



# Odisha Power Generation Corporation Limited IB Thermal Power Station, Banharpali

**AT/PO: BANHARPALI, DIST. JHARSUGUDA, PIN-768234 (ODISHA), INDIA,**  
Telephone No. 06645289354, Tele Fax No. 06645 289 355  
E-Mail address: [bn.das@opgc.co.in](mailto:bn.das@opgc.co.in); [bkmishra@opgc.co.in](mailto:bkmishra@opgc.co.in); [bhadoo.jojowar@opgc.co.in](mailto:bhadoo.jojowar@opgc.co.in)

**SAFE & CLEAN POWER IS OUR COMMITMENT  
AN ISO-14001, OHSAS-18001 ORGANISATION**

*Tender documents against  
NIT No. ITPS (Purchase)/2018-2019/18(P)Dt. 10/08/2018  
FOR "Supply of High chrome Balls 50mm for BBD 4760 Ball Tube Coal Mill to IBTPS".*

<i>Date of Sale of tender paper</i>	<i>17<sup>th</sup> Agust-2018 to 27<sup>th</sup>- August – 2018 up to 17.00 hrs.</i>
<i>Date of Receipt of Bid</i>	<i>6<sup>th</sup> Sept-2018 up to 15.00 hrs at the office of the undersigned</i>
<i>Date of opening of tender</i>	<i>6<sup>th</sup>Sept – 2018 at 15.30 Hrs.</i>
<i>Availability of Tender paper</i>	<i>Tender documents can be availed free of cost from the office of the undersigned during working hours.  Tender documents can also be downloaded from our web site <a href="http://www.opgc.co.in">www opgc.co.in</a></i>
<i>EMD</i>	<i>Rs. 17,000.00 (Rupees Seventeen thousand only)</i>

AGM - (Purchase)



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali



ODISHA POWER GENERATION CORPORATION LIMITED  
IB THERMAL POWER STATION  
At/PO: BANHARPALI, DIST: JHARSUGUDA – 768 234 (ODISHA)  
Telephone; 06645-289354/356. Telefax: (06645) 289 355 ,  
Email: purchase@opgc.co.in; bn.das@opgc.co.in; bkmishra@opgc.co.in;

### NOTICE INVITING TENDER

Sealed bids in the prescribed format are invited for supply of the following item to IB-Thermal Power Station, Banharpali as per the tender terms & conditions stipulated in the tender documents.

Tender No.	Description	Bid Sale / Issue date	Bid receipt / Opening	Bid Type
NIT No. ITPS/Purchase/ 2018-19/ 18(P), Dt. 10-08-2018	Supply of 50 mm size High Chrome Ball to IBTPS	17-08-2018 to 29-08-2018	06-09-2018/ 06-09-2018	Two Bid

**NB: (i) Time of submission/Receipt of bids: upto 15:00Hrs, (ii) Time of opening of bids: 15:30Hrs. Tender Document will be available free of cost as per schedule mentioned upto 17:00 Hrs. from the office of the AGM(Purchase), ITPS, Banharpali, Jharsuguda. Detailed NIT is also available at our website [www.opgc.co.in](http://www.opgc.co.in). Any amendment and corrigendum to this NIT shall be posted in OPGC web page only. Firms are requested to visit our website regularly for any amendment of the present bid till finalization of bidding process and information for participation against various tenders. Tender documents can also be downloaded from our website.**

M/s OPGC Ltd. reserves the right to accept/reject/split any tender without assigning any reason thereof and will not be responsible for any delay in postal/courier.

Sd/-, AGM(SCM),

**SAFE & CLEAN POWER IS OUR COMMITMENT**



**Odisha Power Generation Corporation Limited**  
**IB Thermal Power Station, Banharpali**

NIT No. ITPS (Purchase)/2018-2019/18P) Dt. 10/08/2018

**Check List**

<b>Sl. No.</b>	<b>Description</b>	<b>Yes/No &amp; page reference.</b>
1	<i>Whether the Technical Bid and Price Bid are submitted in separate covers and both the covers enclosed in a common envelope.</i>	
2	<b>Whether envelope A contains:</b>	
	<i>a) Earnest Money Deposit (EMD) amount</i>	
	<i>b) Pre-Qualification details as laid down in the Tender under Eligibility Criteria.</i>	
	<i>c) Technical Bid in the original Tender document and other supportive documents</i>	
	<i>d) The Profile of the Company</i>	
	<i>e) Letter of Authorization for signing the Tender document. -</i>	
	<i>f) The filled up and signed Technical Specification -</i>	
	<i>g) Audited Annual report for the previous two years</i>	
	<i>h) Certificate of incorporation of the company</i>	
	<i>i) Whether all the pages of the tender documents including of Annexure signed with official seal.</i>	
3	<b>Whether Envelope-B contains:</b>	
	<i>Filled up and signed Price Bid documents in the price bid form in full, with price details</i>	



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### **Tender Specification for supply of High Chrome Balls for MILL BBD 4760 to IB THERMAL POWER STATION**

*Ib Thermal Power Station, At/PO: Banharpali, Dist. Jharsuguda (Odisha), PIN: 768234 is a unit of Odisha Power Generation Corporation Limited a Govt. of Odisha undertaking in joint Venture with AES America and engaged in generation of 2x210 MW Thermal Electric Power. The Plant site is about 17 Kms. from Belpahar Railway Station and 40 Kms. from Jharsuguda Rly. Station on S.E. Rly. on the Mumbai- Howrah main line.*

*Sealed tenders are invited from the reputed manufacturers only in their own letter pads for supply of High Chrome Balls for BBD 4760 Ball tube Coal MILL. The tenderers must be a manufacturer and have in line experience, financial capability and have supplied such items to other industrial concerns of repute.*

<b>Sl.No.</b>	<b>Item description</b>	<b>Qty</b>
1	High Chrome Balls 50 mm Diameter for BBD4760 Ball Tube Mill	25 MT

*The tenderer must submit relevant credentials in support of their claim of being manufacturer and copies of purchase orders in support of supply of said items to other concerns of repute along with their offer. The bidders shall have to submit their offer in two parts.*

*Third party inspection if required to be done by TATA projects/Lloyds /RITES/Bureau Veritas or any other agency acceptable to OPGC. The purchaser shall have right to go for independent testing at any Govt. Approved / NABL*

*Lab at his own cost from the sample drawn & the test results so obtained shall override the former & shall be binding. On obtaining acceptable test results dispatch clearance shall be given for the inspected lot.*

*The bid will consist of two parts. Both the parts should be placed separately and to be submitted together in a single envelope on or before Bid Opening date.*

#### **1st Part bid:**

*Should contain EMD, Documents in support of fulfilling the Qualifying Requirements and Techno commercial Bid. This envelope is to be superscribed with "Enquiry No., BOD, 1st part: EMD + Qualifying Requirements + Techno-Commercial Bid"*

**2nd Part bid:** *Should contain Price Bid and should be superscribed with "Enquiry No. , PRICE BID".*



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

**NIT No. ITPS (Purchase)/2018-2019/018(P) Dt.10/08/2018**

### **PART-1 TECHNICAL BID**

**(I) 1.0: Minimum Qualifying Criteria:**

- a. The agency shall be a manufacturer of HC grinding Media Balls. The party shall submit documentary evidence for having credible manufacturing facility needed for manufacture of the product.
- b. The average turnover of the supplier for last three financial years shall be at least Rs.50 lacks. The agency shall submit necessary documentary evidence in support of these criteria.
- c. The party shall have supply credential at least two consignments to any Govt. Power Utility Plants/any Reputed Power Utility plant having similar type of coal mill (BBD 4670 Ball Tube Mill) or higher. The agency shall submit necessary documentary evidence in support of this criteria.
- d. The party should not have been blacklisted, faced order cancellation in last 5 years. The agency shall submit self-certified letter on companies' letter head in support of this qualifying criteria.

1.1: Certificate in support of Status as manufacturer is to be enclosed. Bidder should have own Manufacturing unit with a production capacity of an average of 100 MT/month.

1.2: The bidder should have supplied Hi-chrome grinding Balls for the coal pulverizer of dia. 50mm or above during last five years as on date of bid opening in

i) Three orders with value of each order not less than Rs.12.80 lakh.

OR

ii) Two orders with value of each order not less than Rs.15.00lakh each.

OR

iii) One order with value of not less than Rs.25.00 lakh.

1.3 The bidder should have heat treatment facilities and testing facilities for Hi Chrome grinding balls. The testing facilities shall include spectrometer hardness tester and microscope of magnification 1000X minimum for microstructure analysis. The bidder has to confirm their availability and the availability of calibration certificates of the machines. Documents in regard to Heat treatment / Quality Control facilities as mentioned to be submitted.

1.4 Financial Criteria: The bidder should have a good financial capability. Bidder shall submit Audited Balance sheet including Annual Turnover of last Three Years. They should also submit profit loss account of the preceding 3years.

1.5 EMD of Rs.17,000.00(Rupees Seventeen thousand only).

**NB: (i) Vendor must mention "EMD towards TE No.- ITPS (Purchase)/2018-19/18(P), dt.10.08.2018 while making the NEFT/RTG. Vendor must furnish their Bank details with their cancelled Blank cheque, PAN number, GST Number, UTR Number& date and Bank name to which EMD is credited must be clearly mentioned for easy tracking of the deposits.**

**(ii) EMD is mandatory. EMD exemption is not allowed to any firm irrespective of SSI or NSIC.**

1.6 PAN No.; GST No. Photocopy of the certificates to be submitted. (Not applicable for overseas vendor. Export license if applicable to be submitted).

1.7 Bidder must confirm to supply as per the technical specification of the grinding media ball stipulated.

1.8 The offers of those bidders will not be considered for evaluation who have not executed/supplied the complete order on the ground of poor quality material supply to OPGC or to other reputed PSU or any Large Power Utilities including Private Sector for similar Coal Mill (BBD 4670 Ball Tube Mill) or higher. OPGC reserves the right to verify with other PSU/other large Power Utilities for the execution of order based on the documents they submit by them and will take the decision in the cases of new vendors.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

**Notes: In case where audited results of the last preceding financial years are not available, certification of financial statements from a practicing Chartered Accounts shall also be considered acceptable.**

Notwithstanding anything stated above, OPGCL reserve the right to assess the capability and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of the OPGC.

**Note – Documents submitted by the bidder are presumed to be genuine. At any stage, before and after award of Order, if any of the submitted documents is found to be fraudulent /fake, OPGCL reserves the right to cancel the Offer / Order as well as take punitive action as per contract, including debarment of the bidder in future tendering. The documents submitted must be clear, legible in all respect.**

Sl. No.	Minimum Eligibility Criteria	Proof to be submitted for fulfilling the Eligibility	Page Ref. No. of the Document																				
1	a) Manufacturing Facilities Bidder should have own manufacturing unit with a production capacity of an average of not less than 60 MT/month.	Bidder should provide the Documentary evidence. Details such as no. of furnaces and capacity. Manufacturer certificate.																					
	b) The bidder should have supplied Hi-chrome grinding Balls of dia 40mm/50mm or above during last five years as on date of bid opening in:- i) Three orders with value of each order not less than Rs. 12.50lakh each OR ii) Two orders with value of each order not less than Rs. 15.00 lakh. OR iii) One order with value of not less than Rs.25 lakh	Bidder should provide the Documentary Evidence. (Any one Purchase Orders Satisfactory supply Completion Certificate & Performance Certificate)																					
2	a) The bidder should have heat treatment facilities and testing facilities for Hi - Chrome grinding balls. b) The testing facilities shall include spectrometer hardness tester and microscope of magnification 1000X minimum for microstructure analysis. c) The bidder has to confirm their availability and availability of calibration certificates of the machines.	Documents in regard to Heat treatment / Quality Control facilities as mentioned to be submitted.																					
3	Bidder should have annual turnover of minimum Rs.50 lacks for the last three financial years.	Bidder should enclose the Tax audit report/Audited Balance Sheets for the last three audited year																					
4	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Elements</th> <th style="text-align: left;">Percentage</th> </tr> </thead> <tbody> <tr> <td>Carbon (C)</td> <td>2.5 to 3.5%</td> </tr> <tr> <td>Manganese ( Mn)</td> <td>1.0% Max</td> </tr> <tr> <td>Chromium (Cr)</td> <td>13.0 to 18.0%</td> </tr> <tr> <td>Nickel (Ni)</td> <td>1.0% Max</td> </tr> <tr> <td>Silica (Si)</td> <td>1.0% Max</td> </tr> <tr> <td>Molybdenum (Mo)</td> <td>1.0% Max</td> </tr> <tr> <td>Copper (Cu)</td> <td>1% Max</td> </tr> <tr> <td>Sulphur (S)</td> <td>0.1% Max</td> </tr> <tr> <td>Phosphorous (P)</td> <td>0.1% Max</td> </tr> </tbody> </table> <p>Chemical composition &amp; other metallurgical structure &amp; properties shall be as per <b>Annexure-I "Special instruction &amp; Technical Specification of Hi Chrome Grinding media Balls"</b>.</p>	Elements	Percentage	Carbon (C)	2.5 to 3.5%	Manganese ( Mn)	1.0% Max	Chromium (Cr)	13.0 to 18.0%	Nickel (Ni)	1.0% Max	Silica (Si)	1.0% Max	Molybdenum (Mo)	1.0% Max	Copper (Cu)	1% Max	Sulphur (S)	0.1% Max	Phosphorous (P)	0.1% Max		
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5	EMD Submitted Rs.17,000.00																						
6	Photocopy of PAN & GSTIN submitted.																						
7	Performance Certificate Submitted.																						



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## IB Thermal Power Station, Banharpali

### **(II) Special instruction & Technical Specification of High Chrome Grinding Media Balls:**

#### **Special Instruction:**

- 1) Party has to supply the Grinding media ball as per the enclosed specification in Annex – I to Crush 4,25,000 MT of the coal \*. This complete supply shall be made in one lot. The rated fineness should not be less than 70% through 200 Mesh.  
\*The specification of the Coal which is being received at OPGC is enclosed in Annexure-III.
- 2) Guarantee: Maximum wear rate should be less than 125 gms/ Tons of the coal grind shall be guaranteed. Party has to specify the wear rate in the range of (+/-) 10gms/Tons of the quoted wear rate. The wear rate with specified range should not exceed 125 gms/T of coal grind.
- 3) In case of higher wear rate, vendor shall supply additional grinding media ball at free of cost.
- 4) Party has to provide the Bank Guarantee for the compliance of the wear rate of the grinding media ball as specified in the offer by the party.
- 5) The Vendor has to provide the Bank Guarantee for the amount equivalent to the 25 MT of the Grinding media ball valid for the period of one year from the date of service or 18 months from date of supply whichever is earlier.
- 6) In case party fails to supply the additional grinding media ball if the wear rate is found higher than the guaranteed wear rate, the BG will be encashed.
- 7) Party has to supply the material as per the enclosed QAP. Party has to give the confirmation for that or otherwise their offer is liable to be rejected.
- 8) Evaluation of the bid shall be done as defined in **Annex- II**.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### Annexure-I

Technical Specification of High Chrome Grinding Media Balls:

The specification of High Chrome grinding media used for Tube Mill for coal pulverizing is as follows:

**(i) Chemical composition:**

Elements	Percentage
Carbon (C)	2.5 to 3.5%
Manganese ( Mn)	1.0% Max
Chromium (Cr)	13.0 to 18.0%
Nickel (Ni)	1.0% Max
Silica (Si)	1.0% Max
Molybdenum (Mo)	1.0% Max
Copper (Cu)	1.0% Max
Sulphur (S)	0.10% Max
Phosphorous (P)	0.10% Max

**Cr/C Ratio shall be maintained in the range of 4 to 6.**

(ii) Hardness: 60HRC Minimum

(iii) Heat Treatment: Heat to 950+/- 50Deg Centigrade, Hold for 2 to 3hrs and oil quench.

(iv) Micro structure: The micro structure of the ball after the heat treatment shall reveal tempered martensitic matrix with finely dispersed complex carbide.

(v) Retained Austenite: 15% Maximum

(vi) Dimensional Inspection: Dimensional tolerance: +/- 3mm

(vii) Maximum guaranteed wear rate – 115(+/-) 10gms per MT.

Party has to specify the wear rate of grinding media ball offered \_\_\_Gms/MT. The evaluation shall be done on the basis of that. The sample evaluation sheet is attached See **Annexure-II.**

(viii) Surface examination: Following defects are acceptable.

(a) Sand and slag inclusion: If the defect is more than 2.0mm and the mean dimension of the defective area is more than 1/10<sup>th</sup> of the dia of the ball. In case of scattered defects, total area of all the defects put together is to be considered.

(b) Mismatch: If the mismatch is more than 2.0mm.

(c) Extra Ingate & depression at ingate: If exceeds following limit.

Size ( Diameter)	Extra Ingate (mm)	Depression at Ingate(mm)
50mm & below	3.00	3.00

(d) Ovality: If exceeds the following.

Size(Diameter)	Ovality (%)
50mm	7.0

**Ovality is defined as = (Maximum dia. – Minimum dia.)/Nominal dia.**





# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### **Annexure-II**

#### **EVALUATION CRITERIA:**

The bid guaranteeing wear rate more than 125Grams/Ton of coal crushed will not be considered for evaluation and shall be rejected. Further, no evaluation credit will be given for guaranteed wear rate less than 75Grams/Ton of coal crushed.

The evaluation of the bids shall be based on the total of High Chrome Grinding Balls required including the initial fill and the top up as per the wear rate which has been specified by the Bidder.

**The Sample evaluation method is enclosed and the same shall be followed for computing the total price and lowest bidder will be selected.**

<b>Sl.No.</b>	<b>Description</b>	<b>Bidder-A</b>	<b>Bidder-B</b>	<b>Bidder-C</b>
1	Total MT of coal crushed	425000	425000	425000
2	Guaranteed wear rate of Hi Chrome Ball	80	125	100
3	Total quantity of Hi Chrome Grinding media Ball (MT)	$(425000 \times 80) / 1000000 = 34$	$(425000 \times 125) / 1000000 = 53$	$(425000 \times 100) / 1000000 = 42.5$
4	Initial Fill (MT)	75	75	75
5	Total quantity required for one mil(MT)	109	128	117
6	Price quoted per MT	75000	60000	65000
7	Total Ex works price	8175000	7680000	7637500
8	Status	L-3	L-2	L-1

**ANNEXURE-III**

<b><u>Coal Characteristics:</u></b>		
<b><u>Proximate analysis: Range</u></b>		
<b>Moisture</b>	-	<b>11 % to 22%</b>
<b>Ash</b>	-	<b>24% to 35%</b>
<b>HGI</b>	-	<b>55% to 60%</b>
<b><u>Ash Analysis:</u></b>		
<b>Silica</b>	-	<b>50% to 60%</b>
<b>Alumina</b>	-	<b>25% to 30%</b>

**(III) Production Facility: Heat Treatment Facility; Quality Control Facility; Experience; approval; Design Capability, Guarantee details: Bidder should have the following:**

**A. PRODUCTION FACILITIES:**

- a) Solid state controlled medium frequency induction melting furnaces for rapid and homogeneous alloy melting.
- b) High pressure rapid mechanized moulding line.
- c) Integrated on line automatic sand plant complete with knock off machine, cooling system, cyclone separator and magnetic particle separator.
- d) Precise control of pouring temperature by immersion pyrometer.
- e) Core sand mixer and electric core oven.
- f) Rotating Breaker Drum for effective segregation of physically defective grinding media, runners & risers etc.
- g) Facilities for manufacturing both liners and grinding media in order to ensure good compatibility and thereby derive optimum performance.

**B. HEAT TREATMENT FACILITY**

- a) Computer controlled programmable multizone continuous pusher type furnace with multipoint Auto temperature controllers/recorders.
- b) Electrically heated bogie hearth furnace.
- c) Air and Oil quenching terminals.
- d) Tempering furnaces with air circulation for imparting precise heat treatment cycle appropriate to specific alloy grade.

**C. QUALITY CONTROL FACILITIES**

- a) On line chemical analysis facilities involving computerized vacuum emission spectrometer with reading element accuracy up to 0.001 % with ferrous background and with microprocessor base.
- b) Leco Carbon – Sulphur determinator for accurate and rapid analysis of carbon and Sulphur.
- c) Metallurgical microscope for macro and micro structure evaluation.
- d) Full-fledged control laboratory for evaluating hardness, impact and other mechanical properties.
- e) Spark erosion machine for sampling for measurement of retained austenite and core hardness without affecting metallurgical structure.
- f) Sigma meter to measure through specialized testing, the retained austenite level.  
Retained austenite is to be strictly maintained below permissible limit as hard working conditions in tube mills can result in retained austenite getting converted to martensite resulting in volume expansion leading to:
  - Excessive wear of balls
  - Breakage of balls



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### **D. EXPERIENCE :**

- (a) Bidder should have manufactured and supplied minimum 250 MTs of grinding media balls for Ball tube Coal Mills in High Chrome composition in a year since last three years for BBD mills. Documentary evidence of supplies made to Thermal Power Stations to be provided.
- (b) Established wear rate of 115(-/+10)gms/ton of coal crushed for Hi Chrome Grinding media with Hi Chrome liners. Evidence to be provided for the same.

**E. APPROVAL:** The agency shall submit QAP for purchaser's approval within 10 (ten days) from LOI / PO. Vendors have to submit their QAP of the manufacturing along with the technical bid. OPGCL may prefer the manufacturers, assessed and approved by M/s Stein Industries, France (M/s ALSTOM POWER)/BHEL /NTPC.

### **F. DESIGN CAPABILITY:**

Design capability with facility of test mill at works for wears assessment. Satisfactory performance reports from users for above supply for wear rate established should be furnished.  
Established credentials for process engineering in order to recommend optimized ball charge for various operating conditions.

**G. GUARANTEE:** Wear Rate Guarantee: Ball charge shall be guaranteed for a maximum of 115(-/+10)gms / ton of coal grinding.

Guaranteed Life: The minimum guaranteed life of Hi-Chrome balls shall be of 1500 running hours.

(IV) **FINANCIAL STATUS :** Vendor should be in sound financial condition with good working capital & should be able to undertake supplies of high chrome grinding media. Annual average turnover of the vendor should not be less than Rs.50.00Lakhs in the last 3 years.

The bidder must submit relevant credentials in support of their claim of being manufacturer and copies of purchase orders and performance report in support of supply of said items to other concerns of repute along with their offer.

The Bidders shall have to submit Banker's certificate in support of financial capability along with a statement of Asset & Liability.

### **EARNEST MONEY DEPOSIT (EMD):**

- a. Bidder must submit requisite EMD of **Rs.17,000.00/** Equivalent USD with Exchange rate of 1 USD=69.0530INR(in shape of DD payable on State Bank of India (Code No. 9510) Payable at Banharpali Branch /Central Bank of India, IB Thermal Power Station, (Branch Code No.0283899) / Andhra Bank Adapada(Branch code 0662)in favour of **Orissa Power Generation Corporation Limited /an unconditional and irrevocable Bank Guarantee (BG)** from any of the banks specified in the bidding documents. **EMD SHALL NOT BE ACCEPTED IN ANY OTHER FORM.** The format of Bank Guarantee towards bid security shall be in accordance with the 'Proforma for BG' included in the bidding documents.
- b. The bid security shall remain valid for a period of One Hundred Eight (180) days.
- c. **ANY BID NOT ACCOMPANIED WITH AN ACCEPTABLE EMD (BID SECURITY) SHALL BE LIABLE FOR REJECTION CONSIDERING IT AS A NON-RESPONSIVE BID AND SHALL BE RETURNED TO THE BIDDERS.**
- d. Exemption on EMD to any bidder, Small Scale Industries (SSI) or NSIC (National Small Scale Industries Corporation)Units for the tendered items shall not be extended as per the OPGC tender guide line.
- e. **EMD is mandatory for all category of bidders.**

### **Other Commercial Terms & Requirements:**

- a) Bidder must submit requisite EMD in shape of DD in favour of Odisha Power Generation Corporation Limited payable on State Bank of India (Code No.9510)/Central Bank of India, IB Thermal Power Station(**Code-0283899**), Banharpali/ Andhra Bank, Adapada (Code-0662), Ib Thermal Power Station, Banharpali, Jharsuguda. Overseas vendor may submit DD in corresponding exchange rate of Dollar on the date of submission of bid.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

- b) Photocopies of latest PAN, GST No, and Manufacture certificate registered as per Registration of Company Act/NSIC, status of the firm (Micro, Small or Medium Enterprise) are to be submitted by the bidders.
- c) **Payment Terms:** The bidder has to accept our payment terms i.e. 90% payment with 100 % tax shall be made within 30 days from the date of final acceptance of material & balance 10% shall be released within 90 days against submission of 10% of PO basic value as performance bank guarantee which shall remain valid for a period of 27 months (24 months + 03 months grace period) from the receipt of materials. All payment shall be made in electronic mode. E mandate to be submitted for release of payment.
- d) **Security Deposit:** The bidder has to clarify to submit security deposit i.e. 05% of the P.O. value in shape of DD/irrevocable bank guarantee from a nationalised bank executed on non-judicial stamp paper of appropriate value towards execution of the contract.
- e) **Guarantee:** The bidder shall have to confirm that guaranteed life of Hi-Chrome Ball Mills as 1500 running hours. The poor workmanship and performance and shall be replaced free of cost by the vendor. The defect liability period shall be 03 years over and above the guarantee period.
- f) **Inspection:** The bidder has to clarify to accept inspection by third party. Third party inspection charges if any to be clearly specified. The details of test procedure followed after manufacturing shall have to be mentioned in the techno commercial bid. Test certificate shall be submitted in the supply documents.
- g) The bidder has to submit their valid BIS/ISO registration certificate or any other international accreditation documents.
- h) **Delivery:** The bidder has to clarify to deliver the material on staggered deliver basis with pre despatch inspection by M/s OPGC and/or Third party from the date of receipt of our order/LOI .However OPGCL will have the right to purchase / cancel at any point of time. Schedule of delivery shall be a point for consideration during evaluation of the bid.
- i) **Validity:** The price shall remain valid for a period of 180 days from the date of opening of techno-commercial bid.
- j) **Termination of Contract:** The purchaser reserves the right to terminate the contract at any time with a prior notice of 15 days.
- k) **Dimensions:** Information on shipping weight and cubage (length, width & height) to be provided.
- l) Any deviation from above points shall have to be mentioned clearly in the techno commercial bid.
- m) **Dispatch:** The consignment shall be despatched to IB Thermal Power Station to the consignee on door delivery and freight paid basis after necessary inspection by third party and despatch instruction by OPGC Engineer.
- n) **Standard:** The material to be supplied shall be strictly as per relevant IS. Quality Assurance Plan to be approved by OPGCL before manufacturing.
- o) **Inspection/Testing:** Pre despatch Inspection & Testing shall be carried out by Us/Third Party at your works by your cost. Metallurgical Test Report from govt. Approved laboratory to be submitted along with the supply. OPGCL may incorporate any other testing or inspection in addition to below, if required at your cost.
- Microstructure Analysis.
  - Material Composition.
  - Hardness checking by destructive testing. Difference between core & surface hardness shall be less than 2 Rc.
  - Surface hardness checking.
  - Ball internal structure checking by destruction test, internal structure shall be free of casting defect.
- p) **Samples:** If required, M/s OPGCL shall ask for samples drawn from each consignment in the presence of company's authorised representative and arrange testing in an independent laboratory to check up whether the supplied item are in accordance with the purchase order or not.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

Random sample shall be collected from a lot of 5 MT, which lead to total sample size of 10 Numbers for complete quantity of Hi-Chrome Balls required.

q) **Inspection Details:**

- i) Dimensional Check of 1% of balls per MT selected at random from each container along with visual check shall be done first.
- ii) Hardness at core and surface of balls selected randomly at one ball per MT. The hardness of the balls shall be as per specification mentioned.
- iii) Chemical Check test at one ball per cast to be presented for inspection.
- iv) Sealing of each drum containing of balls for identification is to be done.
- v) If required inspection of raw material or other stage inspection shall be done by OPGCL.

r) **Quantity Variation:** The quantities mentioned in the tender for supply are deemed to be only approximate and not in any manner be binding for order. The variation in supply quantity as per order up to (+/-) 2% shall be acceptable.

s) **Risk Purchase:** The inability of the bidders to execute the order in accordance with delivery schedules will entitle M/s OPGCL to purchase the orders at the risk and cost of the vendors from other sources. The difference in amount shall be recovered from the dues of the vendors. Increase in tax structure due to delay in supply beyond contractual delivery period is to vendor account.

t) **Laws of Governing Contracts:** All Contracts shall be governed by the laws of India for the time being in force. Irrespective of the place of delivery, place of performance or place of payment under this contract, the contract shall be deemed to have been made at place from which the acceptance of tender has been issued.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

<b>MANUFACTURING QUALITY ASSURANCE PLAN</b>											<b>ANNEXURE-IV</b>	
Sl.No.	Component & Operation	Characteristics	Class	Type of Check	Quantum of check	Reference Doc.	Acceptance Norms	Format of Record	TC*	Agency		Remark
										M	C	
1.0	IN PROGRESS INSPECTION											
1.1	Molten Metal	Chemical composition	Critical	Ladle Analysis	1Sample per Heat	As per <b>Annexure-V(A)</b>	As per <b>Annexure-V(A)</b>	Test Certificate	To be submitted	P	R	Chemical composition shall be checked with spectrometer available with supplier
1.2	High Chrome Ball Casting	Surface examination	Major	Visual Check	100%	.....do.....	.....do.....	.....do.....	To be submitted	P	R	
1.3	High Chrome Ball Casting	Heat Treatment	Critical	HT Chart	100%	.....do.....	.....do.....	.....do.....	To be submitted	P	R	
1.4	High Chrome Ball Casting	Surface Hardness	Critical	Measurement	5Ball per H/T Batch	.....do.....	.....do.....	.....do.....	To be submitted	P	R	Hardness to be checked on Rockwell Hardness tester
1.5	High Chrome Ball Casting	Micro Structure Exam & Retained Austenite	Critical	Microstructure	1Ball per H/T Batch	.....do.....	.....do.....	.....do.....	To be submitted	P	R	
2.0	FINAL INSPECTION											
2.1	High Chrome Ball	Surface Hardness	Critical	Measurement	10Balls per 8Drum/PP Bag	As per <b>Annexure-V(A)</b>	As per <b>Annexure-V(A)</b>	Test Certificate	To be submitted	P	W	Hardness to be checked on Rockwell Hardness tester
2.2	High Chrome Ball	Chemical composition	Critical	Chemical Analysis	5Balls per 8Drum	.....do.....	.....do.....	.....do.....	To be submitted	P	R	Chemical composition shall be checked on spectrometer



## Odisha Power Generation Corporation Limited IB Thermal Power Station, Banharpali

2.3	High Chrome Ball	Micro Examination	Critical	Microstructure	5Balls per 8Drum	.....do.....	.....do.....	.....do.....	To be submitted	P	W	
2.4	High Chrome Ball	Retained Austenite	Critical	RA Measurement	1Ball per 25Drum	.....do.....	.....do.....	.....do.....	To be submitted	P	W	Retained Austenite to be checked on Sigma meter
2.5	High Chrome Ball	Dimensions	Major	Gauges	5Balls per 8Drum	.....do.....	.....do.....	.....do.....	To be submitted	P	W	
2.6	High Chrome Ball	Surface examination	Major	Visual	5Balls per 8Drum	.....do.....	.....do.....	.....do.....	To be submitted	P	W	
<b>Legend: M-Manufacturer, C- Customer, P- Perform, R-Review, W-Witness</b>												



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### **ANNEXURE-IV(A)**

#### **MANUFACTURING QUALITY ASSURANCE PLAN**

##### 1 Chemical composition.

<b>Elements</b>	<b>Percentage</b>
Carbon (C)	2.5 to 3.5%
Manganese ( Mn)	1.0% Max
Chromium (Cr)	13.0 to 18.0%
Nickel (Ni)	1.0% Max
Silica (Si)	1.0% Max
Molybdenum (Mo)	1.0% Max
Copper (Cu)	1.0% Max
Sulphur (S)	0.10% Max
Phosphorous (P)	0.10% Max

Cr/C Ratio Shall be maintained in the range of 4 to 6.

2 Hardness: 60HRC Minimum

3 Heat treatment: Heat to 950 +/- 50Deg Centigrade, Hold for 2to 3 hours and oil quench.

4 Microstructure: The microstructure of the ball after the heat treatment shall reveal tempered martensitic matrix with finely dispersed complex carbide

5 Retained Austenite: 15% Maximum

6 Dimensional inspection: Dimensional tolerance : +/- 3mm

7 Surface Examination: Following defects are not acceptable.

a) Sand and slag inclusion: If the defect is more than 2.0MM and the mean dimension of the defective area is more than 1/10<sup>th</sup> of the dia. of the ball. In case of scattered defects, total area of the defects put together is to be considered.

b) Mismatch: If the mismatch is more than 2.0mm.





# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

c) Extra ingate& depression at ingate: If exceeds following limit

Size(diameter)	Extra ingate (mm)	Depression at ingate(mm)
50mm & below	3.00	3.00

d) Ovality: If exceeds the following.

Size(diameter)	Ovality %
50mm	7.00

Ovality is defined as: =  $\frac{\text{Maximum dia.} - \text{Minimum dia.}}{\text{Nominal dia.}}$

\*\*\*\*\*



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

NIT No. ITPS (Purchase)/2018-19/18(P) Dt. 10/08/2018

### **TENDER NOTICE NIT GENERAL TERMS & CONDITIONS**

1. Sealed Tender is invited (in duplicate) for the supply of articles as per details mentioned in the bid. Tender should be submitted in a proper sealed envelope addressed to the Additional General Manager (Purchase Materials); Purchase Department OPGCL- IB Thermal Power Station, Banharpali, Jharsuguda-768234, in variably giving on the cover Tender Notice No., Name of the Articles, and the date of opening and EMD details.
- 2 Basic Qualification of Bidders

This bidding is open to any Manufacturer/ Supplier who provides satisfactory evidence that he :-

- (a) Is a qualified manufacturer or an authorized representative of a qualified manufacturer who regularly manufactures the equipment of the type specified and has adequate technical knowledge and practical experience.
  - (b) Does not anticipate change in the ownership during the proposed period of work (If such a change is anticipated, the scope and effect thereof shall be defined).
  - (c) Has adequate financial stability and status to meet the financial obligations pursuant to the scope of the assignments (The bidders should submit at least 3 copies of their profit and loss account and balance sheet for the preceding 3 years, including turn over).
  - (d) Has adequate plant and manufacturing capacity available to perform the assignment properly and expeditiously within the time period specified. The evidence shall consist of written details of the installed manufacturing capacities and present commitments (excluding the assignments under this specification) of the bidder or his Principal. If the present commitments are such that the installed capacity results in inadequacy of the manufacturing capacities to meet the requirement of equipment corresponding to this bid, then the details of alternative arrangements to be organized by the bidder for this purpose and which shall meet the owner's approval shall also be furnished.
  - (e) Has established quality assurance systems and organization designed to achieve high levels of equipment reliability during his manufacturing activities.
- 3 Amendment in Specifications: OPGCL may revise or amend the specification and drawings prior to the date notified for opening of tenders. Such revision / amendment, if any, will be communicated to all bidders as amendment / Addendum to the specification which will also be **published in OPGC web site. Vendors may visit our website regularly till finalization of tender.**
  - 4 Requirement to read the Tender Specification by Bidder: The bids are requested to go through all the contents of Tender specification before preparing their tender / bids for submission.
  - 5 The quantities mentioned in the Tender Notice shall be deemed to be only approximate and will not in any manner whatsoever be binding on the OPGCL- IB Thermal Power Station.
  - 6 All tenders are to be submitted up to 15:00 hours on the closing date & they will be opened at 15:30 hours on the date specified. Representatives of the bidders those who choose to be present may attend the bid opening.
  - u) The tender shall remain open for acceptance for a period of **180 DAYS FROM THE DATE OF OPENING UNLESS OTHERWISE SPECIFIED**. Tenders with a Validity of Less than 180 days are liable to be rejected/ or have lesser preference than those adhered the tender conditions.
  - 7 Actual percentage of GST of any description whatsoever where leviable and intended to be claimed from the OPGCL-IB Thermal Power Station, should be distinctly shown along with the price quoted.
  - 8 **GST REGISTRATION NUMBER MUST BE INDICATED IN VARIABLY FAILING WHICH OFFER SHALL NOT BE CONSIDERED.**
  - 9 Rates quoted should be F.O.R. IBTPS, Banharpali. In case rates Ex-go down shops , indicate actual amount of Packing and Forwarding charges and railway freight/Road freight up to destination, IB Thermal Power Station, Banharpali, Jharsuguda, Orissa. Jharsuguda is our nearest transport go down which is 40 Kms from IB Thermal.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

- 10 Wherever bidders have entered into the Rate Contract with Director General of Supplies and Disposals they will indicate the same in their tender. They will also certify that the rates quoted are same as are applicable on the rate contract finalized the Director General or Supplies & Disposals.
- 11 Illustrated pamphlet/leaflet and drawing indication technical details/Year of manufacture, Maker's Name, Country of Origin etc. must be enclosed with tender.
- 12 SPECIAL ATTENTION OF THE TENDER IS INVITED ABOUT THE RECEIPT OF TENDER IN TIME TENDERS RECEIVED AFTER THE STIPULATED DATE AND TIME DUE TO ANY REASON WHATSOEVER SHALL NOT BE CONSIDERED TENDERERS ARE REQUESTED TO SEE THAT THE TENDERS ARE DELIVERED IN THE OFFICE BEFORE THE PRESCRIBED DATE AND TIME.
- 13 The delivery period quoted must be specific and realistic. The inability of the successful tenderers to execute orders in accordance with delivery schedules will entitle OPGCL to purchase the stores at the risk and cost of the contractors such failures will also be kept in view while considering that subsequent tenders.
- 14 With regard to acceptance of tender for earlier delivery it should be noted that if the contract is placed on higher tender in preference to the lowest acceptable offer in consideration of earlier delivery the contractor will be liable to pay to OPGCL, the difference between the contract rate and the lowest acceptable, in case of failure to complete suppliers in terms of such contract within the date of delivery specified in the tender and incorporated in the contract. This is without prejudice to other rights of the OPGCL under the terms of contract.
- 15 The time given for delivery or dispatch shall commence from receipt by the contractor of the purchase order. The time for and the date of delivery of dispatch stipulated in the schedule for the delivery or dispatch of stores shall be deemed to be the essence of contract and should the contractor fail to deliver or dispatch the stores or any consignment thereof within the period prescribed for such delivery or dispatch the purchased shall be entitled to withhold payment until the whole of the stores have been supplied and to recover from the contractor a sum of the half percent of the price of any stores which the contractor has failed to deliver or dispatch aforesaid for each and within week or part of a week during which the delivery OR dispatch of such stores may be in arrears subject to maximum of five percent of total of the contract value alternatively at the option of the Purchase shall be entitled to purchase also where on the account & at the risk of the contractor the store of any consignment thereof which the contractor has failed to deliver or dispatch as afore said if not available the nearest available substitute thereof to cancel the contract and the contractor shall be liable for all loss or damage which may sustain by reason of such failure on the part of the contractor.
- 16 Suppliers failing to execute the order placed on them to the satisfaction of OPGC under the terms and conditions set forth therein, will be liable to make good the loss sustained by the Board, consequent to the placing of fresh orders elsewhere at higher rates, i.e. the difference between the price accepted in the contract already entered into the price at which fresh orders have been placed. This is without prejudice to the imposition of liquidated damages.
- 17 It is a condition of the contract that all though the currency thereof, the price at which the tender shall supply stores shall be firm.
- 18 Tenderers may kindly note that it is essential to pay the requisite amount of earnest money in any one of the following form.
- a) Demand draft/b)Bank Guarantee from a Nationalized Bank irrevocable and operative till the validity of the offer.

The earnest money will be liable to be forfeited on revocation of the quotation expired if refused to enter into a contract after the award is made to the tenderer.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

- 19 *Small scale industries/National Small Scale Industries Corporation shall not be exempted from payment of Earnest Money Deposit/Tender Fees as per OPGC tender guide line. **EMD is mandatory.***
- 20 *Successful tenders will have to deposit security by the date specified in the Acceptance of Tender in case they fail to deposit security by the specified date the OPGCL reserves the right to adjust the same from the payment pending with the OPGCL, ITPS, and Banharpali.*
- 21 *OPGCL reserve the right to give preference to those quoting payment and delivery as per bid norms. Loading shall be made for other terms of payment and delivery.*
- 22 *Wherever samples are asked from tenderers the same shall be submitted freight paid through post of Railways/Road Transport and should reach the OPGCL within the stipulated date and time failing which to cognizance will be given to such samples which are received late.*
- 23 *Printed Terms and Conditions on letter heads or Quotation form of tenderers shall not be applicable.*
- 24 *Tendering firms are advised to quote as per our serials number specified in tender notice.*
- 25 *OPGCL Reserves the right to reject all or to any of the tenders or to accept the tender or to accept the tender either in full or in part or to split of the contract without assigning any reason.*
- 26 *The quote price discount if any should be typed both in words as well as in figure without any cover typing. Alternations if any should be made clearly by crossing already entered rates and all such corrections should be attested by the tenderers under their full signature in no case there should be over writing and all tender with such over writing and all tender with such over writing shall be liable for rejection.*
- 27 *Our tender notice No. & due date of opening nature of items and vendors complete address should in variable be indicated on the top of the envelope, Bank charges always borne by the vendor.*
- 28 *Wherever I.S is available please quote as per I.S only, otherwise quote the brand name of the quote items goods must be dispatch through authorized dealer.*
- 29 *The material supplied shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of actual use whichever is earlier.*
- 30 *These terms and conditions shall form a part of the contract.*
- 31 ***EFFECTING OF RECOVERIES:** Any loss, arising incident to non-fulfilment of this contract or any other contract, will be recovered from the Security Deposit held and or any other amount due to the supplier from OPGC.*
- 32 ***PATENT RIGHT ETC:** The Supplier shall indemnify the purchaser against all claims, actions, suits and proceedings for the infringement or alleged infringement of any patent, design or copy right protected either in the country of origin or in India by the use of any equipment supplied by the supplier other than for the purpose indicated by or reasonably to be inferred from the specification.*
- 33 ***Jurisdiction:** All contracts effected between OPGCL and vendor shall be subject to Jharsuguda Court Jurisdiction and shall be governed by Law. It is agreed that no other court shall have jurisdiction to entertain any suit or proceedings, even though, part of the cause of action might arise within their jurisdiction. In case any part of the cause of action might arise within the jurisdiction of any other Courts in Orissa, and rest within the jurisdiction of Courts outside the State of Orissa, then it is agreed to between the parties that such suits on proceedings shall be instituted in a Court within the State of Orissa and no other Court outside the State of Orissa have jurisdiction.*
- 34 ***Arbitration:** In case of any dispute arising out of the supply or interpretation of meaning of the terms in these conditions of purchase or any alleged breach thereof, the same shall be referred to independent Arbitrator/s selected by the aggrieved party and consented by the other party. The arbitration shall be conducted in accordance with the provision of Indian Arbitration Act of 1996 or modifications thereof and award of Arbitrator shall be final and binding on both parties. The arbitrations shall be conducted at Jharsuguda or at such place as decided by Arbitrator. The cost, incidentally shall be borne by the vendor.*
- 35 ***Litigation:** All expenses and cost in connection with litigation, if any, will be to vendor account.*
- 36 *(a) Preparation of comparative statement*



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

The Proforma for comparative statement has been standardized and is as per annexure of manual. CS should be prepared as per proforma and loading actors to be used for loading are as mentioned below (if not mentioned specifically in the offer).

P&F charges	2%
Freight	2%
300 Kms. to 500 Kms.	3%
500 Kms. To 1000 Kms.	4%
Above 1000 Kms.	5%

Insurance 0.086%

(NOTE: Percentage loading will be limited to full truck/trailer load rate for each truck load).

(b) Payment terms loading

1.5% per month (wherever parties have quoted 100% through bank/advance against our standard and payment terms of bid documents)

In case of payment through bank loading for a period 30 days and in case of advance payment along with P.O. the loading for the period of delivery period plus 30 days, may be taken. In case of 90% through bank & balance 10% within 30 days after receipt and acceptance of materials. Loading factor will be  $1.5 \times 0.9 = 1.35\%$ . Accordingly for other payment terms loading factors will be calculated.

(c) Delivery term loading: If the delivery period required as per bid requirement is deviated the loading shall be done @0.5% per week or part thereof for the period over and above the stipulated delivery period. Maximum shall be 10 % of the basic value.

(d) If the PBG clause is not accepted or deviated loading for the same shall be done.

Loading procedures

DI) Basic Price.

DII) Packing & Forwarding charges (on basic price only)

DIII) GST on (Basic + P&F)

DIV) Freight on (Basic+ P&F)

DV) Insurance on (Basic + P&F + GST +Freight)

DVI) Payment Terms Loading on (Basic + P&F + GST+ Freight)

In case on variable prices, Variable GST etc. the following norms/systems will be taken into consideration.

(a) In case of price variation clause (without specific mention of quantum), 10% price escalation per annum may be proportionality loaded.

(b) In case of the bidder stipulates **GST** as applicable at the time of dispatch & specifies the present rate of GST (a numeric percentage or nil), in such case the offer shall be evaluated considering the maximum rate of GST applicable for the product as per GST Tariff of Govt. of India or as evident from the other bids received in the tender.

However, the liability of OPGCL shall be as per actual GST applicable at the time of dispatch, subject to production of authenticate document.. Further the rate of GST shall be restricted to as applicable within the contractual delivery period only. Increase in GST rate in any due delay in supply beyond the contractual delivery period shall not be payable by OPGCL. However the benefit of any decrease in GST shall be passed on to OPGCL.

In case bidders quote with Fixed Rate of GST OR Special GST as NIL" the offer shall be evaluated accordingly. This will be subject to submission of GST invoice copy for having actually paid the GST or otherwise but claim for any upward revision will not be accepted at a later stage.

(Adverse loading in each factor to be done for comparison purposes, in case vender has not mentioned specifically however, for placement of order the lowest/beneficial terms will be indicated).





# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### IMPORTANT NOTICES:

1. Please fill in the proforma for summary quotation as per specimen given.
2. Tenders not specifying the exact rates of taxes and duties (wherever applicable) shall be loaded to the highest slab or may not be considered.
3. **Any deviation in Technical Specification/ terms & conditions shall be clearly specified in details in the deviation statement , failing which shall be deemed the NIT specification & Terms conditions are acceptable in totally unless and otherwise specified in the deviation statement. Deviations mentioned at any other points may not be acceptable and the bid may be treated as unresponsive and in such case bid may be rejected and EMD amount shall also be forfeited.**
4. The suppliers/contractor is required to manufacture the product/carryout the work in controlled condition so as to contain Air pollution, water/land contamination within relevant legislative & statutory requirement.
5. Vehicle must accompany TREM Card for transportation of materials wherever applicable to OPGCL. Driver must carry valid driving license for transporting the materials to OPGCL.
6. Vendor/Representative/Vehicle driver must wear Safety Helmet, Shoes inside the Plant premises.
7. All person(s) connected with OPGCL shall have to adhere the safety rule regulations of the Company.
8. Salient points of HSE (Health Safety & Environment) that are to be considered while submission of offer are:
  - Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuel/chemicals).
  - Competency requirements for operation, maintenance and calibration if any.
    - MSDS to be submitted in case any hazardous chemicals as per MSIHC (Manufacturing, Storage, Import of Hazardous Chemicals (Rules 1989/94/2000 along with onsite and offsite emergency plan (as applicable).
    - Occupational and Health safety control measures for safe working of the equipment offered.
    - Equipment should be fitted with guard for rolling and moving part as per OH&S legislation and Factory Act.
    - The recommended PPE for the equipment to be furnished.
    - Details of all hazardous/harmful substances discharged as by-products/wastes during operations to be mentioned along with their permissible limits.
    - Appropriate pollution controls measures to be taken to keep the emissions from the battery to be clearly mentioned.
    - Chemical banned due to their negative impact on the environment shall not be used in the offered item.
    - Details of disposal practices to be followed to be provided for the chemicals and the Equipments.
    - Primary materials used in the equipment shall be specified and they should be ecofriendly.
9. Vendor shall take all measures necessary steps to maintain integrity in totality throughout the bidding process. He or any of the representatives, third person shall not be engaged in any manner to anybody in the business at any point of time for biasing or indulged in corruption process during any stage of bidding process (pre contract or post contract stage) in order to secure the contract or in furtherance to secure it. Indulgence of such unfair practices will lead to Cancellation of bid, forfeiture of EMD without assigning any reason. Similarly if any person from the purchaser OPGCL demands or do any unlawful act are to be brought to the notice of the management to address the same. If required OPGCL & Vendor have to sign the Integrity Pact to maintain the transparency in the procurement process as per format enclosed.
10. OPGCL reserves the right not to accept the lowest rate quoted by the bidder and reject any or all the offer without assigning any reason whatsoever. M/s OPGC Ltd. also reserves the right to accept/reject/split any tender without assigning any reason thereof.

AGM (Purchase)



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### DEVIATION FROM Techno- COMMERCIAL SPECIFICATION

*All Deviations from the Commercial terms shall be filled in by the Tenderer, Clause by Clause, in this Schedule else bid may be treated as unresponsive. Deviations which are not reflected in this sheet and found at any other point shall not be considered any in such case EMD amount may be forfeited.*

Section No.	Clause No.	Deviation type & details	Remarks/ Page reference no.

*The tenderer hereby certify that the above mentioned are the only deviations from the Techno Commercial terms of the Specification. Deviation points not mentioned in this list shall not be considered*

Company Seal:

Designation:

Company :

Signature :



**Odisha Power Generation Corporation Limited**  
**IB Thermal Power Station, Banharpali**

**STATEMENT OF SUPPLY ORDERS EXECUTED / UNDER EXECUTION DURING  
THE PAST THREE YEARS AS ON THE DATE OF TENDER**

<i>Name of Equipment/Material</i>	<i>Name and Address of the Organisation.</i>	<i>Po No. &amp; Date</i>	<i>Qty.</i>	<i>Value in Rs.</i>	<i>Schedule date of completion of order</i>	<i>Actual date of completion of order</i>

*Company Seal:*  
*Designation:*  
*Company:*

*Signature:*





# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

NIT No. ITPS (Purchase)/2018-19/18(P) Dt. 10/08/2018

### **Additional Instructions for Foreign Bidders.**

1. The Price basis shall be CIF Kolkata Airport / Kolkata Port/Paradeep Port/Visakhapatnam Port.
2. The prices shall be in any freely convertible currency such as Dollar, Pound Sterling, Deutsch Mark, Japanese Yen, Euro only.
3. The prices shall be firm and free from corrections and erasures.
4. The prices shall be valid for 180 days from the date of Bid Opening.
5. Quotation shall be submitted in English Language only.
6. Delivery Period shall be firm and clearly indicated in the Quotation. In case of urgency, early deliveries may be requested.
7. Approximate Dimension of the consignment, Gross and Net weight shall be indicated in the quotation.
8. Packing and Insurance:
  - a. Packing shall be transport worthy to ensure safe delivery considering the nature of the goods.
  - b. Incase insurance shall be arranged by OPGC, the name, address, fax no. and policy no. shall be indicated in the order. Suppliers must send dispatch details by fax/mail to insurance company within 72 hours of handing over the material to carrier.
9. Name and details of foreign advising banker, Country of Origin, Port of Shipment should be indicated in the Quotation.
10. Indian Agency Commission, if any, payable by us shall invariably be included in the CIF Kolkata /Paradeep Port/Visakhapatnam Port price. Percentage of Commission shall be clearly mentioned along with the name and address of Indian Agent. A copy of agreement with Indian Agent shall be furnished along with the Quotation.
11. Indian Agency Commission, if any, shall be paid in Indian Rupees only, subject to the following quantum as per Government of India Guidelines:

a. Up to order value Rs. 5,00,000/-	10% (Max)
b. Between Rs. 500000 to Rs. 10,00,000	7.5%
c. Between Rs. 10,00,000 to Rs. 25,00,000-	5%
d. Over Rs. 25,00,000/-	2.5%

(CIF/FOB cost may be converted into equivalent Indian Rupee value and quote IAC subject to above maximum limit)
12. We would prefer to deal directly with the foreign supplier. In case, if our tender enquiry is forwarded to Indian Agent/ Distributor, we shall be informed of the same. The quotation from Indian Agent/ Distributor shall be accepted subject to following:
  - a. The quotation is submitted in accordance with the above instructions along with copy of Agreement with their Principal.
  - b. Quotation submitted by Agent/ Distributor for and on behalf of Principal, be supported with Authority from the Principal / Power Attorney in favour of Indian Agent duly notarized. format enclosed)
  - c. In the event of quotation submitted in Indian Rupees; Principal's price list, applicable Custom duty and Countervailing Duty (if any), with specific reference clauses and base Exchange rate is to be furnished.
  - d. Agent/ Distributor/ Authorised Dealer must be registered with DGS&D/ Govt. of India.
13. Payment Terms:
  - a. Foreign Supplier: 100% of the CIF/FOB/ FCA price less Indian Agent's commission, if any shall be payable through a Irrevocable Letter of Credit against presentation of shipping documents as called for in the purchase order.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

- b. Indian Agent's Commission: 100% agency commission, if any, shall be payable to the Indian Agent in equivalent Indian Rupees at the rate of exchange applicable as on date of Airway Bill/ Bill of Lading within 30 days of shipment of Materials against Invoice supported by a Certificate indicating exchange rate (TT BUYING), applicable on date of Airway Bill/ Bill of Lading from the Indian Agent's Banker/ Declaration by Central Board of Excise and Customs for the relevant month . In case the date of shipment happens to be Bank Holiday, the exchange rate applicable on the last working day prior to the date of shipment shall be considered.*
- c. All bank charges on account of Letter of Credit payable within India shall be borne by OPGC Limited and those outside India are to be borne by the Foreign Supplier.*
- d. The Letter of Credit shall not allow partial shipment or Transshipment normally.*
- e. The arrangement for transportation by Sea/ Air shall be done by the seller as per instructions given in this regard in the Purchase Order.*
- f. The name of carrier chosen to be clearly mentioned. DHL is preferred carrier for OPGCL.*
- 14. Validity of Letter of Credit: The Irrevocable Letter of Credit to be opened through the Purchasers bank shall normally be kept valid for a period of 180 days. The Letter of Credit shall be opened upon intimation from the supplier about the expected date of dispatch of material. Normally extension of the validity of Letter of Credit will not be allowed.*
- 15. Bidder should note that the exchange Rate applicable on the BOD (Bid Opening Date) shall be considered for evaluation purposes.*
- 16. Following Documents are to be submitted while negotiating through L/C:*
  - a. Invoice/ Airway Bill/ Bill of Lading*
  - b. Certificate of Country of Origin Certified by Local Chamber of Commerce.*
  - c. Packing List with complete details.*
  - d. Inspection/ testing / Guarantee Certificate wherever applicable.*
  - e. Copy of confirmation of our insurance company.*
  - f. Technical Literature if any*
  - g. Psychosanitary certificate for the packing material.*

*Vendors Signature*

*Name and address*



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### PROFORMA FOR SUMMARY QUOTATION For Technical & un-priced Commercial bid ) Part-1

Tender No.: NIT No. ITPS (Purchase)/2018-2019/03 P) Dt.02/04/2018

Sl. No.	Techno Commercial Points	OPGCL Needs	To be filled by the bidder
1	Technical Specification as per Tender Enquiry for supply of High Chrome Balls for BBD 4760 Mills	Accepted/ Not accepted. If not accepted detail deviation and proposal.	
2	Credentials for supply of quoted High Chrome Balls.	Submitted/ Not submitted as per bid requirement.	
3	The bidders should have experience in design, manufacture, supply of grinding media balls as per bid requirement and supplied a minimum of 250MT of balls in last three year. (36 months within date of bid opening)	Yes/ No.	
4	The performance certificates from the industries where used, are to be enclosed. The Performance certificate should be submitted for the installations which are Commissioned in the last ten (10) years as on date.	Yes/ No.	
5	Bidder is a ISO 9001/ISO 14001/ OHSAS: 18001 firm	Yes/No	
6	All Tests to be carried out as per the bid document	Yes/No	
7	Bidder has to submit EMD either in shape of DD payable on State Bank of India (Code No. 9510) Banharpali/Central Bank of India, IB Thermal Power Station, Banharpali(Code-0283899) /Andhra Bank, Adapada (Code-0662), Ib Thermal Power Station, Banharpali, Jharsuguda in favour of Odisha Power Generation Corporation Limited.	Submitted/Not submitted	
8	Price Basis	FOR Destination IB Thermal Power Station. Parties offering FOR Ex. Works please give the place of works.	
9	Packing & Forwarding charges	..... % or Rs..... in Lump sum Inclusive/ Exclusive.	
10	GST	..... % Inclusive/ Extra/Not applicable.	
11	Transportation Cost	Rs.---- per No./Lump sum. As extra/Inclusive.	
12	Transit Insurance	..... % extra/inclusive	
13	Validity of offer	180 days from the due date of opening date of the Part-1 bid.( Techno Commercial). Accepted/Not accepted.	
14	Price shall be remained same for the period of one	Accepted/Not accepted	



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

	<i>year from the date of rate contract order.</i>		
15	<i>Liquidated damage clause is applicable if delivery is delayed beyond quoted delivery date @0.5% per week/part of week subject to maximum of 10% of PO value.</i>	<i>Accepted/ not accepted. Non acceptance shall lead to loading of your offer by 5%.</i>	
16	<i>Submission of security deposit</i>	<i>Accepted/Not accepted</i>	
17	<i>Payment Term: 90% payment with 100% tax of each invoice shall be made within 30 days from the date of final acceptance of material &amp; 10% shall be made within 90 days on submission of 10% of PO basic value as performance bank guarantee valid for a period of 27 months (24 months + 03 months grace period) from the receipt of materials.</i>	<i>Accepted/ Not accepted.(in case non acceptance loading shall be done)</i>	
18	<i>Acceptance of part order quantity</i>	<i>Yes/No</i>	
19	<i>Packing material as per OPGCL term to use non asbestos and environmentally friendly material</i>	<i>Yes/ No</i>	
20	<b>Payment to be made through RTGS mode</b>	<i>Accepted/ Not accepted.</i>	
21	<b>All Bank charges to vendor account</b>	<i>Accepted/ Not accepted.</i>	
22	<b>Tender NIT General Terms &amp; Conditions</b>	<i>Accepted/ Not accepted.</i>	
23	<b>Acceptance to guarantee clause</b>	<i>Accepted/not accepted.</i>	
24	<b>Status of firm as per Micro/Small/ Medium Enterprise</b>	<i>Document submitted /Not Submitted.</i>	
25	<b>List of Deviation statement from tender norms.</b>	<i>Submitted/ Not submitted.</i>	
26	<b>Certificate of approval by BHEL/ Alstom Power(Stein France)/NTPC</b>	<i>Submitted</i>	
27	<b>Average turnover in last three years.</b>	<i>Document submitted/ Not submitted.</i>	

Authorised Signatory:

Name of the firm:

Designation:

Company Seal:

Place & Date.



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### Part-II

**Part-II** is the Price Bid only which should contain the price & details of breakup of the trade discount, Packing, forwarding, Excise duty, Sales Tax, VAT, freight, insurance & Odisha Entry Tax (if any). Supervision and Installation Charges, Third party inspection charges etc.

### PROFORMA FOR SUMMARY QUOTATION for Price Bid (Part-II)

BIDDERS REF.:

DATE:

SI No.	Description of the materials Equipment Service Item wise	UOM	Qty. offered (I)	Unit Rate (II)	Price Basic (III)	Packing & Forwardin g charges (IV)	GST (V)	Estimated freight/Specify mode of transport (VI)	Transit Insurance (specify rate also) (VII)	Total price F.O.R. Destination [(III)+(IV)+(V)+(VI)+(VII)]
1	High Chrome Ball 50 mm Diameter	MT	165							

1. BANK CHARGES(IF ANY):
2. INSPECTION Charges if any:
3. Super vision and installation charges:
4. (i) Deviation in tech. Specification- YES OR NO/ if yes details of the same.  
(ii) Deviation in commercial Terms & conditions- YES OR NO /if yes details with clause No.

Authorised Signatory:

Name of the firm with Seal

Designation:

Place & Date



# Odisha Power Generation Corporation Limited IB Thermal Power Station, Banharpali

***NIT No. ITPS/ (Purchase)/2018-2019/ 18(P), dt.10/08/2018***

*The above two bids should be sealed separately super scribing as **Technical & Un-Priced Commercial (Part-I)** and **Price Bid (Part-II)** as the case may be and enclosed in **third sealed** envelope super scribing **NIT No. ITPS/ (Purchase)/2018-2019/ 18(P), dt.10/08/2018** for **“Supply of High Chrome Balls of Mill BBD 4760 to ITPS due on 06-09-2018”**. Your offer should reach this office on or before **06-09-2018 up to 15:00 hrs.** Part-I (Technical and Un priced commercial Bid) shall be opened on **dt.06-09-2018 at 15.30 hrs.** in presence of either the bidder or their authorized representative. Parties who shall qualify in Techno commercial bid shall be intimated to attend on a future date & venue to keep them present in the opening of Price Bid.*

*The EMD of unsuccessful bidders shall be returned within 45 days of opening of the price bid. If the bids are not submitted in separate sealed envelope, both found in one envelope or if price bid is found in techno commercial bid and vice versa the bids will be rejected.*

*Offer received late due to postal or courier delay shall not be entertained. The bidder at their interest should ensure delivery of the bid well in advance.*

*M/s OPGCL reserves the right to ask more credential/clarification during evaluation of Techno-commercial bid and reserves to extend the date of opening of techno commercial bid & price bid. M/s OPGCL also reserves the right to accept, reject all or any bid & can split among the bidders without assigning any reason thereof.*

AGM (Purchase)

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# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

**PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE**  
(On Non-Judicial Stamp paper of Appropriate Value)

1.0 In consideration of OPGC Ltd. Having its registered office at Zone-A, 7<sup>th</sup> Floor, Fortune Tower, Chandrasekharpur, Bhubaneswar-751023, Orissa herein-in after called the "Owner" which expression shall unless repugnant to the subject or context include its successor & assignees) having awarded to M/s ..... with its Registered/Head office at..... here-in after referred to as the "Contractor" which expression shall unless repugnant to the subject or context include its successor, executors & assignees) a contract by issue of Owner's Letter of Intent No. .... dt. .... and the same having been unequivocally accepted by the contractor resulting in a contract bearing No. ....dated ..... valued at Rs.....for ..... and the contractor having agreed to provide a contract performance

(Scope of work)

Guarantee for the faithful performance of the entire contract equivalent Rs. .... 10% (ten percent) of the said value of the contract to the owner for satisfactory performance of the equipment/materials supplied (as detailed in the said agreement) during the Guarantee period (as detailed in the said agreement) and for the due fulfillment by the contractor(s) of the terms and conditions contained in the said agreement.

2.0 We .....(here-in after referred to as " the bank"

(Name & address of Bank)

having its Head Office at .....

.....do hereby guarantee and undertake to pay the owner, on demand any and all amount payable by the contractor not exceeding Rs.

.....(Rupees

.....) only as aforesaid at any time upto

.....

(days/month/year)

3.0 We ..... do hereby

(Name of Bank)

undertake to pay the amounts due to and payable under this guarantee without any demur, reservation, contest, recourse or protest and/or without any reference to the contractor. Any such demand made by the owner on the Bank shall be conclusive and binding notwithstanding any difference between the owner and contractor or any dispute pending before any court, tribunal or any other authority. The bank undertakes not to revoke this guarantee during the currency without previous consent of the Owner and further agrees that the guarantee herein contained shall continue to be enforceable till the owner discharges this guarantee.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s)/suppliers shall have no claim against us for making such payment.

4.0 We ..... further agree that the

(Name of Bank)

guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all dues of OPGC have been fully paid and its claims satisfied or discharged until OPGC certifies that the terms & conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

5.0 We ..... further agree with the

(Name of Bank)

OPGC that OPGC have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the OPGC against the said contractor(s) and to for bear or enforce any of the terms





# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, postponement or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the OPGC or any indulgence by the OPGC to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

6.0 This guarantee will not be discharged due to the change in the name, style and constitution of the Bank or the contractor(s)/suppliers(s).

7.0 Notwithstanding anything contained herein a) Our liability under this bank guarantee shall not exceed Rs. .... [Rupees .....] b) This bank guarantee shall be valid upto ..... c) We are liable to pay the guaranteed amount or any part thereof under this B.G only and only if the beneficiary/Govt. serves upon the bank a written claim or demand on or before .....

8.0 We ..... lastly undertake not to revoke this

(Name of Bank)

guarantee during its currency except with the previous consent of the OPGC in writing.

Dated the ..... day of ..... 200..

9.0 Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to Rs. .... (Rupees

..... only) and this guarantee is valid upto

..... We shall be released and discharged from all liabilities hereunder unless a written claim for payment under this guarantee is lodged on us within three months from the date of expiry of the guarantee i.e

on or before ..... Irrespective of whether or not the original guarantee is returned to us.

The confirmation of this Bank Guarantee is available within our controlling office. The beneficiary in his own interest should obtain such confirmation from the controlling office at the following address

WITNESS with address

For and on behalf of (the Bank)

Signature .....

1. ....

Name .....

Designation .....

2. ....

Authorisation No. ....

Seal of the Bank .....





# Odisha Power Generation Corporation Limited IB Thermal Power Station, Banharpali

## PROFORMA FOR BANK GUARANTEE IN LIEU OF DD FOR EARNEST MONEY

*(On Non Judicial stamp paper of Appropriate value)*

Ref:

Date:

Bank Guarantee No.

To

Orissa Power Generation Corporation Ltd.,  
IB Thermal Power Station,  
At/Po- Banharpali,  
Dist-Jharsuguda-768234.

Dear Sir,

In consideration of Orissa Power Generation Corporation having its Registered office at 7<sup>th</sup> Floor, Zone – A, Fortune Towers, Chandrasekharpur, Bhubaneswar-751 023 (hereinafter called the "Owner" which expression shall unless repugnant to the subject or context include its successors and assigns) having issued Tender Specification Against NIT No \_\_\_\_\_ dt. \_\_\_\_\_

to M/s \_\_\_\_\_ having its Registered / Head office at \_\_\_\_\_ (hereinafter called the Bidder) who wishes to participate in the said tender for and you, as a special favour, have agreed to accept an irrevocable and unconditional Bank Bid Guarantee for an amount of Rs. \_\_\_\_\_ valid up to \_\_\_\_\_. On behalf of the Bidder, as a condition for participation in the said tender.

We, the \_\_\_\_\_ Bank incorporated under \_\_\_\_\_ law and having one of our branches at \_\_\_\_\_ and having our Registered office/Head office at \_\_\_\_\_ do here by unconditionally and irrevocably guarantee and under take to pay to the " Owner" immediately on demand without any demur reservation, protest, contest and recourse to the extent of the said sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only). Any such claim/demand made by the said "Owner" on us shall be conclusive and binding on us irrespective of any dispute or differences raised by the Bidder.

This guarantee shall be irrevocable and shall remain valid up to \_\_\_\_\_. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instructions from M/s \_\_\_\_\_ on whose behalf this guarantee is issued.

We, the said Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the owner in writing and agree that any change in the constitution of the said tenderer or the said Bank shall not discharge our liability. In witness where of the Bank, through its authorised officer, has set its hand and stamp on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Witness:

(Signature)

(Signature)

\_\_\_\_\_  
Name

\_\_\_\_\_  
Name

(Designation with Bank stamp)

\_\_\_\_\_  
Official Address

Attorney as per Power of Attorney

No. \_\_\_\_\_ & Date:.....



# Odisha Power Generation Corporation Limited

## IB Thermal Power Station, Banharpali

### **Bank MANDATE FORM for e-payment** (To be submitted in Duplicate)

To,  
M/s Orissa Power Generation Corporation Ltd.,  
IB thermal power station,  
Banharpali,  
Orissa

Dear Sir,

Sub:- Authorization for release of payment due from OPGC Ltd through e-mode facilities of RTGS / NEFT / Internet Banking.

We are the regular contractor/Supplier to your organization and are executing work /supplying materials under different Contracts/ Purchase Orders to OPGC Ltd. We request you to release the payment of the outstanding amount electronically i.e, through RTGS, NEFT, Fund Transfer or any other suitable way. The details of our bank account are as follows: -

(Please fill in the information in CAPITAL LETTERS. Please TICK wherever it is applicable)

1. Name of the Party: .....

2. Address of the Party .....

City ..... Pin Code .....  
E-mail ID .....  
Permanent Account Number .....  
Telephone/Cell No.....

3. Particulars of Bank :

Bank Name		Branch Name	
Branch Place		Branch City	
Pin code		Branch Code	
MICR No			
Account Type	Savings:	Current:	Cash Credit:
Account No. ( as appearing in the Cheque Book) :			
(9 Digits code number appearing on the MICR Bank of the cheque supplied by the Bank. Please attach Photo copy of a cheque of your bank for ensuring accuracy of the bank name, branch name & code and Account number)			
IFSC Code			

4. Date from which the mandate should be effective:

I hereby declare that the particulars given above are correct and complete. If any transaction is delayed or not effected for reasons of incomplete or incorrect information, I shall not hold Orissa Power Generation Corporation Ltd responsible. I also undertake to advise any change in the particulars of my account to facilitate updation of records for purpose of credit of amount through internet / RTGS / NEFT.

Place:

Date : Signature of the Party / Authorized Signatory

.....  
Certified that particulars furnished above are correct as per our records.

Bank's Stamp: Date:

(Signature of the Authorized Official from the Banks)