



BHOPAL

R & M JOB FOR OF UPRVUNL HARDUAGANJ
(1x 110 MW UNIT)

TECHNICAL SPECIFICATIONS FOR CHP BELT
CONVEYOR REPLACEMENT

PDX 05459
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REV. 0

TECHNICAL SPECIFICATION FOR CHP BELT CONVEYOR REPLACEMENT

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SECTION-I INTENT OF SPECIFICATION

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01.01.00 This specification is intended to cover installation, erection, commissioning & performance testing at site of 5000 meters of CHP belt conveyor for R & M works 1x110 MW Unit, Harduaganj Thermal Power Station of UPRVUNL.

01.02.00 It is not the intent to specify completely hereinafter, all details and construction of equipment. However, the equipment shall conform in all respect to high standards of engineering, design and workmanship and be capable of performing in continuous commercial operation up to Bidder's, sub Bidder's guarantee in a manner acceptable to OWNER / PURCHASER, who will interpret the meaning of drawings and specification and shall be entitled to reject any work or material, which in his judgment is not in full accordance therewith.

01.03.00 The general terms and conditions, instructions to bidders and other attachment referred to elsewhere are hereby made part of tender specification. The bidder shall be responsible for and governed by all requirements stipulated hereinafter.

01.04.00 All equipment shall be suitable for continuous operation round the clock at designed capacity.

Note: The following qualification criteria shall be followed for the intended job:

The bidder should have adequate experience of executing mechanical works in power plant of 110 MW. The bidder should also possess exposure of working in coal handling plant of power plant of above rating.

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SECTION-II SCOPE OF SUPPLY AND SERVICES

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02.01.01 Shifting of conveyor belt from client store to site. Temporary storage of belt near the installation Area.

02.01.02 Dismantling of existing idler frame for jointing of Belt.

02.01.02 Laying of new Belt of following size and length. The new belt shall be as per mentioned in the Data sheet.

SL No	Quantity (m)	Size(mm)
1	3000	1200
2	1800	1000
3	200	1400

02.01.03 Preparation of joint (Hot type) jointing of belt

02.01.04 Removal of all wastages from site and shifting of old belt to store or any other place specified by Client within the plant boundary or in an adjacent plant located at a distance of approx. 1.5 kms.

02.01.04 Refixing of belts after jointing.

02.01.05 Trial run of belt / belt conveyor.

Note: Alignment of Belt work includes the work of Repair of Counter weight and Minor Repair Work related with Structure, etc.

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SECTION – III

QUALITY ASSURANCE, INSPECTION AND TESTING

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The Plant/equipment to be supplied under this specification shall have assured quality and workmanship. The Bidder in his proposal shall submit his Quality Assurance Plan containing quality assurance program and quality assurance documents for Owner/Purchaser's approval. The Contractor shall be bound to conduct all stage inspections on various equipment/material during manufacturing process in accordance with the approved copy of this document. Purchaser / Owner shall have the right to carry out Quality Audit and Quality Surveillance by witnessing any or all such tests to be carried out at bidder / Sub—bidder's works as and when desired. The procedure applicable to bidder's works will also apply to the works of his sub bidders. For items coming under the purview of any Indian Statutory Regulation during the course of manufacture, all stage inspections and tests shall be witnessed by an inspecting authority recognized under the statutory regulation. A list of all sub-vendors is to be forwarded to the Purchaser / Owner for approval prior to the placement of sub-contract. All technical details shall be sent to Purchaser / Owner for approval prior to placement of orders on sub-vendors.

These audit/surveillance/approvals shall not however relieve the manufacturer of their responsibility of the Quality Assurance of their product and overall guarantee and responsibility shall wholly lie with the Bidder.

Tests/inspections shall be carried out during and after the completion of manufacture of different components and assembly as applicable in accordance with relevant codes and standards. Test Certificates for all such tests/inspections shall be made available to the Purchaser / Owner for approval.

Owner / Purchaser or his authorized representative shall have his full access to witness any or all tests/inspections to be carried out at manufacturer's shop. In case, the job is sub-contracted, it will be bidder's responsibility to make all arrangements so that Owner / Purchaser or his authorized representative can attend such tests at Sub-Contractor's premises.

After installation, the equipments shall be tested and commissioned at site to Owner / Purchaser's full satisfaction.

03.02.00 TESTING**03.02.01 Test at Site**

After erection at site, the equipments will be operated at site to show satisfactory performance as required by the applicable clause of the specification. During these tests, if any equipment/system fails to perform to the fullest satisfaction of purchaser / Owner then the same will be rectified / replaced, by the contractor without any extra cost.

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SECTION-IV DATA SHEET - A

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Sl. No.	DESCRIPTION	UNIT	Belt Specification	Belt Specification	Belt Specification
1	Material Handled		1200x1000/4x5+2, BOT, FR	1000x1000/4x5+2, BOT, FR	1400x1000/4x5+2, BOT, FR
2	Lump Size	mm	Coal 20mm crushed coal 300 mm uncrushed coal	Coal 20mm crushed coal 300 mm uncrushed coal	Coal 20mm crushed coal 300 mm uncrushed coal
3	Capacity	TPH	500	500	500
4	Ambient Temperature	°C	50°C (3min.)	50°C (3min.)	50°C (3min.)
5	Condition of Material		Wet	Wet	Wet
6	Hours of operation per day	Hours/day	24	24	24
7	Applicable Standard		IS:1891	IS:1891	IS:1891
8	Belt Width	mm	CAN/CSA-M422-M87 Type 'C' & ISO-340	CAN/CSA-M422-M87 Type 'C' & ISO-340	CAN/CSA-M422-M87 Type 'C' & ISO-340
9	Duck Material		1200	1000	1400
10	Minimum Cover Thickness		Nylon-Nylon	Nylon-Nylon	Nylon-Nylon
	a) Top	mm	5	5	5
	b) Bottom	mm	2	2	2
11	Grade of Top and Bottom Cover	-	FR	FR	FR
12	Duty Considered	-	Heavy Duty	Heavy Duty	Heavy Duty
13	Maximum length of Belt to be transported in one Reel	Mtrs.	300	300	200
14	Weight of each Reel	kg	Approx. 6,000	Approx. 5,000	Approx. 4,600
15	No. of Reels	-	10	6	1
16	Adhesion b/w Adjacent Piles	KN/m	5.25	5.25	5.25
17	Adhesion b/w Cover and Carcass	KN/m	4.5	4.5	4.5
18	Minimum Tensile Strength	Mpa	17	17	17
19	Tear Resistance Sense A	N/mm	20	20	20
20	Tear Resistance Sense B	N/mm	12	12	12
21	Operating Temperature	°C	20-70°C	20-70°C	20-70°C
22	Nominal Carcass Thickness	mm	6.8	6.8	6.8
23	Construction of Edges		Cut Edge	Cut Edge	Cut Edge



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