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# GLOBAL INDUSTRIAL & DEFENCE SOLUTIONS PAKISTAN

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Global Industrial & Defence Solutions (GIDS) is Pakistan's premier state-owned defence organization offering multi-dimensional defence solutions in the field of Air, Land, Sea, NBC Defence and Security & Riot Protection. By means of effectively materializing the concept of national self-reliance, GIDS take all the pride in delivering the quality products & services to the Armed Force of Pakistan (during all war & peace-time engagements).

The expertise has been widened further across the globe through successful international sales to friendly countries. From highly sophisticated Air Combat Maneuvering Instrumentation System (ACMI), Air Defence System (C4I), Range Extension Kit (REK), Aerial Bombs, AB-Series (Proximity & Impact) Fuzes, ATGM (Baktar Shikan), to Patrol Boats, Marine Simulators, Laser / Optronics, Security Equipment, NBC Defence Products and a diverse array of Unmanned Systems (UAVs).



### SHAHPAR – II (ARMED & ISR) UAV SYSTEM

Shahpar-II is a medium altitude, long endurance unmanned aircraft with armed capability. Some of the notable features of the Shahpar system include its autonomous take-off and landing system, a robust autopilot scheme, user friendly mission planning & management software, reliable data links and the capability of integrating various types of EO payloads.

Parameters	Surveillance	Armed
Endurance	14 Hrs	07 Hrs
Service Ceiling	20,000 ft	18,000 ft
Data Link Range (LoS)	300Km	300Km
Radius of action (Blos)	1050Km	1050Km
Weapon System	Not applicable	2 x AGMs of 45kg under each wing station

### BURQ AIR TO GROUND MISSILE (AGM)



Burq is a Semi Active Laser Guided Air to Ground Missile (AGM). With range of 8km, it has the capability to precisely attack the enemy personnel, light and armored vehicles, bunkers and buildings with high integration level, superior fire accuracy and better reliability. It has launch altitude of 500 to 5000 meters (MSL) with max missile speed of  $Ma \leq 1.1$ . The semi-active laser seeker and cutting-edge navigation technologies makes it exceptionally accurate (hit probability of > 90%) and distinguished weapon system to precisely engage moving and static targets.

### UQAB NG TACTICAL UAV SYSTEM



UQAB-NG UAV is a catapult launched, net recovered Tactical UAV System designed to conduct reconnaissance & surveillance missions while offering long endurance of 8 hrs, high service ceiling of 20,000 ft and optimized RCS Signature. It is a low weight and compact system ideal for real-time surveillance missions up to 150 km.



### SCOUT VTOL UAV SYSTEM

Scout UAV system is a mini UAV system with Vertical Take-off and Landing (VTOL) and hovering capability. It is a Quad-Copter with four brushless electric motors and can carry a payload of upto 2 kg. Its endurance is around 40 minutes with flight ceiling of 1200 ft.



### ZUMR-II DAY / NIGHT SURVEILLANCE & TARGETING PAYLOAD

ZUMR – II is a high performance Multispectral Imaging payload with 24/7 Mission Capability with Enhanced Imagers. It is highly stabilized system with 2 LRUs (Line Replaceable Units)



### NAHL LIGHT WEIGHT HD SURVEILLANCE PAYLOAD

NAHL is a Light weight HD Surveillance Payload with Single LRU based surveillance system and highly stabilized Multispectral Imaging. It has 24/7 Mission Capability with Enhanced Imagers; Day and Night surveillance of site (Offshore platforms, industrial and sensitive sites), Border surveillance & homeland security



### STABILIZED OPTICAL TRACKER MULTI – ROLE IRST

Stabilized Optical Tracker, scanner and surveillance system has the ability to detect/ track aerial/ surface target like UAVs, helicopters, aircrafts, ground vehicles and ships. Detection of multi targets with in the field of view of the thermal imager is carried out as a first step. Subsequently, the system locks on to a primary target selected by the operator. The state of the art algorithms and robust electronics design make SOT-3S-E a reliable sensor.



### GP SERIES BOMBS (GENERAL PURPOSE BOMBS)

GP 82, 83 and 84 are the standard air delivered ordnance deployable on NATO and Warsaw standard aircrafts. These bombs are available in Steel, Pre-fragmented versions with IM and Thermobaric filling. The bomb will produce blast, fragmentation and ‘crater’ effects with its main function being determined by the fuze used.



### AB SERIES FUZES (ELECTRONIC, IMPACT & PROXIMITY FUZES)

Fuzes play a key role in optimizing the performance of air and ground burst bombs. GIDS specializes in the Designing, manufacturing & testing capabilities, of a wide range of Electronic (Impact & Proximity) Fuzes.



### REK (RANGE EXTENSION KIT)

REK converts the General Purpose Steel Bombs to guided weapons by simply integrating the Range Extension Kit. The kit includes a Tail Unit integrated with the bomb body that provides both guidance and navigation to the target, and an additional Wing Unit (with deployable wings) for extending the range. It has range of 100 km with Launch Speed of < 0.85 Mach



### AL BATAAR (LASER GUIDED BOMB KIT)

Al Battaar is a laser guidance kit attached to the nose and tail of the General Purpose Bombs. It is carried and launched from JF-17, Mirage, F-7PG aircraft and is designed for use when attacking soft, hard, slow moving and stationary targets. The weapon can operate from a variety of different launch scenarios (high/ low altitude, level/ dive/ loft deliveries). The kit consists of Computer Control Group (CCG) & wing assembly attached to standard general –purpose warhead. The CCG is mounted to front of the warhead and is made up of the detector unit, a computer section and the control unit. The wing assembly is attached to the rear of the bomb body. It has range of 8nm with max release altitude of 25000 ft.



### RABTA (C<sup>4</sup>I & AIR DEFENCE AUTOMATION SYSTEM)

GIDS offers a complete C4I system, that can interface all types of sensors (radars, sonars, IR sensors etc), to form a self-healing self-forming intelligent network. System supports upward, downward and lateral flow of information to bring all tiers of command at the same level of situational awareness. The system can interface to weapons as well, to pass on firing and control orders automatically.



### SEA SURGE

It is an air launched anti submarine weapon, which is ideal for use at shallow depth. It can be deployed from either a fixed wing aircraft or a helicopter. It is ideally suited for coastal defence operation and it works on hydrostatic principle.



### INFRARED FLARES

IR Flares provide an aircraft airborne countermeasure capability to dispense flare pellets to prevent interception by heat-seeking missiles.



### DETONICS

GIDS is producing a variety of detonics used for different air force applications like ejection of seats etc. I-28 Cartridge, PPLT Cartridge, EOD Cartridges, Fuze Detonics, RPB-1 Detonics.





**BAKTAR SHIKAN  
ANTI TANK GUIDED MISSILE WEAPON SYSTEM**

Baktar Shikan is an anti-tank missile weapon system with an effective Range of 3km. It pursues the principle of optical aiming, IR tracking and automatically generated, remotely controlled and wire transmitted guidance signals. The system can quickly be dis-assembled into four sub-units, each weighing not more than 25 kgs, thus making the system man-portable. It can also be mounted on Cobra attack helicopters and Armored Personnel Carriers (APCs).



**ROCKET LAUNCHER  
RPG 7**

A portable, Re-usable shoulder launched anti-tank Rocket-Propelled Grenade Launcher; widely used for anti-armor and in irregular operations with Caliber of 40mm Rifle



**LIGHT MORTAR  
M60MM**

Effective support weapon for short and medium range targets with a caliber of 60mm



**MORTAR  
M81MM**

Effective support weapon for medium range targets with a caliber of 81mm



**HEAVY MORTAR  
120MM**

Effective support weapon for long range targets with a caliber of 120.15 mm

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**TI SIGHT FOR SMALL ARMS (TISA-3SA50)**

TISA-3SA50 provides true night vision (thermal Imager) capability for target engagement and general area surveillance in all weather conditions. It is a compact light weight TWS which can be mounted on short range weapons from Small Machine Gun, Rifles, M4 etc.



**THERMAL IMAGER BIOCLULAR (TIB786-1)**

TIB786-1 is a short-range compact and light weight thermal imager-based night vision goggle comprised of 384x288 micro-bolometer FPA detector. This system provides true night vision capability for general area surveillance, perimeter security and border patrol etc. in all weather conditions, both day and night, in the presence of fog, some type of smoke and dust.



**THERMAL IMAGER BIOCLULAR (TIB786-3)**

TIB786-3 is a Long Range compact thermal imager based night vision goggle comprised of microbolometer FPA Detector. It is primarily a hand held device but can also be mounted on Tripod for long missions. It has snap shot and recording feature. It has Light weight and long battery endurance of more than 6h operation.



**LASER RANGE FINDER (LRF)**

AR-3 is a compact, high performance laser range finder that is suitable for stand-alone military-based range finding applications. It is ideally suited for end-users requiring installation to externally mounted platforms. It offers true plug and play compatibility within a host of military based environments.





**FAOD  
(FORWARD AREA OBSERVATION DEVICE)**

FAOD is a compact multi-sensor observation device. It is employed for target GPS coordinates calculation on LCC grid, and forward area surveillance with the help of in-built thermal imager, Day sight and associated sensors.



**VMK  
VEHICLE MOUNTED KITCHEN**

Designed for use by troops in the field. Mounted on 4x4 vehicle with good cross country mobility. A compact unit housing all the required equipment and utensils. It can carry 3 days food rations and fuel for the burners and generator besides 1000 litres of water. It has seating capacity for five kitchen staff.



**MFK  
MOBILE FIELD KITCHEN**

MFK is modular kitchen equipment built on two wheeled trailer, strong enough to sustain cross country tow-ability by 2.5 or 5 ton vehicle. It can cook food viz curry, rice, chappati, tea & fried items etc for 150 persons in two hours.



**PAKFIRE (ARTILLERY FIRE CONTROL SYSTEM)**

PAKFIRE-AFCS is an indigenously developed software application integrating Mil Spec hardware. It meets all operational needs of Artillery, spanning from Observer Functions, Fire Controls at guns to preparation of Fire Support Plan. AFCS also has software modules to manage Tactical and Technical information in geospatial and tabular form for Counter Bombardment and operational reports and returns.



**MILITARY BATTERIES**

GIDS specializes in the designing, development and manufacturing of customized batteries or power sources for military use. The batteries are rigorously tested and produced by ISO certified facilities, maintaining the most stringent international quality control standards. The battery type includes: AgO-Zn, Ni-Cd, Li-MnO2, Li-SOCl2, Li-Ion, Li-Polymer and Thermal Batteries.



**RIBAT (ESM System)**

Electronic warfare is of prime significance in modern warfare, both for tactical and strategic purposes. Electronic Support Measures (ESM) system is the most important EW component required for a variety of ground, surface, underwater and airborne applications especially in maritime scenario. ESM System named RIBAT performs real-time interception, sorting, analysis and identification of Radar signals in dense and complex EM environment. The RIBAT ESM system covers 0.5-18 GHz of frequency band.



**ASTT ( ACTION SPEED TACTICAL TRAINER)**

ASTT is a real time Simulator that provides tactical training to Naval Officers and men in surface, subsurface and air operations. Based on state of the art development techniques the Simulator ensures generation and execution of multidimensional game scenarios in the most realistic sea environments.



**BPS (BRIDGE PILOTAGE SIMULATOR)**

Bridge Pilotage Simulator (BPS) is developed for training of bridge-crew in navigation and other operational tasks. The simulator displays one large synchronised scene replicating the view from the bridge of a surface ship and provides life-like training in real time scenario to naval personnel on navigation, watch keeping and other specific bridge and sea operations.



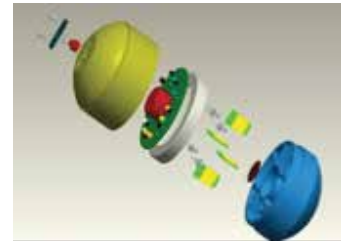


### NAVAL COMBAT MANAGEMENT SYSTEM



Naval Combat Management System is required for sensors data fusion, threat evaluation and weapon assignment. GIDS has developed a Naval Combat Management System (NCMS). Combat Management System – for Sensors Data Fusion, Threat Evaluation and Weapon Assignment. It can be Integrated with all onboard Sensors and Weapons & Data Links. Reconfigurable for Surface and Sub-Surface Platforms.

### ACTIVE & PASSIVE SONOBUOY



Sonobuoy is used for underwater target detection & classification. Sonobuoys can be deployed quickly and over a wide area while providing varied data that can be used to develop an accurate picture of the undersea acoustic environment. It has Sea water activated Battery, manual deployment capability with longer shelf life.

### EXPANDABLE MOBILE ASW TRAINING TARGET (EMATT)



The Expendable Mobile ASW Training Target (EMATT) is used as a target for Anti-Submarine Warfare training in sea to ASW teams. It is a self-propelled underwater vehicle which can be programmed to execute certain manoeuvres according to the selected run geometry. It can be deployed from certain surface and/or aerial platforms. It can be used with active and passive sonars of PN surface ships including PN helicopters equipped with dipping sonars.



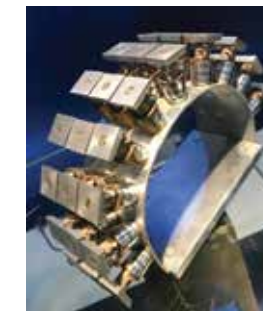
### SONOBUOY ACOUSTIC PROCESSING SYSTEM (SAPS)

The Sonobuoy Acoustic Processing System (SAPS) is a combination of hardware and software that enable users to receive, process, record and analyze underwater acoustic signals transmitted by Sonobuoy(s) over radio frequency (RF) link. SAPS is designed with an Open System architecture and with a powerful COTS Signal Processing capability.



### SLIM LINE TOWED ARRAY (SLTA)

GIDS has developed a Slim Line Towed Array Sonar to address the inherent limitation of the 'Hull Mounted' SONAR due to own noise and environmental conditions of the sea. The design is aimed towards long detection ranges (relevant to the prevailing sea conditions). The SLTA comprises the Wet End sub-system i.e. an Analogue Linear Array towed behind the surface ships and the Dry End sub-system which is the onboard processing hardware.



### SONAR TRANSDUCER & SYSTEMS

Design, development/manufacturing and refurbishment of underwater transducers, hydrophones and sensors for different applications is a rare technology. GIDS developed products feature in a wide range of underwater sonar applications, ranging from echo sounders, towed arrays, Hull mounted sonars, sonobuoys, and mine-hunting sonars.



**NBC DEFENCE & IPE  
(NUCLEAR BIOLOGICAL & CHEMICAL DEFENCE SUIT)**

NBC suit provide physical protection against CBW Agents for 24 hours. It provides protection against direct contact with and contamination by radioactive, biological and chemical substances. It is generally designed to be worn over extended periods to allow the wearer to fight while under threat or under actual NBC attack. It is qualified for service with Pakistan Army as per OPCW Standards.



**BALLISTIC  
HELMET**

GIDS's Ballistic Helmet protects the user from bullets, fragments and provides wearing comfort due to balanced weight distribution, which does not impede the performance of the user. The construction of inner suspension system ensures that a gap is always present between the head and shell, which minimizes the effect of blunt trauma experienced by the user. It includes an adjustable headband and a comfortable chinstrap assembly. The helmet is relatively lightweight and provides maximum comfort, mobility & protection in its class.



**BALLISTIC  
JACKETS**

The ballistic Jackets offered by GIDS are suitable for both military as well as non-military applications. GIDS jackets can be used as a standalone or with Ballistic plates to further enhance protection levels. State-of-the-art technology is utilized to create a product that combines higher protection level with reduced weight. Our product can also be customized to meet customer's specific needs.



**TEAR GAS  
SHELLS**

It can be effectively used by the law enforcement agencies for riot control using 38 mm tear gas gun. The parameters and its characteristics conform to international standards. It is aluminum cased payload enclosed in plastic casing.



**STUN  
GRENADE**

A device to produce loud bang and high intensity illumination which temporarily causes disorientation of the persons and riot control and rescue operations. It is used by tactical and non-tactical forces while in riot control situation. It is available in single bang & six bang configuration.



**EXPLOSIVE &  
DRUG DETECTOR**

Ion Mobility spectrometry based explosive detector and drug detector (IMS EDD) is a portable and rapid response security equipment to detect the presence of certain explosives and drug materials by responding selectively to their traces. IMS EDD is useful for searching trace amount of explosives and drugs stuck to surfaces.



**BARDA  
AUTOMATIC FIRE EXTINGUISHER BALL**

BARDA is a ball shaped fire extinguisher. When a fire occurs; BARDA will self-activate upon contact with flame within 3-10 seconds and effectively disperse the extinguishing chemicals resulting in extinguishing the fire. Additionally, when it comes in contact with fire, it will give a loud noise as a fire alarm. Because of these features, it can be installed in many fire prone areas such as; above electrical circuit breaker or in a kitchen etc. No special training or skill is required to operate BARDA. No inspection or maintenance is required for the product's life span of 05 years.



# WE SPEAK YOUR LANGUAGE

GIDS catalogues are available in the following languages for the ease of our customers

**English Arabic French Spanish Russian**



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