

ANDHRA PRADESH EDUCATION & WELFARE
INFRASTRUCTURE DEVELOPMENT CORPORATION



AGREEMENT

Name of the work : Procurement of Dual Desks (3 Seater) Type -V for Government Junior Colleges (Educational Institutions) in Alluri Seetharama Raju, Anakapalli, Manyam, Srikakulam, Visakhapatnam, Vizianagaram, East Godavari, Eluru, Kakinada, Konaseema, West Godavari, Krishna, NTR, Bapatla, Guntur, Palnadu and Prakasam (17) Districts as Package - I in Andhra Pradesh under MANABADI NADU-NEDU Phase-II

Estimate Cost: Rs. 20.22 Crores

Name of the Contractor: M/s Geeken Seating Collection Pvt Ltd.,
26-21-5/b, Majetivari Street, Gandhi Nagar,
Vijayawada – 520003.
e-mail: bharat.kumar@geeken.co.in.

O/o THE MANAGING DIRECTOR,
APEWIDC, Vaddeswaram (V)Tadepally (M), Guntur

Schedule -A

Name of the work: Procurement of Dual Desks (3 Seater) Type -V for Government Junior Colleges (Educational Institutions) in Alluri Seetharama Raju, Anakapalli, Manyam, Srikakulam, Visakhapatnam, Vizianagaram, East Godavari, Eluru, Kakinada, Konaseema, West Godavari, Krishna, NTR, Bapatla, Guntur, Palnadu and Prakasam (17) Districts as Package - I in Andhra Pradesh under MANABADI NADU-NEDU Phase-II.

Sl. No	Quantity in Numbers	Description of Item	Rate / number	Amount in Rs.
1	14043	<p>Supply & Placing Dual Desk (3-seater) Type-V for Junior Colleges (Govt. Educational Institutions) (Multi-Color)</p> <p>The overall dimensions of Dual Desk (3-seater) Type-V will be W 1600 mm x D 930 mm x H 822/800 mm (For table top). The seating bench height shall be 472 mm. The desk shall be manufactured as per the specifications mentioned below:</p> <ol style="list-style-type: none"> 1. Table top shall be made up of 18.0 mm thick plywood (tolerance as per IS 303) of MR Grade OSL (one side shall be laminated, and other side shall have balancer finish). Table top dimensions shall be W 1549.2 mm x D 380.0 mm. Edge towards bench shall be post formed with round edge. The remaining three edges must be sealed with 2mm thick PVC edge banding tape. Edge band must be trimmed on edges and corners. Make of Plywood: Greenply / Century / Kitply. Make of Laminate & balancer: Marino / Greenlam / ASIS / Century. 2. Side frame structure: Made of CRCA press-formed section having two Nos of 50mmx25.4mm Rectangular Pipe sections 1.2mm thick and joined by "C "channel of size 65mmx25.4mmx25.4mm and 1.2mm thickness and MIG Welded to rectangular pipe of 25.4 mm x 50.0 mm x 1.2mm thickness (890mm Bottom length) by using extra stiffeners of C-section made up of 62.60mmx 25mmx25mm & 3.0 mm thickness sheet and 100mm long. Side frame structure top pipe 50mmx25.4mm x1.2mm Rectangular Pipes with 250 mm long (as shown in drawing section-A) covered with CRCA sheet 165mmx134.60mmx1.2mm including top folding, and 105mmx161.20mm x1.2mm including top & bottom folding and 110mm x 137.2mm (average) x 1.2mm including top & bottom folding as per drawing appended. Make for CRCA sheet - ESSAR / TATA / SAIL / JINDAL. Proposed desk should be ROHS certified from INTERTEK / UL. 3. Seat and back rest frame structure: Made of CRCA press formed section having two nos' of 50mm x 25.4mm Rectangular pipe sections 1.20mm thick and joined by C-channel of size 65mm x 25.4mm x 25.4mm and 1.20mm thickness and MIG welded to rectangular pipe of 25.4 mm x 50.0 mm x 1.2mm thickness (890mm Bottom length) by using extra stiffeners of C-section made up of 62.60mmx 25mmx25mm & 3.0 mm thickness sheet and 100mm long. MIG welded to 25.4 mm diameter with 1.2 mm thickness MS pipe at Seat side frame top & Back Rest. Seat, Back 	11761.38	16,51,65,059

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Managing Director
APEWIDC, Vijayawada

Rest & table top are supported by 6 numbers of **stiffeners with MS Tube** of 25.4 mm x 25.4mm 1.2 mm thickness square Pipe section (each of length 1549.20 mm) MIG welded to side frames at relevant locations and Foot rest supported stiffeners (table & seat) of 2 Nos with MS tube of 50mmx 25.4mmx1.20mm thickness square pipe section (each of length 1549.2mm) MIG welded to side frames at relevant locations. Square pipe of size 20.0 mm x 20.0 mm x 1.2 mm thickness & 40mm x20mmx 1.2mm thickness and 100.0 mm long shall be welded to the frame to hold the horizontal supports. The Seat & back rest shall have two vertical partitions with equal space. This partition shall be made up of square MS Pipe having size 25.40 mm x 25.40 mm x 1.2 mm thickness.

Raw materials of MS tubes shall be from ESSAR / TATA / SAIL / JINDAL.

4. MS Rectangular Pipe sections of dimensions 50.0 mm x 25.40 mm x 1.2 mm thickness shall be closed with PPCP (Poly Propylene Copolymer) cap at both the ends. Pipe diameter 25.4 mm x 1.2 mm thickness shall be closed with PPCP cap at back side and under the seat.
5. Upper modesty panel and shelf shall be made of 0.8 mm thick CRCA sheet. The dimensions for upper modesty panel shall be H 175.0 mm x W 1549.20 mm x D 23.0 mm. The dimensions of shelf shall be W 1549.20 mm X D 300.0 mm X H 23.0 mm. The shelf shall have two vertical partitions with equal space. This partition shall be made up of square MS Pipe having size 25.40 mm x 25.40 mm x 1.2 mm thickness. Stiffeners of MS pipe having sizes as 20.0 mm x 20.0 mm x 1.2 mm thickness shall be provided along the length of upper modesty panel and one vertical partition Stiffener of MS pipe having size 20.0 mm x 20.0 mm x 1.20 mm in upper modesty panels. (As shown in drawings). And shelf front fascia of upper modesty panel of desk shall have embossed design. The corners of shelf (projecting towards the seating bench) shall be rounded through corner-forming technology (without welding) to avoid injury in case of accidental impact. The thickness of sheet of shelf shall be 0.80mm. Front face of Upper Modesty panel should have embossed letters of **NADU-NEDU 2022** as shown in drawing.
6. Additional Lower modesty panels having size W 1549.20 mm x H 175.0 mm x D 23.0 mm shall be made up of 0.8 mm thick CRCA sheet with designer square perforations. Stiffeners of MS pipe having size 20.0 mm x 20.0 mm x 1.2 mm thickness shall be provided along the length at the bottom side of lower modesty panels and one vertical partition Stiffener of MS pipe having size 20.0 mm x 20.0 mm x 1.2mm thick in modesty panel. (As shown in drawings)
6. Seat and back rest shall be made of 18mm thick plywood of MR Grade OSL (one side shall be laminated, and other side shall have balancer finish) except back rest. Back rest shall have both sides colour lamination

Technical details of seat and back rest are mentioned below:

- 7.1 Seating bench dimensions shall be W 1600.0 mm X D 300.0 mm: Front side shall be rounded with post forming. Remaining three edges shall be sealed with 2mm thick PVC edge banding tape.
- 7.2 Back-rest dimensions shall be W 1600.0 mm x D 250.0 mm: Upper side shall be rounded with post forming. Remaining three edges shall be sealed with 2mm thick PVC edge banding tape.
- 7.3 Seat and back rest shall be fitted to the frame with MAZAK self-Tapping inserts (Make: ebco/HETTICH) of size M6 x 13mm.
- 7.4 Leg space between top and seat shall be **150mm.**
- 7.5 Bag/bottle hooks shall be made of CRCA sheet. The overall size of hook shall be 135 mmx25.4mmx3mm, (80mm+23mm+32mm) It shall be welded on inner facia of both the vertical press-fitted steel sections.
8. Self-bottom: - Two vertical support stiffeners of 2 numbers with MS tube of size 25.4 mm x 25.4 mm x 1.2 mm thick (as shown in drawing).
9. Seat-bottom: - Two vertical support stiffeners of 2 numbers with MS tube of size 25.4 mm x 25.4 mm x 1.2 mm thick (as shown in drawing).
10. The MIG / Spot welding shall be done as per technical requirement.
11. All metal components shall be powder coated in satin finish with pretreatment process. Powder coating shall be tested and certified on following parameters from NABL Accredited/ Government Laboratory, Valid certificates / test reports to be submitted along with the bid.
- 11.1 Adhesion test: EN ISO 2409 (2 mm).
- 11.2 Impact resistance test: ASTM D 2794 (5/9' ball) on applying 180 kg of impact load.
- 11.3 1000 hrs. humidity test as per ISO 6270.
- 11.4 Salt spray (FOG) test: 1000 hours as per ASTM B 117.
- 11.5 Cross Hatch Adhesion test as per ASTM: D3359.
- 11.6 Conical Mandrel Test as per ASTM: D522.
- 11.7 Scratch Test as per IS:101-1964 by applying 2 kg load.



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Laminate Sheets Makes & Color codes:

Sl . No	Laminat e colour	Make	Shade/ Colour Code	Make	Shade/ Colour code	Mak e	Shade / Colour code
1	Parrot Green	Merino	21143	Green lam	251 SF	ASIS	172
2	Ink Blue	Merino	21032	Green lam	304 SF	ASIS	1027
3	Bubble Gum (pink)	Merino	21114	Green lam	173 SF	ASIS	1111
4	Saffron (orange)	Merino	21024	Green lam	217 SF	ASIS	1150
5	Cardinal Red	Merino	21065	Green lam	203 SF	ASIS	1114

**STRUCTURE POWDER COATING COLOUR-CODE-Ral-9010
(Make: AKZONobel/Nerolac/ Asian/ JOTUN)**

Supply & delivery of finished item including cost and conveyance of all materials, loading, unloading, stacking at Govt. Junior Colleges site and fixing, inclusive of GST and all other Taxes etc., complete as applicable from time to time, and all other incidental charges etc., complete for finished item of work to the Government Junior Colleges in the state of Andhra Pradesh.

The item shall carry a warranty period of 5 (Five) years from the date of supply.

Total Amount including GST

**Rs. 16,51,65,059 (Rupees
Sixteen Crores Fifty One
Lakhs Sixty Five thousand
and Fifty Nine Only)**

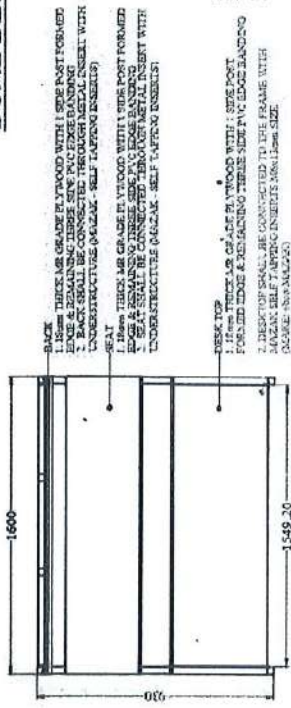


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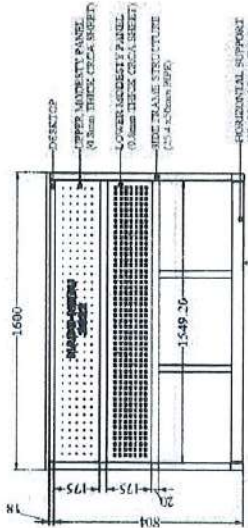
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DUAL DESK TYPE-5 (3 SEATER) FOR JUNIOR COLLEGES

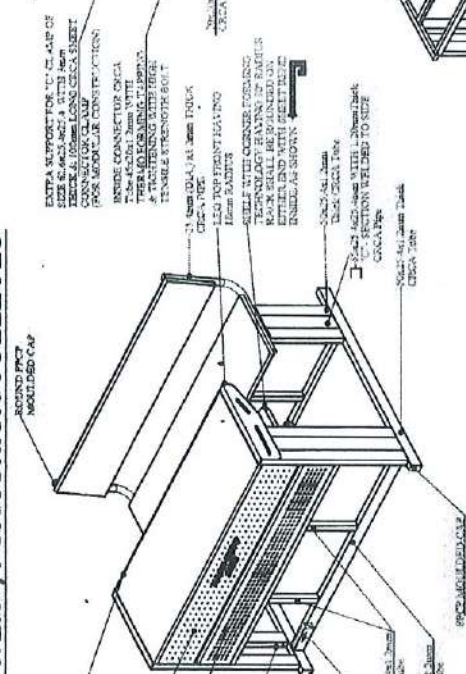


- BACK**
1. 18mm THICK MR GRADE PLYWOOD WITH 1 GREY PAST FORMED
2. BACK SHALL BE CONNECTED THROUGH METAL INSERT WITH
UNSTRUCTURE (MAZAK - SELF TAPPING NUTS)
- SEAT**
1. 18mm THICK MR GRADE PLYWOOD WITH 1 GREY PAST FORMED
2. SEAT SHALL BE CONNECTED THROUGH METAL INSERT WITH
UNSTRUCTURE (MAZAK - SELF TAPPING NUTS)
- DESK TOP**
1. DESK TOP SHALL BE MADE OF 18mm VENEER WITH 1 GREY PAST
FORMED EDGE & 18mm LAMINATE THROUGH METAL INSERT WITH
MAZAK SELF TAPPING NUTS (8mm DIA)



- UPPER MOVEMENT PANEL**
(8mm THICK CECA SHEET)
- LOWER MOVEMENT PANEL**
(8mm THICK CECA SHEET)
- SIDE FRAME STRUCTURE**
(2" x 4" 20mm I.D.)
- HORIZONTAL SUPPORT**
(Ø 25.4x1.2mm Tube)

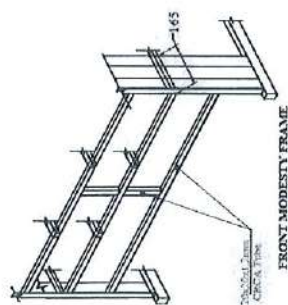
FRONT VIEW



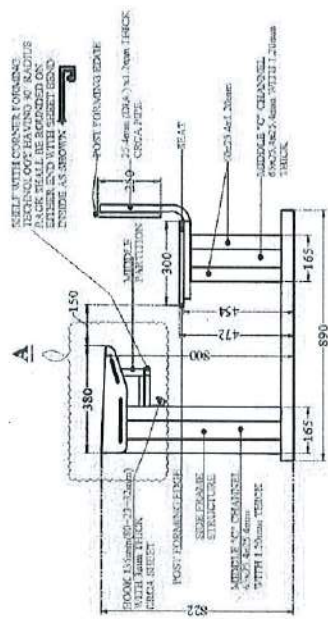
ISOMETRIC VIEW

- BACKREST**
1. 18mm THICK MR GRADE PLYWOOD WITH 1 GREY PAST FORMED
2. BACKREST SHALL BE CONNECTED THROUGH METAL INSERT WITH
UNSTRUCTURE (MAZAK - SELF TAPPING NUTS)
- SEAT**
1. 18mm THICK MR GRADE PLYWOOD WITH 1 GREY PAST FORMED
2. SEAT SHALL BE CONNECTED THROUGH METAL INSERT WITH
UNSTRUCTURE (MAZAK - SELF TAPPING NUTS)
- DESK TOP**
1. DESK TOP SHALL BE MADE OF 18mm VENEER WITH 1 GREY PAST
FORMED EDGE & 18mm LAMINATE THROUGH METAL INSERT WITH
MAZAK SELF TAPPING NUTS (8mm DIA)

MAZAK - SELF TAPPING-INSERTS, M6x13mm SIZE
A= 80mm B=12.7mm C=6mm (MAKE: ebc HITTECH)

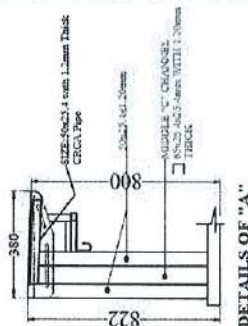


FRONT MODesty FRAME & STIFFENER DETAILS



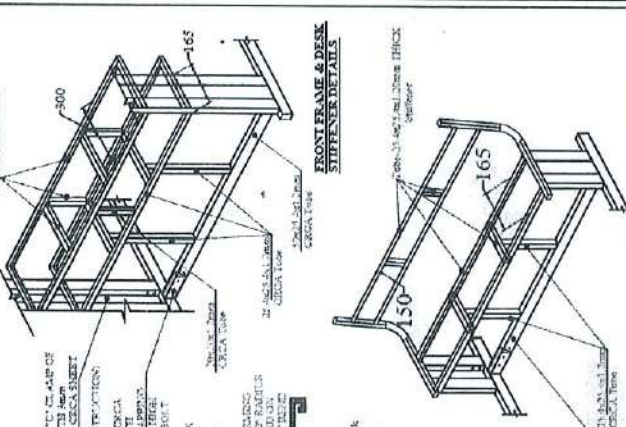
SIDE VIEW

- MIDDLE PARTITION**
(Ø 25.4x1.2mm Tube)
- SEAT**
(Ø 25.4x1.2mm Tube)
- BACKREST**
(Ø 25.4x1.2mm Tube)



DETAILS OF 'A'

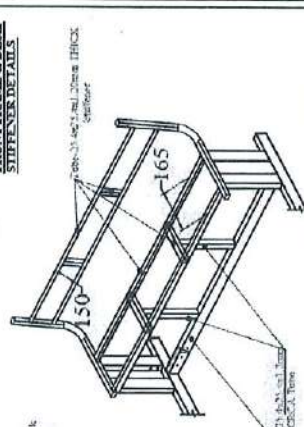
- MIDDLE 'C' CHANNEL**
(Ø 25.4x1.2mm Tube)
- BACKREST**
(Ø 25.4x1.2mm Tube)



FRONT FRAME & DESK STIFFENER DETAILS

- CECA Tube**
(Ø 25.4x1.2mm Tube)
- STIFFENER**
(Ø 25.4x1.2mm Tube)

BOTTOM SEAT & BACK REST FRAME & STIFFENER DETAILS



- CECA Tube**
(Ø 25.4x1.2mm Tube)
- STIFFENER**
(Ø 25.4x1.2mm Tube)

LAMINATE SHEET MAKES & COLOUR CODES			
NO	LAMINATE COLOUR	MAKE	SHADE COLOUR
1	PARROT GREEN	MERINO	2144
2	POST BLUE	MERINO	2102
3	BEIGE CANFORD	MERINO	2144
4	EMERALD GREEN	MERINO	2102
5	CARDINAL RED	MERINO	2104

POUR THE COATING TESTED & CERTIFIED AS PER BELOW TABLE

NO	PAINT TYPE
1	ACRYLIC
2	URETHANE
3	URETHANE
4	URETHANE
5	URETHANE
6	URETHANE
7	URETHANE
8	URETHANE
9	URETHANE

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