



Kirby Building Systems & Structures India Pvt Ltd
(formerly known as Kirby Building Systems India Pvt Ltd)

TECHNICAL PROPOSAL

M/s. Teja Innovatives Pvt Ltd.,

Company : M/s. Teja Innovatives Pvt Ltd.,
Address : Tirupathi, AP.
Phone :
Email :
Attention : Mr. Devarajulu.

Subject (Project): Works contract for construction of Pre-Engineered Steel Building - SAC- 9954 (ii) – at EMC-2, Tirupati – AP.

Our Ref. : Inq. No: 46747 R06

Date: 09.11.2022

Dear Sir,

We are pleased to submit our proposal for the design, fabrication, **Construction of Pre-Engineered Steel Building** against your subject enquiry.

Kirby proposal is in accordance with the building's layout, overall dimensions and design loads given in your enquiry. Our scope of work covers the design, fabrication, and **Construction of Pre-Engineered Steel Building** in accordance with the enclosed standards and specifications of Kirby Building Systems, unless otherwise stated.

This proposal is indexed for easy reference and includes scope of contract, building description and design loads/criteria, Kirby standard product specifications and standard conditions of contract.

We trust you will find that our proposal is in line with your requirements and look forward to your valued order.

Sincerely yours,

For: Kirby Building Systems & Structures India Private Limited,

G Rajesh
Engineer – sales
Mob No: 83175 88488

DVL Narasimham
Dy. General Manager – Sales

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1. SCOPE OF WORKS:

1.1) BUILDING: - A

Quantity	BUILDING-A
Building usage	FACTORY
Number of areas	ONE

BASIC BUILDING DESCRIPTION:

1	Frame type	Beam & Column - 1 (BC-1)
2	Width (m)	38.334 M C/C
3	Length (m)	41.988 M C/C
4	Eave height (m)	9.144 M Ridge Ht from FFL
5	Interior column spacing (m)	2 @ 19.167 M
6	Roof slope	1: 10
7	Bay spacing (m)	6 @ 6.998 M.
8	Wind columns spacing (m)	6 @ 6.389 M.
9	Type of end frames	Light End frames
10	Wind bracing	Rod bracing for Roof and walls.
11	Roof cladding	Roof shall be covered with "KIRBY ROOF" 26 Gauge, Bare galvalume high tensile profiled steel panels
12	Wall cladding	Wall shall be covered with "KIRBY WALL" 26 Gauge, Color galvalume high tensile profiled steel panels above block work
13	Openings at front sidewall	3.00 M open for block work & above sheeted
14	Openings at back sidewall	3.00 M open for block work & above sheeted
15	Openings at left end wall	Considered Glazing up to Mezzanine height and above sheeted
16	Openings at right end wall	3.00 M open for block work & above sheeted
17	Curved eaves	Nil
18	Gutters	As per Kirby Standard design
19	Eave trim	As per Kirby Standard design
20	Downspouts	As per Kirby Standard design

CANOPY / FASCIA / LINER / PARTITIONS:

1	Canopy– location / description	4.50 M wide continuos canopy over Framed openings – 2 Nos.
2	Fascia – location / description	NIL
3	Roof Extension	NIL
4	Cage Ladder	01 Nos. to roof accesses.

MEZZANINE:1

1	Mezzanine area	19.167 M(W) X 6.998 M(L)
2	Mezzanine location	As per drawing.
3	Mezzanine clearance	3.50m Clear Ht. (Bottom of Mezzanine Beam)
4	Mezzanine decking	75mm deep deck sheet of 0.60mm thick is considered.
5	Mezzanine staircase: No.	1 No.
6	Mezzanine dead load	125MM thick RCC slab over deck sheet.
7	Mezzanine live load	3.00 Kn/m2.

MEZZANINE:2

1	Mezzanine area	4.50 M(W) X 6.998 M(L)
2	Mezzanine location	As per drawing.
3	Mezzanine clearance	3.50m Clear Ht. (Bottom of Mezzanine Beam)
4	Mezzanine decking	75mm deep deck sheet of 0.60mm thick is considered.
5	Mezzanine staircase: No.	1 No.
6	Mezzanine dead load	125MM thick RCC slab over deck sheet.
7	Mezzanine live load	3.00 Kn/m2.

***Glazing supporting arrangement considered in our scope.**

STANDARD BUILDING ACCESSORIES:

S.No	DESCRIPTION	SIZE	QUANTITY	LOCATION
1	Skylights	1m x 3.305m	16 Nos.	At Roof
2	Turbovents	600mm Throat dia	12 Nos.	At Roof
2	Framed Openings	4.00 (w) x 4.50 (h)	6 Nos.	For Roll up Door – Not by Kirby

INSULATION: BY OTHERS

ITEM	DESCRIPTION	QTY. M ²	THICKNESS	FACING	DENSITY
1	At Roof	NIL			
2	At Walls	NIL			

STEEL WORK FINISH:

ITEM	DESCRIPTION	FINISH
1	Frames, Built-Up / HR sections/Bracings	Red Oxide Primer.
2	Purlins / Girts	Pre – Gal: 180gsm
3	Anchor bolts	Black (unpainted)

DESIGN LOADS:

ITEM	DESCRIPTION	KN/m ²
1	Dead load on Roof	0.10 KN/m ²
2	live load on Roof Frames & Purlins	0.57 KN/m ²
3	Collateral Load	NIL
4	Wind load (KMPH or m/sec)	39 M/Sec

2. APPLICABLE CODES

The buildings included in this proposal are designed in accordance with the following codes:

The buildings included in this proposal are designed in accordance with the following codes:

- AISC Manual of Steel Construction – Allowable Stress Design.
- AISI Cold Formed Steel Design Manual.
- MBMA Low Rise Building Systems Manual.
- The buildings will be manufactured in accordance with the following codes:
- AWS D1.1 Structural Welding Code.
- MBMA Manual for Fabrication Tolerances.

3. EXCLUSIONS (From enquiry documents)

1. Any product or service that is not clearly specified in this proposal.
2. Supply of any kind of Doors & Windows, Rolling Shutters, etc.,
3. No civil works

4. SPECIAL NOTES

1. TWO COATS OF SYNTHETIC ENAMLE PAINT SMOKE GREY WILL BE DONE AT FACTORY OF TOTAL DFT 80 microns OF APPROVED MAKE (ASCIAN/NEROLAC/BERGER/EQUIVALENT) – TOUCH UP AT SITE BY KIBRY BUILDER
2. SUFFICIENT PLACE FOR STACKING OF MATERIAL TO BE PROVIDED NEAR TO SITE, WITH IN 300 METERS RADIUS
3. 3.00 M WIDE PASSAGE WELL COMPACTED FLOOR TO BE PROVIDED ALROUND/INSIDE THE BUILDING FOR THE MOVEMENT OF CRANE/FARANA/HYDRA
4. ANCHOR BOLTS UNLOADING/WELDING/ FIXING & CASTING BY CIVIL BUYER, KIRBY WILL PROVIDE SUPERVISION ONLY
5. SITE ACCOMADATION FOR LABOUR, POWER AND WATER TO BE PROVIDED AT SITE FREE OF COST.
6. WARD AND WATCH OF MATERIAL AT SITE IS IN CLEINT SCOPE

5. APPROVAL DRAWINGS

- Kirby will issue Approval Drawings within **1 week** from date of signing contract/issue of Work Order and receipt of advance payment.
- BUYER must return the accepted approval drawings preferably within 1 week thereafter; otherwise, may result in revision to delivery commitment.

6. DELIVERY

Kirby will ship the materials in **4** weeks from the **latest date of receipt and acceptance** of the following at Kirby Head Office:

- Signed Contract / Work order
- Balance payment either by acceptable Letter of Credit or as specified in contract
- Kirby's approval drawings duly signed and approved
- Purchase Order amendment (If applicable)

The Erection handing over of the project will be 6-8 weeks from the date of commencement of erection and based on the available civil front.

7. CONSIDERATION

A. BUILDING (INCLUDING ACCESSORIES) – ALL AMOUNTS ARE IN RUPEES

S.No.	DESCRIPTION	QTY	Amount – Rs.
1	Basic Supply of Prefabricated Steel Building including freight	ONE	1,13,76,801/-
2	Basic Erection Prefabricated Steel Building		11,65,572/-
3	IGST @ 18%		22,57,627/-
4	GRAND TOTAL		1,48,00,000/-

In Words: Rupees – One Crore Forty-Eight Lakh Rupees Only.

B. TAXES & DUTIES:

The above Contract value is inclusive of SGST 9% and CGST 9% (in case of interstate supply IGST 18%).

Kirby shall issue tax invoices for shipment of goods as per the provisions of GST Act 2017 & GST Invoice Rules 2017.

Before commencement of consignment, Kirby will communicate the invoice details to the BUYER, which in turn BUYER needs to accept the same immediately, by filling the Part-B of e-waybill on GSTN common portal.

In case of introduction of any new levy or change in the existing rates of taxes or cess and during the period of the Contract which results in increase in payment of taxes by Kirby with respect to this supply contract, the BUYER shall reimburse Kirby for such additional amount payable as per actual

Other Levies & Taxes:

Any Cess or levy viz. BOCW Cess (if applicable) needs to be paid by the BUYER directly to the concerned authorities. Any Fees / levy charged at interception of vehicle due to not having statutory details of the BUYER, the same needs to be paid by BUYER.

B. TERMS OF PAYMENT:

Payment shall be as follows

- 1 20 % along with order
- 2 80% by confirmed irrevocable Letter of Credit in which 70% of the total contract value shall be payable at sight upon submission of dispatch documents and 10% of the total contract value shall be payable at 60 days from the last transport document. LC should be in favor of Kirby Building Systems & Structures India Pvt. Limited - Pashamylaram, advised through "ICICI Bank Ltd., ICICI Bank Tower, Level I, 1-11-256, Begumpet, Hyderabad – 500 016". The Letter of Credit should be opened from any of the Nationalized Banks, State Bank of India or their associate banks and shall be available for negotiation upon presentation of dispatch documents to the Bank

Note : The last transport document will be the final scope of supply, which will be after completion of structural erection and the same after the confirmation by "Madhukar Gangadi Ventures Pvt Ltd"

8. SUB CONTRACTING

Kirby shall be entitled at its sole discretion to get the construction works executed by it's sub-contractors provided however, that such sub-contracting shall not affect in any way, Kirby's obligations to ensure that the works are performed as contemplated in this Agreement. Kirby is solely responsible for ensuring the agreed standard of specification in the execution of the project subject to other terms conditions of this contract.

Contractee to issue Necessary Forms like Form-V for statutory compliance to Sub-Contractor.

9. KIRBY STANDARD PRODUCT SPECIFICATIONS

A standard Kirby System is made up of primary members, secondary members, connections, roof sheeting, wall sheeting, sheeting fasteners, sealer, closures, ridge caps, flashing and trim, gutters and downspouts.

A. PRIMARY MEMBERS:

Primary structural framing shall include the transverse rigid frames, lean-to-rafters and columns, canopy rafters, interior columns (beam and column frames), bearing frame rafters and corner columns and end wall wind columns.

B. SECONDARY MEMBERS:

Secondary structural framing shall include the purlins, girts eave struts, wind bracing, flange bracing, base angles, clips and other miscellaneous structural parts.

C. PAINT OF STRUCTURAL MEMBERS:

All structural members shall be cleaned by wire brushing to remove dirt, grease, oil and loose mill scale and given one shop coat of red oxide, air drying, phenol modified alkyd resin primer.

Any additional finish painting is not included in Kirby's scope of work**D. CONNECTIONS:**

- ✓ All field connections shall be bolted (Unless otherwise noted).
- ✓ Primary bolted connections shall be furnished with high strength bolts conforming to the physical specifications of ASTM A325 (or equivalent).
- ✓ Secondary bolted connections shall be furnished with machine bolts conform to the physical specifications of ASTM A307 (or equivalent).

E. PHYSICAL SPECIFICATIONS OF STRUCTURAL MEMBERS:

- ✓ Members fabricated from plate or bar stock shall have flanges and webs joined on one side of the web by a continuous welding process and will conform to the physical specifications of
- ✓ ASTM A570 (Grade 50) or equivalent and having a minimum yield strength of 50,000 P.S.I. (345 MPa).
- ✓ Members fabricated by cold forming process shall conform to the physical specifications of ASTM A570 (Grade 50) or equivalent and having a minimum yield strength of 50,000 P.S.I (345 MPa).
- ✓ Members fabricated from hot rolled structural shapes shall conform to the physical specifications of ASTM A572 (Grade 36) or equivalent and having a minimum yield strength of 36,000 P.S.I. (250 MPa).
- ✓ Rod and angle bracing shall conform to the physical specifications of ASTM A36 (or equivalent) and having a minimum yield strength of 36,000 P.S.I. (250 MPa).
- ✓ Roof and wall cladding shall conform to the physical specifications of ASTM A653 Grade 50 (or equivalent) and having a minimum yield strength of 50,000 P.S.I. (345 MPa).
- ✓ All other miscellaneous secondary members shall have minimum yield strength of 36,000 P.S.I. (250 MPa)

F. ROOF SHEETING (KR)/ WALL SHEETING (KW):

- ✓ Roof and wall panels shall be of 26-gauge thick profiled galvalume or galvalume color coated steel sheeting.
- ✓ In case of pre-painted galvalume panels, the exterior face is pre-painted with 1 mil. thick factory applied polyester paint. The interior face is pre-painted with 0.5 mil thick factory applied polyester paint. Each
- ✓ panel shall provide one-meter coverage and can be shipped in any length up to 10 m. Color of exterior and interior faces shall be white/grey. Other materials, thicknesses and coating are available upon request.
- ✓ The material shall conform to ASTM A792 and the galvalume coating to ASTM- A792 – AZ150. The yield strength of material shall be 550 MPa. In case of KSS type of sheeting the yield strength shall be 300 MPa (minimum).

G. SHEETING FASTENERS:

Standard fasteners shall be No. 14, Type A, self-tapping sheet metal screws with metal and neoprene washers. All screws shall have hexagonal heads, be color coated to match roof and wall sheeting and made of zinc plated steel.

H. SEALER / ROPE SEAL:

This is to be applied at all side laps and end laps of roof panels and around self-flashing windows. Sealer shall be 6 mm wide x 5 mm thick, asbestos fibre filled, pressure sensitive Butyl tape. The sealer shall be non-asphalted, non-shrinking non-drying and non-toxic and shall have superior adhesion to metals, plastics and painted surfaces at temperatures from - 51 deg. `C' to + 104 deg. `C'.

I. CLOSURES / FILLER STRIPS:

Solid or closed cell E.T.P. (Ethylene Polypropylene Terpolymer) closures matching the profile of the panel Shall be installed along the eaves, rake and other locations specified on Kirby drawings.

J. RIDGE CAP:

A formed panel matching the material color, slope and profile of adjoining Kirby Rib roof panels

K. FLASHING AND TRIM:

Flashing and/or trim shall be furnished at the rake, corners, eaves framed openings and wherever necessary to provide weather tightness and finished appearance. Color shall be white for rake and eave flashings and color of wall for corner flashings unless otherwise specified by client from one of Kirby standard range of colors. Material shall be 26 G thick conforming to the physical specifications of ASTM A446 Grade C or equivalent and having minimum yield strength of 40,000 P.S.I. (275 MP).

L. EAVE GUTTERS AND DOWNSPOUTS:

- ✓ Eave gutters shall be box shaped, color coated, and 0.5 mm nominal thickness (26 gauge) galvanized steel.
- ✓ The outside face of the gutter shall be supported with color coated 0.5 mm nominal thickness (26 gauge) galvanized straps to the eave member at a maximum spacing of 1.2 m.
- ✓ Downspouts shall be rectangular shaped, color coated 0.5 mm nominal thickness (26 gauges) galvanized steel. Downspouts shall have a 45-degree elbow at the bottom and shall be supported by attachment to the wall covering at 3.0 m maximum spacing.

M. INSULATION:

The insulation when offered as optional shall be of 50 mm thickness of density 10 kg/m³ with one side aluminum facing, other thickness & density are available and need Kirby H.O confirmation for inclusion.

- N. ANCHOR BOLTS:** These are normally supplied prior to the delivery of Prefabricated Building. Delivery will be made after receipt of Kirby's anchor bolts setting plans (marked "FOR CONSTRUCTION") from our Engineering Department.

8. TERMS & CONDITIONS OF CONTRACT

1. **SCOPE OF AGREEMENT:**

This Agreement is the only Agreement between the. Kirby Building Systems (hereinafter referred to as CONTRACTOR) & CONTRACTEE (who has signed his acceptance on this contract) and the terms which have been expressly stated in this Agreement will only be binding including any amendments mutually agreed upon in writing.

2. **PROPOSAL VALIDITY:**

This proposal is valid for (7) days from the date of this proposal. Any extension of validity must be received in writing from the CONTRACTOR

3. **SPECIFICATION CHANGES:**

CONTRACTOR reserve the right to modify the design of his standard buildings and to substitute material equal to or superior to that originally specified (in order to permit incorporation of changes and improvements, in the continued development of the CONTRACTOR's product).

4. **CANCELLATION:**

Agreement and orders CANNOT be cancelled or modified by CONTRACTEE under any circumstances without CONTRACTEE first reaching an agreement in writing with CONTRACTOR covering all damages. If cancellation or modification is agreed to by CONTRACTOR, CONTRACTEE agrees to promptly pay all reasonable engineering and other expenses incurred by CONTRACTOR in connection with this Agreement and in any case not less than 5 % of the Agreement price in case of cancellation.

5. **TITLE TO THE MATERIALS USED IN WORKS:**

Title to the completed Works shall pass from the CONTRACTOR to the CONTRACTEE upon full payment of the consideration payable by the CONTRACTEE to the CONTRACTOR for the Works as provided for under this Agreement, provided however that ownership to the materials used in the Works shall pass from the Contractor to the Contractee upon incorporation of such materials into the Works.

6. **RELEASE FOR PRODUCTION:**

The CONTRACTOR will release the building for production only on receipt of the approve drawings duly assigned by the CONTRACTEE or after receipt of acceptable financial arrangement, whichever is later. For want of this foregoing, that portion of this order which is not released for production within **THREE** months from the date of Contract / Work Order will be subject to a price increase in accordance with the new current prices posted at the end of the above noted time period.

7. **SHIPMENT:**

That shipment will be made only after receipt of acceptable financial arrangement and subject to clause related to "Delivery" mentioned elsewhere in the contract. For want of the foregoing, that portion of this order which is not shipped within **THREE** months from date of Contract / Work Order will be subject to a price increase in accordance with new current prices posted at the end of the above noted time period unless a longer delivery period is mutually agreed by CONTRACTOR and CONTRACTEE.

8. CHANGE IN SCOPE:

Any change and / or revision to the above stated scope of work MAY lead to a variation in the consideration and the completion period.

9. FORCE MAJURE:

Neither party herein shall be liable for any loss or damage to the other party for the delay in construction or execution of work by CONTRACTOR or where the CONTRACTEE is unable to fulfill its part of the obligations as set-out in this proposal due to circumstances beyond either party's control, such as, as the following but not limited to Covid – 19 pandemic, lockdown war, riots, civil commotion, revolution, government regulations, orders, or acts of any government authority directly or indirectly interfering with or rendering more burdensome the production or delivery of the products, floods, fires, delays due to transporter's strike and any other circumstance or event beyond either party's control.

10. LIABILITY:

CONTRACTOR'S liability is restricted to the scope of this contract only and it will not be responsible for acts of third parties. Consequential losses and third party damages, if any, arising out of the delays or claims by the CONTRACTEE will not be CONTRACTOR'S responsibility.

11. PERMITS:

CONTRACTOR shall not be responsible or liable for the obtaining of permits to erect or install any product.

12. INSPECTION OF PRODUCT:

As agreed, CONTRACTOR will maintain materials & work standard as per agreed specification and during execution of work CONTRACTEE is at liberty to inspect standards maintained by the CONTRACTOR and on noticing any variance shall intimate the CONTRACTOR for compliance of specification clause of this contract.

13. EXCLUSIONS:

CONTRACTOR scope of work does not include any material or labor in connection with foundations, concrete, setting of anchor bolts, grouting under columns or in recess around bottom of wall sheets, electrical installations, plumbing, finished painting, heating, masonry, interior finishing, partitions, glass and glazing or any item not shown in Kirby Approval Drawings, unless specifically mentioned in this Agreement.

14. WARRANTY:

Kirby warrants against failure due to defective material or workmanship for a period of 14 Months from the last date of Shipment. In case of any claim against the above, the CONTRACTEE will inform the CONTRACTOR within 30 days of occurrences of such defects and the CONTRACTOR will decide the appropriate course of action. In case of replacements, CONTRACTOR is obliged to the extent of usage of such materials in the said work.

15. GOVERNING LAWS:

This agreement shall be construed and enforced in accordance with and under the laws of the Government of India. Both parties agree that in case of any difference or dispute arising between the CONTRACTOR and the CONTRACTEE will be resolved by mutual discussions and agreement. However, unresolved issues, if any, will be settled by arbitration as per the Indian Arbitration and Conciliation Act, and the venue / seat of the arbitration will be Hyderabad, Telangana.

16. OWNERSHIP OF EXCESS MATERIAL AT SITE:

All material supplied to site in excess of building requirements shall be the property of Kirby and Kirby reserves the right to ship the same back to its works.

17. Safety :

The Contractee will not be liable for any accidents, incidents or damages to any material, or personnel /employees/sub-contractors or any individual/s working for and under the Contractor during the shipment or execution of the works at site or in the execution of any work related to this proposal /contract. The Contractor shall bear the sole responsibility for all such above events

9. WORKS CONTRACT AGREEMENT

This Contract is entered into on: Day, __ Month: __ Year : __

Between __ as First Party (BUYER), located in __ represented by __ duly authorized to enter into this supply contract.

And

Kirby Building Systems & Structures India Pvt. Ltd., Unit-1, Pashamylaram, Sangareddy District, Telangana as Second Party (SUPPLIER).

Now therefore the parties agree as follows:

Contract scope: The Construction of Kirby Building (s) as described in the contract documents.

Contract documents: The following documents constitute this work contract documents:

- ✓ Kirby Building Systems Proposal Ref.: Inq. No.: 46747 Rev. No. 06, Dated: 09/11/2022 with agreed and initialed amendments (If any).
- ✓ Kirby Building Systems Standard Terms & Conditions of Contract.
- ✓ Kirby Building Systems Standard Product Specifications.

Work contract consideration _____

(Rupees :),

C&F CIF (Jobsite)

In witness hereof, the authorized parties hereto have executed this contract.

For: Kirby Building Systems & Structures India Pvt. Ltd., For: M/s. Teja Innovatives Pvt Ltd
(CONTRACTOR) (CONTRACTEE)

Name: _____

Name: _____

Title: _____

Title: _____

Signature: _____

Signature: _____

Date: _____

Date: _____

CONTRACTOR'S Stamp

CONTRACTEE'S Stamp