



YEAR BOOK 2021-22



**Ministry of Defence Production
Government of Pakistan**

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Message from the Minister

The defence-manufacturing sector is an important component of Pakistan's industrial base and has demonstrated its potential of meeting the needs of our Armed Forces. The progressive evolution of defence industry is contributing towards making Pakistan self-reliant and an international market of quality defence products. Public-private collaboration in this sector has led to a new era of technological advancement.

On the economic front, the overall performance of Pakistan's defence related manufacturing sector is impressive and inspiring, having recorded a broad-based growth of indigenous and collaborative endeavors. These developments clearly denote the positive growth and success of the defence production industry of Pakistan.

Year book 2021-22 depicts the journey of defence production industry towards indigenization, modernization and self-reliance. May Allah Almighty grant us the strength and resolve to contribute towards a strong, secure and prosperous Pakistan.

**Lieutenant General (Retd)
Anwar Ali Hyder, HI (M)
Federal Minister**



Foreword by the Secretary

Pakistan's defence industry was established with an aim to achieve self-reliance in critical fields. Over the years, this journey of self-reliance has equipped the defence industry to not only meet indigenous market demand, but also enhance its export potential. Today, Pakistan's defence industry is producing high quality weapons, ships, aircraft, communication equipment and war fighting systems for local as well as international market. By the grace of Allah Almighty the industry has performed well during the last year despite the economic challenges.

I feel immensely pleased to present the "Year Book 2021-22" of the Ministry of Defence Production (MoDP). It contains a brief introduction of the Ministry and an account of its performance during the said period. This book provides requisite information regarding the achievements of MoDP, mainly related to self-sustenance according to the mandate of MoDP. I acknowledge concerted efforts of concerned officers and staff in the preparation of this book.

Feed-back and the suggestions are welcome and shall be given due consideration.

**Lieutenant General (Retd)
Humayun Aziz HI (M)
Secretary**

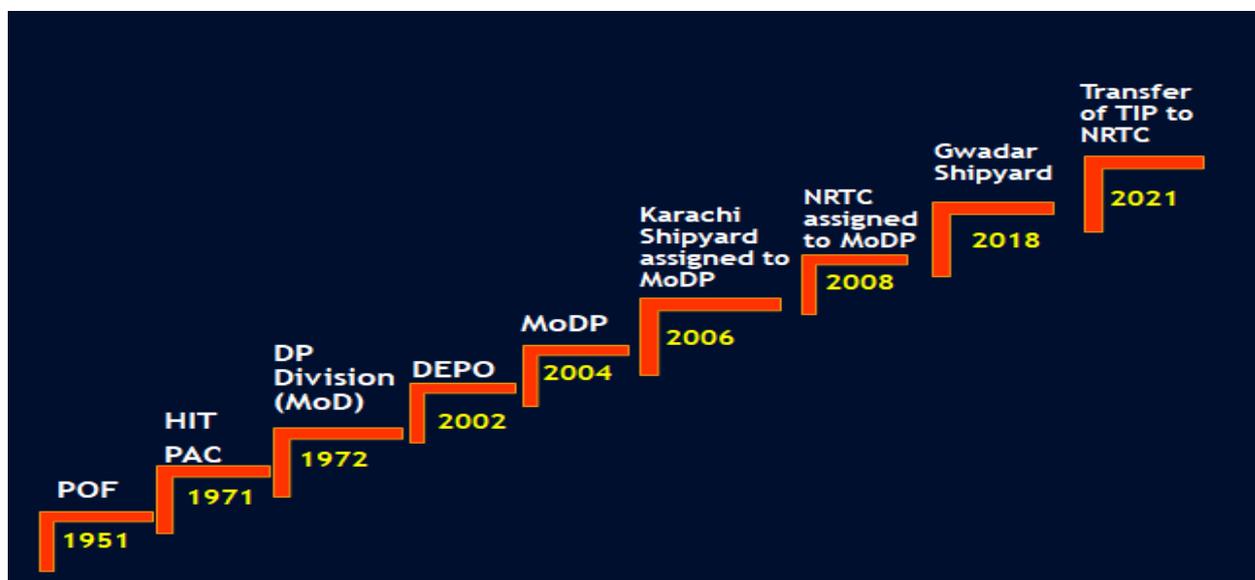
PART – I

MODP AND ITS ALLIED DEPARTMENTS/ORGANIZATIONS

“Against them make ready your strength to the utmost of your power, including steeds of war, to strike terror into the hearts of the enemies of Allah and your enemies, and others besides them, whom you may not know, but whom Allah does know. Whatever you shall spend in the cause of Allah, shall be repaid unto you, and you shall not be treated unjustly.”

Al-Quran (8:60)

- 1. Existing Defence Production Sector of Pakistan.** After the partition all Sixteen (16) Ordnance factories went under Indian possession, since not even one of them was situated in Pakistan. The indigenous development of arms kick-started with the establishment of Pakistan Ordnance Factories (**POF**) in 1951 to produce the required munitions /ammunitions for the Defence Forces and Law Enforcement Agencies. 1965 & 1971 Wars further strengthened the resolve of achieving self-reliance in the defence production capabilities and diversifying sources of military procurements.
- 2. Defence Production Division** was established in 1972, under Ministry of Defence with an aim to supervise defence production and procurement activities to accelerate pace of technological development for achievement of greater self-reliance through indigenization. Later, Defence Production Division was elevated to the status of **Ministry of Defence Production (MoDP)** in 2004 to spearhead the defence production / indigenization efforts.
- 3. Expansion in Defence Production under MoDP.** Since inception, MoDP has undergone vast expansion in quest of its aim and objectives which is illustrated below:-

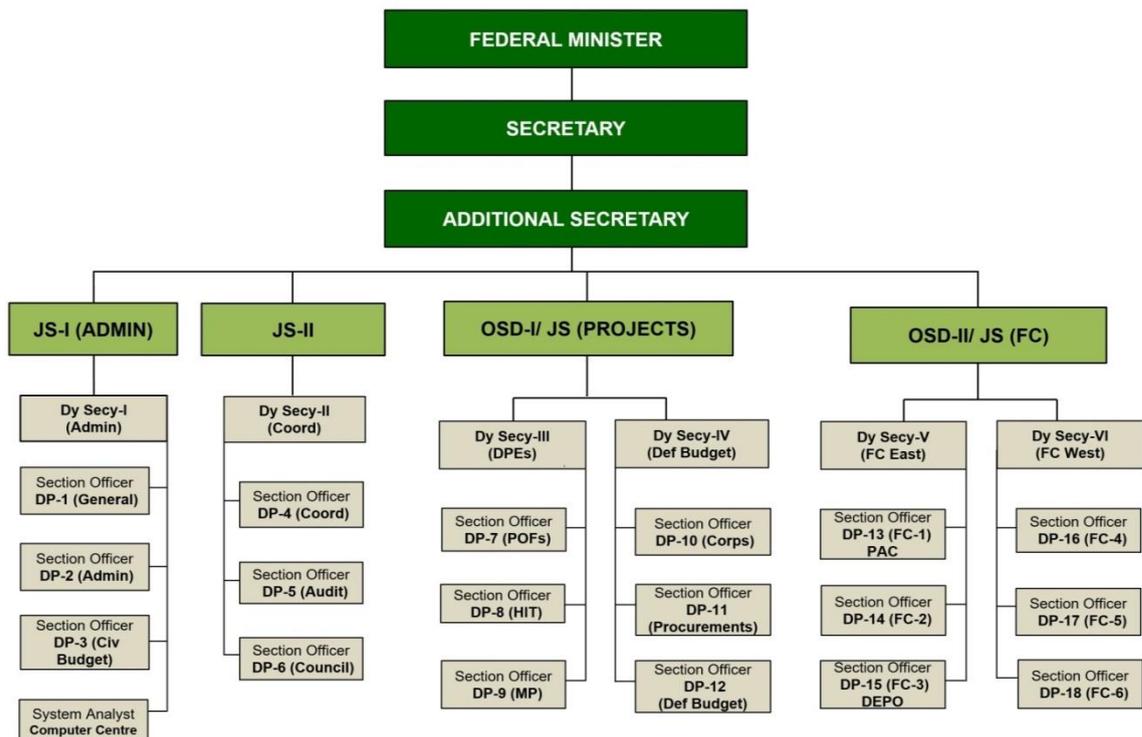


4. **Mandate of MoDP.** To meet the requirements of armed forces through indigenous production as well as foreign / inland procurement and to **export surplus capacity to friendly countries.**

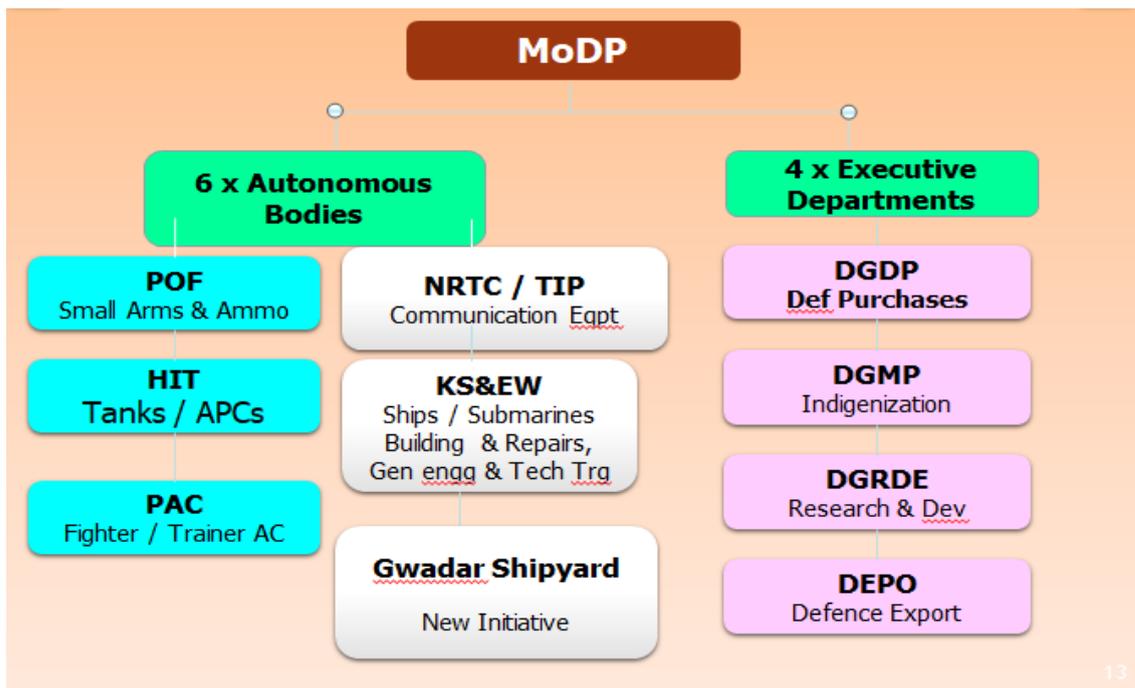
5. **Key Functions of MoDP**

- a. Formulation and execution of **policies** related to Defence Production.
- b. **Indigenous production** and manufacturing of defence equipment / stores.
- c. **Procurement** of defence equipment / stores for Defence Forces.
- d. **Research & Development** related to defence equipment / stores.
- e. **Coordination** of defence scientific research with civil scientific research organizations.
- f. Declaration of **industries** for defence and war.
- g. Negotiations of agreements / MoUs for **foreign cooperation and collaboration in Defence Production and Procurement.**
- h. Loans for purchase of military stores and Transfer of Technology (**ToT**).
- i. **Export** of defence products including marketing and promotion of activities relating to export of defence products.
- j. Coordinate and monitor activities of all Defence Production's Executive Departments and Autonomous Bodies

6. **Internal Structure of MoDP**



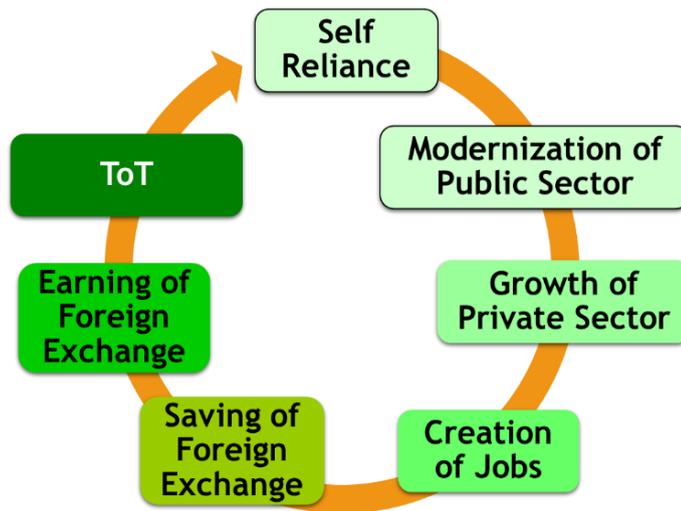
7. Executive Departments and Autonomous Bodies



8. **Vision of MoDP.** Aligned with the vision of Federal Government, the vision of MoDP is "to facilitate Defence Production Sector that collateralizes local Defence Industries with the Defence needs of the Armed Forces through Public Private Partnerships and contributes toward national security and economy".

9. **Key Objectives Derived from the Vision.** In line with the vision, MoDP started a focused campaign for a self-reliant / self-sustained defence production industry along with increasing job opportunities, generation of revenue, decreasing dependence on imports and increasing the exports to earn foreign exchange. Accordingly, following key objectives were set for the defence production sector:-

- a. **Modernization of Public Sector** Defence Industry to fulfil needs of Armed Forces at an affordable cost.
- b. Sustainable **growth of Private Sector** Defence Industry through public-private interface.
- c. Optimal self-reliance through **R&D / ToT / Offsets.**
- d. Minimize burden on national exchequer through **earning / saving of foreign exchange** from defence exports and import substitution.
- e. Boost national economy through **industrialization and employment generation.**
- f. Streamline the procedures for maximum Ease of Doing Business (**EoDB**).



10. Goals. Major goals are to achieve self-reliance and self-sustenance in defence production:-

- a. To achieve **Self Reliance** through :-
 - (1) Revitalization of Public Defence Industry.
 - (2) Growth of Private Defence Industry.
 - (3) Gradual indigenization using R&D, ToT, Offset, Human Resource Development etc.
- b. To achieve **Self Sustenance** through:-
 - (1) Enhanced Defence Export.
 - (2) Corporatization.

PART – II
AUTONOMOUS BODIES OF MODP

1. **Pakistan Ordnance Factories (POF) Wah.** Established in 1951, it produces Arms & Ammunition for all three Services and Law Enforcement Agencies. It has 14 x factories and 12 x subsidiaries. Main production items include rifles, machine guns, rocket launchers, mortars & their ammunition as well as tank / artillery munitions.

a. Fourteen (14) Factories

- (1) Medium Artillery Ammunition Factory
- (2) Heavy Artillery Ammunition Factory
- (3) Tank/Anti Tank Ammunition Factory
- (4) Bombs & Grenades Factory
- (5) Small Arms Ammunition Factory
- (6) Weapons Factory
- (7) Machine Gun Factory
- (8) Explosives Factory
- (9) Propellants Factory
- (10) Tungsten Alloys Factory
- (11) Brass Mills
- (12) Clothing Factory
- (13) Filling Factory
- (14) Carbide Factory

b. Twelve (12) Subsidiaries

- (1) Wah Industries Ltd
- (2) Wah Brass Pvt Ltd
- (3) Hi-Tech Plastic Factory
- (4) Sanjwal Solar Power Pvt Ltd
- (5) Wah Construction Pvt Ltd
- (6) Wah Security Services
- (7) Wah Nobel Chemicals Ltd
- (8) Wah Nobel Acetates Ltd
- (9) Wah Nobel Balochistan Explosives Pvt Ltd
- (10) Wah Nobel Gilgit Baltistan Pvt Ltd
- (11) Nobel Energy Ltd
- (12) Gezhouba Wah Nobel Blasting Pvt Ltd

PICTORIAL – POF PRODUCTS



Machine Gun MG1A3



Rifle G3A3



Sub Machine Gun MP5 A2



DMR - Designated Marksman Rifle



12.7 mm Anti Aircraft Machine Gun



.308 Win Sporter Hunting Rifle



POF - 4 9 mm Pistol



POF - 5 9 mm Pistol



POF Eye



LSR-Light Sniping Rifle



7.62 x 39 mm Ball



7.62 x 39 mm Ball & Tracer



7.62 x 54 mm Ball & Tracer



9 x 19 mm Ball



105 MM HE TK P1A1



105 mm APFSDS P1A1



125 mm HE FS TK



125 mm APFSDS/T



Tungsten Alloy Penetrator & Rod



7.62 x 39 mm Blank



25 Pounder



105 mm Howitzer



122 mm Howitzer Type 54



122 mm Howitzer D-30



130 mm Gun



155 mm Howitzer



40 mm HEAT P1 Mk1 (RPG-7P)



73 mm HE SPG-9



73 mm FSRA HEAT SPG-9 (RAAD)



122 mm HE (MBRL)



60 mm HE P2A1



60 mm Smoke



60 mm Illuminating



81 mm HE



81 mm Smoke



81 mm Illuminating



120 mm HE



120 mm Smoke



Training (Inert)



Arges Grenade



12.7 X 108 mm Anti Aircraft



2 x 120 mm Phalanx



Aircraft Ammunition 23 mm



Aircraft Ammunition 30 mm



Bomb HE GP 500 Pounds



Bomb HE GP 1000 Pounds



Anti Aircraft 37 mm HE/T



2. **Heavy Industries Taxila (HIT)**. HIT was established as a Heavy Rebuild Tank Factory in the early seventies. The idea was to rebuild Chinese origin T-59 Tanks and later series production also started in 1979. Over the time HIT has developed 8 x Factories, 6 x Directorates, 1 x subsidiary unit and 1 x Education Welfare Trust.

a. Eight (08) Factories

- (1) Tank Manufacture Factory.
- (2) Armoured Personnel Carrier Factory
- (3) Gun Manufacturing Factory
- (4) Heavy Rebuild Factory T-Series
- (5) Heavy Rebuild Factory M-Series
- (6) Advance System Rebuild Factory
- (7) Development, Engineering Support and Component Manufacturing
- (8) Advance Research, Development and Information Centre

b. Six (06) Directorates

- (1) Technical Dte
- (2) Adm Dte
- (3) Commercial Dte
- (4) Procurement Dte
- (5) Budget Dte
- (6) Security Dte

PICTORIAL –HIT PRODUCTS



APC Manufacturing Factory



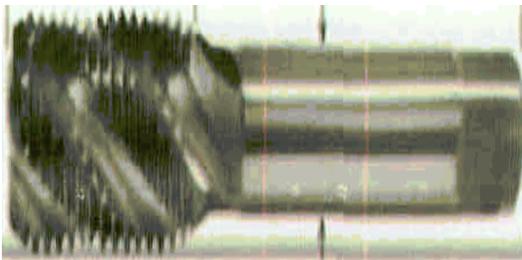
Gun Manufacturing Factory



Tank Manufacturing Factory



Spare Parts



Specialized Tools



Manufacturing of Artillery Gun Barrel

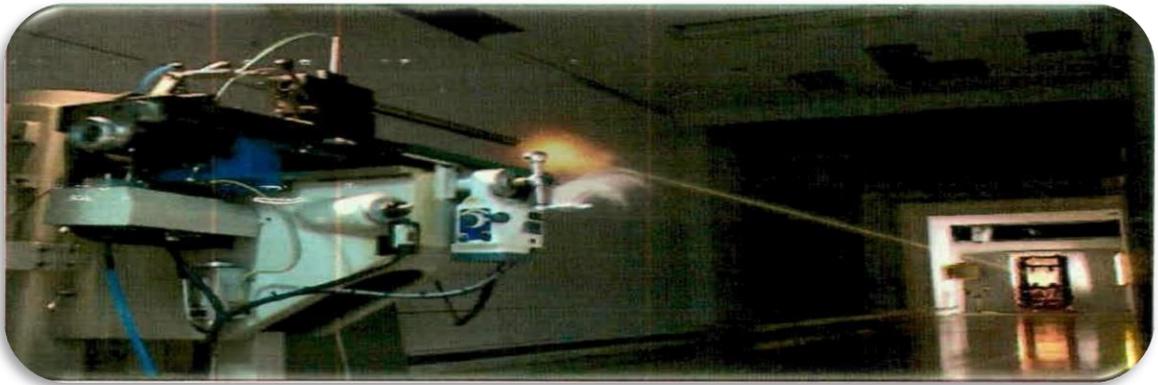


Protection Enhancement Solutions for Tanks

Bullet Proof Vehicles



Discrete Armoring / IED Protection of Toyota Hilux



Establishment of Ballistic Effect Testing Lab (EBTL)



Tank Al-Khalid



Tank Al-Khalid 1



Tank VT4



Tank T-85 IIAP



ARVs W-653



Tank T-69 IIMP



APCs M113P



Maaz BSWS Carrier



Mouz RBS-70 Carrier



Comd Veh Sakb



Log Veh Al Qaswa



ARV Al Hadeed



Rebuild Tank T-59



Rebuild Tank Al Zarar



Rebuild Tanks T-85 IIAP



Rebuild Tank T80 UD



APC M113 Family



SP Guns M109A2



ARVs W-653



ASV Mohafiz



ASV Interceptor



ASV Protector



ASV Dragoon



APCs Talha



AGP Ahan



**Bullet
Proof
Jackets**

3. **Pakistan Aeronautical Complex (PAC) Kamra**. Established in 1972, it produces, rebuilds, and overhauls the fighter and trainer aircraft for PAF and Army Aviation. It has 4 x factories. Its main products are JF-17 thunder and Mushshak aircraft. At present, PAC Kamra consists of a wide complex comprising four factories, and an Aviation Design Institute (AvDI) namely:

a. Four (04) Factories

- (1) Aircraft Rebuild Factory (ARF)
- (2) Mirage Rebuild Factory (MRF)
- (3) Aircraft Manufacturing Factory (AMF)
- (4) Avionics Production Factory (APF)

b. One (01) Institute

- (1) Aviation Research Indigenization and Development Center (AvRID Center)



PICTORIAL – PAC PRODUCTS



Mashshak Aircraft



JF-17 Thunder Aircraft



K-8 Aircraft



Maintenance, Repair & Overhaul



Upgradation / Retrofit



Maintenance of AW-139 Helicopter

4. **National Radio Telecommunication Corporation (NRTC) Haripur.**

Established in 1966, it develops communication equipment / IT Solutions. It has 2 x factories which produce radio sets, jammers, sensors etc. Its main products are software defined radio sets and LMRs.



PICTORIAL – NRTC PRODUCTS



5. **Karachi Shipyard & Engineering Works (KS&EW)** Karachi Shipyard and Engineering Works Ltd came into existence as a project of Pakistan Industrial Development Corporation (PIDC). It was incorporated as a Public Limited Company in 1957 under Companies Act. In the year 1960, first vessel, named "MAHRUL BAHR" was constructed and delivered to KPT. Since then, KS&EW has constructed over 500 ships and repaired over 5000 ships of various types including commercial vessels. KS&EW is the sole shipyard and the largest industrial engineering complex in the south of Pakistan, catering to the needs of Shipbuilding, Ship Repair, Submarine Construction, General Engineering, Material Testing and Customized Technical Training of the country. Its matters are dealt in accordance with the Companies Act, 2017 and Public Sector Companies (Corporate Governance) Rules, 2013. KS&EW is operated as per Integrated Management System (ISO 9001: 2015, ISO 14001: 2015 & ISO 45001: 2018), certified from M/s Lloyds Quality Assurance. KS&EW is striving to promote maritime industrial sector and thus making its humble contribution towards Blue Economy of Pakistan.



PICTORIAL –KS&EW PRODUCTS



Jinnah Class Frigate (JCF)



Fast Attack Craft (Missile)



17,000 Tons Fleet Tanker



1500 T Maritime Patrol Vessel



F22P Frigate



Milgem Class Corvette



Gun Boat



Multi-Purpose Auxiliary Craft Missile



Coastal Oil Tanker



PNT Goga



48 Ton Bollard Pull Tug



Multi-Purpose Barges



SLTS Facility



Harbour Utility Vessels



Dredge Tender



Small tanker Cum Utility Ships



Sugar Rollers and Steel Billets



Floating Dock



**Stadiums flood light and wind turbine
Towers**



Sukkur Barrage Gates

6. **Gwadar Shipyard.** Process for establishment of a large scale shipyard on PPP mode has been initiated. The shipyard will have capacity of construction as well as repair of ships up to 600,000 dwt.
7. **Telephone Industries of Pakistan (TIP).** Telephone Industries of Paksitan (TIP) was established in 1953 as Private Limited Company under the Company Act 1953 (Now the Companies Act 2017). TIP was working under administrative control of Ministry of Information Technologies & Telecommunication (MoIT&T) till Nov 2021. In order to revitalize TIP, Federal Cabinet approved transfer of TIP to MoDP (NRTC) in Sep 2021 and accordingly MoDP (NRTC) assumed the charge of TIP wef 3rd Dec 2021.
8. **Commercial Subsidiaries**
 - (1) Wah Industries Limited – A subsidiary of POF.
 - (2) Wah Nobel Limited - A subsidiary of POF.
 - (3) Margalla Heavy Industries Limited - A subsidiary of HIT.
 - (4) Kamra Aviation Industries Limited (KAIL) - A subsidiary of PAC.
 - (5) Telephone Industries of Pakistan (TIP) – A subsidiary of NRTC.

PART – III
INITIATIVES / ACHIEVEMENTS

1. **Operational Improvements in Autonomous Bodies**

a. **POF**

(1) **ToT of Gun & Tk Ammo**

- (a) ToT absorption for ammunition manufacturing of new guns at POF is in process.
- (b) ToT of ammunition manufacturing for **VT-4 Tanks** is progressing smooth.

- (2) **Modernization of POF.** POF has spent substantially on upgradation of its infrastructure and machinery, thus increasing its output and reducing cost. 2 x Directorates i.e. Production Directorate and Commercial Directorate were established in 2019 which have proved extremely useful in enhancing the production as well as commercial activities. Acquisition for the latest arms and ammunition technologies and phased modernization production units is under process.

b. **HIT**

Initiatives

(1) **Balancing, Modernization and Revamping (BMR).**

Renovation, up- gradation of almost all facilities has been carried out for enhanced efficiency / diversification. Major aspects are: -

- (a) Production optimization through assembly line balancing and incorporating revised quality assurance / control mechanism.
- (b) Infrastructure uplift.
- (c) Up-gradation of mechanical / technical facilities and capacity enhancement.

- (2) **Structural Reforms.** Structural reforms have been implemented during last 2 years for enhanced efficiency and output. Salients are as under: -

- (a) Preparation of Annual Procurement Plan to afford:-

- i Re-alignment and synchronization of procurement with production.

- ii Effective monitoring, fiscal discipline and technical control mechanism.
 - iii Reduced procurement execution delays through procedural re-alignments.
 - (b) Performance based Career Management Regime of civil employees.
 - (c) Revision of HIT Service Rules and TO&E to incorporate latest requirements.
- (3) **Establishment of Margalla Heavy Industries Limited (MHIL)**
Before September 2019, commercial activities were restricted to utilizing surplus capability of HIT only. In September 2019, HIT Act was amended and Margalla Heavy Industries Limited (MHIL) was established as commercial face with aim to expand commercial activities both inland and abroad on fast track. Revenue earned is utilized to contribute to Defence Budget, Research & Development and capacity enhancement / upgradation. The entity was established in December 2020 and is registered with SECP. Till date MHIL has secured contracts worth Rs 1.82 Billion.
- (4) **Centre of Excellence for Design and Integration of Combat Solutions for Military Vehicles.** Limited R&D facility already exists in HIT (Advance Research Development & Information Centre; ARDIC). Same is being upgraded into Design and integration Centre for Development of combat solutions for Armored Fighting Vehicles. Limited Transfer of Technology (newly inducted Tank VT4) is provided by China.
- (5) **Indigenization.** HIT is continuously endeavoring for self-reliance and cost reduction with time-based deletion plans through indigenization. This includes manufacture of in-house items and development of parts and components through downstream industry including following:-
- (a) **Spare Parts.** Since inception, more than 27,000 parts have been indigenized through enabling and engagement of more than 750 local industries in defence manufacturing, thus generating huge economic activity in the country, besides attaining self-reliance and maximizing import substitution.
 - (b) **Specialized Tools.** HIT ventured in this field to fulfill critical

requirement of industry both inland and abroad which includes in-house manufacturing of specialized tools of sophisticated industrial machines.

Achievements

(1) **Defence Production**

(a) **Manufacturing Projects**

- i. Tank Al-Khalid 1
- ii. Command Vehicles SAKB
- iii. 155mm Artillery Barrels

(b) **Rebuild / Upgradation Projects**

- i. Rebuild and Upgradation of Tanks and Tank Engines
- ii. Protection enhancement of Tanks
- iii. Rebuild of SP Guns, Tank Guns & APCs
- iv. Upgradation of ARV
- v. Modification / Upgradation of Commander / Gunner Sights

(2) **Commercial Production**

- (a) ASVs (Protector / Mohafiz)
- (b) Bullet Proof Helmets (BPH)
- (c) Tooling Items

c. PAC

(1) **JF-17 AIRFRAME Co-Production Project.**

Currently Production Block-III aircraft is underway. The production of 08 Block-III single seat aircraft had already been completed in Dec, 2021.

(2) **Production & Misc Components**

S No.	Task	Remarks
1	JF-17 Aircraft	
2	SMK Aircraft	
3	Glass Cockpit Modification and up-gradation of Pak army (MSK) aircraft	02 Dynon Mod,01 Genesys Mod -
4	Major Repair of MSK /SMK Aircraft	-
5	Fuselage Repair of PAF & Pak Army Aircraft	PAF:05 Army:02
6	Repair / Support of PAF & Pak Army Aircraft	-
7	Onsite Repair of PAF & Pak Army Air by AMF team	-

(3) **MRO Facility of Pakistan Aeronautical Complex Kamra.**

Maintenance, Repair & Overhaul (MRO) facility is being established by PAC Kamra at Islamabad International Airport for the commercial airliners.

(4) **Savings 2021-2022.** PAC Kamra has saved valuable foreign exchange during last one year, through import substitution and indigenization.

d. **KS&EW**

(1) **Karachi Shipyard & Engineering Works (KS&EW) Transformed from a Sick to Thriving Unit.**

KS&EW was placed under Ministry of Defence Production (MoDP) in August 2006. Since then, it has made a remarkable turnaround from sustaining losses to a profit making entity of MoDP. KS&EW is achieving the National goal of self-reliance and indigenization in maritime sector.

(2) **Ship and Submarines Construction**

Since inception, KS&EW has constructed over 500 x vessels including ships and submarines of different types, sizes and capacities. It is worth mentioning that, in the recent past KS&EW has indigenously constructed 17000 T Fleet Tanker and Fast Attack Crafts (Missile) with indigenously developed Harbah weapon systems.

(3) **Ship Repair / Refurbishment and Ship Lift / Transfer System**

(a) **Ship Repair & Refurbishment**

KS&EW has a comprehensive setup for repairing, rebuilding and overhauling of naval and commercial vessels with high quality standards. Facilities include 02x drydocks, 02x quay walls and luffing cranes / lifting equipment along-with modern tools for the execution of above and under water repairs. Till date, KS&EW has repaired over 5000x vessels by including more than 430x foreign flag carriers as well.

(b) **Ship Lift & Transfer System (SL&TS)**

The project was completed in June 2021 at the total cost of Rs. 9 billion and has enhanced the repair capacity of KS&EW to the great extent, previously only two dry docks were available for under water repair work. Now this state-of-the art system can simultaneously accommodate 12 x ships on dedicated stations.

(4) **General Engineering**

KS&EW can rightly be called "the major heavy mechanical engineering industry of Pakistan".

KS&EW has recently completed EPC project of 6x River Sluice Gates Replacement at Sukkur Barrage designed by Consultant ACE-NDC (JV) Australia; under the overall project management by World Bank.

Since 2018 till to date, 6 ships have been manufactured and earned revenue in billions by Karachi Shipyard & Engineering Works Ltd.

- e. **Gwadar Shipyard** Pakistan has a coast line of 1064 Kms and heavy international shipping pass close to this area. These ships require drydock / repair enroute. In this regard, Gwadar is an ideal location for shipbuilding/ repairs activities as it is located at the mouth of Persian Gulf. Accordingly, GoP has approved the construction of shipyard at Gwadar.

In the above background, Establishment of Project Management Cell (PMC) for Creation of Gwadar Shipyard through a PC-1 amounting to Rs 773.25 M has been approved.

PMC office at Rawalpindi and Site Office at Gwadar has been established and are functioning. Furthermore, an MoU has been signed with GoB for

transfer of land to MoDP for construction of shipyard.

f. **NRTC & TIP**

NRTC has become a role model being self-sustainable enterprise. NRTC is venturing into new and diversified products like RFID number plates, safe city projects and Artificial Intelligence solutions. TIP has also been taken over by NRTC and is now being reactivated for production activities.

2. Major Initiatives / Achievements by MoDP

- a. **Inclusion of ToT in Big-Ticket Contracts.** ToT is now being made part of all big-ticket items in order to ensure self-reliance.
- b. **Empowerment of BoDs.** POF and HIT BoDs now being made more dynamic, responsive & forward looking through required amendments in Acts, rules, and procedures.
- c. **Revision of Manuals.** DPPI is being revised.
- d. **Engagement with Govt / Legislative Bodies.** MoDP is extensively engaged with the standing committees of NA & Senate and Cabinet Committee of Institutional Reforms in which different issues deliberated / resolved.
- e. **Policy Formulation**
 - (1) Defence Production Policy - 1st Draft under consideration
 - (2) Offset Procedures - Final consultation in progress.
 - (3) Single Registration Procedure - Being simplified.
- f. **Savings to National Exchequer.** MoDP and its allied departments have made substantial contributions to national exchequer by huge savings through import substitution, procurement negotiations, exports, and taxes / duties.
- g. **Commercial Earnings.** An unprecedented boost in the **Defence Exports** and was accomplished.
- h. **Corporate Social Responsibilities.** A substantial amount is also spent annually on quality education, medical facilities, respectable living, and welfare of over 50,000 employees.

Education	Health	ACCN	Miscellaneous
<ul style="list-style-type: none"> 4 x Universities 15 x Colleges 140 x Schools 	<ul style="list-style-type: none"> 3 x Hospitals (1400 beds) Free treatment / Medicines to around 1 Mn 	<ul style="list-style-type: none"> 22,000 houses 	<ul style="list-style-type: none"> Civic Facilities Security Conveyance Scholarships 

PART – IV

PICTORIAL OVERVIEW OF MISC ACTIVITIES



Nigerian delegation visiting POF



Rolling out of Alkhalid Tank at HIT



COAS Visiting HIT



Team of KS&EW at work



Rebuilding of a Self-Propelled Gun at HIT



Tank overhaul at HIT



PAC team at work



Uplift of KS&EW



**Launching of Milgem Class
Corvette at KS&EW.**



Team of KS&EW at Work