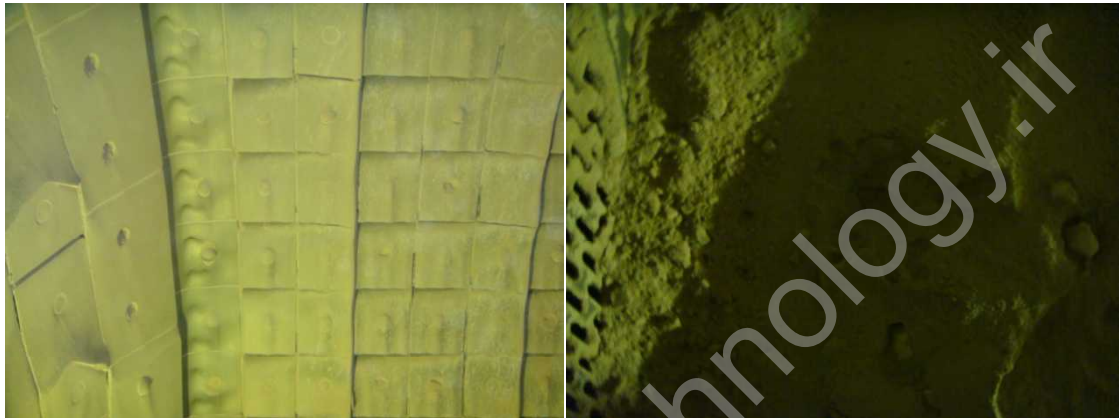


**TEHRAN CEMENT VISIT REPORT OF THE RAW MILL POLYSIUS Ø 5,4 M L 12 M**

Mill production during our visit 310 at 320 T/H

1. The first 18 rings of the liners are completely wearing. Normally it is lifting and classifying liners in three sizes but the lifting slopes are completely wearing and the classifying slopes are wearing at around fifty percents. Due to that they are a high accumulation of big size material near the discharge diaphragm.



2. The grates' slots of the outlet diaphragm are blocked at 70 % . Cause to that the level of the material inside the mill is too high and the efficiency of the grinding media charge is reduced.

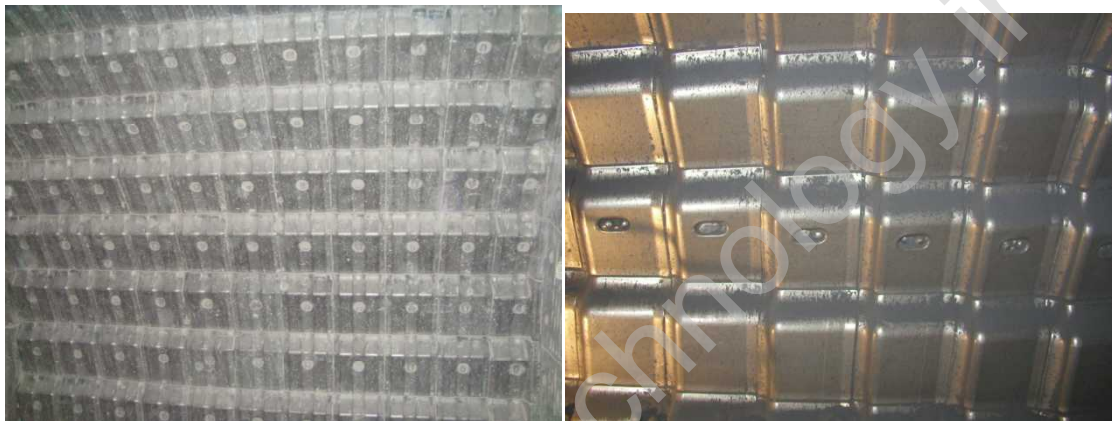




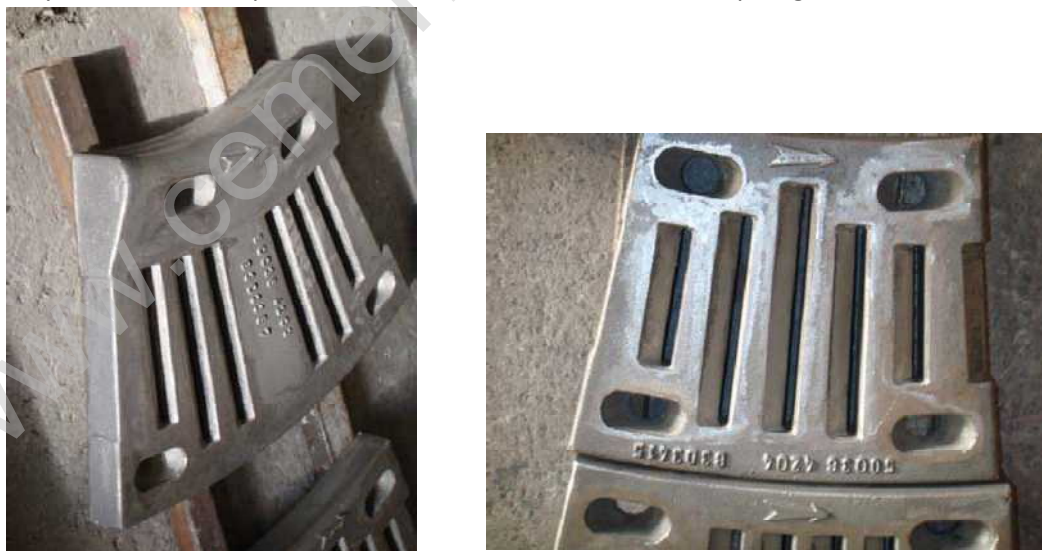
- The rest of the liners are classifying in three slopes but in accordance to the diameter size of the mill the angle of the classifying slope is too flat. Due to that the classification of the grinding media charge is not very good.

#### **GF TECHNOLOGIES RECOMMANDATIONS**

- It is urgent to replace the first eighteen liners rings. The first three meters we will place lifting liners at high efficiency to reduce drastically the big size of the raw material. The rest of the eighteen rings ( 1,5 meter ) we will place a lifting and classifying liners.



- We recommend you to change the outlet diaphragm grates by grates with anti plugging slots. Like that the level of the material will decrease, the grinding media charge will work more efficiently and the speed of the air near the diaphragm will decrease.



- Optional : we could replace the rest of the liners by a classifying more efficient.



**For your information** we will give you the prices of the different sections of the mill like that you could choose to pass us an order for some sections of our recommendations.

1. Liners for the first eighteen rings :
  - A. 648 lifting liners + 32 lifting liners as reserve: unit weight 45 KG material 12% Cr. Hardness 50 – 55 Hrc. Unit price 128,7 € TOTAL: 87516,00 €.
  - B. 324 lifting and classifying liners + 16 lifting and classifying liners as reserve: unit weight 46 kg. material 12% Cr. Hardness 50 – 55 Hrc. Unit price 131,56 € TOTAL: 44730,40 €
  - C. 972 + 48 reserve complete bolts material class 8.8. Unit price 14,00 € Total price: 14280,00 €
  - D. Under liners : 1 set ; TOTAL: 1480,00 €.
  - E. Studying and drawings: 1800,00 €
2. Grates for the outlet diaphragm :
 

Material 27% Cr. Hardness 54 – 58 Hrc.  
 As we don't received a drawing of the existing grates ( weight and number of its ) we could just give you a price per kg. : 3,85 €/kg. and 24,00 € per bolt.  
 Price to do the study and the drawings : 4600,00 €.  
 Price per pattern: 1200,00 €.
3. In option the last eight meters of classifying liners
  - A. Material: 12% Cr. Hardness 50 – 55 Hrc. Medium weight: 36,3 kg. Unit price 103,82 €
  - B. TOTAL: 1728 liners + 51 reserve : 184695,78 €
  - C. Complete bolts class 8.8; Unit price 14,00 € . Total 1728 pieces + 51 reserve : 24906,00 €
  - D. Under Liners : 1 set : TOTAL 2960,00 €
  - E. Studying and drawings : 3600,00 €

**Warranties: If you gave us an order for the first eighteen rings and the outlet grates we warranty you that the production will be increase at minimum 7% and the electrical consumption of the mill's motor will decrease at 3%. If you gave us an order for the complete set of the liners and the outlet gates we warranty you than the production will increase at minimum 10% and the electrical consumption of the mill's motor will decrease at 5% minimum. The last 15% of the payment will be made after we arrive at the performances we warranty you.**

**Life time warranties :**

- A. For the grates : 30000 hours
- B. For the first eighteen rings liners: 45000 hours
- C. For the rest of the liners : 60000 hours

**Delivery time: 15 weeks at the reception of the order.**

**Price: EX work Turkey.**

**Hope to receive an order from your estimate company**

**I wish you a very good day.**

**A.Froidmont**