



ODISHA POWER GENERATION CORPORATION LIMITED
(A Government Company of the State of Odisha)
CIN-U40104OR1984SGC001429

Open Tender

Tender document for the Supply of Impact Rollers for Conveyor Belt

Tender No: OPGC/lb Thermal Power Station/Purchase/124/26-27/ET/141[Impact Rollers]

Bid Start Date	Bid End Date	Bid Opening Date
Date: 30.06.2026	Date: 09.07.2026	Date: 09.07.2026
Time: 10:00 hrs	Time: 15:00 hrs	Time: 15:30 hrs

Tender Fee: NIL

EMD : Rs.40,000/- (Rupees Forty Thousand Only)

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A. INSTRUCTIONS TO BIDDERS (ITB)

- 1.1 Scope of Work:** Supply of Impact Rollers for Conveyor Belt, as per ANNEXURE-I.
- 1.2 Qualifying Criteria:** Bidder must meet all the qualifying criteria in the ANNEXURE-II and submit all relevant documents, failing which the bid shall be rejected.
- 1.3 Deviation Clause:** Bidders shall indicate any technical or commercial deviations explicitly in the prescribed Deviation Statement format (refer ANNEXURE-IX). Deviations not listed in the said format shall not be considered. In case of no deviation, the bidder shall clearly mention “NIL” and sign the declaration. Absence of a deviation statement shall be construed as full acceptance of all tender terms and conditions.
- 1.4** The bids are to be submitted online in two parts, i.e. **Techno-Commercial Bid and Price Bid** on the e-portal. Techno-Commercial Bid includes, but not limited to signed bid document (unpriced), technical details, past experience credentials, commercial terms, and Price bid includes price of materials with applicable GST rate and HSN.
- 1.4.1** Techno-Commercial Bid shall be in compliance with the Scope of work/ technical specifications as per BOQ/ Integrity Pact, and Commercial terms are quoted on a FOR destination basis. Bidder must submit a signed and sealed copy of this tender document and Integrity Pact as part of the Techno-Commercial Bid.
- 1.4.2** Price bids are quoted in Indian Rupees inclusive of all charges on FOR basis and excluding GST. Provide GST rate and applicable HSN for the respective items in the available BOQ excel sheet.
- 1.5** The Bidder will have to accept unconditionally the online user portal agreement which contains the acceptance of all the terms and conditions including commercial and general terms and conditions and other conditions, if any, along with on-line undertaking in support of the authenticity of the declarations regarding the facts, figures, information and documents furnished by the Bidder on-line in order to become an eligible Bidder. No conditional bid shall be allowed/accepted and will be rejected outright.
- 1.6 Ernest Money Deposit (EMD):** **Rs.40,000/- (Rupees Forty Thousand Only)**
The EMD must be deposited online through the following link:
<https://payments.billdesk.com/bdcollect/bd/odishapowergenerationcorporationltd/19850>.
- Alternatively, bidders may deposit the EMD by visiting the OPGCL official website at www.opgc.co.in and clicking on “Online EMD Collection” on the home page.
- 1.6.1** Bidder has to upload EMD payment receipt along with bid.
- 1.6.2** Bidder to indicate bid number in the transaction details field at the time of online transfer.
- 1.6.3** If the EMD is submitted in the form of BG, then the validity should be a minimum 180 days.
- 1.6.4** In lieu of the EMD amount, bidders may submit a **Bid Security Declaration Form** in the format enclosed at ANNEXURE-VIII.
- 1.7 EMD Waiver Clause:** The state of Odisha based Micro, Small Enterprises (MSEs) that are registered with DIC/KVIC/KVIB/Coir Board/NSIC/DHH/Udyog Aadhar for the relevant category

and manufacturer of the items under BOQ are eligible to get the benefit of exemption from payment of EMD. The participating bidders have to obtain/register as MSME for the specific service/supply of goods/both and submit the bidder's affidavit (refer the attached format in ANNEXURE-III).

- 1.8 Bidder Seeking Exemption for EMD must enclose the following necessary documents:**
- 1.8.1** MSE (of Odisha State) along with DIC/KVIC/KVIB/Coir Board/NSIC/DHH/Udyog Aadhar for the item under BOQ.
 - 1.8.2** Bidder's affidavit (refer the attached format in ANNEXURE-III)
 - OR**
 - 1.8.3** Bid Security Declaration Form as per ANNEXURE-VIII.
- 1.9 EMD Refund:** EMD would be refundable under the following conditions:
- 1.9.1** Refund of EMD to bidders not qualified within 15 days from the date of opening of the price bid.
 - 1.9.2** Refund of EMD to unsuccessful bidder within 30 days from the date of receipt of PBG and execution of contracts with the successful bidder.
 - 1.9.3** Refund of EMD to the successful bidder within 30 days from the date of receipt of PBG.
 - 1.9.4** No interest will be payable by the Owner on the said amount covered under Earnest Money / other security deposits.
- 1.10 Forfeiture of E.M.D. / Security Deposit:** E.M.D. / Security Deposit shall be liable to be forfeited in the following circumstances:
- 1.10.1** Withdrawal of bid after the last day of submission of tender and before the bid validity.
 - 1.10.2** Backing out to execute the contract agreement.
 - 1.10.3** Non-submission of PBG within the stipulated period.
- 1.11 Performance Bank Guarantee (PBG):** Successful bidders have to submit a bank guarantee within 15 days from the contract date, issued by a Nationalised Bank, including the Public Sector Bank / Private Sector Banks authorised by the RBI to undertake State government Business.
- Bank Guarantee valid for a period not less than the warranty period, is required at the time of entering into the agreement for the performance of the contract, and the same is to be extended by the contractor as and when desired by OPGCL. 100% of PBG will be released within 90 days after completion of the warranty period. (Refer ANNEXURE-VI for PBG format)
- 1.12 Forefeiture of PBG:** The PBG shall be liable to be forfeited in the following circumstances:
- 1.12.1** Seller fails to supply the goods/items as per the orders placed by this organisation within the delivery period stipulated.
 - 1.12.2** Seller fails to replace the goods declared to be not of standard quality or not conforming to acceptable standards, or found to be decayed/spoilt before the date of expiry, or to refund the cost of such goods.
 - 1.12.3** Seller fails to comply with the warranty terms.
 - 1.12.4** Seller fails to deposit the penalty under the risk purchase.
- 1.13 Acceptance of e-Bank Guarantee (e-BG):**
- 1.13.1** Bidders are informed that Electronic Bank Guarantees (e-BG) shall be accepted for EMD, Performance Security, and other applicable securities.

1.13.2 The e-BG must be issued through National E-Governance Services Ltd. (NeSL), with Employer Entity ID: AAACO4759R.

1.13.3 e-BGs submitted in compliance with the above shall be treated at par with physical Bank Guarantees, subject to verification.

1.14 Delivery/Installation: The material shall be delivered within 120 days from the LOI / PO date. The vendor is liable to pay a penalty as per the LD clause.

1.15 Inspection/PDI: Materials shall be inspected at the buyer's site upon delivery. In the event of any discrepancy, defect, or non-conformity with the specified quality or technical requirements, the materials shall be liable for rejection. The supplier shall replace the rejected materials free of cost within 30 days from the date of intimation.

If required, Pre-Dispatch Inspection (PDI) shall be carried out through a buyer-approved Third Party Agency (TPA). The inspection charges of the external inspection agency/TPA shall be borne by the seller. Prior to commencement of PDI, the Quality Assurance Plan (QAP) shall be approved by the Engineer-in-Charge (EIC), OPGCL, and the approved QAP shall be strictly followed during the inspection process.

1.16 Payment Term: 90% payment shall be made within 30 days from the date of final acceptance of material by EIC, OPGCL & 10% shall be released within 90 days on submission of performance bank guarantee amounting to 10% of PO basic value valid for a period of 18 months from the receipt of materials or 12 months from the date of use with an additional 03 months claim period. Bank Mandate duly authorized by Supplier's Banker to be submitted for release of payment through RTGS/ NEFT/ NET. GST and TDS shall be deducted as per government rule.

1.17 Warranty: Warranty period of the supplied products shall be from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at the consignee's location in conjunction with GTC clause no-11.

1.18 Liquidated Damages/Risk Purchase:

(a) If the seller fails to supply the goods specified in the contract and/ or installation within the stipulated period, the seller is liable to pay a penalty at the rate of 0.5 % of the cost of undelivered materials per week or part thereof, subject to a maximum of 05 % of the cost of undelivered materials. If the delay is beyond 10 weeks or less, depending upon the requirement, the buyer reserves the right to cancel the PO and collect the materials from any other source at the risk of the original supplier without making any reference to him. The additional financial involvement occurs if any from procuring other sources shall be recovered from seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).

(b) The supplier must substantiate the power consumption at the compressor outlet post-installation. Failure to meet the guaranteed power consumption will trigger the penalty clause for the differential amount as per clause-6.2 of BOQ.

1.19 Vendor Banning & Blacklisting: If the vendor fails to comply with the terms and conditions of the Purchase Order (PO), including but not limited to delayed delivery, supply of substandard or non-conforming materials, breach of contractual obligations, or withdrawal from the contract after acceptance of the PO, M/s OPGCL reserves the right to ban, blacklist, or suspend the vendor from participating in future tenders and procurements as per OPGC vendor banning policy. Additionally, such action may be communicated to other Public Sector Undertakings (PSUs), government bodies,

and relevant industry authorities. The vendor shall have no claim or liability for such decisions taken by M/s OPGCL in the interest of ensuring reliable and ethical procurement practices.

- 1.20** Bidder/OEM has to submit a self-declaration for compliance with Restrictions under rule 144(xi) of GFR 2017: Restriction on Procurement from a bidder of a country that share a land border with India. (Refer ANNEXURE-VII)
- 1.21** Relevant Terms and Conditions in ITB (Information to bidders) shall supersede the General Terms and Conditions.
- 1.22** 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.

B. GENERAL TERMS AND CONDITIONS

1. In the case of items of a specific make, only manufacturers and their accredited agents/stockiest/authorized dealers are entitled to quote. For this, they should submit an attested copy of the printed price list along with the tender.
2. The tenders submitted must be free from overwriting or eraser. Corrections & additions if any must be attested. Incomplete tender should not be submitted. Tenders received after the due date of opening will not be entertained.
3. The required EMD in the shape of DD payable at State Bank of India (Code-9510)/Central Bank of India, Banharpali (Code-0283899)/ Union Bank of India, Adapada (Code-806625), Ib Thermal Power Station, Banharpali, Jharsuguda in favour of Odisha Power Generation Corporation Limited. Otherwise, you can submit directly in our company name - Odisha Power Generation Corporation Limited, Banharpali. Account number of State Bank of India - 10765789090 (IFSC- SBIN0009510). Account number of Central Bank of India, ITPS, Banharpali – 2062780721 (IFSC-CBIN0283899). Account number of Union Bank of India, Adapada - 066211011000005 (IFSC-UBIN0806625). In case EMD is submitted in the form of DD, the DD shall be valid for three (03) months from the date of opening of the price bid.
4. The offer given must remain valid for 180 days from the date of opening of the price bid.
5. Manuals/Pamphlets/Leaflets and drawings illustrating technical details/year of manufacture, maker name, and country of origin must be enclosed with the tender, sample if required should be submitted along with the tender.
6. The price quoted should be firm and delivery F.O.R destination inclusive of packing, forwarding, transportation and insurance charges except duties & taxes. Rebate discount if any given may also be mentioned.
7. The percentage of GST declared to be charged should be distinctly shown along with the price quoted. GST Registration number must be indicated invariably.
8. The tenderers should be able to complete delivery within 20 to 30 days from the date of receipt of the purchase order/delivery clause as mentioned herein or else LD @0.5% per week or part thereof, maximum @ 5 % will be applicable from the due date against undelivered materials.
9. The tender should be agreeable to our payment terms, i.e. 100% within 30 days of receipt and acceptance of materials at the Site. Payment terms if mentioned under special terms & conditions shall prevail over the above clause.
10. The quality of materials to be supplied should be brand new, free from all flaws, good finish and should be as per technical specification and relevant to IS specification.
11. The merchantability & fitness of the materials should be guaranteed against any manufacturing defect or bad workmanship for 12 months from the date of use or 18 months from the date of supply whichever is earlier. An extra 03 months grace period shall be provided by them for lodging or claiming for the same.
12. The tender must accompany a photocopy of the latest & valid Income Tax Clearance Certificate & Good & Service Tax Clearance Certificate without which the tender will be rejected.
13. Destination means Central stores, Ib Thermal Power Station, Banharpali.
14. Whenever tenderers have entered into a Rate Contract with DGS&D or EPM, they will indicate the same in their tenders and submit a copy of the rate contract as proof of claim.
15. All Bank charges to the vendor's account.
16. The weight of each item after packing shall have to be mentioned in your offer, otherwise maximum freight charges shall be loaded.
17. The quantity indicated in this enquiry is provisional and subject to change.
18. The undersigned reserves the right to accept/reject any or all the tender without assigning any reason thereof.
19. Supplier having past experience means of supplying similar items and credentials to other Thermal Power Stations.
20. Jurisdiction: All contracts effected between OPGCL and the 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 Odisha, and rest within the jurisdiction of Courts outside the State of Odisha, then it is agreed to between the parties that such suits or proceedings shall be instituted in a Court within the State of Odisha and no other Court outside the State of Odisha have jurisdiction.

21. Arbitration: In case of any dispute arising out of the supply or interpretation of the meaning of the terms in these conditions of purchase or any alleged breach thereof, the same shall be referred to an 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 the Indian Arbitration Act of 1996 or modifications thereof and the award of the Arbitrator shall be final and binding on both parties. The arbitrations shall be conducted at Jharsuguda or at such place as decided by the Arbitrator. The cost, incidentally shall be borne by the vendor.
22. Litigation: All expenses and costs in connection with litigation, if any, will be to the vendor account.
23. Force majeure: Any delay or failure to perform the contract by either party caused by acts of god or acts of government or any direction or restriction imposed by the government of India which may affect the contract or the public enemy or contingencies like strikes, riots etc. Shall not be considered as default for the performance of the contract or give rise to any claim for damage. Within 7 days of occurrence and cessation of the event(s), the other party shall be notified. Only those events of force majeure that impede the execution of the contract at the time of its occurrence shall be taken into cognizance.
24. Patents, royalties, seller's liability and compliance with regulations: The vendor shall protect and fully indemnify the purchaser from any claims for infringement of patents, copyrights, trade mark or the like. The seller shall also protect and fully indemnify the purchaser from any claims from the seller's workman/employees, their heirs, dependents, representatives etc. Or from any other person/persons or bodies/companies etc. For any act of commission or omission while executing the order. Seller shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the purchaser from any claims/penalties arising out of any infringement.
25. Vendor Banning & Blacklisting: If the vendor fails to comply with the terms and conditions of the Purchase Order (PO), including but not limited to delayed delivery, supply of substandard or non-conforming materials, breach of contractual obligations, or withdrawal from the contract after acceptance of the PO, M/s OPGCL reserves the right to ban, blacklist, or suspend the vendor from participating in future tenders and procurements as per OPGC vendor banning policy. Additionally, such action may be communicated to other Public Sector Undertakings (PSUs), government bodies, and relevant industry authorities. The vendor shall have no claim or liability for such decisions taken by M/s OPGCL in the interest of ensuring reliable and ethical procurement practices.
For more details on banning policy please visit OPGC Banning Policy available in company website www.opgc.co.in or https://www.opgc.co.in/plc/OPGC_Banning%20Policy_n.pdf.
26. Fall Clause: The bidder shall confirm that the prices quoted in their bid are not higher than the rates offered to any other government organization, public sector undertaking (PSU), or any other customer for the same or similar items under similar terms and conditions. If at any time during the contract period, the bidder supplies or agrees to supply the same or similar items at a lower price to any other entity under similar terms and conditions, the bidder shall immediately offer the same reduced price to M/s OPGCL. Failure to comply with this clause may result in downward revision of contract prices to match the lower price and/or recovery of excess payment made by M/s OPGCL due to the price difference and/or blacklisting or banning from future tenders and procurement processes.
The bidder shall furnish an undertaking confirming adherence to this "Fall Clause" at the time of bid submission.

C. Important Instructions to Bidders For E-Procurement

Bidders are requested to read the terms & conditions of this tender before submitting their online tender.

1. Process of E-tender:

Registration: The process involves vendor's registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. This submission of bids shall be done over the internet. The Vendor should possess a valid Class III signing and encryption type digital signature certificate. Vendors are to make their own arrangement for bidding from a computer connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE PRICE BID HAVE TO BE SUBMITTED ON-LINE AT www.mstcecommerce.com/eprocn

a. Vendors are required to register themselves online with <https://www.mstcecommerce.com/eprocn> → Register (Filling up details and creating own user id and password) → Submit. Please follow the 'Registration Guide' available in the Registration link before proceeding.

b. Vendors will receive a system generated mail confirming the registration in their email which has been provided during filling the registration form.

c. The Vendors shall have to subscribe to the buyers and categories to receive system generated mails. To subscribe, a vendor has to login and click on 'My Subscription' followed by 'Add Subscription'. On successful subscription, a system generated mail shall be forwarded to the vendor. Please follow the guide for 'Subscription' of 'Download Guides' available in the Dashboard before proceeding.

For Technical Help:

Call 07969066600

Mail helpdeskho@mstcindia.in

2. System Requirement:

a. Please follow the instruction as appears while accessing <https://www.mstcecommerce.com/eprocn/>

b. The tender will be opened electronically on specified date and time as given in the NIT.

c. All entries in the tender should be entered in online Price Bid Formats without any ambiguity.

d. All notices and correspondence to the bidder(s) shall be sent by email only during the process, up to the finalization of tender buyer. Hence the bidders are required to ensure that their official email ID provided is valid and updated at the stage of registration of vendor with MSTC (i.e. Service Provider). Bidders are also requested to ensure validity of their DSCs (Digital Signature Certificates).

e. E-tender cannot be accessed after the due date and time.

3. Bidding in e-tender:

a. The process involves Electronic Bidding for submission of Bid.

b. The bidder(s) can submit their Bid through internet in MSTC Website www.mstcecommerce.com/eprocn

c. The NIT/ Documents shall be available for download in the event catalogue available under 'Event Details' of the Event.

d. Please follow the guides for 'Uploading encryption public key' and 'Bidding' under 'Download Guides' available in the Dashboard before proceeding to submit bid.

e. The bidders may upload the bidding related documents in the link 'My Documents'. The documents uploaded here shall be available for attaching with this event in the Bid Floor.

f. To submit bid, a vendor must go to 'Events' from the menu and select 'Bid Floor'. The vendor must select the buyer from the buyer list to view the live events list. The correct event must be selected from the event list for participation. A vendor must submit 'Event wise bid details' that may consist of 'Common Terms' and/ or 'Document Attach'. A vendor must save the Common Terms and/ or attach documents by clicking the respective buttons. Once the event specific bids are saved, the status is updated in 'Event specific bid status' and the 'Item specific bid' button appears on the bid floor. Thereafter vendor must click button under 'Technical Cover' to save the technical bid for specific lots. Once the technical bid is saved, the 'Price Cover' button appears on the screen for respective lots. Once

price bid is saved, the vendor must click on 'Final Submit'. On final submission of bid, the status of the bid submission shall display 'Bid submitted' under 'Item specific bid status'. A vendor shall receive system generated mail.

NOTE: - The bid cannot be revised once the Final Submit button has been clicked by the bidder. However, if the bidder wishes to change his bids then he may delete the bid and re-submit the same.

g. In all cases, bidder should use their own ID and Password along with Digital Signature at the time of submission of their bid.

h. During the entire e-tender process, the bidders will remain completely anonymous to one another and to everybody else.

i. The e-tender floor shall remain open from the pre-announced date & time and for the duration mentioned above.

j. All electronic bids submitted during the e-tender process shall be legally binding on the

k. bidder. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by Buyer will form a binding contract between Buyer and the Bidder.

l. It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system.

m. Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part without assigning any reason thereof.

n. No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any bidder confirms his acceptance of terms & conditions for the tender.

o. Unit of Measure (UOM) is indicated in the e-tender Floor. Rate to be quoted should be in

p. Indian Rupee as per UOM indicated in the e-tender floor/tender document.

q. Any order resulting from this e-tender shall be governed by the terms and conditions mentioned
r. therein.

s. No deviation to the terms & conditions are allowed.

t. Buyer has the right to cancel this e-tender or extend the due date of receipt of bid(s) without
u. assigning any reason thereof.

v. The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website www.mstcecommerce.com/eproc of MSTC Ltd.

w. The bidders should upload all the documents required (if any) as per terms of NIT. Any other document uploaded which is not required as per the terms of the NIT shall not be considered.

x. The bid will be evaluated based on the filled-in Price bid formats.

Canvassing in any form in connection with the Tender is strictly prohibited and the bids submitted by the bidders who resort to canvassing are liable to be rejected.

D. ANNEXURE-I - BOQ/ Scope of Work

SI No	Item Descriptions	Quantity	UoM	GST %	HSN
1	IMPACT ROLLER	300	EA		
Technical Specifications:					
Sl. No.	Item Description	Specification			
1	Impact Idlers 195 x 600 x 28 as per IS : 8598, 1987, Latest Revision				
1.1	Steel tubes for Idler shell	ERW pipe (confirming to IS: 9295, 1983, Latest Revision) Nominal Dia. 115 mm , Length 600 mm (Refer attached drawing) nominal Thickness : 4.85 mm Maximum radial run out ± 0.8 mm (TIR 1.6 mm as per IS : 8598) Preferred Make : TATA / SAIL / JINDAL / NEZONE / UTKARSH / PSST			
1.2	Spindle	The spindle shall be made of EN-9 / BS - 970 / 45 C8, IS : 1570 material The bearing portion of the spindle shall be ground to (ΔΔΔ) finish			
1.3	Bearings	The bearings shall be deep groove ball bearing 6207 (C3 clearance) Make : SKF / FAG L10 Bearing Life Shall be > 40,000 hrs			
1.4	Bearing Housing	The bearing Housing shall be made of Extra deep drawn quality CRCA Sheet, as per IS : 513 Minimum Sheet Thickness : 3.15 mm Bearing housing edge shall be atleast 5 mm inwards of idler edge The bearing shall be press fit. The interference fit over race shall be M7. The bearing housing shall be welded carefully to avoid distortion			
1.5	Circlip	External Circlip as per IS : 3075, Material Spring Steel (Heavy Duty)			
1.6	Seals - Inner & outer labyrinth, - Inner back seal & - Rain Cap	The idlers shall be provided with multi labyrinth seals to prevent ingress of dust & moisture into the bearing housing. Seal Material : Nylon-6			
1.7	Lubrication	The bearings shall be packed with Lithium based grease with water repellent & high flash point charecteristics. Sealed for Life.			
1.8	Dust Cover (outer Seal)	The Bearing Housing shall be made of Extra deep drawn quality CRCA Sheet, as per IS : 513 (Galv.)			
1.9	Interchangeability	The idlers shall be made with close tollerance to have 100% interchangeability			
1.10	Rubber	Rubber discs for Impact idlers Shall be natural rubber & shall be fitted on to the steel tube with sufficient interference fit.			
		Hardness 65±5 on Shore scale A		Sp. Gravity of Rubber <= 1.15	
		Minimum Tensile Strength 240 Kg/cm2		Elongation at Break 450 % (minimum)	

		maximum Ash Content 11%	Abrasion = 250 mm ³ (as per DIN 53516)
1.11	Marking	Embossing / Punching on each idler on Outer cover (OPGC 2026 CHP-I), Letter Size about 10 mm	
1.12	Dimensional tolerances	The dimensional tolerances shall be as per IS : 2102 (Part - 1)	
1.13	Friction Factor	The friction Factor shall be within 0.02	

2	R.D.TYPE IMPACT ROLLER	50	EA		
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Technical Specifications:

Sl. No.	Item Description	Specification
1	Self Cleaning Idlers(RD type impact roller) 190 x 1800 x 28 as per IS : 8598, 1987, Latest Revision	
1.1	Steel tubes for Idler shell	ERW pipe (confirming to IS: 9295, 1983, Latest Revision) Nominal Dia. 115 mm , Length 1800 mm (Refer to attached drawing) nominal Thickness : 4.85 mm Maximum radial run out ± 0.8 mm (TIR 1.6 mm as per IS : 8598) Preferred Make : TATA / SAIL / JINDAL / NEZONE / UTKARSH / PSST
1.2	Spindle	The spindle shall be made of EN-9 / BS - 970 / 45 C8, IS : 1570 material The bearing portion of the spindle shall be ground to ($\Delta\Delta\Delta$) finish
1.3	Bearings	The bearings shall be deep groove ball bearing 6207 (C3 clearance) Make : SKF / FAG L10 Bearing Life Shall be > 40,000 hrs
1.4	Bearing Housing	The bearing Housing shall be made of Extra deep drawn quality CRCA Sheet, as per IS : 513 Minimum Sheet Thickness : 3.15 mm Bearing housing edge shall be atleast 5 mm inwards of idler edge The bearing shall be press fit. The interference fit over race shall be M7. The bearing housing shall be welded carefully to avoid distortion
1.5	Circlip	External Circlip as per IS : 3075, Material Spring Steel (Heavy Duty)
1.6	Seals - Inner & outer labyrinth, - Inner back seal & - Rain Cap	The idlers shall be provided with multi labyrinth seals to prevent ingress of dust & moisture into the bearing housing. Seal Material : Nylon-6
1.7	Lubrication	The bearings shall be packed with Lithium based grease with water repellent & high flash point characteristics. Sealed for Life.
1.8	Dust Cover (outer Seal)	The Bearing Housing shall be made of Extra deep drawn quality CRCA Sheet, as per IS : 513 (Galv.)

1.9	Interchangeability	The idlers shall be made with close tolerance to have 100% interchangeability	
1.10	Rubber	Rubber discs for Impact idlers Shall be natural rubber & shall be fitted on to the steel tube with sufficient interference fit.	
		Hardness 65±5 on Shore scale A	Sp. Gravity of Rubber ≤ 1.15
		Minimum Tensile Strength 240 Kg/cm ²	Elongation at Break 450 % (minimum)
		maximum Ash Content 11%	Abrasion = 250 mm ³ (as per DIN 53516)
1.11	Marking	Embossing / Punching on each idler on Outer cover (OPGC 2026 CHP-I), Letter Size about 10 mm	
1.12	Dimensional tolerances	The dimensional tolerances shall be as per IS : 2102 (Part - 1)	
1.13	Friction Factor	The friction Factor shall be within 0.02	

E. ANNEXURE-II - Qualifying Criteria

The bidders must meet the following Qualifying Criteria with relevant documents.

1.0	Technical Criteria:
1.1	The bidder should be a manufacturer of conveyor rollers.
1.2	The Bidder should have executed purchase order(s) for supply of conveyor rollers within preceding 07 (seven) years prior to the date of Techno-commercial bid opening in any of the following manner. i. One (1) order having executed value not less than Rs. 16 lakh. OR ii. Two (2) orders having executed value not less than Rs. 10 lakh each. OR iii. Three (3) orders having executed value not less than Rs. 8 lakh each.
	Notes for Technical Criteria: (a) The word "Executed" mentioned above means that the bidder should have achieved the criteria specified above and should have completed the supply. (Relevant order copies along with proof of execution (such as copy of invoice, LR/Shipping documents/ Waybill). (b) The date for eligibility of documents shall be considered/counted the date of initial Techno Commercial Bid Opening date shall be first scheduled Techno Commercial Bid Opening Date.
2.0	Financial criteria
	i) Minimum Average Annual Turnover of the Bidder shall not be less than 24 lakhs in last 3 (Three) Years (FY 2024-25; FY 2023-24; FY 2022-23). Audited balance sheet including P&L account for the previous three completed financial years (from the date of issue of this tender). In case the documents are not available for last FY, then certified copy by a registered practicing CA may be submitted. ii) The bidder must not have been blacklisted or debarred in last five years to participate in tendering of similar supply earlier by any Govt. /Public Sector Utility / IPP/CPP. Self-declaration certificate shall be submitted along with technical bid. iii) Must submit a copy of Valid PAN & GST registration along with the technical bids.
3.0	Bidders must submit EMD of Rs. 40,000/- along with the technical bid. In case the bidder is registered in Odisha under MSME/NSIC, Copy of Micro & Small Enterprise (MSE) certificate or Udyam Registration certificate, as an exemption certificate in lieu of tender fee/EMD, should be uploaded in Fee/EMD envelope of the online bid. Please note this is applicable for Odisha based manufacturer of the quoted item registered as MSE only.

Notwithstanding anything stated above, OPGC reserves the right to assess the capability and capacity of the Bidder to perform the contract, limit the restriction or accept the bids of reputed (Branded) manufacturers/vendors, should the circumstances warrant such an assessment in the overall interest of OPGCL.

Note:

- a) For all qualification criteria all supporting documents to be provided. OPGCL reserves the right to obtain necessary documents and to assess the qualification of the Bidder, after submission of bid, as deemed necessary to establish bidder's qualification.

F. ANNEXURE-III - BIDDER'S AFFIDAVIT

Odisha Procurement Preference Policy for Micro and Small Manufacturing Enterprises'2023 [See pa ra 1 (B)]

(Applicable to Bidders who fall under the definition of Odisha Small Manufacturing Enterprises)

I, Shri/ Smt/ Ms..... (Designation) of(name of the Bidder Enterprise)solemnly state the following.

1. That annual turn-over of my enterprise is less than Rs. 50 Cr.
2. That my enterprise has a valid Udyam Registration bearing No..... within the jurisdiction of the State of Odisha.
3. That manufacturing plant/unit of my enterprise is located in Odisha in Village/Town/City..... Block/ULB.....,Dist.....
4. That the goods for which I am submitting this bid are manufactured in the above-mentioned manufacturing plant/unit of my enterprise.
5. That the goods to be supplied by my enterprise shall be its own manufactured goods.
6. That my enterprise shall not supply goods which are not manufactured by my enterprise.
7. That my enterprise has not been blacklisted/debarred by any Government Organization from participating in current procurement process.
8. That my enterprise comes under the definition of Odisha Small Manufacturing Enterprise (OSME), as defined in the Policy, and is, therefore, eligible for preferences and relaxations provided in the Policy for OSMEs.
9. That I am submitting this affidavit in response to the tender No.....dated.....invited by (Organisation Name)..... supply of..... (item name).

I certify that all information furnished by me as above are true and correct. If any information is found to be incorrect, I and my enterprise shall be liable for any punitive action as deemed appropriate by competent authority.

Date _____

Signature of Bidder

Name of the Bidder _____

Address _____

Mob No:

E-mail:

G. ANNEXURE-IV - Bank Mandate Form For E-Payment

(To be submitted in Duplicate)

To.
Odisha Power Generation Corporation Ltd.,
IB Thermal Power Station,
Banharpali,
Odisha.

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

3. E-mail ID

4. Permanent Account Number

5. Telephone/Cell No.....

6. 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-digit code number appearing on the MICR Bank of the cheque supplied by the Bank. Please attach Xerox copy of a cheque of your bank to ensure the accuracy of the bank name, branch name & code and Account number)			
IFSC Code			

7. 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 Odisha Power Generation Corporation Ltd responsible. I also undertake to advise any change in the particulars of my account to facilitate the updation of records for the purpose of credit of amount through the internet / RTGS / NEFT.

Place:

Date: Signature of the Party / Authorized Signatory

.....

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

Bank's Stamp: Date:

(Signature of the Authorized Official from the Banks)

H. ANNEXURE-V - 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
Odisha Power Generation Corporation Ltd.,
Ib Thermal Power Station, At/Po- Banharpali, Dist-Jharsuguda-768234.

Dear Sir,

In consideration of Odisha Power Generation Corporation having its Registered office at 7th.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 undertake 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)

Name

(Signature)

Name

(Designation with Bank stamp)

Official Address

Attorney as per Power of Attorney

No. _____ Date _____

I. ANNEXURE-VI - Proforma Of Bank Guarantee For Material Performance

(On Non-Judicial Stamp paper of Appropriate Value)

In consideration of OPGC Ltd. Having its registered office at Zone-A, 7th Floor, Fortune Tower, Chandrasekaharpur, Bhubaneswar-751023, Odisha herein-in after called the "Owner" which expression shall unless repugnant to the subject or context include its successor & assignees) having awarded to M/swith 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.

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 up to (Days/month/year)

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.

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.

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 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.

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).

Notwithstanding anything contained herein a) Our liability under this bank guarantee shall not exceed Rs.....[Rupees] b) This bank guarantee shall be valid uptoc) 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

Welastly undertake not to
revoke this

(Name of Bank)

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

Dated theday of200...

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

Name

Designation

Authorisation No.....

Seal of the Bank

J. ANNEXURE-VII - Restriction of Procurement

Restriction on procurement from border of a country which shares land border with India as per (Rule 144 (xi), GFR 2017 17, notification number OM No. F.7/10/2021-PPD (1) dated 23.02.2023

GUIDELINES FOR ELIGIBILITY OF A ‘BIDDER FROM A COUNTRY WHICH SHARES A LAND BORDER WITH INDIA’:

CERTIFICATE REGARDING COMPLIANCE:

a) Bidders shall submit following certificate:

UNDERTAKING FOR COMPLIANCE

“We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. We certify that bidder M/s. _____ (name of the bidder) is not from such a country or if from such a country, has been registered with the Competent Authority. We hereby certify that bidder M/s. _____ (Name of bidder) fulfills all the requirement in this regard and is eligible to be considered against the tender.”

[Wherever applicable bidder must submit evidence of valid registration by Competent Authority]

b) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. Bidder shall submit the following certificate in this regard:

“We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries. We certify that bidder M/s. _____ (Name of bidder) will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.”

[Wherever applicable bidder must submit evidence of valid registration by Competent Authority]

If such certificate (as mentioned as (a) & (b) above) given by a bidder whose bid is accepted, is found to be false, this would be a ground for immediate rejection of bid/termination of the contract and forfeiture of EMD/Security Deposit.

The above certificate shall form part of PO/contract.

The registration, wherever applicable, should be valid at the time of submission of bids and at the time of acceptance of bids. If the bidder was validly registered at the time of acceptance/placement of the order, registration shall not be a relevant consideration during contract execution.

Further, the above guidelines will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Updated lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of the Ministry of External Affairs, Govt. of India.

‘Agent’ mentioned in the above guidelines also includes dealer/distributor/sole selling agent.

K. ANNEXURE-VIII - Format Of Bid Security Declaration From Bidders In Lieu Of EMD

(On Bidders' Letterhead)

Bid Security Declaration Form

Date: _____ Tender No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity
 - (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of

- (i) the receipt of your notification of the name of the successful Bidder; or
- (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Securing Declaration) Name: (insert complete name of person signing the Bid Securing Declaration) duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

L. ANNEXURE-IX - NIL Deviation Declaration Form

NIL Deviation Declaration

(In Company letter head)

Tender Ref No.:

Description of Item: _____

We hereby declare that we have completely read & understood the above bid Document(s) including Information to Bidders, GTC (General Terms & Conditions), Corrigendum /Addendum (if any), Pre Bid Meeting Minutes (if any) & Technical Specification/Drawing/Scope etc. given in the tender and Confirm NIL deviation with respect to it and shall comply with all Commercial/technical specifications and scope given in the tender in toto.

Deviation (if any): To be mentioned in the attached format (“Annexure- Deviation Declaration”)

Note:

- (1) This declaration should be signed by the Tenderer’s authorized signatory on Company letterhead who is authorized to submit the Bid.
- (2) Seal & Signed copy shall be uploaded with technical bid.

Seal & Signature of the Bidder:

Name of above Authorized Signatory:

Contact No. & e-mail id of Authorized Signatory:

Annexure – Deviation Declaration

DEVIATION STATEMENT

Tender Ref No.:

I. Technical Deviations:

SL. No	Clause No	Description of Clause	Deviation Taken by the Bidder	Justification for Deviation

II. Commercial Deviations:

SL. No	Clause No	Description of Clause	Deviation Taken by the Bidder	Justification for Deviation

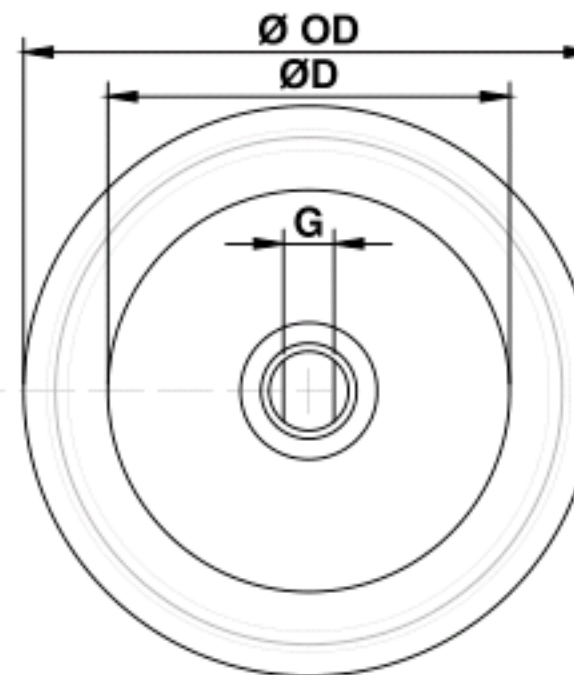
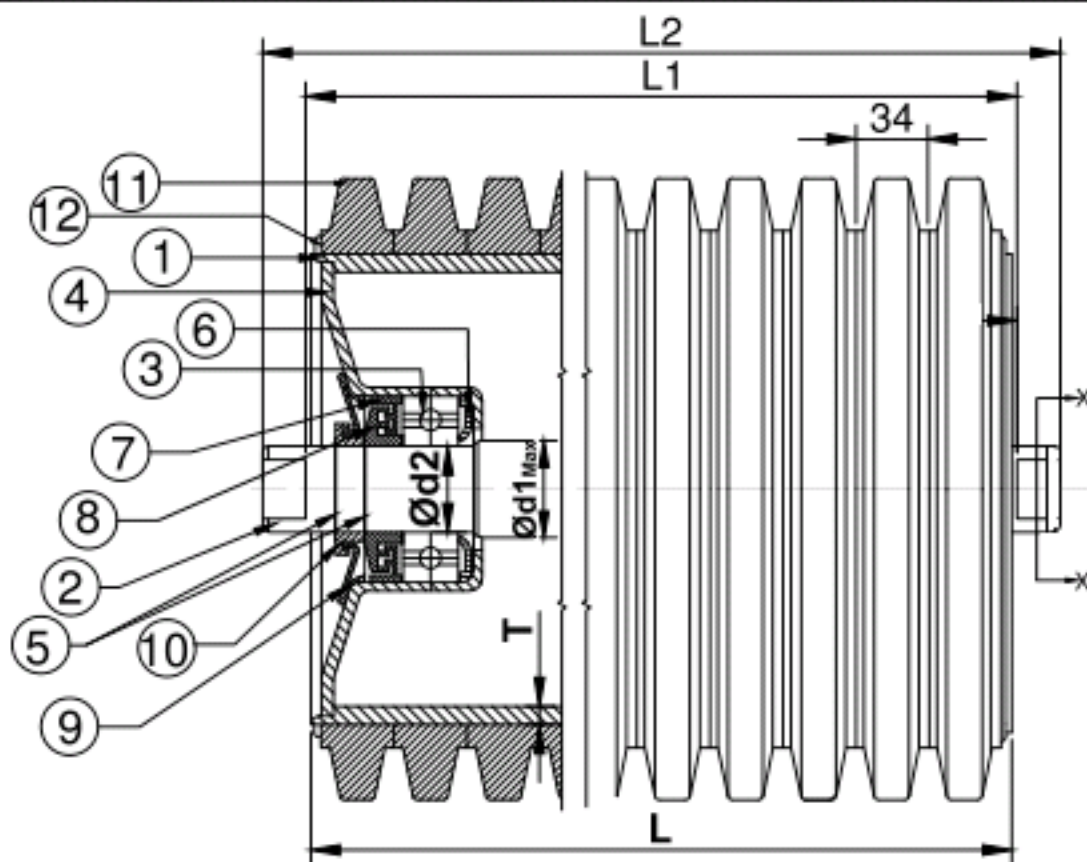
Note:

1. This annexure has been included in the bidding document solely for the convenience of the bidder to list out deviations/exceptions of both technical and commercial nature from the bidding document. OPGCL will not recognize any deviations/exceptions not listed in this format.
2. Any deviations taken or noted elsewhere in the submitted bid will not be considered, and OPGCL will not be responsible for the same.
3. OPGCL reserves the right to accept or reject the deviations/justifications and decide on qualifying the bidder in the evaluation of the Techno-Commercial (Unpriced) Bid.
4. In case of “No deviation” the bidder should write ‘NIL’ and sign.
5. If the above table is left blank, it will be construed that the bidder has not taken any deviation to this tender.

Seal & Signature of the Bidder:

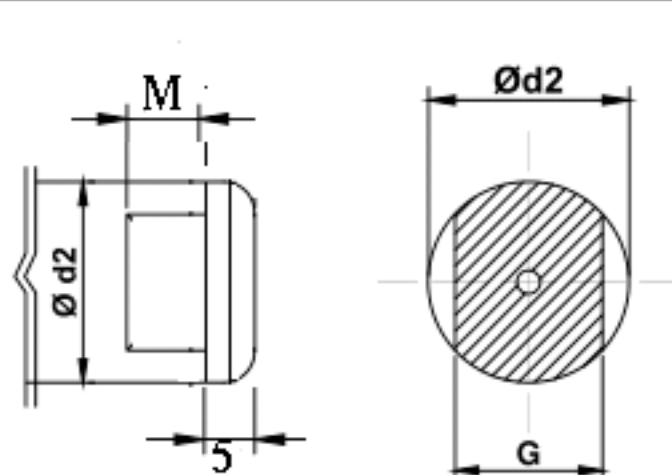
Name of Authorized Signatory:

Contact No. & Email ID:

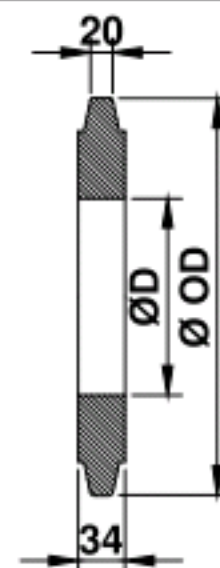


Technical/ Dimensional details	
DIMENSION	TOLERANCES AS PER IS
Diameter	0.5 mm IS:9295
Thickness	± 10% IS:9295
Length	± 1 mm

ITEM NO.	QTY (Nos.)	DESCRIPTION	MATERIAL	SPECIFICATION
1	1	TUBE	ERW	IS:9295, Gr.YST 210
2	1	SHAFT/ SPINDLE	C40	IS 1570
3	2	BEARING	Deep Groove Ball Bearing	SKF/ FAG
4	2	BEARING HOUSING	CRCA SEET	IS 513 DD
5	4	EXTERNAL CIRCLIP	SPRING STEEL	
6	2	INNER SEAL	Nylon-6	
7	2	INNER LABYRINTH	Nylon-6	
8	2	OUTER LABYRINTH	Nylon-6	
9	2	DUST COVER	Nylon-6/CRCA	
10	2	RAIN CAP	Nylon-6	
11	17	RUBBER DISC	RUBBER	SHORE HARDNESS 50 - 60
12	2	LOCKING RING	STEEL	



VIEW X-X



ALL DIMENSIONS ARE IN MM

ITEM NO.	DESCRIPTION	ØD	Ø OD	L	L1	L2	Ød1 (Max.)	Ød2	M	G	T	BEARING NO.	QTY (Nos.)
10	IMPACT ROLLER FOR 1600 mm BELT WIDTH	115	194	600	617	633	40	35	18	28	4.85	6207	

P.O. NO. :-

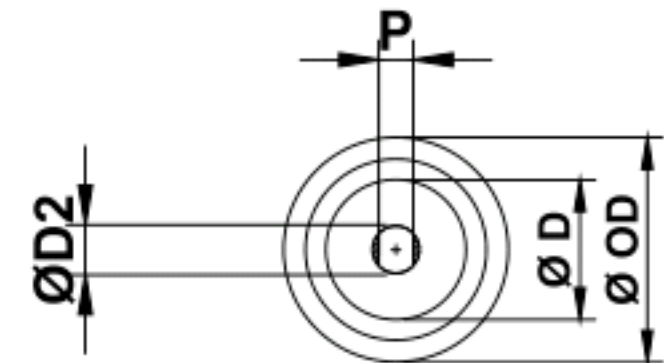
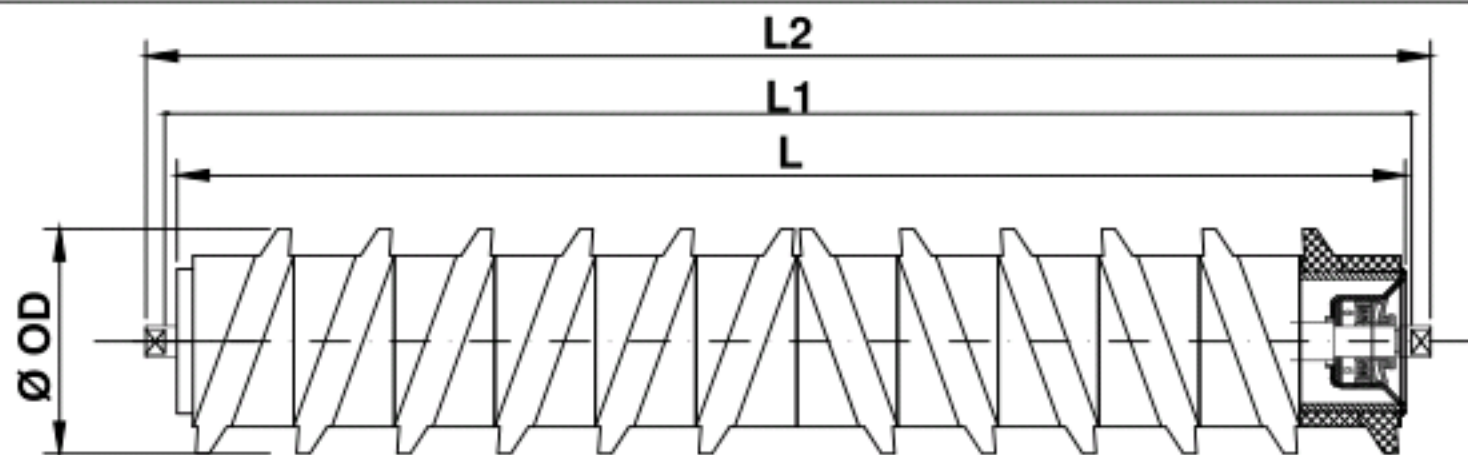
INTERNAL SEALING ARRANGEMENT OF IMPACT ROLLER

DRAWING NO. :-

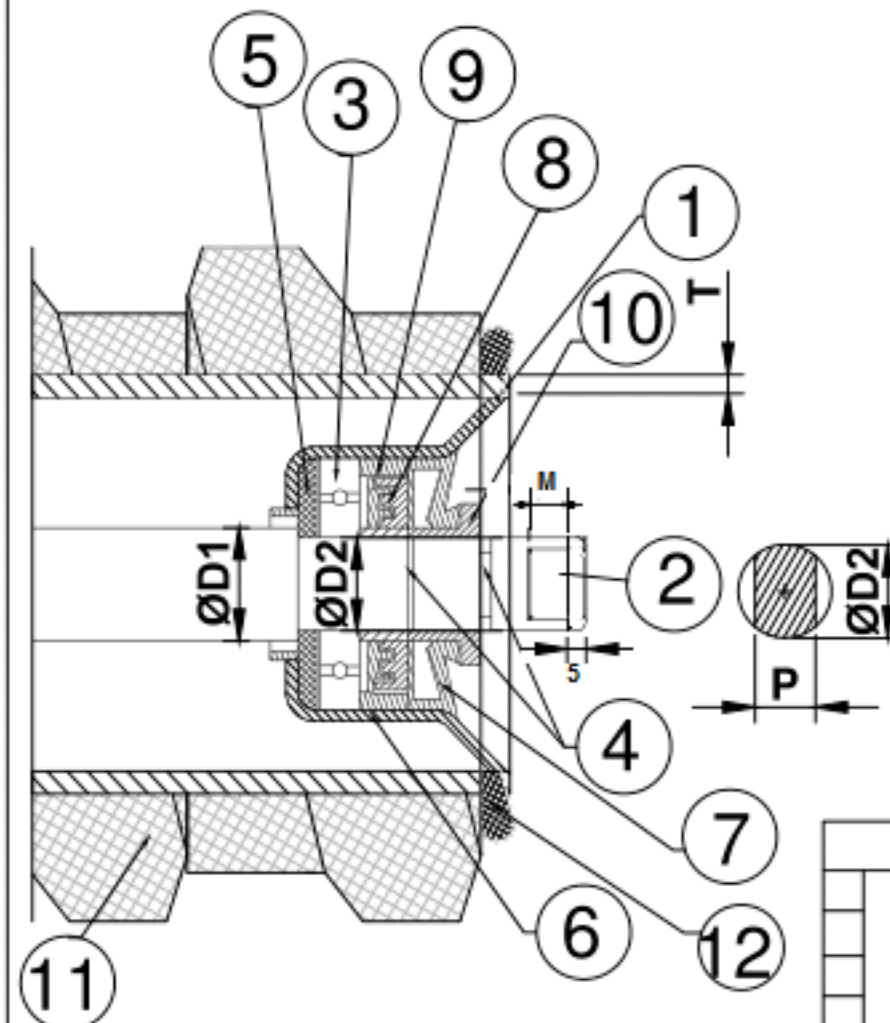
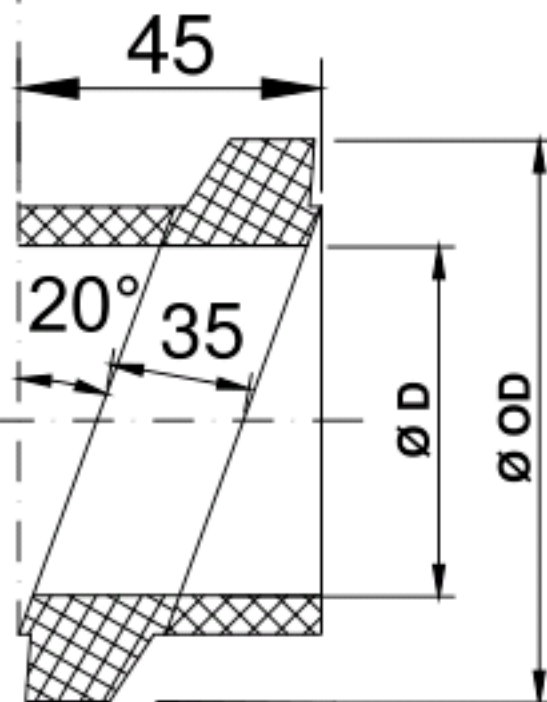
CHECKED BY :-

APPROVED BY :-





Detail of Rubber Ring



MATERIAL SPECIFICATION OF SELF CLEANING IDLER

S.L. NO.	QTY.	DESCRIPTION OF ITEM	MATERIAL	SPECIFICATION
1	1	TUBE	ERW	IS : 9295, Gr. Yst 210, ISI Mark
2	1	SHAFT / SPINDLE	C40	IS : 1571
3	2	BEARING	Deep Groove Ball Bearing	SKF / FAG / NBC
4	4	CIRCLIP	SPRING STEEL	IS : 3075
5	2	BACK / INNER SEAL	Nylon - 6	
6	2	BEARING HOUSING	CRCA Sheet 3.15 MM	IS : 513 D D
7	2	DUST COVER (OUTER SEAL)	CRCA	
8	2	INNER LABYRINTH	Nylon - 6	
9	2	OUTER LABYRINTH	Nylon - 6	
10	2	RAIN CAP	Nylon - 6	
11	AS PER REQ.	RUBBER DISC	Natural Rubber	Shore Hardness 55-65
12	AS per Req.	Locking Ring		

Technical/ Dimensional details

DIMENSION	TOLERANCES AS PER IS
Diameter	0.5 mm IS:9295
Thickness	± 10% IS:9295
Length	± 1 mm

ALL DIMENSIONS ARE IN MM

BELT CONVEYOR 1600 MM WIDE

ITEM NO.	Description of item	Ø OD	Ø D	L	L1	L2	Ø D1	Ø D2	T	P	M	Bearing no.	QTY. (Nos.)
20	R.D. TYPE IMPACT ROLLER FOR 1600MM BELT WIDTH	190	114.3	1800	1807	1836	40	35	4.5	28	8	6207	

IB THERMAL POWER STATION, OPGC

P.O. NO. :-
INTERNAL SEALING ARRANGEMENT OF R.D. TYPE IMPACT ROLLER

DRAWING NO. :-

CHECKED BY

APPROVED BY

