



"Under Jurisdiction of Nagpur Court only"

	Western Coalfields Ltd. (A Mini Ratna company) (A Govt. of India Undertaking) (Website :westerncoal.nic.in) e- mail: gmmm.wcl@coalindia.in	OFFICE OF THE GENERAL MANAGER (MM) FAX . : 0712- 2510284
Regd. Off. : Coal Estate, Civil Lines, Nagpur – 440 001.		

PO No: 11100132218112

Dated:25/09/2018

By registered post with A/D

To,
 M/s GURUKRIPA CONVEYORS,
 G-I 16/17/18,
 RIICO INDUSTRIAL AREA,
 SHAHPURA, JAIPUR,
 Rajasthan-303103.

Vendor Code:529316
 Fax No. 9928886200
 GST No. 08AAJFG6748E1Z6
 Vendor Category: MSE
 email:gurukripacorporation@yahoo.in

Dear Sir,

Sub:- Supply of Rubber Conveyor Belting

Ref: 1.Our Open Domestic E- tender vide no.WCL-hq-pur-cr-e151-2017-18 (tender ID 2018_WCL_98078_1) opened on .06.04.2018

2. Your Bid Id: 289157 dated 02/04/2018 and subsequent correspondences on portal

With reference to the above, we are pleased to place a formal supply order on you for supply of Rubber Conveyor Belting as per the Price, quantity, specification, terms and conditions detailed below and as per general terms and conditions enclosed.

SCOPE OF SUPPLY & PRICES:-

Sl no	Item description	Quantity (in mts)	Unit price per Mts.(Rs)	Total value(Rs)
	Rubber Conveyor Belting, pre- stretched, straight ply/skim coated, open ends, cut edge, suitable for 20-35° troughing angle, fire resistant grade, nylon and nylon construction of the below mentioned sizes (Technical specifications as per Annexure-I)			
1	800mm. Minimum tensile strength - 400 Kn/m HSN code:40101290	550	978.00	5,37,900.00
2	1000 mm. Minimum tensile strength - 500 Kn/m. HSN code:40101290	2100	1221.00	25,64,100.00
3	1400 mm. Minimum tensile strength - 800 Kn/m. HSN code:40101290	460	1878.00	8,63,880.00
	Total			39,65,880.00
	GST @18%			7,13,858.40
				46,79,738.40
	Pre-dispatch inspection charges @1%			46,797.38
	Grand total			47,26,535.78

Amount in words: Forty seven lakhs twenty six thousand five hundred thirty five and seventy eight paisa only.

Terms and Conditions:

1. Supply & Billing : Shall be done by your authorized dealer "M/s Hindustan Mercantile Company, 144/145, J.N. Mukherjee Road, Plot no. 48, Near Shaktipir, Ghosury, Howrah - 711107". Materials will be dispatched directly from your factory to the consignee i.e. Central Stores, Tadali.GST Registration No. of M/s Hindustan Mercantile Company is 19AADCS6757L1ZN.

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2.Prices: The above prices are FIRM and on F.O.R. destination basis inclusive of packing, forwarding, freight and insurance charges upto destination stores. The safe arrival of the consignment at destination stores is your responsibility.

3.GST: Shall be payable extra as applicable within the stipulated delivery period. The present applicable rate of GST is @ 18%. Input tax credit on GST shall be availed by WCL as per GST rule. GST compliant invoice shall be submitted enabling WCL to avail Input Tax Credit (ITC) under GST. In case of any failure on supplier's account, the penalty including interest (if any) borne by WCL on ITC shall be recovered from you.

4.Delivery: Within 6 (six) months from the date of issue of supply order. However minimum 50% (Fifty percent) of the order quantity of each size shall be supplied within 3 (Three) months from the date of placement of order.
The delivery period shall be reckoned from 7th (Seventh) day of order date.

5.Mode of Transport: By road on freight paid basis.

6.Consignee: Depot Officer, WCL, Central Store, Tadali, Dist: Chandrapur (MS) 442406. Phone no: 07172- 237295. GSTIN : 27AAACW1578L1ZW.

7.PAYING AUTHORITY : GM(Fin)/I/c ,WCL, HQ ,Coal Estate ,Civil Lines, Nagpur - 440001.

8.Payment Terms : 100% Payment within 21 days after receipt and acceptance of materials at destination stores or date of submission of bills whichever is later against submission of confirmed PBG.

Note : Bank account details for EFT as provided by you are given below:
Bank Account Details for making payment through EFT:-

Name of the Account Holder	Hindustan Mercantile Company
Account Number	00082320005690
Name of the Bank and Branch	HDFC Bank, Stephen House Branch
Address of the Branch of the Bank	4 BBD Bag East
Nature of Account	Cash Credit
IFS Code of the Branch	HDFC0000008

9.Security Deposit: You shall deposit the Security Money of **Rs. 4,72,654.00/-** (Rupees four lakhs seventy two thousand six hundred fifty four i.e for 10% of total order value) as per NIT. You shall have to furnish the security deposit amount in the form of Demand Draft or Bank Guarantee of any scheduled bank within 15 days time from the date of supply order. In case you fail to deposit the security money, the order shall be cancelled and the case shall be processed to order elsewhere and your performance shall be recorded for future dealings with you.

Security deposit money will be refunded within 30 days from the date of satisfactory execution of the contract.

For unsatisfactory performance and / or contractual failure, the security money shall be forfeited.

Security Money may be converted into PBG as per NIT Provisions.

10.GUARANTEE/WARRANTY: The material shall be guaranteed for satisfactory operation and performance for a period of 12 months from the date of installation /commissioning or 18 months from date of receipt and acceptance of Rubber belting, whichever is earlier. In the event of any defect in material, design, workmanship, operation and performance during the aforesaid period, defective Rubber belting shall be replaced and the equipment rectified and brought back to satisfactory performance free of cost within reasonable time.

11.Performance Bank Guarantee: You shall submit performance bank guarantee of Rs. 4,72,654.00/- (Rupees four lakhs seventy two thousand six hundred fifty four i.e for 10% of total order value) as per NIT in the prescribed format towards satisfactory performance of the material supplied. The PBG shall be valid for a period of 18 months from the date of receipt and acceptance of materials at the ultimate destination and the

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same shall be released on receipt of satisfactory completion of warranty or extended thereafter as deemed fit. The bank guarantee shall be released after successful completion of the guarantee period/extended period after confirmation from the GM(E&M), WCL, HQ Nagpur.

12. INSPECTION CLAUSE :

(A) (a) **PRE-DESPATCH INSPECTION:** The Rubber Belting will be inspected by CMPDIL at manufacturer's works before dispatch of the same to ascertain the conformity of the Rubber Belting to supply order specifications, relevant IS, latest (including amendment), statutory regulations (DGMS) and type test certificates. Such inspections shall not, in case of any defect noticed later, entitle the supplier to plead that inspection has been done by the purchaser and absolve them of the obligation.

(b) Pre-dispatch inspection including stage inspection of the ordered material shall be carried out by CMPDIL. The inspection fee @ 1% on FOR destination price plus GST as applicable shall be paid by the supplier along with inspection call to inspecting authority GM(E&M) I/C, Central Mine Planning & Design Institute Ltd;(CMPDIL), Gondwana palace, Kanke Road, Ranchi-834008, FAX-0651-231851/231447 ph no. 0651-230876/422245. GST on Pre dispatch inspection charges shall not be claimed by firm vis-à-vis will not be reimbursed by WCL. Minimum 10 days advance notice shall be given to inspecting agency/CMPDIL.

(B) Final Inspection of the consignment shall be carried out at the destination stores, which will be arranged by the consignee on receipt of stores. If there is any defect found in the materials supplied, you will arrange the replacement of the same at free of cost.

13. SUBMISSION OF BILLS:-Pre-receipted and stamped invoice for 100% value of each materials with taxes and duties and other charges shall be submitted in "QUADRUPLICATE" to the consignee along with following documents:

1. Consignment note/Delivery Challan in original.
2. (2.1).Self attested copies of works test report in respect of rubber cover properties, adhesion strength and full thickness breaking strength and elongation at reference load and at break for offered or higher sizes of the belts in reference to earlier supplies. (2.2).Technical brochures/leaflets indicating all technical details in respect of the belts offered. (2.3). Copy of inspection report
3. Warranty/Guarantee certificate.
4. Pre-receipted and stamped Invoice(GST Compliant Invoice)
5. Price Certificate
6. DGMS/BIS/Pre dispatch inspection certificates /any other document, if required as per the Technical specifications.
7. Manufacturing Certificate on the body of each bill to the following effect:-

"Certified that the items supplied included in this bill/invoice are of own make have been actually manufactured in our works at. . . . (Address of the factory)."

8. Any other documents as specified elsewhere in the purchase order.

Note:- Copy of each of the above bill(s) along with copies of each documents must be submitted to the GM(MM)/I/c, WCL, HQ. Nagpur-440,001.

14.Liquidated Damages:- In the event of failure to execute the contract within the stipulated period mentioned in the order and in the event of breach of any of the terms and conditions in the order WCL has the right :-

- a) To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% of the contract value for delay in execution of the contract beyond the delivery schedule.(for this purpose part of a unit supplied will not be considered) as aforesaid for each week or part of a week during which the execution may be in arrears limited to 10 %. Where felt necessary the limit of 10% can be increased to 15% at the discretion of buyer
- b) To purchase from elsewhere, after due notice to the successful tenderer, on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without cancelling the supply order in respect of consignment not yet due for supply or

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- c) To cancel the supply order or a portion thereof, and if so desired, to purchase the store at the risk and cost of the supplier and also
- d) To extend the delivery period with or without imposition of Liquidated Damages as may be considered fit and proper. The penalty if imposed shall not be more than the agreed liquidated damages referred to clause (a) above.
- e) To encash any available Bank Guarantee / security deposit for recovery of the penalty.
- f) Whenever under the contract a sum of money is recoverable from and payable by the supplier, Western Coalfields Limited, shall be entitled to recover such sum by appropriating, in part or whole by deducting any sum or which at any time thereafter, may be due to the successful tenderer in this or any other contract, with Western Coalfields Limited or any of its Subsidiary Company. Should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay to Western Coalfields Limited, on demand the remaining amount.
- g) The supplier shall not be entitled to any gain under this clause.

15. Force Majeure Clause:- If the execution of the contract/supply order is delayed beyond the period stipulated in the contract supply order as a result of outbreak of hostilities, declaration of an embargo or blockade or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Western Coalfields Limited may allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the Coal India Limited and its subsidiary companies, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

16. Price Certificate: A Price Certificate shall be submitted along with the invoice / on the body of the invoice as under: "Certified that we are not supplying similar products/ systems or sub-systems at a price lower than that offered in the present order in respect of any other ministry/ department of the Govt. of India or a PSU."

17. Risk Purchase Clause: In the event of failure of the supplier to deliver or dispatch the stores within the stipulated date/period of the supply order or in the event of breach of any of the terms and conditions mentioned in the supply order, Coal India Ltd. or its Subsidiary Companies have the right to purchase the stores from elsewhere after due notice to the defaulting supplier at the risk and cost of the defaulting supplier. In the event of failure of the supplier as detailed above, the cost as per risk purchase exercise may be recovered from the bills against any other supplies pending in the same Subsidiary Co. and also in any other Subsidiary Companies/CIL.

18. Identification Marking: Manufacturer's name/trade mark, year and month of manufacture shall be marked at the non wearing surface on each piece.

19. Packing: The consignment shall be securely packed as per standard trade practices/IS to withstand the rigor of transport, to prevent any loss/damage or pilferage in transit.

20. E-way bill provisions: "The e-way bill provisions provides for the generation of e-way bill either by the manufacturer (i.e M/s Gurukripa Conveyors, Shahapura) or the authorized dealer(M/s Hindustan Mercantile Company, Howrah) under the bill to ship to concept.

If the e-way bill is generated by i.e authorized dealer M/s Hindustan Mercantile Company then the place/state of dispatch to be mentioned would be the address of M/s Gurukripa Conveyors and destination to be mentioned will be WCL. However the invoice details would be that of the invoice raised by M/s Hindustan Mercantile Company on WCL.

21. General terms & conditions : Unless otherwise specified in the order, the order shall be subject to General terms & conditions as per Annexure-II

This order is being placed on the basis of the terms and conditions already accepted by you. Two copies of this supply order are being sent to you. You may acknowledge receipt

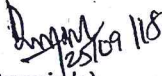
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PO No: 11100132218112 Dated: 25/09/2018 on M/s GURUKRIPA CONVEYORS
of the order by sending one copy duly signed and stamped with seal of your company.
All other terms and condition shall be as per NIT.

- Encl:-**1.Detailed Technical Specifications. Annexure - ' I '
2. General Terms and Conditions of the supply order. Annexure - ' II '
3. Format of BG for Security cum Performance Bank Guarantee - Annexure-III
4. Photo copy of technical literature.(Total- 10 pages) - IV
5. Budget Certification for Rubber Belting (for internal use of WCL). Annexure - ' V '

Yours Faithfully,
For & on behalf of Western Coalfields Ltd.


(C Ramiah)
Sr Manager(MM)


(C R Samantray)
Chief Manager (MM)

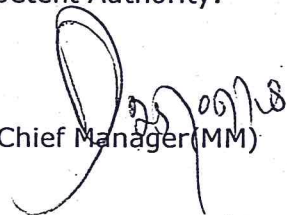
Copy to: M/s. Hindustan Mercantile Company, 144/145, J.N.Mukherjee Road, Plot No.48,
Near Shaktipir, Ghosury, Howrah-711107.

Copy (for internal circulation);

- 1.GM(E&M)/I/c, WCL, HQ, Nagpur.
- 2.GM(Fin)I/c, WCL, HQ, Nagpur
- 3.Chief Mnager(Fin)/Sr. Manager (Finance)/C&B, WCL , HQ, Nagpur.
- 4 Sr. Manager (MM/Admn.), WCL, HQ, Nagpur
- 5.AGM/SO(MM)/SO(E&M)/AFM, All Areas of WCL
- 6.Depot Officer, WCL, Central Store, Tadali, Dist: Chandrapur-442406, Maharashtra.
- 7.GM(MM)/HOD: BCCL/CCL/ECL/SECL/MCL/NCL/CIL

This issues with the concurrence and approval of Competent Authority.


Sr Manager(MM)


Chief Manager(MM)



ANNEXURE-I

Detailed Technical Specification:

Rubber Conveyor Belting, pre- stretched, straight ply /skim coated, open ends, cut edge, suitable for 20-35° troughing angle, fire resistant grade, nylon and nylon construction as per requirement and specifications given below:

(A)

SN	Description	Item 1	Item 2	Item 3
1	Belt Size i.e width in mm	800	1000	1400
2	Minimum tensile strength in KN/m	400	500	800
3	Minimum numbers of Plies	3	3	4
4	Face Cover thickness in mm	5	5	5
5	Back cover thickness in mm	3	3	3
6	Roll length in Mtrs.	200	200	200
7	Quantity required in Mtrs. Tolerance - as per IS: 1891(part-1)1994	550	2100	460

(B)

Common terms and conditions
1) Roll length: Wherever the total length required are not in multiples of specified roll length i.e. 200 Mtrs., the last roll can be made /supplied in non- specified roll length.
2) The belting specification shall conform to IS : 1891 and the standards as recommended in DGMS(Tech.)/Circular no.6/ Dhanbad dated 06.09.2001
3) Fire resistance properties of the cover as per ISO:340
4) Drum friction test as per IS:1891(part-5)-1993
5) Max.surface Elect. Resistance as per IS : 1891(part-5)-1993
6) Cover abrasion loss 175 Cu.mm (max.) as per DIN-53516.
7) Type of Belt carcass - Nylon-Nylon
8) Condition of material to be conveyed - Wet and abrasive
9) Duty Condition - Heavy duty
10) Minimum Tensile strength - 17 Mpa
11) Minimum elongation at break - 350%
12) Full thickness elongation of belting in the longitudinal direction at reference load - Not more than 4%
13) Adhesion between adjacent plies - 4.5 KN/m width minimum
14) Adhesion between cover and carcass - 3.5KN/m minimum
15) Each packed roll must indicate gross weight of the roll, net weight of the belt and weight of belt per mtr length (kg/m)
16) Belting with carcass of solid woven fabric of equivalent tensile strength is also acceptable
17) The belt should carry identification mark as per clause 18.1 of IS:1891(part-1)-1994

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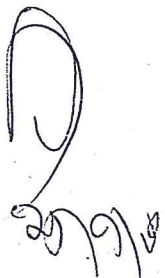


FORMAT FOR SECURITY CUM PERFORMANCE BANK GUARANTEE

1. In consideration of M/s. Western Coalfields Limited, Nagpur (hereinafter called "The Company") having agreed to exempt _____ (hereinafter called "The said Contractor(s)") from the demand, under the terms and conditions of the agreement dated _____ made between _____ and _____ for _____ (hereinafter called " the said Agreement"), of security deposit for the due fulfillment by the said contractor(s) of the terms and conditions contained in said Agreement, on production of bank guarantee for Rs. _____ (Rupees _____ only). We _____ (indicate the name of bank) (hereinafter referred to as "the Bank") at the request of _____ (Contractor(s) do hereby undertake to pay to the Company an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reasons of any breach by the said Contractor(s) of any terms or conditions contained in the said Agreement.
2. We, _____ do hereby undertake (indicate the name of the Bank) to pay the amounts due and payable under this guarantee without any demur, merely on demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said agreement or by reason of the contractor(s)'s failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ only.
3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal : The payment so made by under this bond shall be a valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.
4. We, _____ further agree that the (indicate the name of the Bank) guarantee herein contained shall remain in full force and affect during the period that would be taken for performance of the said Agreement and that it shall continue to be enforceable till all the dues of the company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the company certified that the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee. The guarantee shall remain in force till the _____ the day of _____ 20 _____ and unless a demand or claim under the guarantee is made on us in writing within 3 months from the said date, shall be discharged from all liabilities under this guarantee thereafter.
5. We, _____ further agree with the (indicate the name of the Bank) Company that the company shall have 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 company 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 reasons of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act or commission on part of the company or any indulgence by the company 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. This guarantee will not be discharged due to the change in constitution of the bank or the contractor(s)/supplier(s).
7. We _____ lastly undertake not to revoke this (indicate the name of the Bank) guarantee during its currency except with the previous consent of the company in writing.

The Bank Guarantee is operational for all purposes at Nagpur Branch, Maharashtra (Branch code -----)
Dated the _____ day of _____ 20 _____

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Signature of the authorised person
for and on behalf of the Bank.
For _____
(indicate the name of the Bank)

PO No: 11100132218112 Dated: 25/09/2018 on M/s GURUKRIPA CONVEYORS

Procedure for submission of Bank Guarantee in SFMS platform

The Bank Guarantee issued by the issuing bank on behalf of the supplier in the favour of Western Coalfields Ltd shall be in paper form as well as issued under "Structured financial messaging system". The details of beneficiary for issue of BG under SFMS platform is furnished below: The original bank guarantee issued by the issuing bank shall be sent by the issuing bank to the following address by Registered post /AD.

Name of Beneficiary and Details	
Name	Western Coalfields Limited
Area	Head Quarter
Bank A/c No / Cust ID	Current A/c no: 005905018053 Cust ID:556096497 ICICI Bank Ltd. Vishnu Vaibhav,222,Aplm Road, Civil Lines Nagpur
IFSC Code	ICIC0000059
Bank Manager Name and Phone	Hrushikesh Sakalkale Ph No. :-+91-9923202096

General Manager (MM) I/c
Materials Management Wing
Western coalfields.ltd HQ
Coal Estate, Civil lines,Nagpur - 440001
Maharashtra

Any extension / amendments to the BG shall be done following the same procedure as above.

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GURUKRIPA

Introduction

COMPANY PROFILE

GURUKRIPA was incorporated in the year 2005 as GURUKRIPA CORPORATION under the technical guidance of our sister concern unit M/s. ANIL TYRE - SHAHPURA which is a principal company engaged in manufacturing of rubber sheets, precured tread rubber (PCTR) since 1989. In the year 2005 we came into the business of manufacturing of rubber conveyor belts with GURUKRIPA CONVEYORS. We are a leading manufacturer, Stockist & Exporter of rubber conveyor belts under the brand name GURUKRIPA with a 100% growth rate per year.

INFRASTRUCTURE AND CAPACITY

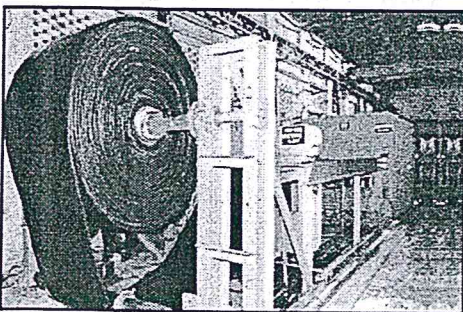
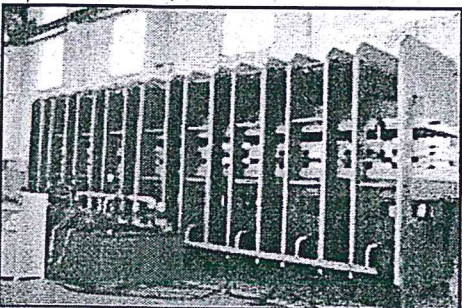
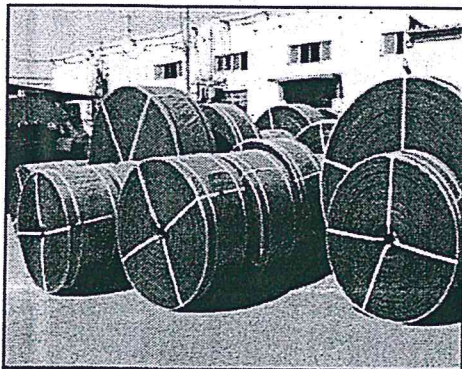
We are now manufacturing conveyor belts upto the width of 2000mm with compliance to ISO : 9001 standard & at a rate of 25000 meters per month. We also manufacture special purpose belts as per customized specification of customer.

CUSTOMER SATISFACTION

GURUKRIPA is an ISO 9001:2008 Certified company which has retained its customers with its best quality & excellent value for money products. Our technocrats have an experience of around 25 years in rubber technology & compounding which helps our R & D department to meet the customers requirement with perfection. Our major client list include cement industries, steel plant, iron ore mines, power sector & all the reputed public & private sector industries.

GLOBAL PRESENCE

We have modern & automatized manufacturing facilities which helps our Qualified & skilled personals to give our customers exemplary quality assurance. We GURUKRIPA are here to accept challenges and utilize our resources at its best to shine out.

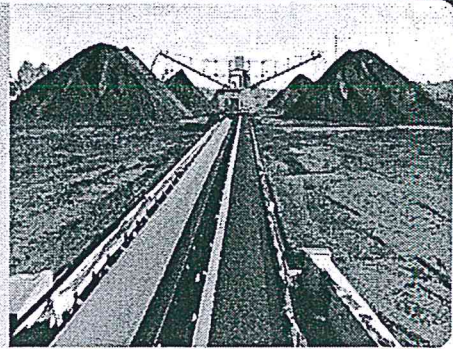


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GENERAL CONVEYOR BELT

There are two types of fabrics used in conveyor belt construction namely polyester and nylon. They are highly impact and damage resistant and are suitable for transportation of materials like ore, crushed stones, grain, sand etc. We use combination of both the fabrics to make best use of their properties.



NYLON FABRIC (NN) CONVEYOR BELT

Special Features

- Exceptionally shock & impact resistance to the carrying surface
- Excellent troughability and flexibility
- High resistance to water and mildew
- Superior in fastener holding ability
- Ability to run on smaller diameter pulleys

Grade		NN100	NN120	NN150	NN200	NN250	NN300	NN350	NN400
Min. Tensile Strength	Kg/cm-ply	100	120	150	200	250	300	350	400
Working Tension Rating (Vulcanized)	kg/cm-ply	8.4	10.0	12.5	16.7	20.8	25.0	29.2	33.3
Approx. Gauge per Ply with skim coat.	mm	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0

POLYESTER FABRIC (EP) CONVEYOR BELT

The combination of polyester in warp and nylon in filling provides technically low-stretch and high impact abuse resistance.

Special Features

- High tensile strength
- Outstanding dimensional stability
- Provides complete protection against mildew & water
- Low Elongation.
- Highly impact resistant

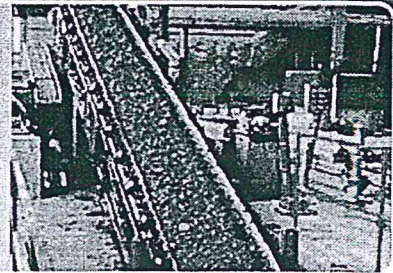
Grade		EP100	EP125	EP150	EP200	EP250	EP300	EP350	EP400
Min. Tensile Strength	Kg/cm-ply	100	125	150	200	250	300	350	400
Working Tension Rating (Vulcanized)	kg/cm-ply	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
Approx. Gauge per Ply with skim coat.	mm	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0

Carcass Grade (EP & NN)

Grade	160	200	250	315	400	500	630	800	1000	1250	1600	2000
2ply	160/2	200/2	250/2	315/2	400/2							
3ply			250/3	315/3	400/3	500/3	630/3	800/3	1000/3	1250/3		
4ply					400/4	500/4	630/4	800/4	1000/4	1250/4	1600/4	
5ply						500/5	630/5	800/5	1000/5	1250/5	1600/5	2000/5
6ply							630/6	800/6	1000/6	1250/6	1600/6	2000/6

HEAT / SUPER HEAT RESISTANT CONVEYOR BELT

It is suitable for critical applications like hot sintered ore, hot pellet, hot clinker, hot chemical, fertilizer, hot cement etc.



Standard specifications

Carcass	: Steel cord, Nylon, Polyester
Tensile Strength	: 100-6.000N/mm
Belt Width	: 300-2400mm
Length	: Steel cord belts 50m and over, fabric belts 10m and over
Rubber Cover	: T1, T2, T3

Selecting the right heat-resistant belt

- The surface temperature of the belt varies with the type and size of the material being carried. Like large lump (e.g.) sintered ores, coke), which allow air to circulate, the belt surface would be cooler than the lumps.
- In the case of powdery or similar materials. Such as cements, alumina, carbon black etc., there is almost no temperature difference between material and belt surface. Therefore, in selecting a belt, it is necessary to know not only the temperature of the material to be carried but also to have an accurate idea of the surface temperature (the belt will be operating at).

Characteristics of Heat Resistant Belt

- Rubber cover and carcass should not deteriorate due to heat.
- Rubber cover on carcass should maintain excellent properties, even at high temperatures and good adhesion to form one unit, even when they are exposed to high temperatures.

The surface temperature of heat resistant belt varies with the material type, belt speed, loading rate and size depending on circumstances. In order to select the proper heat resistant belt, it is necessary to consider not only the temperature of the material to be conveyed but also the surface temperature of the belt.

SELECTION OF HEAT-RESISTANT GRADE

Materials Carried	Temperature of Materials Carried	Belt Surface Temperature	Heat Resistant Conveyor Belt Grade
Sintered Ore	200° C downward	50-100° C	T1
	200° C upward	100° C downward (Lump Condition)	T1
		100-130° C	T2
		130-180° C	T3
Return of Sintered Ore	150° C downward	50-80° C	T1
	150° C upward	80° C downward (Lump Condition)	T1
		80-130° C	T2
		130-180° C	T3
Spherical Ore	120° C upward	80° C downward	T1
	120° C downward	80° C upward	T2
Pellet	150° C downward	100° C downward	T2
	200° C upward		
Coke	60-400° C	100° C downward	T1
	Cement	120° C downward	50-80° C
120° C upward		80-130° C	T2
		130-180° C	T3
Dried Lime Dried Clay	120-150° C	100° C upward	T2
	200° C downward	50-100° C	T1
		100-130° C	T2
		130-180° C	T3
Cement, Steel Mills, Chemicals Fertilizers	80° C downward	50-70° C	T1
	80° C upward	70-120° C	T2
		120-180° C	T3
Molding	120° C downward	50-100° C	T1
	120° C upward	100-120° C	T2
		120-180° C	T3

Restrictions on the use of the heat resistant belt.

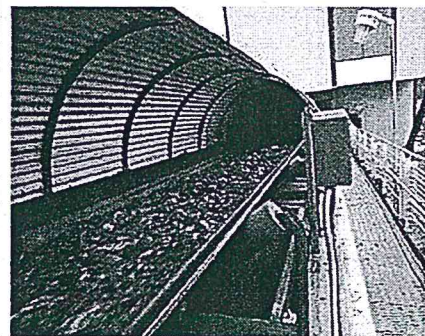
Do not use SBR heat resistant belt when:

- Powdered material is over 70° C
- Strong acid or alkaline is used
- Oil products and oil-stained substances are used.
- The operation site or the materials requires flame-resistant belts.

EPDM Heat-resistant belt

Do not use EPDM Heat-resistant belts when:

- Powdered material is over 180° C
- Oil products and oil-stain other than vegetable oil are present.
- The location of the materials requires flame-resistant belts.



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27/5/14



OIL / HEAT & OIL RESISTANT CONVEYOR BELT



This cover grade is specially made up of blended synthetic rubber compounds and is designed to give very high resistance to mineral, vegetable & animal oil & fats.

OR-100

It is resistant to Moderate Oil operations like wood chips, linseed, cottonseed and whole soyabeans where static conductivity is needed.

OR-200

It has superior oil resistance to various kinds of animal and vegetable oils with severe cold temperatures up to -45°C

OR-300

It has excellent resistance to the toughest oil applications such as oil-treated coal and petroleum based oils.

HTN/HOT

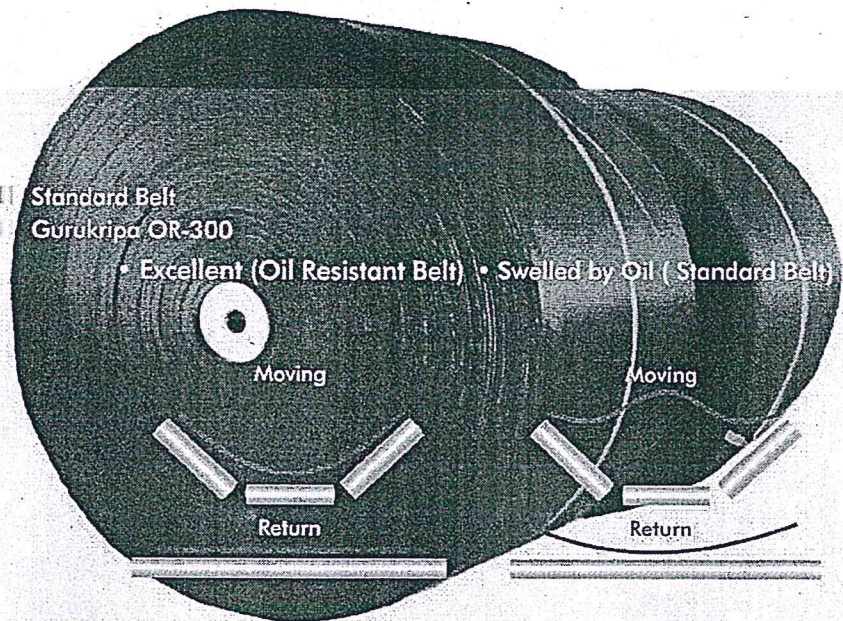
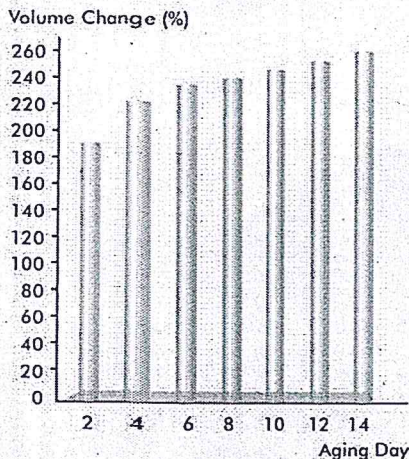
It is recommended for conveying hot asphalt with material temperature up to max. 175°C (in normal conditions) where both oil & heat resistance are required.

RUBBER COVER GRADE

Type	Min. Tensile Strength		Min. Elongation (%)	Volume charge (%) ASTM#3 Oil	Use
	kg/cm ²	Psi			
OR-100	100	1400	Min. 350	Max. 150	Wood chip, linseed, cottonseed, kernel corn and whole soyabeans, static conductivity and moderate oil resistance.
OR-200	120	1700	Min. 350	Max. 90	Oil-treated materials and for carrying oily metal turnings and shavings, crushed soyabeans, animal or vegetable fats.
OR-300	120	1700	Min. 400	Max. 20	Oily metal parts, crushed soyabeans, automatic hydrocarbons such as benzol, toluene and petroleum based oils.
HTN/HOT	120	1700	Min. 400	Max. 60	Hot asphalt and other oil & heat resistant applications.

* Oil resistant (volume change) and immersion condition : 70 °C x 96Hrs

VOLUME CHANGE RATIO

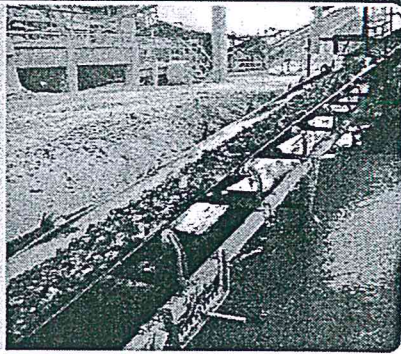


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FLAME RESISTANT CONVEYOR BELT



It is designed for the best service conditions of coal mining industries. It is suitable for mining, power plant, electric utilities, coal cleaning plants. The different rubber compounds are available in accordance with its requirement.

FR-MOR

Fire Resistant with medium oil, resistance in accordance to USMSHA (Mine Safety and Health Administration). It is recommended for the typical applications like oil treated coal and grain industries requiring fire & oil resistance and static conductivity with lower resistance than 1MQ

FR-SBR

Fire Resistant rubber cover in accordance to USMSHA requirements (Mine Safety and Health Administration). It is highly resistant to wear and cold.

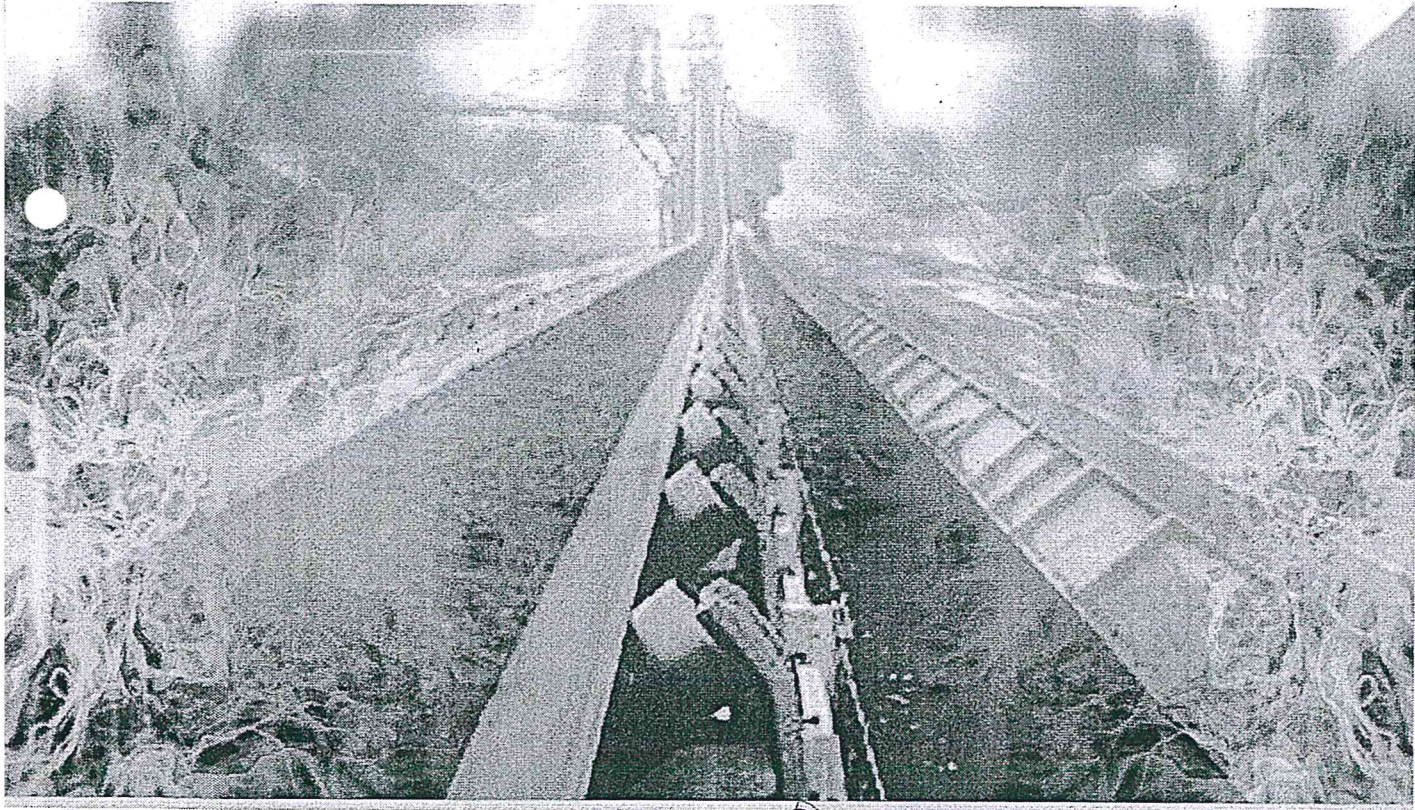
FR-GR

Specially compounded SBR rubber cover for under-ground operations requiring fire resistance and static conductivity. The important characteristic is self-extinguishable rubber cover.

Flame Resistant
Rubber Cover Grade : USMSHA, DIN, CAN, AS, etc.

Type	Application Grade	COVER RUBBER		
		Min. Tensile Strength		Min. Elongation (%)
		kg/cm ²	psi	
FR-MOR	MSHA/MOR(USA)	150	2100	400
FR-SBR	MSHA/SBR(USA)	140	2000	400
FR-GR	ISO, DIN, JIS, KS	140	2000	400

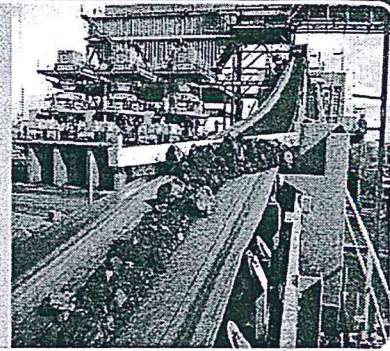
- Certified USA**
- FR-MOR(MSHA/MOR/SC) USMSHA No. 28-85/6
 - FR-SBR(MSHA/SBR) USMSHA No. 28-85/5
- RUSSIA**
- FR-MOR POCC KR BO 1408
 - FR-SBR POCC KR BO 1324



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- A signature at the bottom center.
- A date "20/09/18" written in the bottom center.
- A date "5/17" written in the bottom right corner.

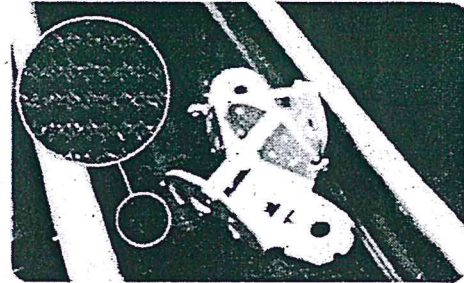
ROUGH TOP CONVEYOR BELT

This belt has been designed for transporting fragile or easily deformed goods such as glass, paper bags, carton box etc. The slip resistant surface is ideal for steep incline/decline applications.

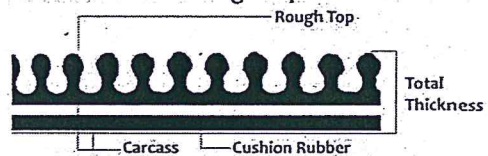


Special Features

- Cushioning effect absorbs vibration and reduces slippage.
- Usable at the angle of 25-35 degrees, depending on goods to be carried.
- Low friction coefficient with bare back bottom.
- Two or three plies of synthetic fabrics provide high strength and flexibility.



Structure of the Rough Top

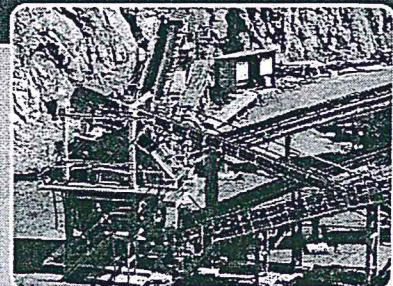


Type of Rough Top Belt

2ply	Black	Rough Top x Bare
	Tan	Rough Top x Bare
3ply	Black	Rough Top x Bare
	Tan	Rough Top x Bare
	Brown	Nitrile Rough Top x Bare
	Blue	Nitrile Rough Top x Bare

QUARRY CONVEYOR BELT

It is suitable for transportation of quarry. It is specially designed for the primary conveyor lines and to make transportation easier.

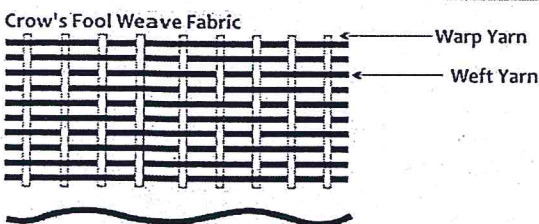


CROW'S FOOT WEAVE FABRIC

The specially designed Crow's Foot Weave fabric used in "Quarry Supreme" belt has extremely high tear strength up to 5 times compared with a plain woven standard fabric which has an excellent fastener holding ability.

CFW Fabric Grade & Cover Rubber

Specification	CFW250X2P	CFW250X3P	CFW315X2P	CFW315X3P	CFW315X4P	CFW350X3P	CFW350X4P	
No. of Plies	2	3	2	3	4	3	4	
Working Tension Rating	(kg/cm)	50	75	63	95	126	105	140
	(lb/inch)	280	420	350	530	700	580	780
Thickness	3/16"-1/4"	1/4"-5/16"	1/4"-5/16"	1/4"-5/16"	5/16"-3/8"	5/16"-3/8"	5/6"-1/2"	



Extra Cut Resistance Rubber Cover

This rubber cover grade is made especially for operation requiring extreme resistance from cutting & gouging for sharp Jagged and abrasive materials.

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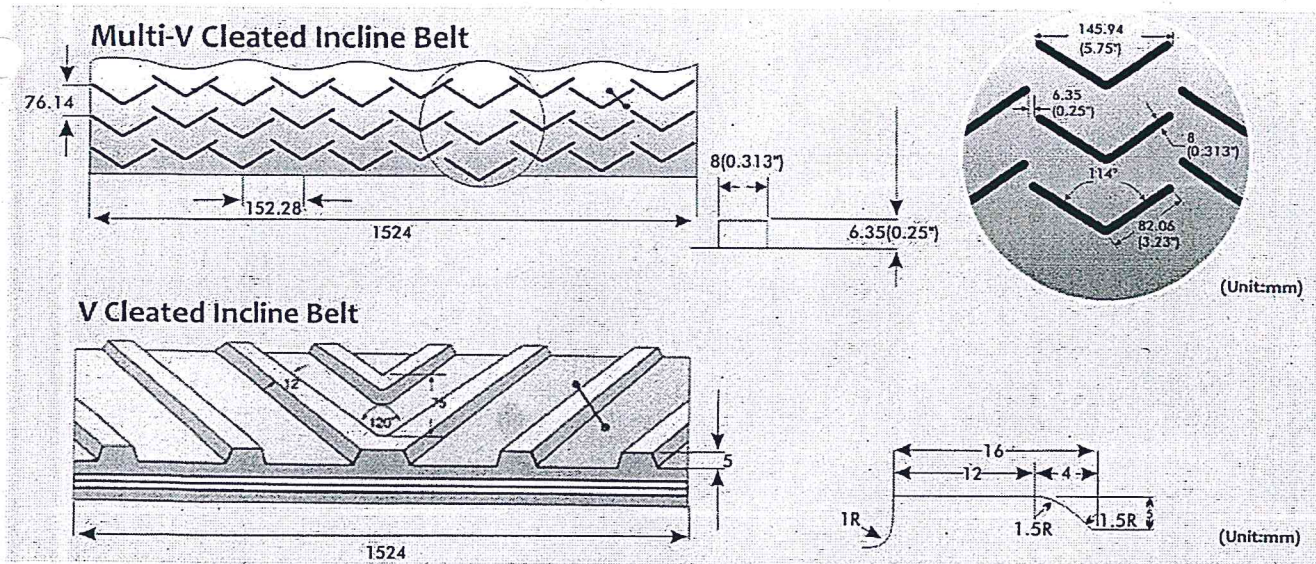
INCLINE (CHEVRON CLEATED) CONVEYOR BELT

It is suitable for conveying sand, fine coal and grain materials by using steep inclines. Chevron-Cleats increase the quantity of granular materials in Fabric incline applications.



Special Features

- High quality fabric with low stretch.
- Cleat angle and pitch are designed for smooth travel cover over return idlers.
- Higher angle of 17-30 degree of incline.
- Wear resistant and oil resistant black rubber quality is available.



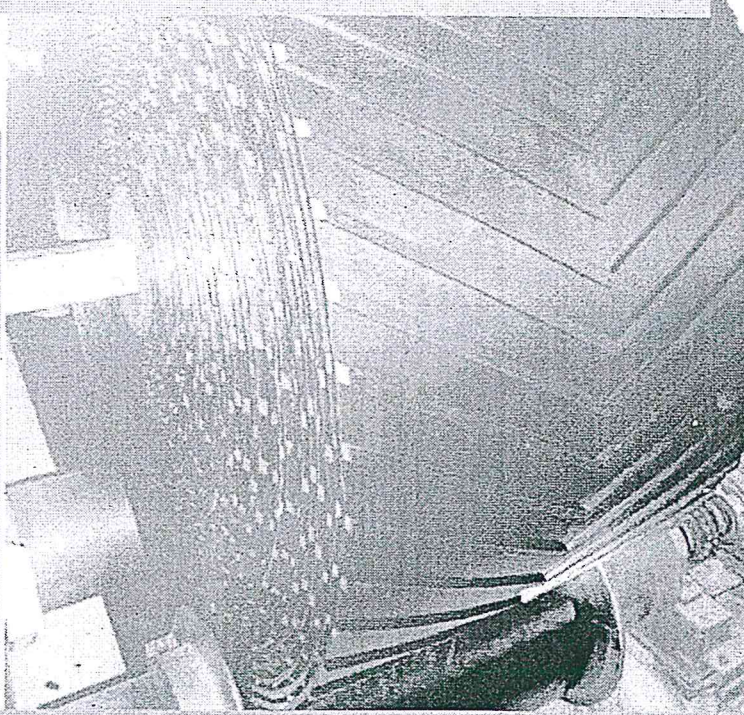
Steep Incline Belt

C15 Type

A Belt Width	B Pattern Width	C Pitch
500	385	150
600	385	150
650	385	150
750	600	150
900	600	150
1,000	600	150

C25 Type

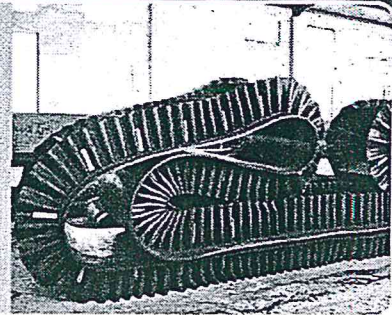
A Belt Width	B Pattern Width	C Pitch
600	550	200
650	550	200
750	550	200
800	550	200
900	750	200
1,000	750	200
1,050	750	200
1,200	750	200



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SIDEWALL CONVEYOR BELT

It is designed with two corrugated sidewalls molded to cross rigid base belt. It is developed in order to meet larger capacities with more steep inclined line.

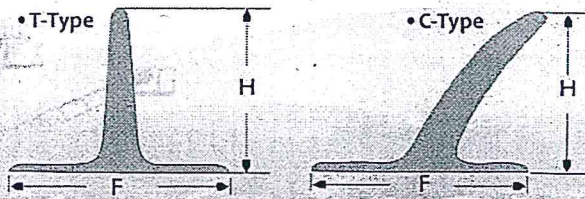


Special Features

- Increases the transporting capacity to 4 times compared to standard conveyor belts.
- Save installation space due to the possibility of increasing the angle of inclination up to 90°
- Protect the material from friction by solid cleats mounted to the belt

FABRIC RUBBER CONVEYOR BELT

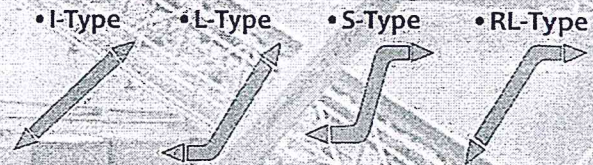
Cleat Type



Comparison of Cross Section Area

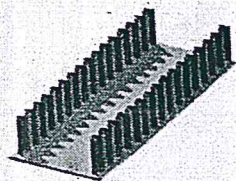


Various Installations

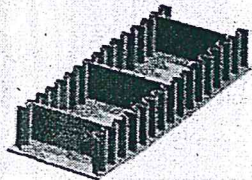


Cross Rigid Basebelt

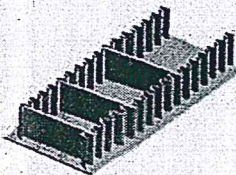
In order to give maximum stability in the transverse directions, this basebelt is reinforced with specially designed filament fabric which provides better return side support, no wear and tear of cleats and rubber cover is available with various compounds like abrasion oil, heat and flame resistance.



Type I
This type of sidewall belt has no cleat and is normally used

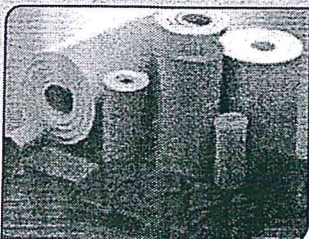


Type II
The cross-cleat provides better performance to be used for high degree of inclination up to 15-60°



Type III
The cross-cleat with wider basebelt construction is suitable for the application up to more than 60°

GURUKRIPA offers a wide range of rubber sheets suitable for a wide variety of applications which include shock and impact absorption, abrasion resistance, load distribution, Tear and Wear Resistance, Gaskets.



Range

- Hardness : 30 to 80 Shore A
- Thickness : Upto 50 mm
- Width : Upto 2000 mm
- Colours : As per customer requirements
- Grades :
 - Super Abrasion Resistant
 - Moderate Abrasion resistant • General Purpose
 - Heat Resistant • Oil Resistant • Weather Resistant
- Polymers Used :
 - Natural • SBR • EPDM • Nitrile • Neoprene

a

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CHART FOR CONVEYOR BELT SELECTION - EP (POLYESTER/NYLON)

Belt Designation		Full Belt Tensile Strength	Maximum Recommended Working Tension	Nominal Carcass Thickness	Nominal Carcass Weight	Maximum Belt Width (mm) For Adequate Load Support Bulk Density (T/M ³)			Minimum Belt Width (mm) For Adequate Troughing		
Type	Rating	KN/m	Vulcanized Splice	(mm)	Kg/m ²	Upto 1.0	Upto 1.5	Upto 2.5	20 Deg. Idlers	30 Deg. Idlers	45 Deg. Idlers
General Duty (GD)	315/3	315	31.5	3.3	3.850	1200	1000	800	500	500	500
	400/3	400	40	3.5	4.200	1200	1000	800	500	500	650
	400/4	400	40	4.4	5.250	1200	1000	800	500	500	650
	500/3	500	55	3.8	4.500	1400	1000	800	500	500	650
	500/4	500	55	4.6	5.500	1400	1200	900	500	650	650
	630/3	630	70	4.5	5.300	1600	1400	1200	650	800	800
	630/4	630	70	5.3	6.300	1600	1600	1400	650	800	900
	800/4	800	90	6.0	7.100	1600	1600	1400	650	800	900
Heavy Duty (HD)	315/3	315	31.5	3.6	4.300	1200	1000	800	500	500	500
	400/3	400	40	3.8	4.500	1200	1000	800	500	500	500
	400/4	400	40	4.6	5.500	1200	1000	800	500	500	500
	500/3	500	55	4.2	5.000	1400	1000	800	500	500	500
	500/4	500	55	5.0	6.000	1400	1000	900	500	500	500
	630/3	630	70	4.8	5.700	1400	1200	1000	500	500	500
	630/4	630	70	5.8	6.800	1400	1200	1000	500	500	500
	800/4	800	90	6.4	7.600	1600	1400	1050	500	500	650
	800/5	800	90	7.0	8.300	1600	1600	1200	600	650	800
	1000/4	1000	110	6.5	7.700	1800	1400	1200	600	750	900
	1000/5	1000	110	7.4	8.750	1800	1600	1400	750	900	1000
	1250/4	1250	140	7.0	8.300	1800	1600	1400	750	800	900
	1250/5	1250	140	8.0	9.500	1800	1800	1600	800	900	1000
	1400/4	1400	145	7.5	8.900	2000	1800	1600	750	800	1000
	1400/5	1400	145	8.2	9.700	2000	1800	1800	800	900	2000
	1600/4	1600	180	7.8	9.250	2000	2000	2000	800	900	1000
1600/5	1600	180	8.8	10.500	2000	2000	2000	800	900	1200	
1800/5	1800	200	9.0	10.800	2400	2400	2400	800	1000	1200	
2000/5	2000	220	9.2	11.000	2400	2400	2400	800	1000	1200	
2000/6	2000	220	9.4	11.250	2400	2400	2400	800	1000	1200	
Extra Heavy Duty (EHD)	1000/4	1000	110	6.5	7.800	1800	1400	1200	600	750	900
	1000/5	1000	110	7.5	9.000	1800	1600	1400	750	900	1000
	1250/4	1250	140	7.1	8.500	1800	1600	1400	750	800	900
	1250/5	1250	140	7.9	9.400	1800	1800	1600	800	900	1000
	1400/4	1400	154	7.6	9.100	2000	1800	1600	750	800	1000
	1400/5	1400	154	8.4	10.000	2000	1800	1800	800	900	1200
	1600/4	1600	180	7.8	9.300	2000	2000	2000	800	900	1000
	1600/5	1600	180	9.2	11.000	2400	2400	2400	800	900	1200
	1800/5	1800	200	9.4	11.200	2400	2400	2400	800	1000	1200
	2000/5	2000	220	9.6	11.500	2400	2400	2400	800	1000	1200
2000/6	2000	220	9.8	11.700	2400	2400	2400	800	1000	1200	

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CHART FOR CONVEYOR BELT SELECTION - NN (NYLON/NYLON)

Belt Designation		Full Belt Tensile Strength	Maximum Recommended Working Tension		Nominal Carcass Thickness	Nominal Carcass Weight	Maximum Belt Width (mm) For Adequate Load Support Bulk Density (T/M ³)			Minimum Belt Width (mm) For Adequate Troughing		
Type	Rating	KN/m Splice	Vulcanized Splice Kn/m	Mechanical	(mm)	Kg/m ²	Upto 1.0	Upto 1.5	Upto 2.5	20 Deg. Idlers	30 Deg. Idlers	45 Deg. Idlers
General Duty (GD)	200/2	200	20	20	2.4	2.800	650	500	—	300	400	500
	250/2	250	25	25	2.5	2.900	650	600	—	300	400	500
	315/2	315	31	31	2.7	3.150	900	650	500	300	400	500
	315/3	315	31	31	3.1	3.650	1000	800	650	400	500	500
	400/3	400	40	40	3.4	4.000	1200	900	650	500	500	500
	400/4	400	40	40	4.2	5.000	1200	900	650	500	500	500
	500/3	500	50	*	3.6	4.250	1200	900	650	500	500	500
	500/4	500	50	*	4.3	5.000	1200	900	650	500	500	500
	630/3	630	63	*	3.8	4.450	1200	1000	800	500	500	500
	630/4	630	63	*	5.0	6.000	1200	1000	800	500	500	500
Heavy Duty (HD)	200/2	200	20	20	2.6	3.250	800	650	500	400	400	500
	250/2	250	25	25	2.8	3.500	800	650	500	400	400	500
	315/2	315	31	31	3.0	3.500	1000	800	650	500	500	500
	315/3	315	31	31	3.5	4.100	1200	1000	800	500	500	500
	400/2	400	40	40	3.2	3.750	1200	1000	800	500	500	500
	400/3	400	40	40	3.6	4.250	1200	1000	800	500	500	650
	400/4	400	44	40	4.5	5.300	1200	1000	800	500	500	650
	500/3	500	50	*	4.1	4.800	1400	1000	800	500	500	650
	500/4	500	55	*	4.5	5.300	1400	1200	900	500	650	650
	630/3	630	63	*	4.1	4.800	1600	1400	1200	650	800	800
	630/4	630	70	*	5.4	6.400	1600	1600	1400	650	900	900
	800/4	800	90	*	5.8	6.850	1600	1600	1400	650	800	900
	1000/4	1000	110	*	6.0	7.100	1800	1800	1800	800	900	1000
	1000/5	1000	110	*	7.0	8.300	1800	1800	1800	800	900	1000
	1250/4	1250	140	*	6.5	7.700	1800	1800	1800	800	900	1000
	1250/5	1250	140	*	7.4	8.800	1800	1800	1800	900	900	1000
	1400/4	1400	154	*	7.0	8.400	2000	1800	1600	750	800	1000
	1400/5	1400	154	*	7.7	9.200	2000	1800	1800	800	900	1200
1600/4	1600	180	*	7.2	8.600	2000	2000	2000	800	900	1000	
1600/5	1600	180	*	8.4	10.000	2000	2000	2000	800	900	1200	
1800/5	1800	200	*	8.6	10.300	2400	2400	2400	800	1000	1200	
2000/5	2000	220	*	8.8	10.500	2400	2400	2400	800	1000	1200	
2000/6	2000	220	*	9.0	10.750	2400	2400	2400	800	1000	1200	
Extra Heavy Duty (HD)	400/4	400	44	*	4.8	5.700	1200	1000	800	800	500	500
	500/4	500	55	*	5.0	6.000	1400	1000	900	900	500	500
	630/4	630	70	*	5.6	6.650	1400	1200	1000	1000	500	500
	800/4	800	90	*	6.0	7.100	1600	1400	1050	1050	500	650
	800/5	800	90	*	6.8	8.000	1600	1600	1200	1200	650	800
	1000/4	1000	110	*	6.2	7.300	1800	1400	1200	1200	750	900
	1000/5	1000	110	*	7.2	8.500	1800	1600	1400	1400	900	1000
	1250/4	1250	140	*	6.8	8.000	1800	1600	1400	1400	800	900
	1250/5	1250	140	*	7.6	9.000	1800	1800	1600	1600	900	1000
	1400/4	1400	154	*	7.2	8.500	2000	1800	1600	1600	800	1000
	1400/5	1400	154	*	8.0	9.500	2000	1800	1800	1800	900	1200
	1600/4	1600	180	*	7.5	8.900	2000	2000	2000	2000	900	1000
	1600/5	1600	180	*	8.8	10.450	2000	2000	2000	2000	900	1200
	1800/5	1800	200	*	9.0	10.800	2400	2400	2400	2400	1000	1200
	2000/5	2000	220	*	9.2	11.000	2400	2400	2400	2400	1000	1200
	2000/6	2000	220	*	9.4	11.250	2400	2400	2400	2400	1000	1200

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	UNDA	WAZIRPUR	KANHAJ	PENCHI	NAGPUR	UMRER	MAJRI	WANIN...	WANI	CHANDRAPUR	BALLARPUR	TOTAL
Rubber Belting 800 mm, 400 KN	400.00	400.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	1400.00
Rubber Belting 1000 mm, 500 KN	600.00	200.00	0.00	0.00	600.00	200.00	0.00	0.00	400.00	0.00	200.00	2200.00
Rubber Belting 1000 mm, 630 KN	0.00	0.00	0.00	0.00	0.00	0.00	1000.00	0.00	0.00	400.00	0.00	1400.00
Rubber Belting 1200 mm	0.00	400.00	1000.00	0.00	400.00	400.00	1000.00	600.00	1000.00	1400.00	600.00	6800.00
Rubber Belting 1400 mm	0.00	0.00	0.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	800.00
TOTAL APPROVED MB VALUE	Rs. 1416432.62	1592278.55	2195744.00	2195744.00	2585465.21	2918235.98	3523522.46	1421076.00	2650497.26	3142738.67	(1449025.48)	22895016.23
BUDGET CERTIFIED FOR	Rs. 5406075.00	1592279.00	9927296.00	(Budget Including PVC Belt 800 and 1000 mm)	2585000.00	2918235.98	3523522.00	1421000.00	2650497.00	3142738.67	(1449025.48)	34615669.13
BUDGET REQUIRED	Rs. 1416432.62	1592278.55	12409120.72	(Budget Including PVC Belt 800 and 1000 mm)	2585465.21	2918235.98	3523522.46	1421000.00	2650497.00	3142738.67	(1449025.48)	
BC REFERENCE	WCL/PKD/BC/18-19/Store/MB/Nil dtd. 09.08.17 for Rs. 5406075.00	FCMB/03/18-19/26/6 dtd. 13.9.17	WCL/Pench/A rear/R/1/8/2/18-19 dtd. 29.08.17	OS/E&M/A&B Class/HQ Procuremn/18-19/02 dtd. 28.08.17	WCL/U/A/E&M/Other Store/AB class/2018-19/01/06 dtd. 29.08.17	05/18-19 dtd. 20.08.17	REV/WNA/HQ-A&B/18-19/E&M/2 dtd. 28.08.17	RB/WA/CG M/6/18-19/ A&B-E&M Stores/59/01/2018-19 dtd. 3.09.17	RB/CHA/Area/MB/ A&B-E&M Stores/59/01/2018-19 dtd. 3.09.17	Statement of approved budget by Dy. Manager (Fin), B'A is enclosed.		

BC is found by Manager at post. P. by enclosed at page 13

CHIEF MANAGER (E&M)

GM(E&M)/HQP/18-19

DY. MANAGER (E&M)

25/09/18

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