



ADD: 7th Floor, Block A No. 591, Xuechuan Road, Shanghai, 201200 in China
Tel: +86 21 60038002-033 Fax: +86 21 90033000 www.arkprefab.com

Ark MEMBERS OF ARK GROUP:
ARK(CHINA)COMPANY LTD.

TURNKEY CASE STUDIES
EPCC FOR FACILITIES PACKAGE
OBC- RAM & STAROIL, Sudan



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Ark provides modular building solutions for a wide variety of industries. We serve as your general contractor, offering an alternative to traditional construction methods and providing complete support on each project.

CLIENT NEED

Star Oil is a joint venture of enterprise locally in Sudan, who wanted to build an OBC (Operations Base Camp) near her oil tank in Barassa in southern Sudan. This Facilities Package OBC camp aims to provide full camping services for Star Oil's staff on site permanently.



Ark turnkey Solutions

Ark team met with RAM Project Manager and Procurement Manager and Star Oil Project Manager to figure out what has been engineered for the whole OBC camp and what has to be required to complete the construction of the camp, based on the concept that the construction of the camp needs to be strong & cost-effectively.

Our engineering department had also designed the each and every aspect of this project, compliant with the client's engineering requirements.



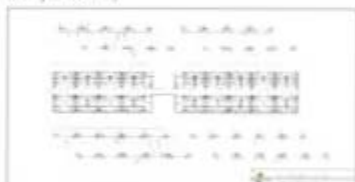
Foundations Drawings
(We've calculated the foundations dimensions for all the respective blocks, with units' center-to-center distance and between units distance counted).



Electrical Drawings (In accordance with the client's Electrical Engineering, we had given a proper and acceptable electrical solution for the camp supply).



Planting Drawings (In accordance with the client's planting needs, we had given a reasonable and best-site planting resolution for the project, with all drains holes going down directly to the earth).



After finishing the modular cabins for all the buildings on the camp, we turned to visit and finalize the vendors for the associated services and equipments in the prefab buildings of Ark for the OBC camp. There are 14 prefab buildings in total, and 8 pre-engineered steel structure buildings for the whole camp.



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PREFAB BUILDINGS:

Single Accommodation Building, Double Accommodation Building, VIP Accommodation Building, Administration Building, MOSQUE Building, Ablution Building, Laundry Building, Restaurant Building, Recreation Building, Clinic Building, Workshop/Warehouse/Laboratory/Guard Unit.



PRE-ENGINEERED STEEL STRUCTURES:

Substation, High Voltage Tower, Workshop, Warehouse, Parking Area, 4 @ Guard Tower Building.



ASSOCIATED SERVICES AND EQUIPMENTS

Roofing System, pitching roofs with gutters and eaves on both sides of the buildings.



PREFAB BUILDINGS

ELECTRICAL SYSTEM,

Including the master power cabinet of the building and the power panel system to all rooms, and the power points etc.



PLUMBING SYSTEM

Including the Hot and cold piping of the building itself Sanitary Ware, including shower sets, wash basins, toilets and water heaters;



GYM EQUIPMENTS,

Including 5-Station Integrated Training Machine, Treadmill, Upright Bike, Flat Press Bench, Weight Sets & Plates, toilets and water heaters;



FURNITURE

Furniture, including beds, writing tables, TV sets, wardrobes, writing lamps, TV sets, meeting tables, chairs, mattress, working tables, writing boards, books shelves, shoes rack, speaking podium, long benches, eating tables, fridges, presses, A/Cs etc.;



LAUNDRY EQUIPMENTS,

Including ironing tables, ironing machines, washing & dry machines etc.



CLINIC EQUIPMENTS

Including Six Cabinets, Air Flow cabinets etc.



KITCHEN EQUIPMENTS,

Including the whole set cooking equipments etc.

LOW CURRENT SYSTEMS & DEVICES

Including MATV system devices, Structure Casing devices, Telephone system devices, PAGA (public address) system devices, Fire Alarm system devices, and their configurations.

Regarding the low current systems, we also got professional low current engineering from our sub-ventures at the first stage, and that we provide available low current drawings to the client according to the building floor plans & sizes.



All above had been based on the general supplying system of ark. After or even before the shipments, since we've been in the process of subcontracting the installations of ark prefab buildings and associated services and equipments, ark had already begun organizing the site-installation team for each and every aspect of the job, including the low current systems as ark has got her own experienced installation team of prefab buildings.

Proper Construction Period Control

The erection of the Ark prefab buildings had been done at first, at which stage the crane lifts were also processed at the same time onto the foundations, then the paneling was carried out with all of them had also been fabricated in the plant, so that the electricians can do their electrical works, also at the time the roofing system was assembled, multi-teams were moving forward at the same time at this stage. Only in this way the construction period could be controlled and achieved in the goal.



Commissioning:

As soon as all installations had been completed, commissioning of the whole electrical system, sanitary areas and all the electrical equipments, including the Kitchen equipments and Gym equipments, were continued since the power substation for the whole CEC camp was ready for supplying power. Also the five low current systems were tested.

Turnkey

After a long journey struggle with the harsh conditions, and also sometimes laboring issues, Ark had completed her scope with the subcontract from RAK.

With a support of designers, engineering managers, project managers and site installers, Ark has the knowledge and experience to serve for your projects.

