



**RASTAPAD**  
Technology Solutions  
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## Bahabad Pelletizing Project

### MHC Part 6



PAMIDCO  
Parsian Mines & Industries  
Development Company

شرکت آهن و فولاد غدیر ایرانیان  
Iranian Ghadir Iron & Steel Co.



### Belt Conveyor Datasheet (850BC01)

Rastapad Project No.: 22219 Doc. No. BPP-PA-M81-850BC01-0001 Rev. CC Sheet No. 4 of 16

| 1  | R | Belt Technical Specification Cont.       |                                                    |
|----|---|------------------------------------------|----------------------------------------------------|
| 2  |   | Belt Code                                | 1200 EP1000/5 6+3 X                                |
| 3  |   | Belt Cover Quality                       | DIN22102 X Grade                                   |
| 4  |   | Belt Width                               | 1200 ±1% mm                                        |
| 5  |   | Belt Rating                              | 100 N/mm                                           |
| 6  |   | Maximum Acceleration Tension             | 150 N/mm                                           |
| 7  |   | Belt Loop Length (Without Splice Length) | 655 m                                              |
| 8  |   | Splice Length                            | 4 (To Be Approved By Vendor) m                     |
| 9  |   | Spare Length (20%)                       | 130 m                                              |
| 10 |   | Belt Thickness                           | 15.5 ±5% (To Be Finalized By Vendor) mm            |
| 11 |   | Top Cover Thickness                      | 6 ±5% mm                                           |
| 12 |   | Bottom Cover Thickness                   | 3 ±5% mm                                           |
| 13 |   | Ply number                               | 5                                                  |
| 14 |   | Fabric Composition                       | Polyester/Nylon                                    |
| 15 |   | Elastic Modulus                          | 13500 N/mm                                         |
| 16 |   | Continuous Work Service                  | 70 °C                                              |
| 17 |   | Maximum Peaks of Temperature             | 90 °C                                              |
| 18 |   | Minimum Work Service                     | -10 °C                                             |
| 19 |   | Tensile strength                         | ≥ 200 N/mm                                         |
| 20 |   | Elongation at Breaking                   | 400 (To Be Approved By Vendor) %                   |
| 21 |   | Adhesions                                | By Vendor                                          |
| 22 |   | Resistance between Plies and Covers      | ≥ 4.5 (To Be Approved By Vendor) N/mm              |
| 23 |   | Resistance between Plies                 | ≥ 5 (To Be Approved By Vendor) N/mm                |
| 24 |   | Abrasion                                 | 120 ±10 (To Be Approved By Vendor) mm <sup>3</sup> |
| 25 |   | Hardness                                 | 60 ±5 (To Be Approved By Vendor) Sha               |
| 26 |   | Ozone resistance (72h / 50 pphm)         | No Cracks                                          |
| 27 |   | Weight                                   | 24.7 (To Be Approved By Vendor) kg/m               |
| 28 |   |                                          |                                                    |
| 29 |   |                                          |                                                    |
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| DIN Code | Characterization                            |
|----------|---------------------------------------------|
| W        | Anti-Abrasive                               |
| X        | Cut resistant for extreme mechanical stress |
| Y        | For general materials handling              |
| K        | Flame-resistant and anti-static             |
| V        | Underground (self-extinguishing)            |
| T        | Transportation of hot material              |
| G        | Oil and grease resistant                    |

# GHADIR IRANIAN PELLETIZING PLANT

## Enquiry Document For Belt Conveyor

850BC01

CLIENT

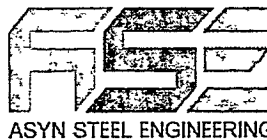
GHADIR IRANIAN



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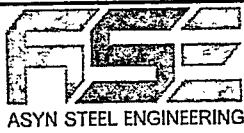
ASYN STEEL ENGINEERING



DESIGNER DOCUMENT NO.

|   | Purpose of Issue | DATE     | Prepare | Check | Approve |
|---|------------------|----------|---------|-------|---------|
| 1 | IFR              | May 2026 | ASE     | ASE   | ASE     |
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| 3 |                  |          |         |       |         |
| 4 |                  |          |         |       |         |

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## BAHABAD PELLETIZING



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Enquiry Document for Belt of Conveyor

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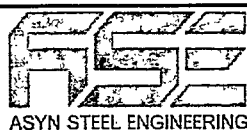
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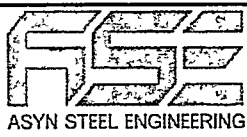
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## 1. Technical Specification and Duty Description

### 1.1. Introduction

This is an enquiry for supplying of Belt for conveyor 850BC01 of GHADIR IRANIAN PELLETIZING PLANT located in Bahabad. These are containing bellow types.

### 1.2. Process Description

Belt conveyor 850BC01 which is designed to charge iron ore pellet to wagon loading area.

## 2. Scope of Supply

1. Material supply regarding the following requirements,
  - a. All the materials used shall be new and conform to the respective specifications given on drawings.
  - b. Major materials shall have prior approval of the client or its representative. Any deviation is subject to the client or its representative approval.
2. Subcontracting of any part of the order shall be subject to the written approval of the client or its representative.
3. Furnishing spare parts for commissioning with complete specifications and drawings
  - Any necessary item for commissioning according to Purchaser's order (if any).
4. Documentation according to Section 6
5. Performing of tests and inspections according to Section 7
6. Packing and delivery to site according to Section 8
7. Guarantee as per Section 9
8. Required quantity: Refer to the datasheet
9. Providing of spare parts for three years of operation

|                                                                                   |                                       |      |                                                                                     |
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### 3. Standards and Codes

The following standards are or should be applied to the design work:

1. DIN
2. ISO
3. CEMA
4. Designer's standards

The following standards is or should be applied to the material,

1. DIN
2. RMA
3. ARPM

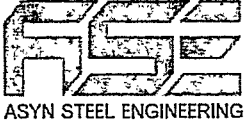
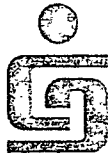
### 4. Site Conditions

Refer to "Design Data" which is defined in section 8.

### 5. Documents

#### 5.1. Documents to be presented before contract

- Time Schedule for all activities including engineering, material procurement, shop fabrication, tests and inspections, painting, packing and delivery.
- Prior approval of source of supply / manufacturer
- Price list for main equipment, three years' operation spare parts and special tools if any.
- Technical Specification for equipment
- Applicable code and standard
- Quality Control Plan (Q.C.P)
- Relevant catalogues

|                                                                                                                           |                                                                 |              |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| <br><b>ASE</b><br>ASYN STEEL ENGINEERING | <b>BAHABAD PELLETIZING</b>                                      |              |  |
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## 5.2. Documents to be presented after contract

- Material Certificate
- Supply list
- Q.C.T.M. (Quality Control and Testing Manual) <sup>(1)</sup> <sup>(2)</sup>
- Packing specification
- Packing list
- Storage procedure <sup>(2)</sup>
- Installation and erection manual <sup>(2)</sup>
- Operating manual <sup>(2)</sup>
- Maintenance manual <sup>(2)</sup>

### Notes:

1. The documents prepared by the Supplier shall be approved by purchaser before manufacturing process starts.
2. The documents shall be supplied in seven hard copies and two soft copies in MS Office software on CD.
3. The drawings shall be supplied in seven hard copies and two soft copies in AutoCAD 2008 or above/new version format (CD).
4. The Supplier is responsible for correctness of shop drawings and Purchaser will only review these drawings.

|                                                                                                             |                                                          |      |                                                                                     |
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## 6. Tests and Inspections

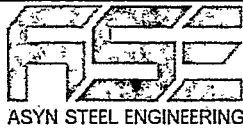
The following tests shall be performed for all equipment by the supplier but not limited to: <sup>(1) (2)</sup>

- 1- Material certificate
- 2- Visual inspection
- 3- Dimensional inspection
- 4- Final inspection prior to packing
- 5- Packing inspection
- 6- Marking inspection for packing
- 7- Physical Properties
  - Rubber Tensile at break, at yield, elongation at break and stress values in a tensile
  - test in accordance with DIN 53504 & DIN 53508
  - Rubber Hardness testing in accordance with DIN 53505
  - Determination of Rubber abrasion in accordance with DIN 53516
  - Rubber adhesion test in accordance with DIN 53530
  - Heat resistance test for belts with covers type T
- 8- Ozone Resistance
- 9- Conductivity
- 10- Mechanical Runing Test
- 11- Performance Test

### Notes:

1. purchaser's representative(s) shall have an unrestricted access to the manufacturing shop of the supplier to witness all manufacturing procedures, tests, and inspections performed on the parts and assemblies.
2. The procedures and criteria of tests and inspections applied to any part shall be mentioned in the Q.C.T.M, which shall be approved by purchaser.
3. EP conveyor belts acceptance criteria shall be according to DIN 22102
4. Steel cord conveyor belts acceptance criteria shall be according to DIN 22131





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5. Tensile strength, Elongation and abrasion of DIN T cover rubber will be applied according to the manufacturer standard (at least but not limited to: Aging condition shall be applied during 168 hours in  $120^{\circ} \pm 1^{\circ}$ . Then, evaluated variation of original values shall be limited to 50% for Tensile strength and 60% for Elongation.)
6. Manufacturer standard shall be applied regarding to the rubber cover hardness
7. Purchaser' representative(s) shall have an unrestricted access to the manufacturing shop of the supplier to witness all manufacturing procedures, tests, and inspections performed on the parts and assemblies.

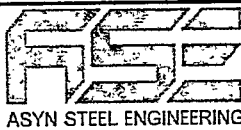
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## 7. Packing and Marking

For packing and marking, the following points should be considered:

- ☐ The packaged shall be delivered at GHADIR IRANIAN PELLETIZIG PLANT in BAHABAD by supplier.
- ☐ The shipping schedule will be provided by the Contractor.
- ☐ All Equipment items shall be packed as "quality control and testing manual" (Q.C.T.M.).
- ☐ Members bent or buckled during handling or storing shall be liable to rejection.
- ☐ All materials shall be packaged in such a way as to prevent damage during transport to its destination.
- ☐ A copy of packing list will accompany each package.
- ☐ The documents necessary for final inspection and release for packing will include, but are not limited to the following:
  - Reports on tests performed.
  - Packing list and Supply list of equipment.
- ☐ Dimensions and weight of total package(s) for each shipment which have to be loaded on truck (vehicle) should be complying with domestic traffic and transportation officer obligatory regulations.

- | Item No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Conveyor Tag No. | Type             | Belt Width (mm) | Belt Length (m) | Spare Length 20% (m) | Belt Thickness (mm) | Belt Speed (m/s) | Conveyed Material  | Max Mat. Lump Size (mm) | Density (kg/m <sup>3</sup> ) | Operation Temp (°C) | Cover Grade | Heat Resistant | Standard     | Belt Weight (kg/m) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|-----------------|-----------------|----------------------|---------------------|------------------|--------------------|-------------------------|------------------------------|---------------------|-------------|----------------|--------------|--------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 850BC01          | EP 1000/5<br>6+3 | 1200            | 655             | 130                  | 15.5<br>(VTA)       | 2.1              | IRON ORE<br>PELLET | 25                      | 2050                         | Amb.                | DIN X       | NO             | DIN<br>22102 | 24.7<br>(VTA)      |
| <p>Notes:</p> <ol style="list-style-type: none"> <li>Splicing Length is not included in belt length (Additional length for splicing regarding number of splices shall be specified and added to belt loop length by vendor).</li> <li>Single length belt is preferred.</li> <li>EP belts shall be "moulded edge" type</li> <li>Supply of the required Splicing Kits.<br/>NOTE: Due to the limited shelf life of the splice and repair materials, required splicing kits will be delivered separately by Airfreight prior to installation of belts at site by ' Call Order ' of client. Client will consider approx. 8 weeks ex works delivery for splicing kits for timing of their call order.</li> <li>For the conveyor's maximum 2 splice should be considered.</li> <li>Cover grade is according to DIN 22102.</li> <li>For the temperature please consider: Continuous Work Service=70 °C - Maximum Peaks of Temperature=90 °C - Minimum Work Service=-10 °C</li> </ol> |                  |                  |                 |                 |                      |                     |                  |                    |                         |                              |                     |             |                |              |                    |

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## 9.2. Quality Control Plan

### 9.2.1. Definitions and Abbreviations

In this manual following definition are applied:

☐ **Product**

The term "Product" shall be applied to the parts, equipment, or the structure which are made from welded plates, assemblies, and sub-assemblies, indicated on reference drawings or part list.

☐ **Owner**

The term indicates the inspectors, GHADIR IRANIAN PELLETIZING PLANT representatives, or any authority specified by GHADIR IRANIAN PELLETIZING PLANT to supervise, control, check or witness the activities described in this document.

☐ **Client / purchaser**

GHADIR IRANIAN PELLETIZING PLANT Engineer

☐ **Consultant**

ASYN Steel Engineering (ASE)

☐ **Supplier**

Mean the person or persons firm or company whose proposal has been accepted.

☐ **Sub-supplier**

Mean any person (other than the supplier) named in the contract for any of the works.

☐ **Works**

Mean all equipment and technical services to be provided by the supplier under the contract.

☐ **Approve**

Means approve in writing letter confirmed by buyer.



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### 9.2.2. Abbreviations

|          |                                    |
|----------|------------------------------------|
| Assy:    | Assembly (ing)                     |
| CAT:     | Category                           |
| DWG:     | Drawing                            |
| Insp.:   | Inspection                         |
| MAT:     | Material Testing                   |
| N.C.R:   | Non-Conformity Report              |
| P:       | Workshop                           |
| PA:      | Pre-Assembly                       |
| PI:      | Rust prevention & Painting         |
| Q.C.T.M: | Quality Control and Testing Manual |
| S:       | Site                               |
| STD:     | Standard                           |
| VT:      | Visual Testing                     |
| SQ:      | Special Quality                    |
| DT:      | Dimensional Control                |
| MT:      | Magnetic Particle Testing          |
| PT:      | Liquid Penetrate Testing           |
| UT:      | Ultrasonic Testing                 |
| RT:      | Radiographic Testing               |
| QCP:     | Quality Control Plan               |
| WPQ:     | Welder Procedure Qualification     |

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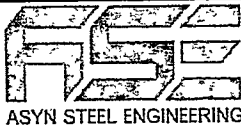
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## 9.2.1. Inspection and Testing Procedure /Acceptance Criteria References

| Inspection/Test Description       | Procedure                                                                                                                | Acceptance criteria                                                                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material Certificate              |                                                                                                                          |                                                                                                                                                                  |
| Visual Inspection                 | External appearance shall be examined visually                                                                           | The conveyor belts shall be free from any defects such as flaw or other injurious for the service ability.                                                       |
| Dimensional Inspection            |                                                                                                                          |                                                                                                                                                                  |
| 1. Belt Width                     | Measured with a convex rule                                                                                              | DIN 22102                                                                                                                                                        |
| 2. Belt Thickness                 | Measured with a slide caliper at the edge of the belting                                                                 | DIN 22102                                                                                                                                                        |
| 3. Cover rubber thickness         | Measured with a slide caliper at the end of belting for the right side, center and left side of the top and bottom cover | DIN 22102                                                                                                                                                        |
| 4. Belt Length                    | Measured with a roller counter or steel tape                                                                             | DIN 22102                                                                                                                                                        |
| Physical Properties               |                                                                                                                          |                                                                                                                                                                  |
| 1. Tension Test of Fabric         | DIN 22102                                                                                                                | DIN 22102                                                                                                                                                        |
| 2. Tension Test of Cover Rubber   | DIN 53504 & DIN 53508                                                                                                    | DIN 22102                                                                                                                                                        |
| 3. Hardness Test of Cover Rubber  | DIN 53505                                                                                                                | DIN 22102                                                                                                                                                        |
| 4. Abrasion Test of Cover Rubber  | DIN 53516                                                                                                                | DIN 22102                                                                                                                                                        |
| 5. Adhesion Test                  | DIN 53530                                                                                                                | DIN 22102                                                                                                                                                        |
| Ozone resistance                  | Common Practice                                                                                                          | Common Practice                                                                                                                                                  |
| Conductivity                      | Common practice                                                                                                          | Common practice                                                                                                                                                  |
| Weight of Belt                    | Measured with a weigher                                                                                                  | Nominal weight (+15% -10%)                                                                                                                                       |
| Mechanical Running Test           | Common Practice                                                                                                          | Common Practice                                                                                                                                                  |
| Performance Test                  | Common Practice                                                                                                          | Common Practice                                                                                                                                                  |
| Final Inspection Prior To Packing | <ul style="list-style-type: none"> <li>- Visual check</li> <li>- Quantity check</li> </ul>                               | <ul style="list-style-type: none"> <li>- Free from defects such as flaw or other injurious for the serviceability</li> <li>- According to supply list</li> </ul> |
| Packing Inspection                | According to attached documents                                                                                          | According to attached documents                                                                                                                                  |

|                                                                                   |                                                                                     |   |                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|-------------------------------|
|  |  |   |                               |
|                                                                                   | <b>BAHABAD PELLETIZING</b>                                                          |   |                               |
|                                                                                   | <b>Document Title:</b><br><b>Enquiry Document for Belt of Conveyor</b>              |   | <b>Rev.</b><br>DATE: May 2026 |
|                                                                                   | <b>Client Document NO:</b>                                                          | - | <b>1</b>                      |
| <b>Designer Document NO:</b>                                                      | -                                                                                   |   |                               |
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**NOTES:**

(\*1)-Inspection and test planning within time schedule shall be provided by supplier and approved by PURCHASER

(\*2)-Supply list and PQR shall be submitted to PURCHASER in order to verification prior to production activities.

(\*3)-Supplier is responsible for providing individual final book for supports which has to be containing complete relevant quality evidences and Doc's. Matters have to conformed, shall trace and distinguish with both QCTM and supply list quotations.

(\*4)-After compliance of shipments, balancing and fulfillment of contractual commitments initial inspection certification may be issued by inspector

(\*5)-If any test and/or inspection due to any technical reason shall be done at Site then existing QCP achievements and inspection process also shall be drawn to field area automatically.

(\*6)- If quality is not meeting with technical requirements with satisfactory, inspector has right to go on beyond the quality indicated in QCP upon 100%.

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## 9.3. Quotation Summary Sheet

The quotation summary sheet shall contain at least the following subjects for each belt:

- Belt type
- Belt Width
- Cover grade
- Total length
- Cover thickness
- Belt material

### Note:

Any deviation from enquiry requirement shall be mentioned in manufacturer's proposal.

| <b>TECHNICAL DATA</b><br><b>EP Conveyor Belt</b> |                                              |                 |  |                   |
|--------------------------------------------------|----------------------------------------------|-----------------|--|-------------------|
| Conveyor Tag. No.:                               |                                              | Belt Type:      |  |                   |
|                                                  |                                              | <u>Standard</u> |  |                   |
| <b>1</b>                                         | <b>Nominal Breaking Strength</b>             |                 |  |                   |
| 1.1                                              | Width                                        | DIN 22102       |  | ±12mm             |
| 1.2                                              | Thickness                                    |                 |  | 1.5/±1.5mm        |
| 1.3                                              | Number of Plies                              |                 |  |                   |
| 1.4                                              | Belt Weight                                  | appr.           |  | kg/m              |
| <b>2</b>                                         | <b>Belt Characteristics</b>                  |                 |  |                   |
| 2.1                                              | Breaking Strength                            |                 |  | N/mm              |
| 2.2                                              | Elongation at Break                          |                 |  | %                 |
| 2.3                                              | Reference Elongation [at 10% Breaking Force] |                 |  | %                 |
| <b>3</b>                                         | <b>Cover Rubber</b>                          |                 |  |                   |
| 3.1                                              | Thickness of Top Cover                       | DIN 22102       |  | -0.3 mm           |
| 3.2                                              | Thickness of Bottom Cover                    | DIN 22102       |  | -0.2 mm           |
| 3.3                                              | Tensile Strength                             | DIN 53504       |  | N/mm <sup>2</sup> |



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|     |                                                         |                   |  |                   |
|-----|---------------------------------------------------------|-------------------|--|-------------------|
| 3.4 | Tensile Strength after 7d/70° C                         |                   |  | N/mm <sup>2</sup> |
| 3.5 | Elongation at Break                                     | DIN 53504         |  | %                 |
| 3.6 | Elongation at Break after 7d/70° C                      |                   |  | %                 |
| 3.6 | Hardness                                                | DIN 53505         |  | ° Shore A         |
| 3.7 | Abrasion                                                | DIN 53516         |  | mm <sup>3</sup>   |
| 3.8 | Density                                                 | DIN 53479         |  | g/cm <sup>3</sup> |
| 3.9 | Ozone Resistance 48h/50pphm                             | DIN 53509         |  | Cracks            |
| 4   | Adhesion (as Received/after Thermal Treatment 7d/70° C) |                   |  |                   |
| 4.1 | Top Cover / Ply                                         | DIN 22102         |  | N/mm              |
| 4.2 | Between the Plies                                       | DIN 22102         |  | N/mm              |
| 4.3 | Bottom Cover / Ply                                      | DIN 22102         |  | N/mm              |
| 5   | Belt Splice                                             | acc. to DIN 22102 |  |                   |
| 5.1 | Number of Steps                                         | DIN 22131         |  | N/mm              |
| 5.2 | Step Length / Splice Length                             |                   |  |                   |
| 5.3 | Surplus per Splice, optional if required                |                   |  |                   |
| 5.4 | Nominal Strength of Splice                              | DIN 22131         |  | N/mm              |
| 6   | Reel Dimension Round reel                               |                   |  |                   |
| 6.1 | Belt Length / Reel                                      |                   |  | m                 |
| 6.2 | Number of Reels                                         |                   |  |                   |
| 6.3 | Gross Weight per Reel                                   |                   |  | t                 |
| 6.4 | Reel Diameter, without/with Side Discs                  |                   |  | mm                |
| 6.5 | Width of Reel                                           |                   |  | mm                |
| 6.6 | Core Diameter                                           |                   |  | mm                |
| 6.7 | Core Hole                                               |                   |  | mm                |
| 7   | Troughability                                           | ISO 703           |  |                   |
| 8   | Operational Temperature                                 |                   |  | ° C               |

### 9.4. Price List

| No. |                                                 | Tag No. | Qty. | UNIT/Qty | PRICE      |             |
|-----|-------------------------------------------------|---------|------|----------|------------|-------------|
|     |                                                 |         |      |          | UNIT PRICE | TOTAL PRICE |
| 1   | Belt                                            | ---     | ---  |          |            |             |
| 2   | Special Tools for Construction and Maintenance  | ---     | ---  |          |            |             |
| 3   | Spare parts for Construction and Commissioning. | ---     | ---  |          |            |             |



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|                     |                                            |     |     |  |  |  |
|---------------------|--------------------------------------------|-----|-----|--|--|--|
| 4                   | Two years Operation & capital spare parts. | --- | --- |  |  |  |
| 5                   | Packing & transportation                   | --- | --- |  |  |  |
| 6                   | Tests                                      | --- | --- |  |  |  |
| 7                   | Supervision services at Site               | --- | --- |  |  |  |
| 8                   | Installation & Erection (as Optional)      | --- | --- |  |  |  |
| 9                   | Another fee (if any)                       | --- | --- |  |  |  |
| <b><u>TOTAL</u></b> |                                            | --- | --- |  |  |  |