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Tender No: NHM/PROC/DDWH/Racking/3089/2016-17/709

CORRIGENDUM No.1

Date:11/04/2017

e-TENDER FOR ENTERING INTO RATE CONTRACT FOR SUPPLY AND INSTALLATION OF TWO TIER HEAVY DUTY STORAGE RACKING SYSTEM

This has reference to the e-tender No: NHM Tender No: NHM/PROC/DDWH/Racking/3089/2016-17/ 22243 Date: 18/03/2017 for entering into rate contract for "Supply and installation of Two Tier Heavy Duty Racking System". The following clarification may be taken note of prior to submission of Bids:

1. <u>Sub-clause A under Clause No.12: "ACCEPTANCE OF TENDER" is clarified to read as follows:</u>

A. <u>Tender Evaluation</u>

Tenders will be evaluated with reference to technical and commercial parameters to determine the technically qualified bidders.

Price Bids of technically qualified bidders will be evaluated with reference to the quoted rates (landed price of each item). Conditional discounts shall not be taken into account for price comparison. Basic Price quoted by a bidder will be taken into account for calculating the Lowest price.

2. <u>Annexure XII "Technical cum Compliance Specification Sheet" is clarified to read as</u> follows:

ANNEXURE XII (Revised)

Technical cum Compliance Specification Sheet: (TO BE SUBMITTED BY THE MANUFACTURER) Item: Two Tier Heavy Duty Storage Racking System.

Sr. no.	Feature		e	Details	Technical Specification quoted by bidder	Deviation (if any)
1	Purpose System:	of	Racking	It is a manual picking shelving system suitable for storing medium to heavy loads i.e. the goods which are easily handled & lifted by man are stored in these systems.		

Technical	RAW MATERIALS-	
Specification/Construction:	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	
	In addition to high strength, the raw material used for structural load bearing members must possess adequate ductility, to ensure toughness. The material should have the necessary impact strength for cold room applications up to -30 deg C.	
	FASTENERS-	
	All bolts and nuts to be in rust Free condition, so nuts and bolts should be galvanized	
	SURFACE FINISH-	
	For long life and protection from corrosion, All Powder coated components are given a thorough anti-rust treatment. The dry film thickness (DFT) after powder coating would be on an average 35 microns.	
	All powder coated 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.	
	ASSEMBLY & INSTALLATION-	
	Shelving components specifications-	
	The shelving system is completely knock down construction. The racks are grouted on the floor using expansion bolts. No welding will be carried out at site.	

carried out at site .

UPRIGHTS-

Upright should be roll formed which is made in single piece without welding. Upright should have slots at 50 mm to enables its optimum usages .

Uprights should be designed to offer maximum load bearing capacity with optimum surface utilization ensuring high standards of stability and safety. Uprights should be bolted with base plates to transfer the load to ground.

to transfer the load to ground.			
Uprighttype	GL		
Profile	"T" profile		
Profile w idth	55mm		
Profiledepth	45mm		
Numberofbend	6nos		
Beamadjustability	50mm		
M aterial Quality	Min Ys= 355		
	Мра		
™ fg process	Roll forming		
Finish	Powder		
	coated		
Colour	Oxford Blue		
	"T" profile		

BASE PLATE-

It is a formed construction bolted to upright. They should anchored to ground using M8x75 torque type mechanical anchor bolts. Floor level variation shall be adjusted with shims.

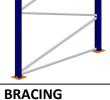
Width	100mm
Depth	100mm

_			
Connectivity			
No of exp bolt			of
	M8	X75	
f	1	no	of
)	M8	3X20	
	Pre	ss form	ing
	Pov	wder	
	coa	ated	
	Ora	ange	
	f	2 M8 f 1 M8 Pre	M8X75 f 1 no

BRACING-

These are to connect uprights to make frames.

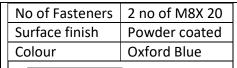
Type of profile	Lipped Channel
Profile section	20X25X6 mm
Mfg process	Roll forming
No of bend	4 nos
Connectivity	Bolted
No of fasteners	2 no of M6X30
Surface finish	Galvanized
Colour	Galvanized



BRACING CLEAT-

Bracing cleat should be used to connect the horizontal bracing directly to the upright front face to avoid the no. of frames

Type of profile	Channel
Mfg Process	Welding
No of bend	4 nos
Fixity	Bolted



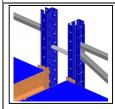


BRACING CLEAT

ROW CONNECTORS-

Row connectors which are to be connected back to back frames

Type of profile	Pipe	
Dia	17mm	
Material	2mm	
thickness		
Connectivity	Bolted	
Fasteners	1 no	of
	M8X75/125	
Surface finish	Galvanized	
Colour	Oxford Blue	





ROW CONNECTORS

BEAM-GZ

Beams are of horizontal members connecting two frames that support the decking panels. Beam locks by locking pins or locking clips that ensure beams are engaged with uprights precisely and prevent any accidental beam dislodgement due to handling.

Type of profile	"Z" Profile
Usage	For supporting
	decking panel
Height	95 cm
Width	30 mm
Type of lip	3 Lip
connector	
Mfg process	Roll forming &
	welding
No of bend	8 nos
Locking	L shape locking
mechanism	pin/Clips
Dia of locking	Dia 6 mm
pin	
Tie bracket	Yes
No of the	One
bracket/level	
Surface finish	Powder coated
Colour	Orange



BEAM-GZ

BEAM-GHEMLS

Type of profile	Hem Profile
Usage	For supporting
	decking panel
Height	100 cm
Width	50 mm
Type of lip	3 Lip
connector	
Mfg process	Roll forming &
	welding
No of bend	8 nos
Locking	L shape locking
mechanism	pin/Clips
Dia of locking	Dia 6 mm
pin	
Tie bracket	Yes
No of the	One
bracket/level	
Surface finish	Powder coated



BEND DECKING PANEL-HD

Bend decking panels should have 6 bends. Both ends of the panel should have notches facilitating the seating of panel on the beam.

Width	200 mm	
Height	40 mm	
No of Bend	6 nos	
Sharp Edges	No sharp edges in loading side	
Mfg process	Press formed/Roll forming	
Gap between Panel	0mm	
Connectivity	Interconnected	
Fasteners	Panel	
	connector	
Surface finish	Powder coated/Galvani zed	
Colour	Oxford Blue	
BEND DECKING PANEL-HD		
DEIND DECKING PANEL-HD		

PANEL CONNECTORS

It is the plastic connector used to inter-connect two panels without gap. It should be self-locking type.

Material	Plastic
Usage	Interconnectin
	g Panel
Qty per panel	2 nos
Length	32 mm
Colour	Black

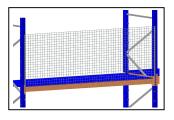


PANEL CONNECTORS

REAR MESH CLADDING:

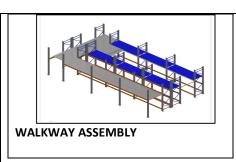
These mesh cladding prevent the fall of small item in the free space behind the unit. The general arrangement is as follows:

Type of profile	Mesh
Mesh size	50x50 mm
Dia	4mm
Constructi	Strips on
on	either side
Mfg process	Welding
Fixity	Bolted to
	upright
Fasteners	M8X30
Surface finish	Powder
	coated
Colour	Oxford Blue



WALKWAY ASSEMBLY-

Walkway assembly facilitates man and hand pallet truck (HPT) or Trolley movement.

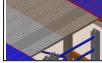


Walkway Panel-Hole -

Walkway panel are designed to offer maximum load bearing capacity with high standards of stability and safety. Height of panel should be 45mm & it has side slots for inter-bolting and slots at lips for bolting to the walkway beam.

Steel	
200mm	
Hole	
Roll forming	
Channel	
member /Joist	
tube	
2Nos / Panel	
Max. 1500mm	
Inter Bolting at	
500mm pitch	
M8x30 Hex	
bolt &Nut	
300 to 600	
Kg/m ² UDL	
100 to 600 kg	
Galvanized (
275 GSM)	
Oxford Blue	





WALKWAY GAP PANEL:

Walkway gap panel is manufactured by bending operation. It is provided to fill the gap between walkway panels in an Aisle. It is generally installed at the end of the Aisle/junction of Picking or Cross Aisle. Height of the panel is 47mm & it has slots for bolting with the walkway panel.

Height	47
Mfgprocess	Punching &
Noofbends	2
Connectivity	Bolting
Surfacefinish	Galvanized(275GS M)
Colour	Galvanized

PANEL FIXING CLAMP

Panel fixing clamp connects picking aisle channel/frame channel and walkway panel by bolting the clamp with the walkway panel and it should be provided at any one lip of panel.



PANEL FIXING CLAMP

Support Bracket-Hook

Hook bracket is connected with picking Aisle channel by two lances provided on the bracket and M8 bolting at the bottom to avoid dislodging of bracket from Picking

Aisle channel which is Supported by walkway level Unit beam at predefined pitch.

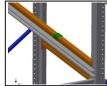
Profile Height	108X90			
Flange Length	50			
Lip Height	25			
Mfg Process	Lacing,			
	Piercing,			
	Bending			
No of bends	3			
Connectivity	Hooking,			
	Bolting			
Surface Finish	Galvanized			
Colour	Galvanized			
Support Bracket-Hook				

Picking Aisle Channel-

Picking Aisle channel is Hooked to the support bracket, through the slot provided at its face and bolting at the bottom.

Section	Channel
Profile Height	60
Flange Length	50mm
Lip Height	25mm
Mfg Process	Piercing,
	Bending
No of bends	4
Connectivity	Hooking,
	Bolting
Surface Finish	Galvanized
	(120 GSM)
Colour	Galvanized





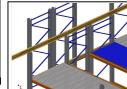
Picking Aisle Channel

Frame Channel-

Frame channel has 'C' lipped section with series of slots at 50mm pitch and standard length of 2425mm. This channel is bolted to the upright side holes in cross Aisle/Overhang cross Aisle.

Section	Channel
Profile Height	110mm
Thickness	1.6 mm
Mfg Process	Piercing,
	Bending
No of bends	4
Connectivity	Bolting
Surface Finish	Powder
	coating/Galvani
	zed (120 GSM)
Colour	Galvanized





Frame Channel

Packing Aisle Support bracket hole-

These Holes brackets are bolted with both sides of panel support beam - type1.

Supported by unit beam at picking Aisles/overhang Picking Aisles.

Profile Height	153
----------------	-----

Flange length	62	
Mfg Process	Piercing,	
	Bending	
No of bends	2	
Connectivity	Bolting	
Surface Finish	Galvanized	
Colour	Galvanized	

Frame Channel Splice-

It should be connected by M8bolts-12 nos. Channel splice is "L" type lipped profile.

Section	Channel	
Mfg Process	Piercing,	
	Bending	
No of bends	2	
Connectivity	Bolting	
Surface Finish	Galvanized	
	(120 GSM)	
Colour	Galvanized	

Other catwalk components & safety members-

Railing-It is the ERW pipe provided in

Overhang catwalks and end of the working aisle for safe walking. It is provided as three rows said to be a hand rail and knee rails.

Railing pipe should be bolted to the upright by railing clamp and open ends of the rails are blocked by Railing Cap. Up-to 6 meter length single pipe should be provided, beyond that joining should be provided. The dimensional position is shown below.

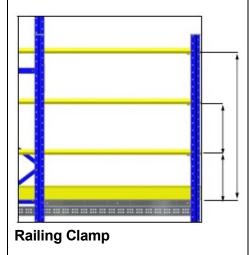
Size of railing pipe — Dia 38
Height of rail-1200mm
Connecting members-Railing clamp
Surface finish-Powder coated
Colour-Yellow



Railing Pipe

Railing clamp-

It is for fixing Railing pipe with the upright for catwalk safety. The plastic profile of the clamp has a hole for fixing railing pipe and slot on clamp is used to fix with upright.



Railing cap.

It is the end dummy cap provided at opening ends of railing pipe. It is a Plastic cap suitable for dia38 pipe.



Railing Cap

Kick plate-

It is the 'L' section, provided over the catwalk surface on both sides of aisle. This plate prevents the foot slip through the gap between knee rail and catwalk surface while walking. It is fixed using M5x25 self-tapping screw at 500mm pitch.

Material	Steel		
Height	100 mm		
Mfg Process	Press forming		
No of bends	3 nos		
Fastener	M5X25 at		
	every 500mm		
	pitch		
Surface Finish	Powder coated		
Colour	Yellow		

STAIRCASE

Staircase is an independent, in-built unit with multi-tier system for reaching one floor to another floor (or) tier to tier. Specifications are listed below-

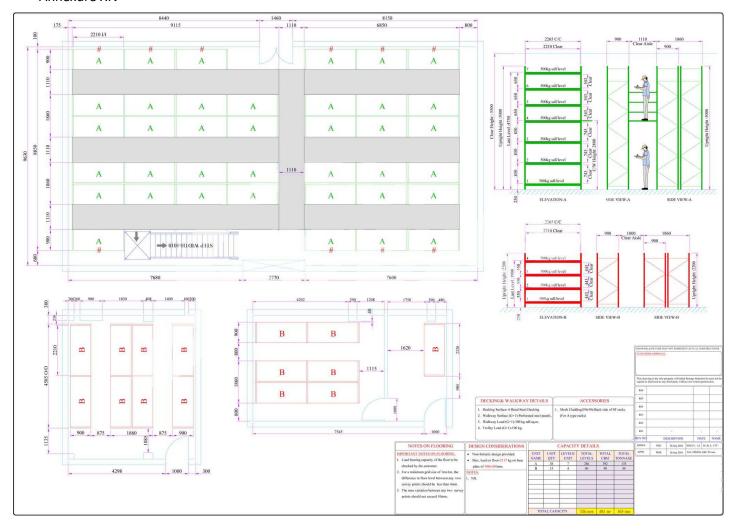
Overall size of Staircase		942(W) (H)	Χ	2400
Inclination		36 deg		
No of tiers		2		

			1	
		Steps	Anti-skid	
			(embossed type)	
		Thickness of	2mm	
		steps		
		Kickplate on	Yes	
		steps		
		Step depth	275mm	
		Clear width	725mm	
		Step to step	190mm	
		height		
		Rail Height	1200mm	
		Colour of Step	Yellow	
		Colour	Yellow	
2	Compositu mor lovel	STAIRCASE E00kg udl		
3	Capacity per level	500kg udl		
Standar	Standards			
4	Quality Certification	CE/BIS/USFDA, certified.	ISO 9001:2008	
5	Warranty	3 years.		

A consolidated figure of the two tier heavy duty storage racking system is as follows:



Note: The schematic drawing at Annexure XIV attached to this Corrigendum shows the layout and position of racks. It is proposed to install a two-tier racking system in the main storage hall, 16590 mm (L) X 9630 mm (B) only. Prospective bidders are required to quote for the complete racking structure in the main storage Hall only.



All other terms and conditions of the tender referred to above shall remain unchanged. The start and end date of bid submission is extended to 24/04/2017 from 10:00 AM & 02/05/2017 up to 2:00 PM respectively. Bids will be opened on 02/05/2017 at 3:30 PM.

Sd/-Mission Director, NHM, Assam