



AVIATION GROUND SUPPORT EQUIPMENT

Explore our 33+ years of expertise in delivering reliable and innovative ground support equipment solutions worldwide.





About Nandan GSE

Background

We design & manufacture aviation ground support equipment, including **Hi-Lifts, Step Ladders, Baggage Conveyors, Ambulifts, Baggage Trolleys, Pallet/Container Dollies, & more**, covering a range of Standard Products, Custom Products, Projects, and Applications.

Founded in 1991 & been growing steadily since then

2 x AS 9100D and ISO 9001:2018 certified factories around Mumbai

Team of 250+ to implement customized solutions drafted for our clients

In-house R&D, Design Team with licensed Solidworks & Fusion 360 for 3D Modeling & Analysis

Fully featured ERP-CRM for data process management, & traceability

We Help Clients Improve Their



Productivity



Performance



Safety

We Help Clients Save



Time



Effort



Money

We Guarantee



Quality



Reliability



After Sales Service

SOME OF OUR CLIENTS



SOME OF OUR PRODUCTS

Flight Catering Hi Lifts



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Take your in-flight catering to the next level with Nandan GSE's Hi-Lifts. Recognized as the trusted choice by leading flight kitchens in India and globally, we've delivered over 1000 Hi-Lifts marked by superior quality, unbeatable reliability, and exceptional versatility. We deliver all over the world on chassis of your choice and with multiple customizations.

CATERING PETITE



Designed for aircraft from ATR to A320 in Full or Half Cabin, this economical choice offers upto 2000 kg payload & a platform height of 1.5m to 5m

CATERING CHAMP



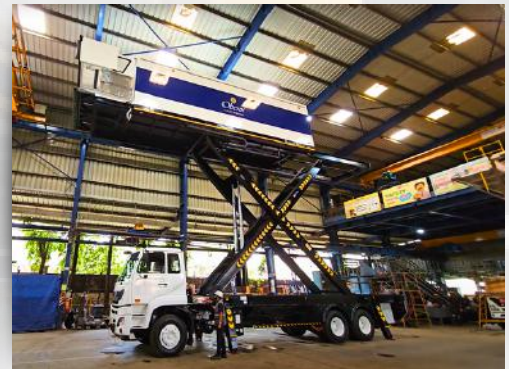
This 16-ton GVW Hi Lift handles up to 3000 kg payload with a Full Cabin platform height from 2.7m to 5.8m, supporting Narrow and Wide Body aircraft.

E-CATERING CHAMP



Full Cabin electric Hi-Lift lifting a 3000 kg payload to heights from 2.7m to 5.9m and provide range of 100 km to 150 km in single charge with fast charging

CATERING TITAN



As the world's largest Hi-Lift, it raises the bar with an 8.3m height access and a 3000 kg payload capacity and moving body for A380 kind aircraft

Features Of Hi Lift



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Nandan GSE's Hi Lifts offer exceptional performance and safety, featuring IATA AHM compliance, customizable chassis, and tailored options like tail lifts, platform configurations, and hydraulic canopies for versatile airport ground support.

KEY FEATURES

Anti Collision Sensors

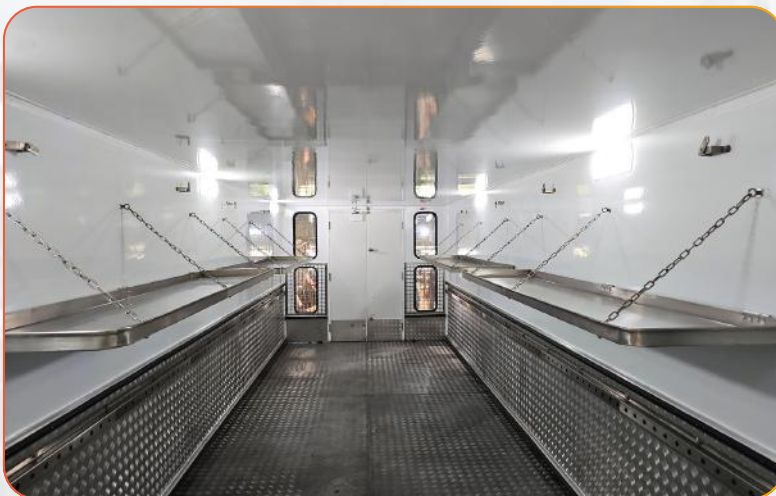
The Hi Lift is equipped with anti-collision sensors, enhancing safety by preventing accidents during aircraft servicing.

Compliant Equipment

IATA AHM Compliance ensures that the Hi Lift meets global safety and operational standards for efficient airport ground support.

Customized Chassis

The customized chassis allows flexibility to meet specific needs, ensuring optimal performance & compatibility with various aircraft.



OPTIONS IN ORDERING



Custom Chassis



Automatic Transmssion



Hydraulic Canopy



Relay Based Or PLC



Interior Body



Curved Roof

Ambulift



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Nandan GSE's Ambulift, also known as the Medical Lift, is an equipment designed to ensure safe, efficient, and dignified boarding and de-boarding for Passengers with Reduced Mobility (PRMs) using wheelchairs or stretchers. This vehicle bridges the gap between the airport terminal and aircraft, offering a seamless transition for passengers with mobility challenges.



Customizable Tail Lift Design

Tail lift with 500kg capacity folding rails, adaptable to various fleet requirements, ensuring flexibility and efficiency in operation.



Flexible Platform Configurations

Available in full-width or half-cab designs, catering to specific aircraft configurations.



Specifications

Chassis : 16 ton of your choice

Height Range: 1650mm to 5900 mm

Payload Capacity: 1500kg to 3000 kg

Left right movement : 710mm

In Out movement : 610mm

Platform Capacity: 500 kg UDL

Rooftop AC System: Driven directly by the vehicle engine, suitable for maintaining optimal temperatures as required.



Agile & Efficient Chassis

Standard chassis with a small turning radius, providing excellent maneuverability for easy navigation in confined airport spaces.



Accessibility & Space Capacity

Accommodates up to 6 wheelchairs or 1 stretcher, maximizing space for passenger accessibility and operational efficiency.

Electric Ambulift Lounge



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Nandan GSE's Electric Ambulift offers adaptable folding rails, anti-collision sensors, and a 16-ton chassis with a ground to 5900mm height range. It accommodates 6 wheelchairs or 1 stretcher, ensuring passenger comfort and operational efficiency. Powered by a rooftop AC system and available in options for 100km to 150km range.



Customizable Front Lift Design

Front lift with folding rails, adaptable to various fleet requirements, ensuring flexibility and efficiency in operation.



Safety Features

Electric Ambulift features a controller with safety sensors for passenger comfort & protection. Its anti-collision system ensures safe operations.



Specifications

Chassis : Nandan GSE Chassis
Automatic Transmission with 30 kmph top speed
Height Range: 1650mm to 5900 mm
Payload Capacity: 1500kg
In Out movement : 610mm
Platform Capacity: 500 kg UDL
Rooftop battery driven AC System with heating as option
Range: 100 to 160 kms
20-90% charge in 80 min
Lithium Batteries with 300V architecture
Emergency Ops with standby battery



VIP Features Available

This can be offered as a VIP Lounge with sofa, etc so that your special guest travel in comfort



Accessibility & Space Capacity

Accommodates up to 6 wheelchairs or 2 stretcher, maximizing space for passenger accessibility and operational efficiency.

Towable Step Ladder



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The towable step ladder is made from lightweight, durable materials, allowing easy towing and positioning with built-in wheels. With heights ranging from 10 to 18 feet, it features a slip-resistant base, adjustable height, and a sturdy handrail for safety. This essential tool enhances efficiency and safety in airline ground operations.



Adjustable Height Range

Narrow Body Design from 1800mm to 3700mm



Adjustable Height Range

Wide Body Design with 2400mm to 5800mm Electric Drive and Walkie Kit



Specifications

Height: 2200mm To 3700mm

Aircraft Serviced:

Embraer, B737 Family, A320 Family

Platform Width : 2000 mm
Platform Length : 1500 mm

Step Details

Width: 1200 to 1500mm

Tread/Riser: 275/200 mm

Mechanical Stabilizers 4 Nos

Optional Stair Lift available



Slip-Resistant Safety Features

Designed with a slip-resistant base and steps, ensuring maximum safety and stability during use, even in challenging conditions.



Enhanced Stability & Support

Equipped with a sturdy handrail and stable platform, offering additional support and safety during airline ground operations.

Mobile Step Ladder



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Nandan GSE's Self-Propelled Passenger Step Ladder – an efficient solution for airport boarding needs. Easily maneuvered across the tarmac, its adjustable height aligns perfectly with various aircraft, streamlining passenger boarding and deboarding processes.



GVW Chassis Mounted Design

Mounted on a 9-ton GVW chassis with Allison automatic transmission system, known as universal self propelled step ladder



Universal Aircraft Coverage

Covers aircraft from B737 to A340/B747, accommodating sill heights ranging from 2200mm to 5800mm for versatile usage.



Specifications

Chassis : 9 ton commercial chassis with manual or automatic
Platform Height Range: 2200mm to 5800mm
Platform Extension: 600mm
Stair Width : 1500 mm
Platform Extension : 600 mm
Platform Length : 1800 mm
Platform Width : 2200 mm
Wind Speed Resistance: Safe operation in wind speeds up to 100km/hr



Energy-Efficient Hydraulic System

Equipped with an energy-saving hydraulic circuit to enhance operational efficiency and reduce energy consumption.



Enhanced Stability & Support

Equipped with a sturdy handrail and stable platform, offering additional support and safety during airline ground operations.

VIP Step Ladder



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Nandan GSE's VIP Step Ladder, built on an Electric Chassis, offers fully electric operations, including stairs and platform lifting. Custom options include a Red Carpet, Teakwood handles, and a Stair Lift for added luxury.



VIP Kit

The customized VIP Kit makes it ideal for all kinds of customers. We can customize finish and also make it air conditioned.



Energy-Efficient Electrical System

Equipped with an energy controller – saving Electrical Power to enhance operational efficiency and reduce energy consumption.



Universal Aircraft Coverage

Covers aircraft from Embraer, B737 family, A320 family usage featuring a 4-way platform for operation with wide-body aircraft.



Staircase Chair Lift

The 150 kg Straight Staircase Chair Lift is designed for elderly or handicapped individuals, providing smooth & safe boarding.



Specifications

Height: 2200mm To 3700mm

Aircraft Serviced: Embraer, B737 Family, A320 Family

Stabilizers : 4 No. Electric Actuators

Platform Extension Length : Electric Linear Actuators 300mm

Extension ± 5 Degree swivel

Platform Width : 2000 mm

Platform Length : 2100 mm

Step Width : 1500 mm

Step Riser : 125 mm to 230mm

Truck Mounted Man Lift



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The ideal solution for safe and efficient access in airport services. Perfect for applications like aircraft maintenance, terminal repairs, and lighting inspections, ensuring exceptional reach & maneuverability across the airport.



Exceptional Working Height

With a working height of 12 meters, the Truck Mounted Manlift provides ample reach for various airport maintenance tasks.

Spacious Platform Design

The Platform is spacious and the railings are with foam protection for the aircraft to prevent any damage



Specifications

Truck Chassis: 7 Ton To 16 Tons GVW
Platform Height: 2000mm To 10,000 mm
Capacity: 500 kg To 2000 kg
Platform Extension : 1500 mm On Various Sides
Extended Platform Capacity : 300 kg
Pendant Wired Remote & Power Outlet Socket
3 Phase 440 V 16 Amp - 1 Nos &
12 V DC - 1 Nos
Anti-collision Sensors And Railing Foam

Impressive Load Capacity

Safely supports up to 2 ton, ensuring the platform can handle both personnel and necessary tools or materials effectively.

Extended Reach Capability

Includes an additional 1500 mm platform extension, providing increased reach, while the extended platform holds up to 300 kg.

Mobile Baggage Conveyor



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Nandan GSE's Mobile Baggage Conveyor is an equipment for efficient loading and off-loading of airfreight, bulk cargo, and baggage on all commercial aircraft. With its robust heavy-duty construction, this conveyor ensures smooth and seamless operations at airports of all sizes.



Versatile Conveyor Models

Baggage Conveyor is available in multiple models, tailored to meet the specific cargo handling needs of your airport.



Efficient Cargo Transport

Designed for smooth loading & unloading of air freight, bulk cargo, & baggage, ensuring seamless operations.



Specifications

Boom length : 7500mm
Belt Width: 600 mm
Height : 1650 to 4150 mm from Ground
Capacity : 50Kg/Meter
Speed : 15-30Meter/Min
Railing Height : 300mm
Foldable
Railing Material : SS
Options: With Electric Drive
Anti collision sensors



Advanced Safety Features

Equipped with weatherproof proximity switches, safety pins, & hydraulic boom lock for secure maintenance & safe operations.



Ergonomically Designed Cabin

The driver's cabin is ergonomically crafted to provide maximum comfort, simple controls, & optimal visibility.

Towable Baggage Conveyor



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A versatile and efficient solution for airport luggage handling. Easily towed across the tarmac, its adjustable height aligns perfectly with various aircraft, streamlining the loading and unloading process. Designed for operational ease and safety, this conveyor significantly enhances baggage transit efficiency



Adjustable Loading Height

Loading height adjustable 1300mm to 3400mm, suitable for various aircraft types & cargo handling requirements at airports.



Efficient Conveyor Speed

Conveyor speed of 15 meters per minute, ensuring quick and efficient cargo handling for smooth airport operations.



Specifications

Chassis: Heavy-duty pipe structure, turntable axles, anti-corrosive, PU paint

Engine: Greaves Lombardini 1533, electric start **OR** Electric Motor with Battery

Tow Speed: Up to 15 km/hr

Boom of 5.5m or 6.0m or 7.25m

Jacks at the deployment point

Easy to pull with tractor or by one person



Compact Dimensions

Overall width of 1.3 meters and length up to 4 meters, designed to fit within airport operational space constraints.



Durable Non-Marking Tires

Equipped with non-marking solid rubber tires 16" x 4", solid hub/rim, providing smooth mobility while maintaining the integrity of airport surfaces.



Toilet Service Unit



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Nandan GSE's range of Toilet Service Unit (Lavatory Vehicle) are of a well proven design to handle the aircraft waste when on the ground. The combined twin tank configuration allows the efficient handling and maintenance of aircraft lavatories.



Lavatory Vehicle Design

Toilet Service Units feature a well-proven design, handling aircraft waste & water requirements efficiently on the ground.



Twin Tank Configuration

The combined twin tank design efficiently manages waste & water, ensuring hygienic maintenance of aircraft lavatories.



Specifications

Chassis: Diesel Euro 6 chassis or Electric or Towable

Capacity: 600lt/ 1000 lt/ 2000 lt/ 3000 lt toilet tank

Capacity Water Tank: 300lt/ 400 lt/ 1000 lt/ 2000 lt Water tank

Water pump - SS 304

All tanks are SS 304 grade



Customizable Tank Capacity

Tank sizes can be customized and installed on commercial vehicles with 7.5-12 tonne GVW chassis as per requirements.



Durable & Anti-Corrosive Build

Equipped with elegant coverings, anti-corrosive paint, & non-steel water pump pipelines, ensuring durability & long-term use.

Water Service Unit



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Nandan GSE's Self-Propelled Passenger Step Ladder – an efficient solution for airport boarding needs. Easily maneuvered across the tarmac, its adjustable height aligns perfectly with various aircraft, streamlining passenger boarding and deboarding processes.



Superior Water Service Units

Our self-propelled and towable water units provide efficient water replenishment for narrow body and commuter aircraft.



Flexible Mobility Options

Available in self-propelled & towable models, offering easy navigation around airports & flexibility for various aircrafts.



Specifications

Chassis: Diesel Euro 6 Chassis or Electric or Towable

Capacity: 1000 / 2000 lt / 3000 lt Water tank

Water pump - SS 304

All tanks are SS 304 grade

Rear Access Platform



Durable Tank Construction

Tanks made from mild steel or stainless steel, with capacities ranging from 500 to 3000 liters, ensuring durability in harsh conditions.



Aesthetic and Robust Design

Elegant side & top coverings, with galvanized or chrome-plated components & non-steel water pumps, for a durable finish.

Electric GSE

Nandan GSE offers a range of eco-friendly Electric GSE solutions, including Electric Hi Lift, Electric Tow Tractor, Electric Step Ladder, and Electric Ambulift. These products are designed to enhance operational efficiency, reduce carbon emissions, and ensure seamless ground support at airports, providing reliable, energy-efficient solutions for a cleaner future in aviation. More details will be shared on discussion please email us on gse@nandan.co.in



ELECTRIC HI LIFT



ELECTRIC TOW TRACTOR



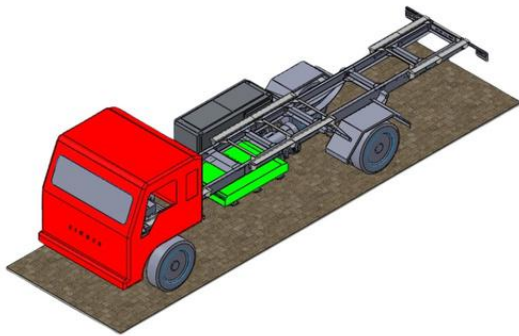
ELECTRIC STEP LADDER



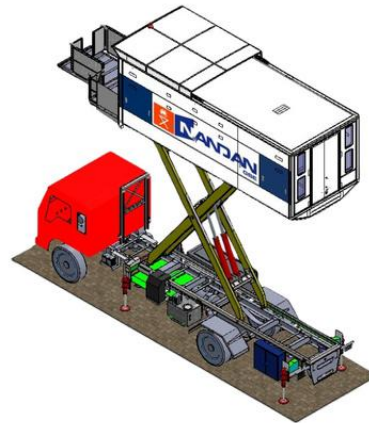
ELECTRIC AMBULIFT

Diesel to Electric Conversion

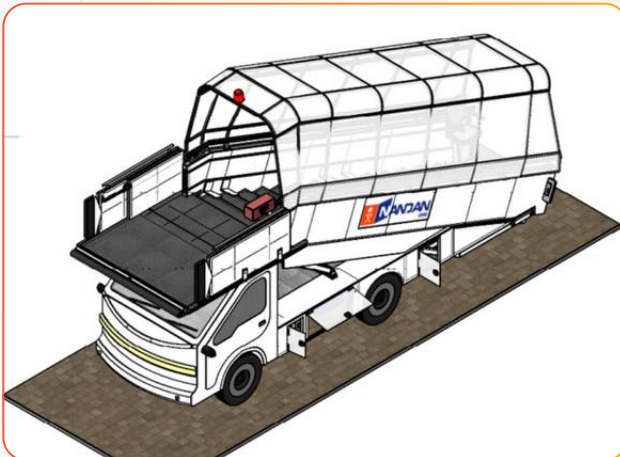
Nandan GSE offers a range of eco-friendly diesel to Electric GSE conversion solutions, including retrofitment of Electric Kit and refurbish the old GSE equipment to get Electric Hi Lift, Electric Step Ladder, Electric Tow Tractor, and Electric Ambulift. These products are designed to enhance operational efficiency, reduce carbon emissions, and ensure seamless ground support at airports, providing reliable, energy-efficient solutions for a cleaner future in aviation. We can provide Lithium as well as Lead Acid battery kits. This can be done at your location itself.



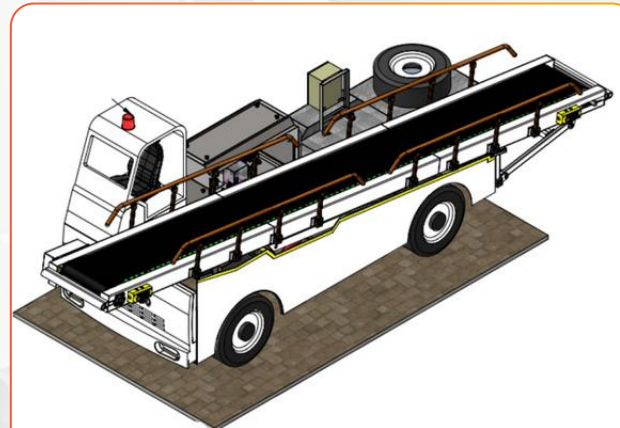
ELECTRIFICATION OF CHASSIS



ELECTRIC HIGH LIFT



ELECTRIC STEP LADDER



ELECTRIC CARGO LOADER

Height Access Equipment



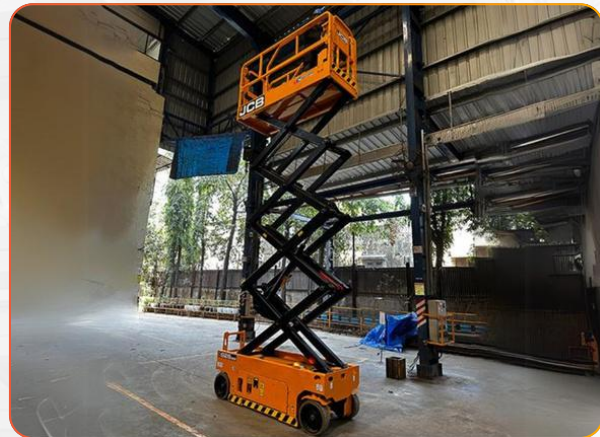
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Nandan GSE's height access equipment is designed specifically for aviation needs, providing safe and efficient access for aircraft maintenance and ground support tasks, ensuring optimal performance at various height levels.



TOWABLE SCISSOR LIFT

Efficient & safe access to elevated workspaces with impressive height, capacity, & mobility



JCB SCISSOR LIFT

JCB's Electric Scissor Lift designed specifically for efficient ground support and maintenance tasks in aviation.



JCB ELECTRIC BOOM LIFT

Enhance your hangar operations with zero emissions. Efficient maintenance & repair tasks.



JCB TELESCOPIC BOOM LIFT

The Boom Lift can go to height of 65 feet with 2 people with gradient and horizontal outreach

Other GSE



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Our GSE range includes essential equipment designed for efficient ground support operations. From fuel bowzers & electric tow tractors to self-propelled lifts & baggage trolleys, each product is built for durability, reliability, & operational efficiency. These solutions ensure smooth and seamless functionality across all airport services, enhancing overall productivity.



HEAVY DUTY TRANSPORTER



PLANE SKATE



GSE WASHING



ELECTRIC SCISSOR LIFT



ARTICULATED BOOM LIFT



ELEVATED TRANSFER VEHICLE



TRUCK LOADING PLATFORM



HYDRAULIC TESTING UNIT



OXYGEN TROLLEY



NITROGEN TROLLEY



FUEL BOWSER 2450 LT



K LOADER



ELECTRIC TOW TRACTOR



AIRCRAFT ENGINE TEST CELL



TRESTLES



BAGGAGE TROLLEY



PALLET DOLLY



TRUCK MOUNTED CRANE



MOBILE ATC



CONVEYOR BELT

Maintenance Services



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Nandan GSE provides a variety of maintenance and spares support for the Airport

- Ensure your equipment is maintained well
- Ensure the statutory compliance is done
- We are CHARTERED ENGINEERS and can issue the Safety Certificates
- We can also do repairs, maintenance and breakdown service
- We can train your staff in operations and maintenance

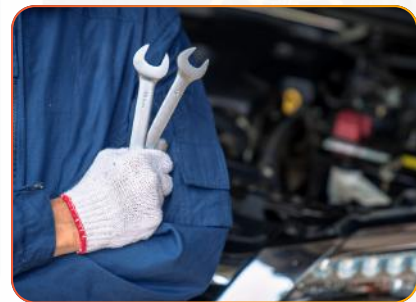
Do email us at service@nandan.co.in for personalised attention.



AMC SERVICE



SAFETY AUDITS & INSPECTION



ON CALL MAINTENANCE



CMMS



REFURBISHMENT SERVICE



TRAINING



Certified Chartered Engineers

We are Certified Chartered engineers and also Competent Persons



IATA AHM Maintenance

The IATA AHM mandated maintenance should be done and we are well versed with that



Service Equipment

All kinds of equipment can be serviced – **Any make** and **any year**:

- Hi Lift
- Ambulift
- Step Ladder
- Cargo Loader
- Conveyor
- Push Back Tractors

OneCMMS.com



Scan

Maintenance management made easy using our OneCMMS.com subscription.

Top 10 Benefits of a CMMS



Reduce Downtime



Control Costs



Increase Efficiency



Collect & Use Data



Automate Work Requests



Increase asset lifespans



Save Energy



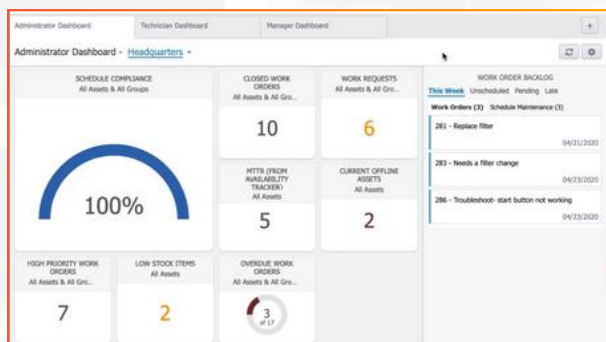
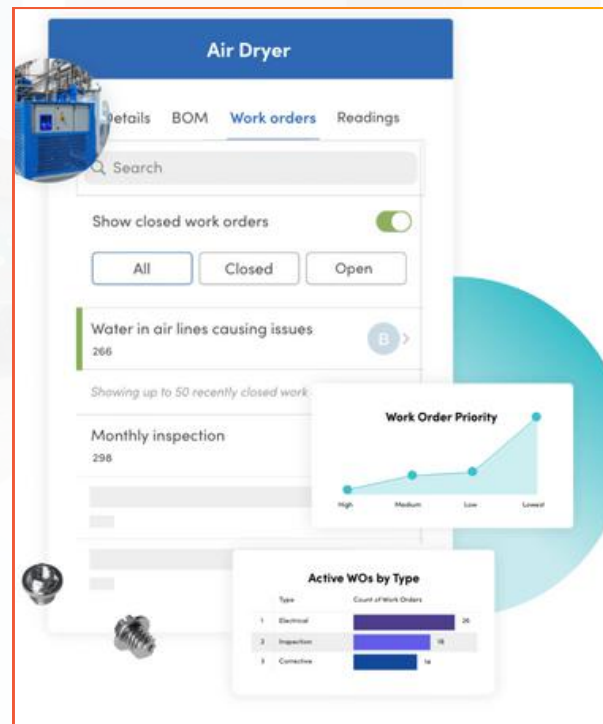
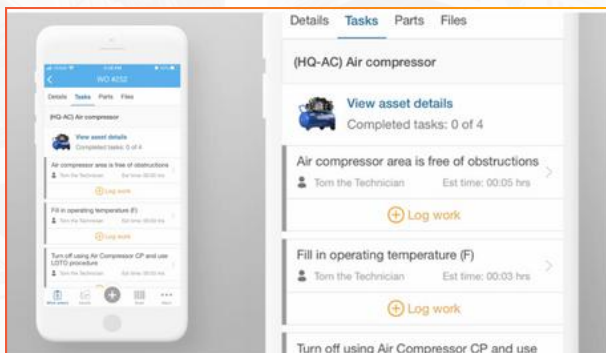
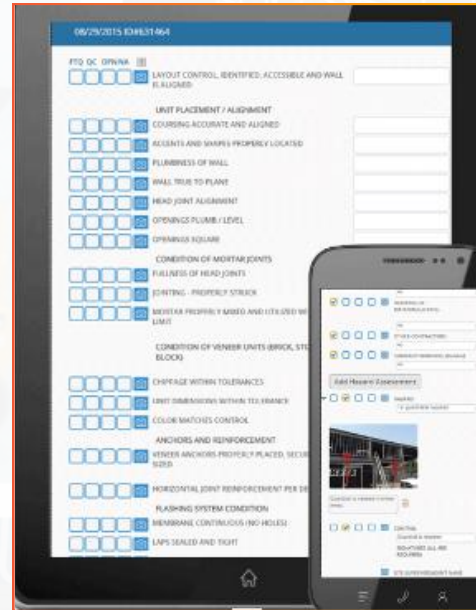
Improve Health & Safety



Make preventive maintenance easier to schedule and complete



Standardize Maintenance Processes



OUR CAPABILITIES

- ✓ 2 self-owned factories with a combined area of more than 1,00,000 sq.ft
- ✓ Working closely with Supply Chain Partners for outsourced processes
- ✓ State-of-the-art processes benchmarked with the best in the world
- ✓ Flexible layout to accommodate projects
- ✓ Integrated vertical factory setup
- ✓ MIG welding machines - inverter based 400A, 300A, 200A, 150A
- ✓ In-house designing facility using Solidworks and Autodesk Fusion³
- ✓ Laser and plasma cutting facility



CERTIFICATES



DRDO - SAMAR



AS9100D



ZED Gold



ISO - 9001



ISO - 14001



ISO - 45001

We are Open to CONTRACT MANUFACTURING for YOUR Builid to Print Products



FLY IN THE **RIGHT** DIRECTION WITH US.

Since its inception in 1991, Nandan GSE has soared to unparalleled heights as a trailblazer in Aviation Ground Support Equipment (GSE) manufacturing and Material Handling Equipment. With unwavering dedication to innovation, precision engineering, and unwavering commitment to excellence, we have cemented our position as an international leader in the industry.



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