

CHANAKYA
47th
YEAR

THE CHANAKYA Aerospace

42nd Year of Monthly

15 MARCH 2016

RN 26625/75
Vol: 42 No. 3

Rs. 140.00

DEFENCE & Maritime Review

India's Leading Military & Civil Aerospace, Defence & Naval News Magazine



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JSC "Shipbuilding & Shiprepair Technology Center": Military Technical Cooperation with Foreign Countries

by Mikhail V. Aleksandrov, Denis B. Kuzmin, Vyacheslav V. Voronov

For many years, economic relations with foreign partners are the main field of JSC "Shipbuilding & Shiprepair Technology Center" (JSC SSTC) activities.

Key factor of JSC SSTC steady foreign cooperation growth is result of carrying out of full range of works, related to setting up of infrastructure facilities for foreign customers (including ship-

- Supply of technological, power and general-purpose equipment, special outfitting and tools;
- Installation, start-up and commissioning of supplied equipment;
- Development of repair and operational documentation;
- Training of customer's specialists both in Russia and in customer's country;

- Supply of spare parts and materials, required for proper object functioning;
- Consulting the customer when operating the project;
- Warranty and service maintenance of supplied equipment.

Value of works, carried out by JSC SSTC in the field of military-technical cooperation in last years exceeds 0.5 billion US Dollars.

Following foreign projects were successfully executed with participation of JSC SSTC:

- Ship Repair Yard for medium repair of Submarines in Iran;
- Technical positions for maintenance of state-of-the-art Missiles and Torpedoes for Surface Ships and Submarines in India and China;
- Shipbuilding complex for construction of vessels with special propulsion plant in India;
- Submarines and Surface Ships armament repair facilities in India;
- Submarines Naval Base in



3D Model of X-52 Dockyard, Rendered by Vietnam Specialists

building, basing and repair). The same is carried out in frames of military technical cooperation through Governmental Agency JSC "Rosoboronexport". Integrated approach to projects execution is most demanded by foreign customers and strengthened positions of JSC SSTC as a reliable, and not an up-to-the-minute partner, targeted on perspective long-term cooperation.

For the last 10 years we successfully executed many contracts, and presently JSC SSTC is acting as a head company when carrying out works for the foreign customers as follows:

- Development of technological and design documents;

Vietnam.

At the present, main partners of JSC SSTC in the field of military technical cooperation are Vietnam and India.

In frames of military technical cooperation with Vietnam, JSC SSTC developed and defended project documentation for setting up of yard for Surface Ships and Submarines repair, construction is now in process, also JSC SSTC already signed the contracts for supply of equipment, documentation, deputation of Russian specialists in Vietnam and training of Vietnamese specialists in Russia and Vietnam.



Modernisation of Aircraft Carrier Vikramaditya being undertaken earlier for the Indian Navy

Trends of military technical cooperation with India are as follows:

- Facilities for basing and repair of Aircraft Carrier Vikramaditya - design documentation and repair documentation are developed, equipment is supplied, now installation and setting to work of the same is going on;
- Indian Navy Training Center Valsura (INS Valsura) - design documentation is developed, training equipment is supplied, now installation and setting to work of the same is going on. Object commissioning is scheduled in this year;
- Indian Indigenous Aircraft Carrier (IAC-1) - the manufacturing of ship equipment is going on, as well as development of design documentation (in cooperation with JSC NDB);
- Test Programs Sets are being developed for the purpose of diagnostics of electronic modules of different ships, part of those programs is a subject of joint development with Indian companies;
- Execution of contracts for modernisation of armament repair facilities for repair of Surface Ships and Submarines Weapon Systems in Mumbai and Vishakhapatnam is in progress.

Also JSC SSTC carried out preliminary works and prepared techno commercial offers for setting up of on-shore infrastructure in Kazakhstan, Turkmenia, Indonesia, Algeria, Myanmar, Brazil; in case with Venezuela we have almost finished pre-design of Submarines Naval Base in Turiamo, which can be built upon favourable conditions.

JSC SSTC has significant experience in development of software for maintaining full life cycle of ships - from design stage to disposal of the same. For many years we develop methods of ship's technical systems and production procedures modeling, we work out new forms of information representation in functional technological and production documents as well as in interactive technical documentation.

Presently specialists from JSC SSTC and Russian industrial enterprises have jointly improved quality of pre-contract work with customers, quality of design, repair and operational documentation of Naval Equipment, which is handed to the customer; the same was carried out with consideration of international standards requirements. Works, carried out by JSC SSTC with regard to optimization of hi-tech service operations and repair of complex ship's systems, allowed to unify electric equipment diagnostics tools and to implement automated test equipment in design and manufacture of these diagnostics tools.

Permanent improvement of exported products after sales support is also priority trend for JSC SSTC.

In view of above principles and developments, JSC SSTC makes its best in basing its foreign economic policy on the knowledge of market requirements, structure and scope, demand and supply trends, JSC SSTC is going to strengthen and expand its positions on the world market in future - both in military technical cooperation and in commercial shipbuilding.