



(Previously Known as Mother Dairy, Gandhinagar)

Request for Quotation (RFQ)

AFD: PUR: HSG: Roll storage.

12 June, 2024

To,

Dear Sir,

Sub: **Request for Quotation (RFQ)** for “**DSITC of vertical jumbo roll storage racking system**” as mentioned in annexure.

We invite your most competitive offer for **DSITC of vertical jumbo roll storage racking system** as per detailed specifications. Your offer should be based on following considerations:

- 1.The offer should reach:-AmulFed Dairy (Previously known as Mother Dairy-A Unit Of GCMMF Ltd) Plot No-35, Nr. Indira Bridge, Ahmedabad - Gandhinagar Highway. Village Bhat, Dist - Gandhinagar. Pin - 382 424. Requirement is for Packaging Film Plant, Sector -25, K-Road, In front of Madhur Dairy, Gandhinagar.
2. Due Date: **June 19, 2024 before 17:00 hours.**
3. The offer should be submitted in portal only. First of all register your firm on shared link.
4. Offer received after due date for whatsoever reason may be rejected.
5. Offer should valid for acceptance for 90 days from date for submission of offer.
6. The price should be quoted with all details.
7. **Specify your tax condition.** Non indication of above levies will mean that prices are inclusive of all taxes and above levies.
8. Realistic and earliest completion period should be indicated in offer.
9. It will not be binding on us to accept the lowest offer.
10. Right to accept/reject any/all offers without assigning reason is reserved by us.
11. Offers which are incomplete or not meeting the conditions are liable for rejection.
12. Payment terms 30 days of successful installation, trial run @ site and 10% PBG valid for 2 years. If the payment term is document through bank, all banking charges shall be borne by the suppliers.
13. **Please find below link to register your firm on Purchase Portal. Without completing registration process on portal can't submit offer.**

First of all register your firm on shared link so can send inquiry through portal only.

Plot No. 35, Nr. Indira Bridge, Ahmedabad-Gandhinagar Highway, Village: Bhat, Dist.:Gandhinagar, PIN 382428

Tel. No. (+91-79) 23969055 – 58, Fax No. (+91-79) 23969059

Website: www.amul.com

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Interested bidders have to register your firm in our Purchase portal.

Website for our portal is as >>>: <http://afdpurchase.amul.in/>

Click Below links for Guidelines :

1. [Guide for VRF - MANUFACTURERS](#)

14. **Eligibility criteria: Must have executed similar type, value of order in last 5 year. Share credentials of the same.**
15. **Once registration process completes, we invite vendor to submit offer. Vendors need to submit technical first only after technical clearance you will be able to submit commercial figures.**

We are an ISO 9001: 2008, ISO 14001:2004 and ISO 22000:2005 company; we follow sustainable eco-friendly processes in our organization and expect the same to be followed at your end. We emphasis on energy efficient system and utilization of renewable energy systems in eco friendly and sustainable way.

Note: If required please visit premises with prior confirmation before quote. Please arrange visit between 2:00 P.M. to 5:00 P.M. in working day.

: We may go for reverse auction/negotiation. If required we may ask for PBG.

Mail id as mentioned below.

Shri Hardik Gajjar : hardik.gajjar@amul.coop

Shri Bharat Naik : bharat.naik@amul.coop

Shri Urmil Sorathiya : urmil@amul.coop

Shri Ajit Rana : ajit.rana@amul.coop

Yours Faithfully,

For AmulFed Dairy,

Purchase Depart.

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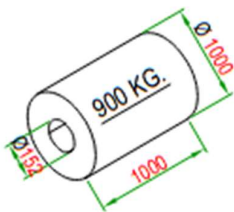
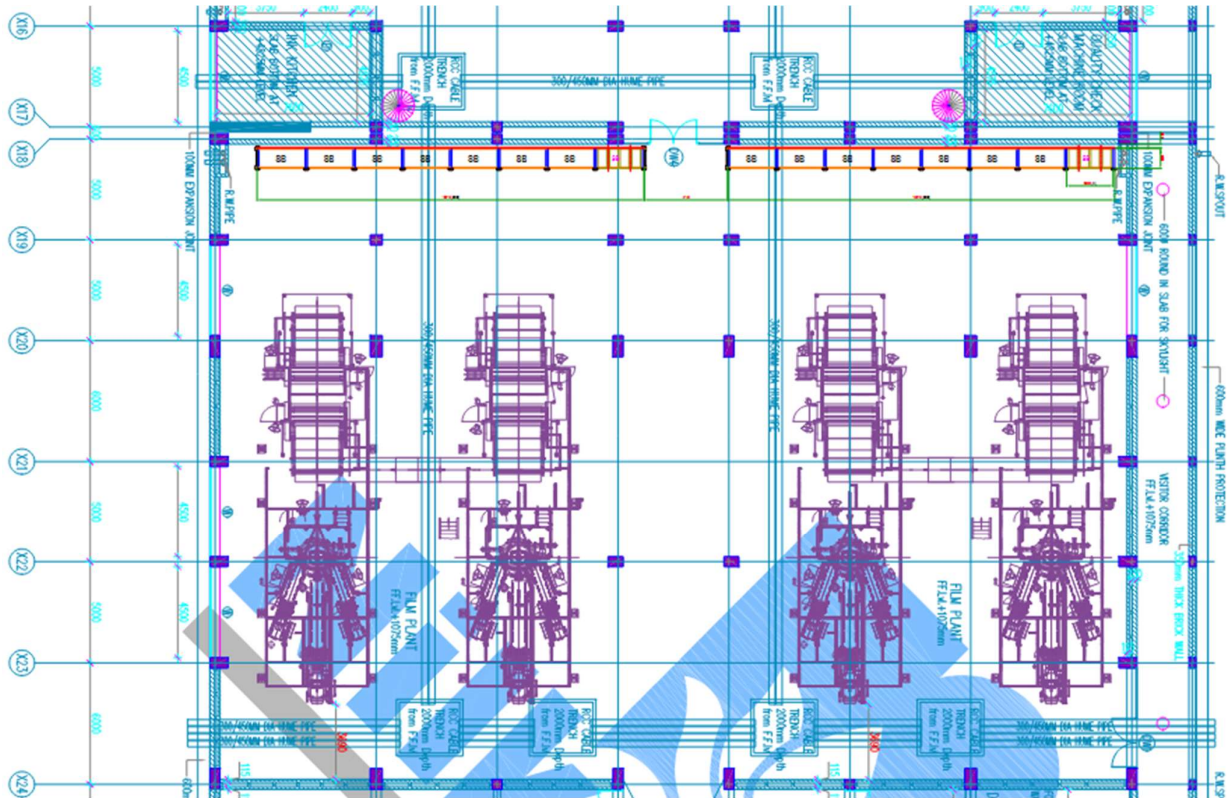
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Vertical jumbo roll storage efficiently store large quantities of similar loads by allowing the forklift driver to load on the pallet rail. Drive-In systems load and retrieve from the same side inventory retrieval organization.



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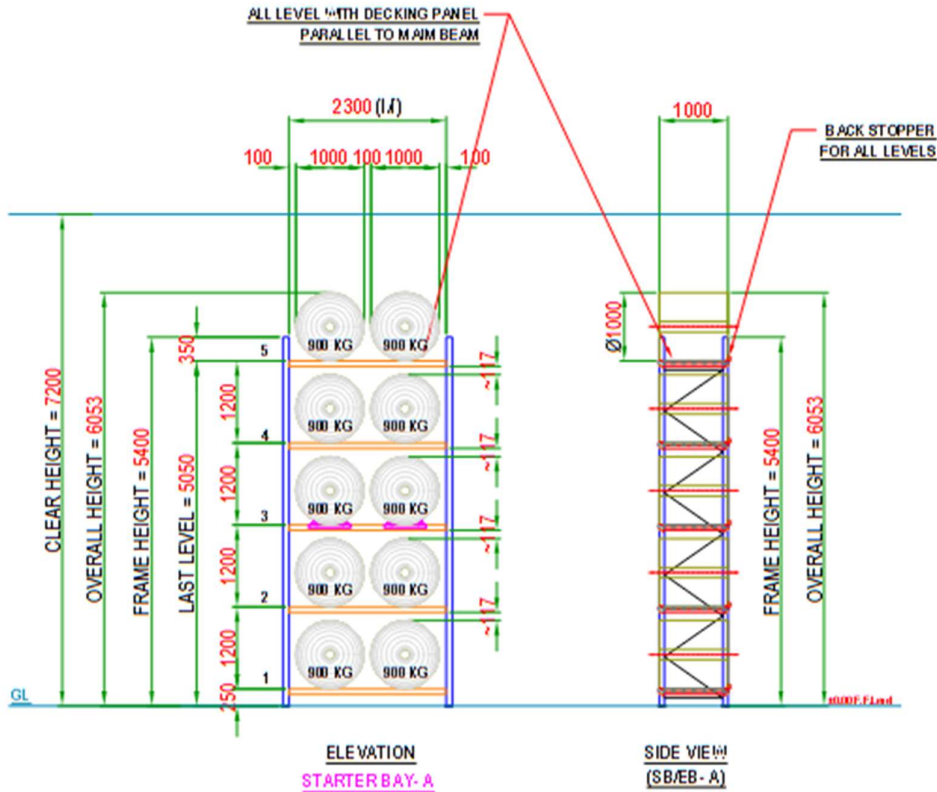
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Heavy Duty Pallet Rack Driving System

: G + 4 LEVEL

Storage Area Size

: Approx. 5400 Upright X 2300 Beam X 1000

Depth mm - 2 sides

MS Pallet Size

: Site situation to hold

MS Pallet Weight

: Suitable to roll lifting

Load on Pallets

: Approx. 1800 Kg

Pallets Storage Capacity

: Approx. 140 Nos.

Note : Please visit premises before quote to exactly understand our requirement.

List is exhaustive, may vary as per site situation/requirement.

Scope includes material supply + Installation.

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Storage Rack Requirements.

<i>Material to be Stored</i>	<i>: Plastic Film Rolls</i>
<i>Size of Roll</i>	<i>: Maximum Dia 1 Meter * Width 1 Meter</i>
<i>Core</i>	<i>: MS core of Dia 6 “.</i>
<i>Weight of each Rolls</i>	<i>: Maximum 900 Kg.</i>
<i>Approx. size of Rack</i>	<i>: Width 2300 * Height 5400 * Depth 1000 mm.</i>
<i>Storage Level</i>	<i>: 5 Levels. * 2 Roll in each Rack.</i>
<i>Individual Rack Height : 1200 mm.</i>	
<i>Rack positions.</i>	<i>: 8 Rack + 6 Rack in Blown Film Plant Section.</i>
<i>Min Height from Floor : 250 mm</i>	
<i>Level Load</i>	<i>: 1800 Kg Minimum</i>
<i>Bay Load</i>	<i>: 9000 Kg Minimum.</i>

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Design : We are using following standards, as applicable for design of its pallet racking system.

IS 801: 1975 - Code of practice for use of cold formed light gauge steel structural members in general building construction.

IS800:1884/2007-

Codeofpracticeforgeneralconstructioninsteel

BS:5950(V):1998-

Buildingdesignusingcoldformedsteelsections FEM 10.2.02 -

Code of practice for design of steel pallet racking

FEM10.3.01-Adjustable beam pallet racking, tolerances, deformations and

clearances EN: 15512: 2009 - Steel static storage systems - Adjustable pallet

racking

Serviceability and stability criteria for pallet racking are as per SEMA (U.K) guidelines and F.E.M 10.2.02 (Europe) guidelines as applicable

Raw Material : Load bearing members of the system are made out of High strength HR steel having properties equivalent to grades specified by IS 5986:2002 / IS 2062:2006

The different types of material used for Load bearing members such as Uprights and Beams are:

Steel Type	Minimum guaranteed Yield Strength	Equivalent International Standard
Equivalent to IS: 5986 / ISH430LA (or) IS:2062 / E 350	355 MPa	JIS 3101: SS 490 EN 10025 : S 355 JR DIN 17100 : St 52
Equivalent to IS: 5986 / ISH410S (or) IS:2062 / E 250	255 MPa	JIS 3101: SS 400 EN 10025 : S 235 JR DIN 17100 : St 42

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	255 MPa	ASTM A253
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In addition to high strength, the raw material used for structural load bearing members also possesses adequate ductility to ensure toughness. The material also has the necessary impact strength for cold room applications up to -30 deg C.

Fasteners : Fasteners (Except Anchor Bolt) of Grade 8.8 are used for bolting uprights with base plates and bracings. These fasteners are of a galvanized finish to suit industrial atmosphere.

Surface Finish : All components are given a thorough anti-rust treatment to prevent corrosion, thereby increasing the life of the component. Steel components are powder coated for obtaining a smooth, scratch resistant and a lasting attractive, finish. The Dry Film Thickness (DFT) of 65-70 microns is achieved on an average after Powder coating.

All components are subjected to an elaborate 4 step, six zone anti corrosion treatment, viz. De-greasing as per IS 6005:1970, Rinsing, Phospating as per IS 3618:1966 and RO water rinsing.

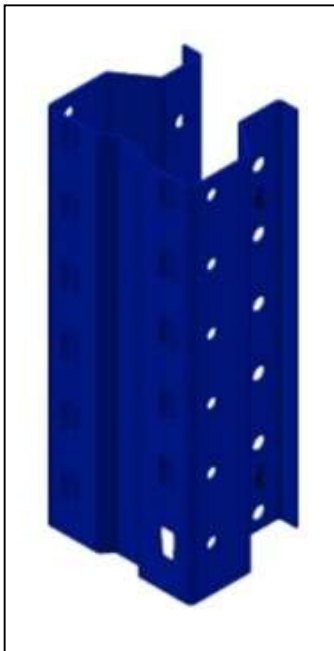
Furthermore, the testing of paint for various physical and chemical properties is done as per ASTM Standard.

Assembly and Installations : The drive-in system is of complete knock down construction. The racks are grouted on the floor using Expansion bolts. No welding will be carried out at site.

Racking component specification :

Upright : Upright is a roll formed construction made in single piece without welding. Upright has slots at 50mm. It enables the warehouse manager to utilize the rack optimally to suit the changing SKU sizes.

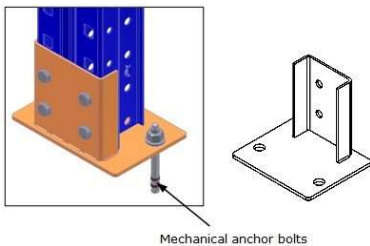
Uprights are multi bend profiles, designed to offer maximum load bearing capacity with optimum surface utilization ensuring high standards of stability and safety. Uprights are bolted with Base Plates to transfer the load to ground.



Upright type	
Profile	Omega
Profile width	110mm
Profile depth	75mm
Number of bend	12
Beam adjustability	50mm
Material Quality	Min Ys= 355 Mpa
Mfg process	Roll forming
Finish	Powder coated/Galvanized
Colour	Oxford Blue

The manufacturing process of punching and forming is in one flow and a synchronized operation, thereby providing dimensional accuracy and contour uniformity consistently.

Base Plate : It is welded construction bolted to upright. They are anchored to ground using M12 x 100 Torque type mechanical anchor bolts. Floor level variation shall be adjusted with shims.



Width	180 mm
Depth	125 mm
No of grouting bolts	2/4 nos. of FWA M12x100 bolts
No of fasteners to connect Upright	4 nos. of M10x25 Hex bolts, M10 Hex nuts and M10 plain washers
Connectivity	Grouting

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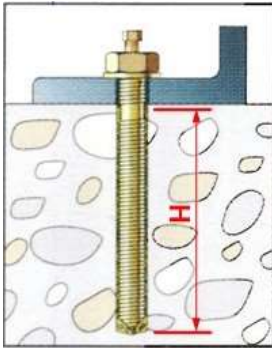
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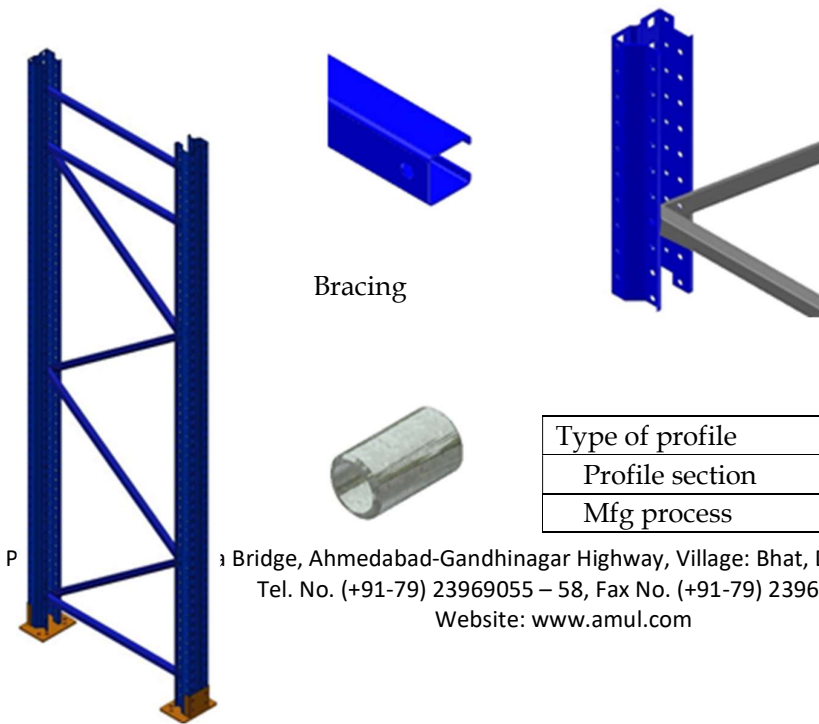
Mfg Process	Welding & press forming
Finish	Powder coated
Colour	Orange

Anchor Fasteners :



Material	Carbon steel
Grade	5.8
Finish	Galvanized
Diameter	M12
Anchor depth	100mm
Minimum Drill Depth	125mm
Grade of Concrete	M20 (Minimum)

Bracing : Diagonal and horizontal bracings are lipped channel sections. These are used to connect uprights to make frames. These bracing channels are also made through roll forming technology.



Type of profile	Lipped channel
Profile section	30 x 30 x 6mm
Mfg process	Roll forming

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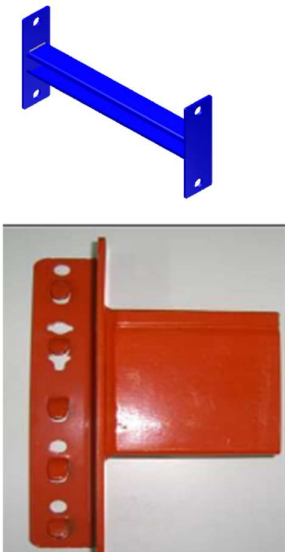
Bracing spacer	No of bend	4nos
	Connectivity	Bolted
	No of fasteners	2 no of M10x75/M10x80
	Surface finish	Galvanized
	Colour	Oxford Blue

Bracing cleat : Bracing cleat is used to connect the horizontal bracing directly to the upright front face. In this case we can avoid the no. of frames.



Type of profile	Channel
Mfg process	Welding & press forming
No of bend	2nos
Connectivity	Bolted
No of fasteners	4nos. of M10 x 25 Hex Bolts, M10 Hex Nuts and M10 plain washers Each.
Surface finish	Powder coated
Colour	Oxford Blue

Gap bracing channel : Row connectors are to connect back to back frames. They ensure the stability of the system.



Type of profile	Lipped channel with Rectangular plates at end.
Profile section	30x30x6mm
No of bend	4nos
Mfg process	Roll forming & Welded
Connectivity	Bolted
Fasteners	4 nos. of M10x25 Hex bolts, M10 Hex nuts and M10 Plain washers each
Surface Finish	Powder coated
	Oxford Blue/Red

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Colour

Support bracket : Support Bracket is a formed section transferring load from the pallet rail to the upright. The bracket is hooked onto the upright in 2 slots and bolted at one location. The lanced portion prevents rotation of the arm and a small lance prevents the uplift of the arm due to pallet hits.

Height	To match with our requirement
No of Bend	To match with our requirement
Connectivity	Bolting & Hooking
Fasteners	Site situation
Mfg process	Press forming
Surface Finish	Powder Coated
Colour	Oxford Blue

Pallet Rail : Pallet Rail is a formed section, capable to take pallet load. The plain surface of 84mm width provides larger seating area for the pallet. The inclined face of the pallet rail will help the MHE operator to position the pallet easily within the specified width and to place the pallet exactly on the resting surface.

Over all Height	125mm
Guide surface Height(H)	To match with our requirement
Resting surface	To match with our requirement
Mfg process	Press forming
No of Bend	To match with our requirement
Connectivity	Bolted
	To match with our requirement
Fasteners	
Colour	Galvanized

Pallet rail jointing piece : Joining piece for pallet rail is a formed complex shape used to connect the pallet rails of different lengths in a bay.

Over all Height	To match with our requirement
Mfg process	Press forming
No of Bend	To match with our requirement
Connectivity	Bolted
Fasteners	4 no. each of M10x25 Hex Bolt, M10 Hex nut and M10 Plain washer & 4 no. each of M8x20 Hex Bolt, M8 Hex nut and M8 Plain washer at each joining location
Colour	Galvanized

Top stability beam assembly : Top Stability Beam is a HEM beam having 2 nos. 3 -hole lip connector welded to it at the ends and 2 nos. of plates that are welded on the top face of the beam. These beams are fixed to the top of each frame, bolted to the uprights via the lip connectors ensuring system stability by integrating each bay as a single block. The horizontal plates welded to the beam are used to connect the top bracings.

Since the beams are bolted to the upright it ensures that beams are engaged with the uprights precisely and prevent any accidental beam dislodgement due to handling equipments.



Type of Profile	Rectangle
Usage	Stability
Height	100
Width	50
Beam Length	Depends on bay width
No of Lip connector	3
Mfg process	Role Forming & Welding
No of Bend	4
Connectivity	Bolted
Fasteners	6 no of M10x25 Hex bolts, M10 Hex nuts and M10 Plain washer
Surface Finish	Powder Coated

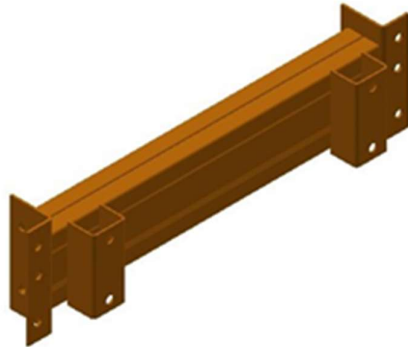
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Colour

Orange

Rear stability beam : Rear Stability Beam is a HEM beam having 2 nos. 3 -hole lip connector welded to it at the ends and 2 nos. of channels that are welded on the front face of the beam. These beams are fixed at the rear of each frame, bolted to the uprights via the lip connectors ensuring system stability. The channels welded to the beam are used to connect the rear bracings.

Since the beams are bolted to the upright it ensures that beams are engaged with the uprights precisely and prevent any accidental beam dislodgement due to handling equipments.



Type of Profile	Rectangle
Height	100
Width	50
Beam Length	Depends on bay width
No of Lip connector	3
Mfg process	Roll Forming & Welding
No of Bend	4
Connectivity	Bolted
Fasteners	6 nos. of M10x25 Hex bolts,
	M10 Hex nuts and M10 Plain washer
Surface Finish	Powder Coated
Colour	Orange

Top Rear stability beam : Top Rear Stability Beam is a HEM beam having 2 nos. 3 -hole lip connector welded to it at the ends, 2 nos. of channels that are welded on the front face of the beam and 2 nos. of top plates welded onto the top face of the beam. These beams are fixed at the top rear end of each frame, bolted to the uprights via the lip connectors ensuring system stability. The channels welded to the beam are used to connect the rear bracings and the top plates for the rear bracings.

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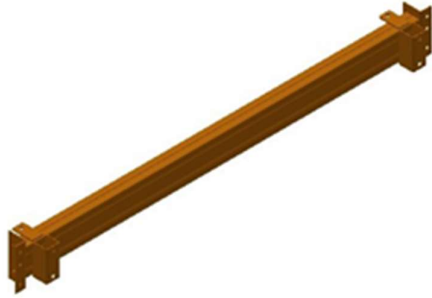
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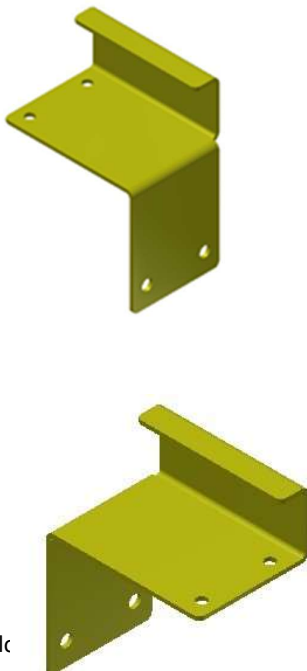
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Since the beams are bolted to the upright it ensures that beams are engaged with the uprights precisely and prevent any accidental beam dislodgement due to handling equipments.



Type of Profile	Rectangle
Height	100
Width	50
Beam Length	Depends on bay width
No of Lip connector	3
Mfg process	Roll Forming & Welding
No of Bend	4
Connectivity	Bolted
Fasteners	Suitable for application
Surface Finish	Powder Coated
Colour	Orange

Pallet Stopper : A unique stopper added at every level in the rear end acts as a back stopper preventing a pallet over-travel from frame end. This should be provided at all levels.



Type of profile	Formed
Profile section	Suitable for application
No of Bend	Suitable for application
Height	Suitable for application
Connectivity	Bolted
Fasteners	Suitable for application
Surface Finish	Powder coated

Plc

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Colour	Yellow
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Safety signage : These signages are for the safety of warehouse personnel and longer life of the storage system. Quantity of signages will be based on the layout.

Size	600x800
Thickness	5mm
Connectivity	Bolted
Quality	Photo print

Upright protector : Upright protectors are fixed in front of all aisle facing uprights. This is to avoid any accidental direct hit on bottom of racks by MHE while handling pallets.



Height	500mm
Connectivity	Clipping
Colour	Yellow



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Fabrication Guidelines

1. All the basic raw materials must conform to BIS / BS / DIN standard or as specified on drawings, wherever applicable.
2. Material should be of TATa/Jindal make.
3. MOC shall be as specified in the approved fabrication drawings.
4. AFD is free to inspect the materials visually. Raw materials shall be tested from Government approved / recognized institute or laboratory. The Chemical and physical test report shall be submitted to AFD. However, in case due to shorter delivery period, fabrication shall be taken on priority basis and will not wait for approval, if the purchased materials are from reliable sources.
5. Fabrication work shall be carried out by skilled fitters / welders. Only approved welders shall be employed for this job.
6. MS sheets cutting shall be through shearing machine, however, higher thickness plates that cannot be managed through shearing machine; PUG gas cutting and profile cutting with laser can be adopted.
7. All the holes shall be drilled/ punched/ core cut. Slots shall be punched / milled. Under any circumstances holes / slots shall be not gas cut without prior approval.
8. Debarring tools shall be used for holes and slots to remove the burrs from both sides if required.
9. All the sharp corners and edges shall be removed, chamfered and smoothed.
10. Welding electrodes shall be of ADVANI / Sun Arc / ESAB/equivalent reputed make. Welding rods shall be pre- heated in the oven / heating jackets to maintain the temperature as per manufactures' standards. Please get AFD approval for make of welding filler wire to be used.
11. Only automatic SAC (submerged arc welding), MIG (Metal Inert Gas) with CO2 welding is acceptable.
12. Welding rectifier, Plasma cutting, Gas cutting, Gas torch etc must be in excellent condition.
13. Mechanical handling facilities preferably shall be used during lifting / assembly of the components to the extent possible.
14. Please arrange required jigs and fixture, wherever applicable.
15. Dimensional tolerances and critical functions / interface dimensions shall be maintained.
16. Please maintain straightness of all parts after fabrication.
17. Please maintain the thickness of weld deposit.
18. The welding shall be smooth in horizontal and vertical run and shall not spoil the parent materials.
19. All precautions shall be taken to avoid deformation / buckling / twist during fabrication or welding.
20. Grinder shall not be used on welded surface except for surface of mating parts.

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21. Internal inspection report shall be submitted to AFD for each lot of materials. Please check each component dimensionally after fabrication. Please follow AFD's standard/ approved format of inspection to maintain the record (format attached).
22. Please provide physical dimensional checking instruments during inspection.
23. Please carry out the modification / rectification as per the instruction of inspector.
24. All the drawings of AFD shall be returned after completion of the job.
25. Please submit chemical and physical test report for basic raw materials.
26. Respective BIS standard code for design and fabrication of steel structures shall be strictly followed.
27. Good engineering practice and Good Manufacturing Practice should be followed to have high quality workmanship
28. Approval of WPS and PQR as per ASME/ BIS is must.
29. All materials should have manufacturers' test report. It should also be got tested from independent test laboratory, stamped and marked for identification.
30. Third party inspection as well as inspection by the purchaser shall be there besides all other statutory authorities.
31. All works shall be carried out as per the instruction of the Project-in-Charge.

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On Letter Head of Vendor / Customer.

To,
General Manager
AmulFed Dairy (A Unit of GCMMF Ltd.)
Village:- Bhat,
Near Indira Bridge,
Gandhinagar-382 428

Dear Sir,

Sub : Fund Transfer Payments.

I/we request and authorise you to effect Fund Transfer Payment to my / our Bank account as per the details given below (Please map our account in your SAP):

Vendor Name:- : _____
Vendor Code : _____
Bank Account Name : _____
Bank Account Number : _____
Branch Name & Address of Bank: _____

Email Id : _____
Permanent A/c Number (PAN) : _____
Name of the Auth signatory : _____
Contact Person : _____
Contact Number : _____
IFSC code : _____
MICR Code : _____
Type of Account : Savings / Current / Cash Credit

I, hereby declare that the particulars given above are correct. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I hereby authorise Bank (as mentioned above) to credit my above mentioned account with the amount of instalment and I agree to discharge the responsibility expected of me as a participant under the scheme.

Date: _____

Signature of Account Holder (s)

- Mandatory fields -cannot be left blank.
 - Kindly attach a blank cancelled cheque with this mandate form.

Bankers Attestion -

CERTIFIED THAT THE PARTICULARS FURNISHED ABOVE ARE CORRECT AS PER OUR RECORDS.

BANK STAMP

DATE : _____

SIGNATUR E OF BANK OFFICIAL

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