on F.O B . and C+F basis should be included .

12- Required quantity tones :

	DIAMETER Ø (mm)	WEIGHT (Tons)
1	90	30
2	80	25
3	60	20
4	50	25
5	40	20
6	30	45
7	25	35
	Total	200 Tons