Alpha Engineering and Trading - Steel Re-imagined.

Our Commitment: We believe ourcommitment to each customer's satisfaction will earn their trust and help them to form a long term partnership with us.

Our Vision: To emerge as a global brand in high quality steel fabricated products and be the provider of custom steel solutions by employing avant-garde technology.

Our Mission: Partner with our clients to help them expand their business through their association with US by providing superior solutions in steel fabrication while adhering to world class quality and practices at competitive prices.

Alpha Engineering and Trading (AET) is a partnership firm, registered in 2016, having its registered office at PP678A/17, Elokkara, Engapuzha, Calicut-673586, specialising in manufacturing and marketing of steel products, mainly various construction equipment like Adjustable Props, Adjustable Spans, Centering Sheets, Scaffoldings, Columns Frame, Ramp etc., which are substitutes the conventional method of using perishable material such as bamboo and wood for making form works in civil construction projects. Using technologically advanced automatic machines help us to maintain most economical cost & consistent quality of on all of our products.

We all are well aware of the fact that the construction industry in our region is facing major challenges on cost cutting, mainly to compensate the high labor cost and labor management problems. This can be addressed considerably with the use of these modern equipment, meeting the domestic requirement & STD.

Based on our market study and customer requests, AET has now ventured into starting a new engineering division in Aug 2021, dedicated solely to construction equipment repair. This new division becomes our biggest USP (unique selling point) as we are among the very few manufacturing units with both sales and service capabilities under the same roof.

AET leadership is truly committed to protecting the environment and this commitment has inspired us to set-up our own 10Kv solar plant in our premises to help reduce our carbon footprint and support the environment in a small way. We also have a 80HP



Truss Work



We are experts in this field of work. Having a wide array of experience in Truss Work, we are capable of delivering products of almost all sizes and specifications as per the client requirement. We work closely with leading architects and designers in our region and execute their projects with any stringest specification. The raw material, color and surface finish are selected as per clients choice.

Ramb & Light Engineering Components (റാംമ്പ്, ക്ലാമ്പുകളും ച്യൂട്ടും)



We regularly manufacture and supply products like ladle buckets, different size base plates, various kind of brackets & stands, all kind of steel frames, kitchen stoves, kitchen cabints etc., in SS, HR or Galvanised steel sheets.







ALPHA ENGINEERING AND TRADING

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Centering / Adjuster/ Belt/ Lintel/ Projection Sheets (ഷിറ്റുകൾ)

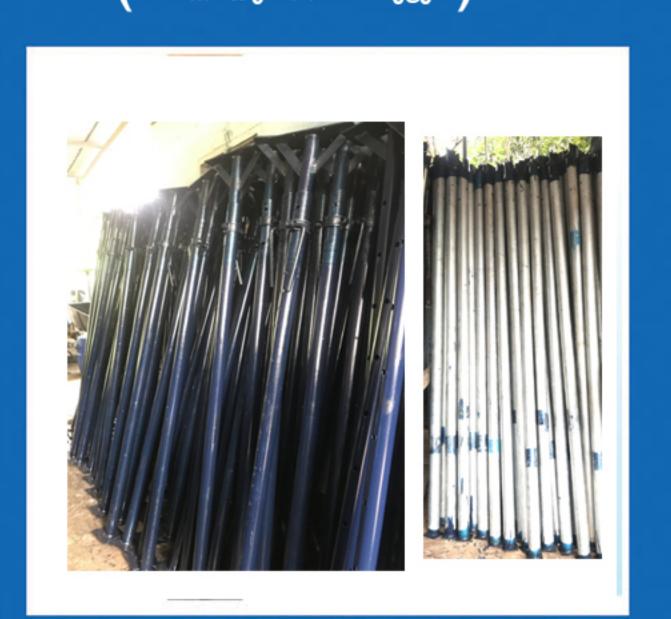


Components & Features:- Fabricated from 14G (2mm) or 16 G (1.6 MM) Hot rolled HR sheet.

Centering Sheet/ Adjuster sheet Standard size:

Lintel/Projection Sheet Std.size: W-8" x L-4' or 8'

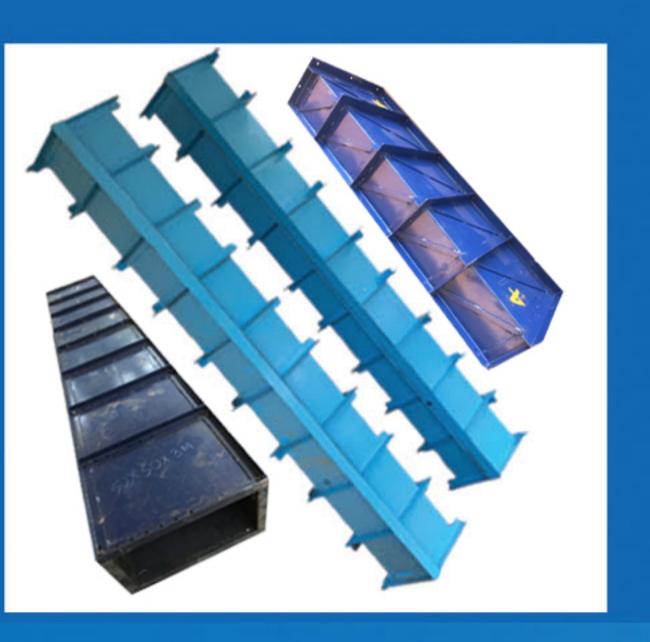
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Adjustable Spans. (സ്ചാര)



Column Boxes (2 0r 4 pce type) (കോളം പെട്ടികൾ)



Usage: To cast Floor, Beams, slab support, footings, projection slab & retaining walls etc.

100cm x 50mm / 90 cm x 60 cm / 115 x 60 cm

It can be locked at any desired length using a malleable Cast Iron nut & lockpin. **Components & Features:**

Composite Telescopic Tubular Supports (Jacky) consisting of 1.5" inner and 2" outer pipe with a malleable Propnut and lockpin Support having standard base & beam head.

ADJUSTABLE PROPS - Models / Std. Sizes				
Model	Min Height	Max Height	Load Capacity	
			Closed KG	Extnd KG
AP3600	2 M	3.6 M	3000	2200
AP3750	2.15 M	3.75 M	3000	2000
AP3900	2.15 M	3.9 M	2750	1750
AP4650	3 M	4.65 M	2400	1250

Usage: This is used to support Centering Sheets, roof slabs, Beam bottoms etc. without any intermediate support.

Components & Features: The telescopic sliding integrates trusses made from composite integration of various steel members.

Span's external members are made of 14 Gauge HR sheets, 10mm round bar, 2.5"x 1/4" & 11/4" x1/4" flats, 3"x1/4" end cleat angle and 40 mm T-angle.

Standard size and Approx.Wt: Expandeble from 2.46 to 4.14 M (42 kgs).

Expandeble from 1.7 to 3.1 M (32 kgs) Expandeble from 1.5 to 2.6 M (28 kgs) Expandeble from 1.25 to 2.1 M (25 kgs)

Usage: To cast the pillers in various shapes & sizes, mostly cylindarical, semi-circular, square or rectangle form. The frame sizes & shapes can be fabricated in standard or as per requirement.

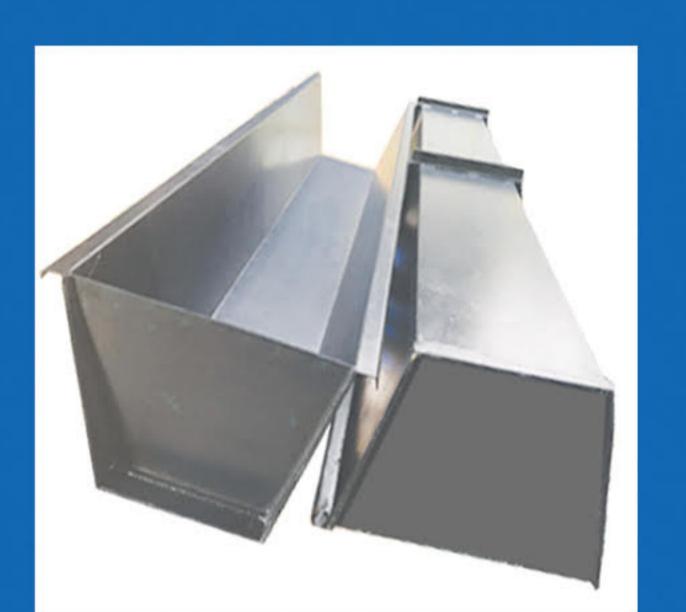
Components & Features: Manufactured from HR sheet, 10 Gauge (3 mm)mostly. Sheets are cut into specific size, bent and then welded with reinforcement ribs. The Column Parts assemble with NUTS & BOLTS. Standard sizes (H x W x L):

H - 5' or 10' x W - 20 – 30 cm x L - 20 – 60 CM.

Brace type or Cup Lock Type Scaffolding. സ്കഫോൾഡിങ്ങുകൾ/കുതിര



Concrete Mixing Tub: (Thoni / **തോണി)**



Single / Double Wheel Barrow & Gorrilla Carts (അർബാന):



Electrical Panel Board: (ഇലക്ട്രിക്കൽ പാനൽ ബോർഡ്)



Usage: A temporary steel structure used to elevate & carry crew and materials to all type of works. Scaffoldings comes with planks of suitable size and length.

Components & Features: Generally made of 1 1/4" (OD 42.1 mm) welded GI pipes, and 20 NB (OD 27 mm) Light / Medium class tubes for cross bracing.

Cup lock system - Versatile, Fast& Easy to erect and dismantle, and no nuts, bolts or wedges required to assemble. Cup lock spigot are manufactured from 48.3mm O.D. pipe, and have cup joints at 500mm intervals.

Usage:- For efficient manual mixing of small quantity concrete at work site.

Components and Features:- Molded from 8' x 4' x 3 MM HR Sheets, strengthened with 2" angles welded at the center and discharge end, 2" flat strip at close end and 3 fold bend at both sides make it rigid. Tub is supplied with externally 2 coat paint.

Standard Size:- Tub capacity can vary from 250 Itrs (0.25 CBM) to 600 Ltrs (0.60 CBM)

Usage:- Shallow wheel barrows are used to move raw material like sand, gravel, bricks, etc., and deep wheel barrows are used to move concrete on site.

Components & Features: Wheel Barrow comes with industrial heavy duty rubber Wheels which can withstand even the most harsh conditions. These standard trolleys are available in our stock, also can be fabricated as per customer specification.

Usage:- Manufacturing standard size or custom designed Electrical Panels Board of light and medium size, either single phase or three phase usage, painted or powder coated for surface protection.

Components & Features:- Panel Box are usually made of strong and weather proof materials, like CR or Galvanized thin sheet steel, usually earth stud and provided with backboard. Panel Box are provided with hinges, fixings and locks made of non-ferrous metals.

Conveyor, Side Guide, & Return Rollers: (കൺവെയർ റോളുകൾ)



Usage: Rollers are the major component of belt conveyor system. They are positioned along the entire conveyor length to support the belt. We produce 60mm to 114 mm rollers.

Components & Features: Steel Roller consists of idler painted shell, spindle, bearing, bearing house, self lubricating seals and axial fixed unites. Rollers give Steady running, reliable quality & reduced maintenance to the conveyors

Carrying Idler (ഐഡലർ നേളറുകൾ)



Carrying Idler:- These are used to transport conveyor belts loaded with bulk material.

Components & Features:- Carrying Idlers are fabricated from different piping materials such as Medium or Heavy class ERW or CS Seamless Pipes. Pipe selection is based on its requirement and application. The design ensures frictionless and smooth movement of bulk material.

Frame for Rollers Mounting (കവെയർ റോളർ സ്റ്റാൻഡുകൾ)



Usage, Components & Features:- Our frames for rollers meet the most common industrial standards.The stand spacing, the distance and the space between the roller and the main bracket are fabricated in accordance with the drawing given by our clients. Alternatively, AET makes carrying idler frames for a wide range of widths of conveyor belts to accommodate the standard dimensions in the industry.

Gates and Grills: (ഗേയ്റ്റുകളു ഗ്രില്ലുകളും)



Gates and Grills:-AET is well experienced in fabrication and supplying of tailor made Gates and Grill. For immediate requirement, we do keep a stock of standard size, different design gates, manufactured with care and using prime quality material.