



THE WEST BENGAL POWER DEVELOPMENT CORPORATION LIMITED
(A GOVT. OF WEST BENGAL ENTERPRISE)
Corporate Identity No. U40104WB1985SGC039154
OFFICE OF THE GENERAL MANAGER,
BAKRESWAR THERMAL POWER STATION
P.O.: BK.T.P.P. : DIST. BIRBHUM-731 104

NIT No.: WBDCL/Tend-Adv/CC/14-15/69/BkTPP **Date:** 05.08.2014

SUB : TENDER DOCUMENT FOR PROCUREMENT OF Grinding Elements 06(Sets)
for 10E10 Coal Mill at BkTPP

Tender Notice No. WBDCL/Tend-Adv/CC/14-15/ /BkTPP Date : .
P.R. No. BKSR: PUR-III/13-14/11400 Date : 27/05/13

Sealed tenders in two parts, Part A (for techno- commercial specification bid) and Part B (for price bid) in duplicate are invited by the General Manager, BkTPP from manufacturer or Supplier to the original manufacturer of Grinding Elements 06(SIX) sets for 10E 10 Coal Mill. Materials specifications for the supply of following material at BkTPP:

Sl.No. Material Code Description of Material Quantity

1.

- a) 00C060087 Grinding Ball Of 10E10 Coal Mill Size 06 SETS
00-0770 To 774 (1Set=10Balls), Indigenous,
Material : 3.5% Chrome Alloy steel
Mechanical Properties :Hardness : 425+/-25 BHN.
Chemical Composition :
0.69-0.72 %C , 0.44-0.47 %Si ,0.68-0.71%Mn ,
0.03-0.036 %S 0.025-0.027 %P ,3.25-3.5 %Cr,
0.29-0.33 %Ni , 1.35-1.60%Mo Rest:- Fe ,
Weight:-1.45-1.50 MT/Ball , Ball OD :770-774mm,
Thickness:- 125mm.Materials are to be properly
Heat treated to achieve said guaranteed life.
- b) 00C060090 Top Grinding Ring Of Coal Mill, Indigenous, 06 NOS
Material :High Chrome white cast iron
Mechanical Properties: Hardness : 600-650 BHN.
Chemical Composition :
2.0-2.8 %C , 0.0.69-1.0 %Si , 0.80-1.5 % Mn ,
0.033-0.06 %S, 0.033-0.06 %P ,18.0-22.0 %Cr,
0.35-1.0 %Ni , 0.5-2.0%Mo,Rest:-Fe. Weight:-7.0-7.3
MT/Ring , Initial Depth of Ring- 105 mm.
Materials are to be properly heat treated to achieve
said guaranteed life.
- c) 00C060091 Bottom Grinding Ring Of Coal Mill, 06 NOS
Indigenous, Material : High Chrome
white cast iron Outer Band (dimension
25 mm thick x100 mm width) is required
to be shrink fitted with Bottom Grinding
Ring for fixing of Rotary Throat. Mechanical
Properties: Hardness : 600-650 BHN.
Chemical Composition :
2.0-2.8 %C , 0.0.69-1.0 %Si ,0.80-1.5 % Mn ,
0.033-0.06 %S, 0.033-0.06 %P ,18.0-22.0 %Cr,
0.35-1.0 %Ni , 0.5-2.0%Mo, Rest:- Fe.

Weight:-4.8-5.2 MT/Ring
Initial Depth of Ring- 100 mm. Materials are to be properly heat treated to achieve said guaranteed life.

- d) 00C060092 **Fill in Grinding Ball for 10E10 Coal Mill 06 NOS**
Size 00699 mm to 702 mm, Indigenous,
Material : 3.5% Chrome Alloy steel Mechanical
Properties: Hardness : 425+/-25 BHN. Chemical
Composition :
0.69-0.72 %C , 0.44-0.47 %Si ,0.68-0.71%Mn ,
0.03-0.036 %S, 0.025-0.027 %P ,3.25-3.5 %Cr,
0.29-0.33 %Ni ,1.35-1.60%Mo,Rest:-Fe. ,
Weight:- 0.90-1.0 MT/Ball Ball OD :699-702mm,
ID:-520mm.Materials are to be properly heat treated
to achieve said guaranteed life.
- e) 00C060897 **Grinding Ball Of 10E10 Coal Mill, 06 SETS**
Size : 770 To 774 mm (1Set=10Balls),
Indigenous, Material: High Chrome (V-20),
Ball OD: 770-774 mm., ID: 520 mm.,
Chemical Composition:
C-2.6-2.8%, Mn-2% max.,Cr-18-22%,Si-1% max,
Ni-1 max%,Mo- 2% max,S-0.04-0.05%,p-0.04-0.05%.
Hardness-500-550 BHN, Material should be properly
heat treated to achieve said guaranteed life.
- f) 00C060898 **Top Grinding Ring Of Coal Mill, Indigenous, 06 NOS**
Material: Hi-Chrome (V-20)
Chemical Composition:
C-2.6-2.8%, Mn-2% max.,Cr-18-22%,Si-1% max
,Ni-1 max%,Mo-2% max,S-0.04-0.05%,p-0.04-0.05%.
Hardness-550-650 BHN, Initial depth of ring-105 mm,
Material should be properly heat treated to achieve
said guaranteed life.
- g) 00C060899 **Bottom Grinding Ring Of Coal Mill, Indigenous, 06 NOS**
Material: Hi-Chrome (V-20)
Chemical Composition:
C-2.6-2.8%, Mn-2% max.,Cr-18-22%,Si-1% max,
Ni-1 max%,Mo-2% max,S-0.04-0.05%,p-0.04-0.05%.
Hardness-550-650 BHN, Initial depth of ring-100 mm,
Material should be properly heat treated to achieve said
guaranteed life. M. S. Band(dimension 25 mm thickx100 mm width)
is required to be shrink fitted with bottom grinding ring for
fixing of rotary throat.
- h) 00C060900 **Fill In Grinding Ball For 10E 10 Coal Mill, 06 NOS**
Size : 699mm To 702mm, Indigenous,
Material: High Chrome (V-20)
Chemical Composition:
C-2.6-2.8%, Mn-2% max.,Cr-18-22%,Si-1% max,
Ni-1 max%,Mo-2% max,S-0.04-0.05%,p-0.04-0.05%.
Hardness-500-550 BHN, Material should be properly
heat treated to achieve said guaranteed life.

2. **Earnest Money: Bank Guarantee/ : Rs. 2,00,000/-**
Demand Draft

3. **Cost of Tender Paper** : Rs. 500/-
4. **Sale of Tender Paper** : 05.08.2014 to 15.08.2014
5. **Last Date of submission of Sealed Tender Paper** : 27.08.2014 at 03:00 PM
6. **Opening date of Tender**
i) Part - A (for technical bid) : 27.08.2014 at 03:00 PM
ii) Part - B (for price bid) : Opening date will be intimated to the Successful i.e technically accepted Bidders later on.

7. **Delivery Period** : 1st G.E. Set will have to be delivered within 04 months after receipt of the FIRM order and thereafter, other sets will be dispatched in each successive months

Qualifying Requirement :

- i) **Guaranteed Life of supplied G.E. set must be 8000 Hrs. NIT has been raised considering both type of item specification, namely (A) &(B). Type (A) specification consists of item under item code No: 00C060087,00C060090, 00C060091 & 00C060092. Type (B) specification consists of item under item code No:00C060897, 00C060898, 00C060899 & 00C060900. Material procurement may be done either (A) type specification or (B) type specification. Combination of few items from (A) type and few items from (B) type will not be accepted.**

ii) **Delivery Schedule: 1st G.E set will have to be delivered within 04 months after receipt of FIRM order & thereafter one set in each successive month.**

iii) **Materials are to be guaranteed for 8000 running hours. In case of failure of Ring and /or Ball prior to achieving 4000 running hours, free replacement of the failed item shall be made .In case of failure between 4001-7999 running hours, the following percentage of the set value will be refunded :-**

- a) 4001 - 5000 running hours - 35%.
b) 5001 - 6000 running hours - 20%.
c) 6001 - 7000 running hours - 10%.
d) 7001 - 7999 running hours - 05%.

In case of any Crack found in Bottom Grinding ring /Top grinding ring during Mill internal checking before completion of 8000 running hours,5% deduction from set value will be made as Penalty even if the Mill can be run up to guaranteed period with the Crack. Please note that these 5% deduction is exclusive from above mentioned running hours guarantee deductions.

iv) **All test certificates & dimensional certificates of Grinding elements are to be submitted with the dispatch documents with a copy to Sr. Mgr.(B/M).Ball No., Ball outer dia., thickness & Ball weight must be painted/embossed in each ball & the same should also be mentioned in dimensional & Test certificates clearly. Top & Bottom grinding element Casting No. should be painted/embossed in each Grinding Element & the same should also be mentioned in dimensional & Test certificates clearly.**

v) **During delivery to BK.T.P.P. Store, Bottom ring Grinding Track must be Upper side & Top ring grinding track must be in Lower side.**

vi) **Proper seating of Outer band in Bottom ring with proper hole position to fix rotary throat segment must be ensured. Outer band Top surface should be at same level as that of the Bottom ring Outer surface. Uniformity of Outer band top surface should be maintained properly.**

vii) **Grinding ball to ball weight variation should be maintained within +/- 25 kg (total 50 kg) with respect to average actual weight of balls in a set.**

viii) **Inspection will be done by the representative of the Sr .Mgr (MM-B) at BkTPP Store after effecting delivery.**

ix) **Transit Insurance is to be arranged by the party and relevant charges at actual will be reimbursed by WBPDCCL.**

x) **All BGs must be on any only Nationalized Bank in the prescribed format**

- xi) Only manufacturers with proven prior experience in supplying above size grinding rings & balls for such applications are allowed to bid for the above critical items.**
- xii) No manufacturing drawings will be provided to the bidder.**
- xiv) Grinding elements set (all four items) must be supplied by a single vendor irrespective of individual items price.**
- xv) In case offer/s are found acceptable, the facilities available shall have to be approved by our quality/technical wing, and WBPdcl- BkTPP reserves the right to accept /reject any/all offer/s without assigning any reason.**
- xiv) Price will be quoted against Supply of 1 new Set of G.E (1 set of Grinding Element comprising of 1 no. top ring & 1 no. bottom ring and 10 nos standard size balls & 1 no Fill- in ball)**
i) with 1 set of used G.E. will be supplied (buy-back) to the vendor by BkTPP.
ii) without buy back of GE set.
Transportation of used G.E. Set on the party's scope but loading at BkTPP to the transporter will be made by WBPdcl
- xv) There may be a provision for repeat order of 50% of the total ordered quantity from the supplier with the same price & terms & conditions**
- xvi) Standard Terms & Conditions are enclosed separately.**

Detailed terms & conditions are set forth in the Tender Paper (Non - Transferable) which can be obtained from the Sr. Manager(S&P), BkTPP on application and on production of Sales Tax / VAT Registration Number, PT Registration Certificates and Credential of successful completion of similar nature of supply along with the cost of Tender Paper to be deposited in the Account Section, BkTPP from 10.30 AM to 01.30 PM (except Saturday, Sunday and Holiday). Tender Paper will not be issued against DD / MO / Cheque and by post. If any change or extension of due date or any corrigendum, may please visit website. The WBPdcl reserves the right to accept or to reject any or all tender either in full or in part or to split up, if necessary without assigning any reasons whatsoever. For qualifying requirements and other details visit website www.wbpdcl.co.in

**(T.K.Bose)
Sr. Manager(S&P)
BkTPP : WBPdcl**