

الافق للهندسة والخدمات الفنية ش.م.م Horizon Engineering & Technical Services L.LC



A Trusted partner for Green Field and

Brown Field Project support services in the

Middle East.

HETS is a ISO 9001, ISO 45001 certified, multi disciplinary engineering & contracting company providing a range of services, especially focused in the Oil & Gas sector, Power generation, Large Industrial process plants, Industrial power Distribution, Balance of Plant (BOP) systems, and Project procurement services in the Gulf region. The company has been promoted by a team of experienced technocrats with a wide and global exposure to engineering and construction projects in 2011.

Engineering & Administrative Office

PO:1095; PC:322, F#3, Uhi House, Bldg - 152 Uhi Industrial Area - Suhar, Sultanate of Oman Ph: + 968 26948378 / 97122593

Fabrication Yard & Warehouse

Plot 235A, Al Uhi Industrial Area, Suhar. +968 95249465 / 95648686 / 96918019







info@hetsoman.com www.hetsoman.com Companies fabrication yard @ plot 235A, Uhi Ind Area, Sohar in an area of 2000 sqm. With Gantry crane of 5 ton capacity and Covered fabrication building – 800 sqm.

The company owns a fleet of transport vehicles including 25 seater PDO certified passenger bus, pickups to support the project needs at various project sites including PDO sites.

The Division has qualified QA/QC personnel to oversee quality of the piping components and the site construction work is supported with "Permit Holder" certified by PDO.









PROJECTS DIVISION

Engineering

Oil & Gas- Refinery & allied plants – Residual engineering

Prebid engineering support

As Built support

Procurement

Mechanical equipment
Instrument systems/ Pipe line instruments
Piping systems , valves and accessories
Control Systems- Hardware/ system upgrade
Electrical systems components / spares

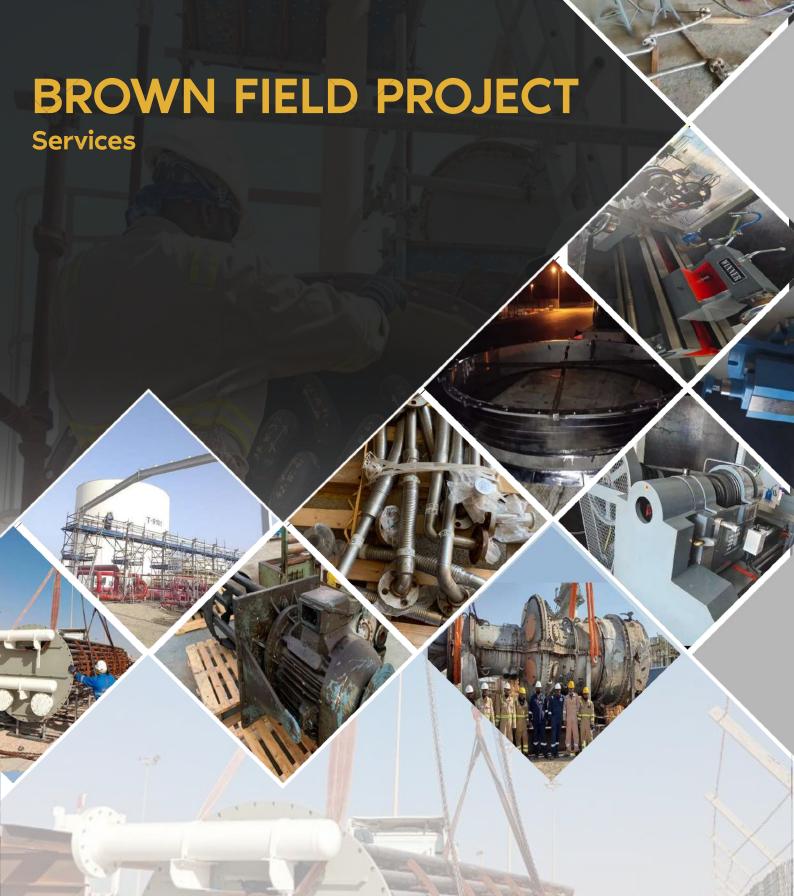
Construction

Fabrication / Install. of structural elements
Piping fabrication & installation
Piping modification / upgrade in process plants
Electrical & Instrumentation systems
Testing & commissioning of electrical & instrument
systems

Maintenance

Upgradation of Elect, Mech & Inst. systems Static equipment maintenance services Flushing and cleaning of piping systems Rotary equipment / Gear Box overhaul

The Project Division of HETS is driven by a team of experienced engineers from a Consulting Engineering Background, hence are able to understand the projects / subsystems requirement as described in Front End Engineering & Design (FEED) documents and support the project in the complete range of services, in an EPC model. The division offers services both in Green Field and Brown Field Projects and have executed many projects in close coordination within operating process plants, namely Shell Oman, OQ, PDO power plant sites, Sohar Aluminium, Jindal Shadeed to name a few. The companies safe working approach is tuned with Shell's Global safety standards and is "Green Banded" to support Shell projects in the Middle East.



The division is well supported with qualified welders (6G certified), Experienced fitters/ technicians and supported with supervisors/ foreman. The division has an array of construction tools and tackles along with portable. Containerised lathe machine shop, containerised mechanical tools/ tackles to handle works at construction site/ maintenance project sites at remote desert locations and Emergency Shutdown Requirements The projects division is supported with a well equipped fabrication yard for piping and structural components at plot 235A, Uhi Industrial area, Sohar.

ELECTRICAL INSTALLATION & COMMISSIONING SERVICES



Switchgear Installation

Cable Tray / Cable Installation

Outdoor cable laying upto 33kV

Electrical system pre commissioning

Switchgear Modification & R&M Works

Plant lighting installation

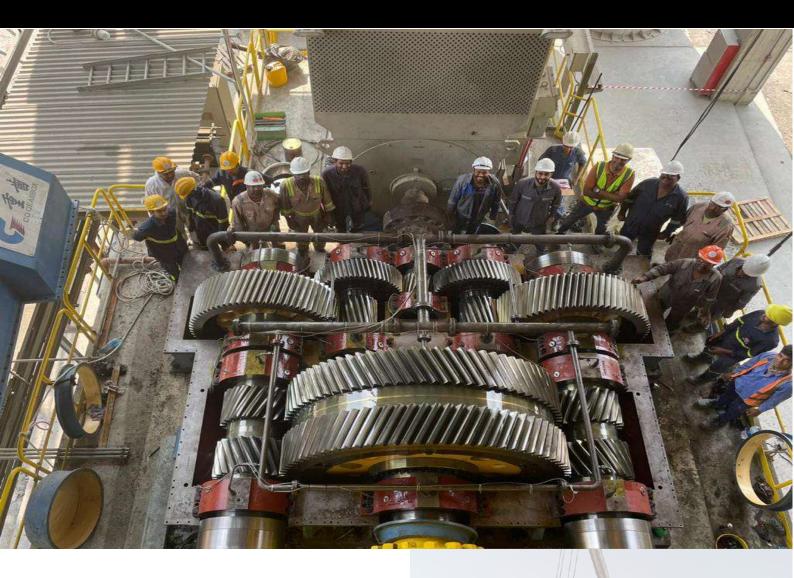
Safety grounding and earth pit reconditioning

INSTRUMENTATION INSTALLATION & COMMISSIONING SERVICES

- · Pipe line instrumentation
- · Tank gauging systems Process equipment installation,
- Process plants PLC integrator
- Site services for DCS/ ESD process companies for installations and commissioning supports
- · Tank gauging instrumentation
- · Fire and Gas instrumentation
- Flow Measurement skids
- Interfacing engineering/ implementation of various different Instrumentations systems with all communication protocols
- Process control and Safety systems



MAINTENANCE SERVICES



In situ Hydraulic oil / piping flushing services with HETS owned flushing skid Rotating equipment dismantling / installation, alignment checks.

Gear box overhauling

Piping component modification/ hydro test

Hot tapping works and piping tie in works

Electrical works modifications

Process instrument installation/ calibration

Static equipment overhaul services during planned turnaround/ shutdown

Heat exchanger tube cleaning/ filter element replacement

In situ equipment painting services

Insulation / cladding services

Scaffolding installation services

Power plant, Refinery equipment/ Exploration side skids mechanical, Electrical and instrumentation maintenance/ shutdown services

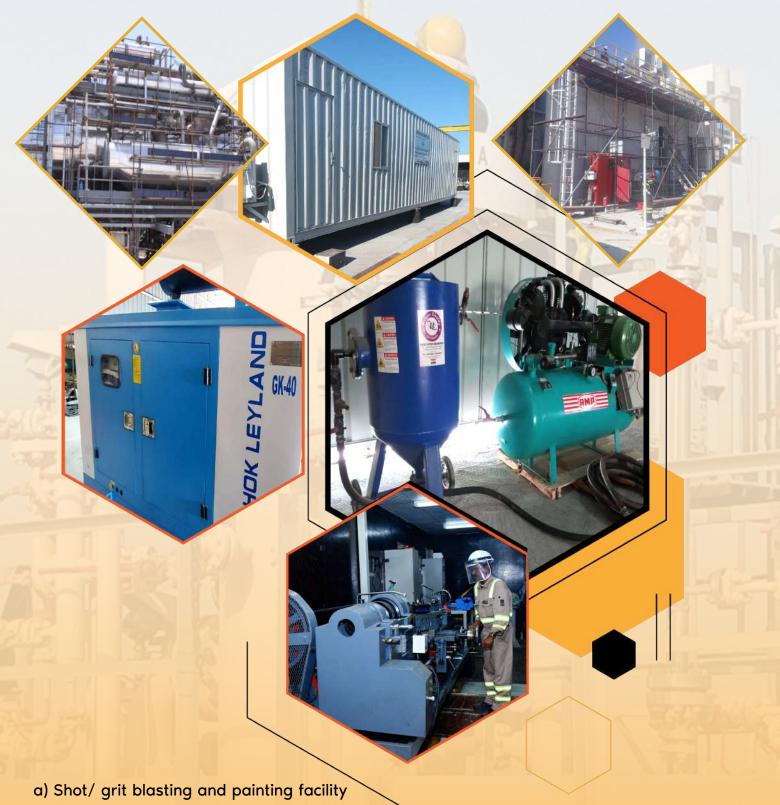
Hoses testing and periodic re certification

LUBRICATING OIL FLUSHING SERVICES TO NAS CLEANLINESS



FLUSHING OF GAS TURBINE BEARING LUBE OIL SYSTEM AT PDO SITE

MAJOR HETS OWNED MACHINERY



- b) 15 ton capacity cable drum jacks- 3 sets
- c) Cable pulling Electric winch suitable for pulling cables from 12 tons cable drums.
- d) Air compressor/ electrode baking owen/ Arc / TIG machines
- e) Hydraulic tools (jacks/ wrench), motorised pressure testing equipment
- f) Composite hose crimping machine upto 6" hoses
- g) Cup lock scaffolding components of 1800 cum for covering working area
- h) 40 feet containerised lathe / precision machining shop
- i) 20 feet containerised mechanical tools storage
- J) 40 KVA DG Set 2Nos

COMPOSITE & SS HOSE ASSEMBLY & TESTING



PROJECT PROCUREMENT SERVICES

HETS is a registered procurement support company for various Industries and PDO Operating companies. We have an excellent data base and experienced engineers, who can source, Spare parts, Hard to find replacement parts, project related requirements of Mechanical, electrical, instrumentation and IT related hardware from around the globe. Besides HETS is also authorized distributors / channel partners for various principals and can source items with an extremely short turnaround time.



Secondary Spill Containment

Secure deployment and no-worry, spill-readiness.



Ground Protection & Temporary Road Mats

Top quality safety solutions for construction and events.





Steel Containment

- Modified PVC coated fabric
 Patented rigid-lock stamless-steel wall support
 Made in the Netherlands



Plastic Containment

- Seamless construction eliminates leaks
 Polyethylene & steel options
 Mobile steel spill pallet option



Flexible Containment

- Modified PVC coated fabric
 Patented rigid-lock stainless-steel wall sup;
 Made in the Netherland



Make-A-Berm Kit

- Build your own custom containment
 Contains spills and leaks around unique equipment and situation
 Ideal for small to medium capacity containment need



Heavy duty ground mats

- Heavy duty
 Connectors available for a secure trip-free solution
 HDPE
 Easy to maintain
 Will not not, rust or crack



Medium duty ground mats

- Medium duty
 Connectors available for a secure trip-free solution
 HDPE or LDPE
 Easy to maintain



Light duty ground mats

- Light duty
 Connectors available
 Overlap connector option available
 Can be moved by two people
- people Will not not, rust or crack
- Combats noise pollution by absorbing and reflecting the sounds
 Foldable
 Weather resistant
 Will not, not, nust or crack

Outrigger Pads

Start with the Essential













Start with the Extentily

Emergency Tank Showers

1500L Emergency Tank Showers

Essential in environments where tepid water, or a constant supply of water is unavailable. Suitable for use where insufficient water pressure exists or when it is impractical to use a plumbed in safety shower. Meets ANSI and European

- Provides tepid water for over 15 minutes at a guaranteed flow of 76 Bires per
- . Jacketed and insulated indoor/hot climate models maintain a steady

Model No.	Description	ISP Inlet Size	Distensions (100th my
EXP-MH-14KS/1500	immercion beoled 1500 little emergency tank shower with claimings clash have (2304)	NE	1478x1420x3746
DEP-J-14KS/1500	Jacksted and vaulated 1500 libra emergency.	76.5	1478(1420)(1746



350L Emergency Tank Showers

Essential in environments where topid water, or a constant supply of water is unavailable. Suitable for use where insufficient water pressure exists.

- Instant activation by panic bar or optional foot panel
- . Indoor jacketed and insulated models maintain a steady temperature

Model No.	Description	INSP Inlet Size	Installed Dispensions Distance
EXP-MH-14KS/200	firmerson healed 350 life emergency tank shower with stairings steel frame (2304)	10.5	720×1000×0230
EXP-J-14K3/250	Jackstell and insulated 250 life energetry	. Wif	720x1030x3230



O Justrite

Storage & Dispensing











Outdoor Safety & Storage Cabinets



O Justrite



Safety & Storage Cabinets

















A Justrite

SAFE EARTHING KIT



Save Life, Livestock & Equipments From Electrical Fires....



Physical Properties of Earth enhancing compound Earthcon:

Presentation Granulometry Smell

: Amorphous : Powder to 0.8mm

: Reddish Grey : Inodorous Solubility in water : Partially miscible

: 6.9-7,2 of 1000gm/lit at 20°C

pH value

- Corrosion free & Long Life
- · Environment Friendly Certified by Karnataka State Pollution Control Board
- · RoHS Compliant
- MSME Tested for Resistance Consistency

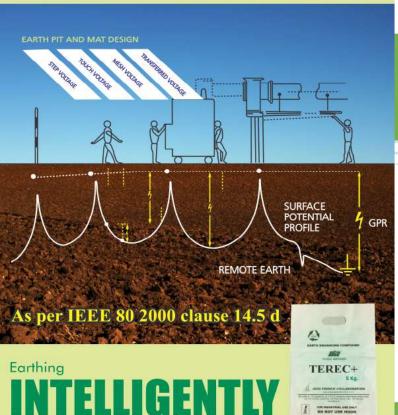
Kit Contents:

- Copper Bonded M.S. Electrode (17mm dia, 2.0 mtr long, 250 microns, molecularly bonded)
- 'U'Bolt Clamp

Saves Electrical & Sensitive Electronic Equipments from Ground Faults

INTELLIGENTLY

TEREC +



OUR OTHER EARTHING PRODUCTS

AUDIT, DESIGN, REFURBISHING AS PER IS/BS/IEEE STANDARDS

MOBIEARTH
Mobi Earth is a respite to all mobile Electrical, Electronic & Communication equipments. It is a need for mobile equipments used in Defence, Space programs, Intelligence agencies. Mobi Earth provides quick & efficient earthing. Proper earthing ensures reference voltage (GND) for its functional needs. It is also the safe path to conduct VHF, Harmonics, Surges, Spikes, Unbalances, Short Circuit Current & other faults into the ground

Technical Parameters

Resistance in vertical setting Resistance in horizontal setting Unbalance withstand capability Short term duty for 1 sec.

32.45% of soil resistivity 21.05% of soil resistivity

Body

250 µ Molecularly Bonded Copper Over Central Conduction

Infill Compound

500 to 650 Kg/m² Compressed 450 to 500 Kg/m³ Uncompressed Partially miscible 6.9 to 7.2 of 1000 gm/lit at 20° C Volumetric Mass

Solubility in Water p" Value Approx. Number of operations

75 Times or 2 Years whichever is earlier

COPPER BONDED EARTH RODS

SGI copper bonded earth rods are made from low carbon steel of Grade BS 970 or AISI 1018 with a high tensile strength of at least 600 N/mm³. Low carbon steel core are molecularly bonded with 99% pure electrolytic strength of at least copper 250 micron.

- Perfectly bonded rod will last longer, drive easier & will not crack.

 Corrosion resistance while providing the lowest resistance to ground.
- Threads are rolled by 'roll threading process' that ensures an even copper covering is maintained, even at the root of the thread.

 Roll thread gives greater strength than the cut thread.

 Thread rolling process raises the surface of the rod.

14 mm dia, 1.2 mtr length 17 mm dia, 3 mtr & 2 mtr length 19 mm dia, 1.8 mtr length

COPPER ALLOY CLAMPS







HDPE EARTH PIT COVER



TERRANITE - EARTH ENHANCING COMPOUND

TESTED AS PER IEC 62561-7 ♥



TERRANITE

Presentation: Amorphous | Resistivity: 0.91 Ωm | Colour: Black | Smell: Inodorous Granulometry: Powder to 0.8 mm | Soluble in Water: Partially miscible pH Value: 8 - 9.774 of 10 Lit/Kg

- Highly conductive Earthing backfill Compound.
- Capable of reducing Soil Resistivity for Electrical requirements.
- Non- corrosive property improves the life of the Earthing System.
- Does not damage the electrode metal in any way.
- Performs in all weather conditions giving stable Earth Resistance values.
- © Compatible with all types of Earthing electrodes, be it pipes, plates or rods of any metal.
- Can also be used in trenches made for horizontal type Earthing Systems.
- Increases the total Surface Area of the Earthing ensuring guick dissipation of fault currents.
- Maintains constant volume regardless of moisture content.
- Long shelf life; can be stored for very long periods without deterioration.
- · Environment friendly; does not pollute or contaminate the water table.

ARTHING

