HORMOZGAN CEMENT PLANT

TENDER DOCUMENTS

For Supplying of

The Mechanical and Electrical & Utility Equipment

for Power Plant with Guarantee Capacity 12MW

in Clinker Production Line 6000 TPD

Based on EPC format

(Engineering, Procurement & Construction)

Jan.2026

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1) Preamble:

Following of tender document has prepared on May.2025, due to limitation to offered from some suppliers, Hormozgan Cement Plant has decided to ask from invited Bidders to prepare the Captive power plant as EPC format for implementation of Captive power plant with guarantee capacity 12MW based on Dual Fuels (Heavy Fuel Oils & Natural Gas).

Since maybe you have more Genset with different capacities to arrange in captive power plant, you are requested to arrange minimum capacity of Genset 2.5MW each, which are able to reach the Guarantee Capacity 12MW accordingly.

The present revised tender documents have been prepared by HCC's adviser, whose is name and address indicated in below:

Jafar Zeinali
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TEHRAN – I.R. IRAN
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In case of any questions / ambiguities, bidders may contact the above-named Consulting Engineers.

The invited bidders are requested to study the documents carefully and submit their proposal not later than 14 days after receiving the tender documents, to the Client's Address / E – mail as following:

Hormozgan Cement Co.
No. 37 Shahid Sanjabi St. Madar Squre, Mirdamad, P.O. Box :1911723183
TEHRAN – I.R. IRAN
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Contact person: Miss. M. Ahmadi

The tender documents are prepared for supplying of whole necessary entire Captive Power Plant as Engineering , Procurement and Construction (EPC format).

2) Project General Conditions:

2.1) Product specification

Product (Clinker & Cement) to be produced in the project will be Normal & High Blaine Portland Cement (Type I, II, V) according to ASTM/DIN standards.

2.2) Capacity of power plant & Scope of supply

The production capacity for Pyro line is 2x3000 metric tons/day of clinker. The capacity of captive power plant is Guarantee 12 MW.

2.3) SCOPE OF SUPPLY and SERVICES:

The scope of supply and services, as briefly described as follows:

A) Scope of Engineering:

-Basic engineering
-Detail engineering
-Mechanical engineering
-Electrical and Instrumentation engineering
-Civil Engineering
-Utility Engineering
-Operation and maintenance manuals.
-Training of the Owner's operation and maintenance personnel.

B1) Scope of supply for Mechanical & Utility :

-Manufacture, supply of the mechanical, electrical & utilities equipment, machinery, material as required, within the battery limits of the project.
-Gensets with capacity min. 2.5MW
-Fuel Separators
-Oil lubrications Separators
-Water treatment equipment
-HH/LH for cooling water of Genest with Air Cooled system instead of water-cooling tower.
-Gas pressure reduction unit
-Valve train for fuels
-Stacks

-Supply of equipment and services for a 12 MW power plant based on 4 or 5 or 6 Gensets which would be one Genset as stand-by based on Dual Fuels (HFO/NG) with **low-speed max.700 RPM and for continuous operation**.
-Alternator sets operating on Dual Fuel or HFO 6.3 KV, 50 Hz.
The generator sets will be complete with necessary state-of-the and ancillary equipment according to the Scope of Supply.
-Supply of the consumables required for erection and installation works.
-Supply the compressor for starting of Genset.
-Supplying Block Starter.
-All materials necessary for piping (Fuels, water & air) & supporting.
-Special Tools
-Genset operation and maintenance spares according to standard spare parts list, if requested.
-Delivery of the goods on DAP Hormozgan Cement Plant basis according to INCOTERMS 2020 edition.

B2) Scope of supply for Civil & Structure
- All re-bar, embedded plate, steel structure profile and plates, concrete supply by EPC contractor.

B3) Scope of Supply the Electrical & Automation:
The scope of supply and erection works will include the followings;
- Supply of Electrical Equipment.
- Cable Conduits
- Electrical Cables (MV, LV, instrument and control, Cable terminals)
- Panels,
- Transformers
- Lighting and lightning
- Transformers
- Generator
- MV switchgear
- LV switchgear
- Local Switches & Actuators
- UPS
- PLC Cubicles & Desk
- Supply of electrical equipment but not limited to DCS (SKADA) monitoring and materials for earthing, cables, cable trays, conduits, lighting, earthing, lightning and fire protection materials.

C) Scope of the Construction:

- Civil Execution but no limited to earth working, land scaping & soil treatment, if necessary
-Erection and installation of the supplied equipment.
-Tests on completion, startup, commissioning of plant and conduction of performance tests.
- Fuels , industry air , water piping's installation
-Commissioning's and hot run
Warrantee for the supplied equipment's and materials for one year after Perform ance taking over.

2.5) Site location

The altitude of HCC the site is as follows:

- Attitude : 200 meters above sea level
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2.6) Climatic conditions

According to an average of 10 years climatologically statistics the various outdoor ambient conditions are as follows:

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Oct	Dec	Year
Record high °C	28.0	29.0	34.0	37.0	43.0	44.0	44.0	43.0	41.0	39.0	33.0	30.0	44.0
Average high °C	22.62	23.38	26.82	31.45	35.93	38.12	38.06	37.4	36.52	33.68	28.24	24.58	31.4
Daily mean °C	20.86	21.68	24.93	29.35	33.72	35.94	36.06	35.42	34.36	31.62	26.43	22.73	29.43
Average low °C	18.08	19.01	21.91	25.88	29.7	31.89	32.52	32.08	30.63	28.33	23.44	19.65	26.09
Record low °C	13.0	10.0	16.0	13.0	25.0	28.0)	25.0	25.0	24.0	21.0	13.0	14.0	10.0
Average precipitation mm	44.57	50.38	28.04	13.89	1.08	0.02	1.13	4.12	0.16	9.51	21.85	22.11	16.41
Average precipitation days (≥ 1.0 mm)	3.09	4.45	2.82	1.45	0.36	0.0	0.36	0.82	0.0	1.91	3.45	2.18	1.74
Average relative humidity (%)	54.62	54.84	54.42	49.07	46.29	50.3	56.59	57.88	54.47	51.51	48.32	45.45	51.98
Mean monthly sunshine hours	8.5	8.42	10.66	12.85	13.42	13.89	13.44	13.03	11.98	11.58	8.8	8.56	11.26

2.7) Wind:

The prevailing winds during the year are from West to East direction. The speed of wind shall be considered 110 Km/h

2.8) Seismic Conditions

The site has been located in the area, with so high risk of seismity which is the design base acceleration equal to 0.3g.

2.9) Standard Criteria for Design & Engineering

The standard criteria, which should be considered in the design & engineering works of mechanical & electrical /control equipment, will be:

- National Iranian Standards (ISIRI)* where existing & applicable
- DIN standards (Germany)
- EN standards (European Union Standards)
- ISO Standards
- IEC Standard for Electrical and control system

3) Power Supply:

The permanent power is transmitted via a double feeder 63 KV line.
This is because providing more safety for power supply through a feeding loop.
The plant is fed by 6.3kv distribution lines either directly to the departments or indirectly via the step-down transformers with the ratio of 6300/400/230 volts & 50 Hz.

4) Fuel :

Fuel used in combustion systems is heavy fuel oil with the following analysis:

Heavy fuel oil Analysis

FUEL OIL (MAZOUT 230)

COMPONENTS			SPECIFICATION	TEST METHOD
Heat Value				9200 Kcal/kg
Specific Gravity	@60°F/60°F	°F	To be reported	D-1298
Viscosity, Kinematic	@122°F	C.S.	136 Max.	D-445

Viscosity, Red wood	@100°F	Secs	1100	Max.	Calculated
Pour point° F		Winter1	30	Max.	D-97
		Summer	50	Max.	D-97
Flash point °F			145	Max.	D-93
Sulphur, Total	%wt		6	Max.	D-1552
Carbon Residue (Conradson)	%wt		13	Max.	D-189
Ash	%wt		0.05	Max.	D-482
Water & Sediment	%vol.		0.5	Max.	D-1796
Calorific Value (Higher)	Btu/Lb		18200	Min.	Calculated
Carbon (C)	%wt		85		
Hydrogen (H)	%wt		11.5		
Vanadium (V)	P.P.M.		64	Approx.	
Sodium (Na)	P.P.M.		20	Approx.	
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FUEL GAS (NATURAL GAS)

COMPONENTS		SPECIFICATION
Heat Value		8130 Kcal/Nm3
Carbon Dioxide	*Mol%*	0.30
Hydrogen sulphide	"	2.6 PPM
Total Acidic Gases	"	0.30

HYDROCARBON:

Methane	"	85.71
Ethane	"	9.50
Propane	"	3.25
Iso Butane	"	0.31
N. Butane	"	0.60
Iso Pentane		0.10
N. Pentane		0.09
Hexs. Hepts. & Heavier	"	Trace
Nitrogen	"	0.14
TOTAL		100.00
Apparent Sp. Gravity (Air=1)		0.6517
Calorific Value BTU/CU.Ft(Net)		1042.49

Water content Lbs/MMSCF	6.1
Molecular Weight	18.82
Carbon content (C1=100)	119.05
Heat Value	8130 Kcal/Nm3

Note : Heavy Fuel Tanks is not scope of supply. Light oil tank and other small tanks drawings is including of scope of supply.

5) Water :
Water is available and will be supplied from deep wells in the project site.
The necessary treatments for making water suitable for whole departments needs will be done by the Supplier. ***The water treatment system such as Reverse Osmosis is including scope of supply.***
Suppliers should announce to the client their water needs including quality and quantity.

6) Technical descriptions:

The power plant is generated with Dual Fuels (Natural Gas \ Heavy Fuel Oil) Low speed Engine as guarantee capacity 12 MW.

7) Bidder's Reference Lists (International)
Bidders are requested to enclose a copy of their reference list of similar capacity projects.

8) Bidder's catalogs / technical literatures of proposed equipment
For all and every piece of main supplier's major sub suppliers of the proposed equipment, it is expected that bidders enclose a complete set of their catalogues / technical literature with enough description, drawings, pictures, diagrams, etc., to describe the specifications of proposed equipment as well as its compatibility with the tender documents.

9) Scope of Bids
Bidders are requested to provide their offers in following separated sections: (including break down of the prices & weights)

9.1) Scope of Mechanical, Electrical, Automation & Utility equipment which will be delivered directly from their own Plant. (OFF Shore)

9.2) Scope for drawings for implementation of civil & steel structure.

9.3) Scope of erection and commissioning and job training which will be done directly from supplier.

9.4 Construction works (Civil & Structure)

9.5) Scope of Mechanical &Electrical equipment which will be delivered via their sub-suppliers (Sub-suppliers to be amongst well-known & reputable ones and to be introduced through the bids).

9.6) List & preliminary specification of the parts which should be manufactured (or procured) locally under workshop drawings (WD) of the main supplier (or its sub-suppliers).

9.7) Equipment which should by designed locally by the client according to the Technical Data (TD) of the main supplier (or its sub-suppliers). This category will also be manufactured (or procured) locally by client.

9.8) After the issuance of the provisional acceptance certificate, the guarantee period of the Supplier shall start and shall continue for one year. During said period, the Supplier is obligated to perform its guarantee obligations in accordance with INCOTERMS 2020.

P.S : The design & engineering work needed for the manufacture/supply of 9.1 & 9.8 are parts of bidder's scope, and not necessary to be offered separately.

10) Terms of Payment:

Terms of payment through T/T will be according to the following:
10.1) 30% (Thirty percent) of contract price as down payment, to be paid directly to seller's bank account against an advance payment Guarantee. (APG)
10.2) 5% (five percent) of contract price against to receive all engineering documents.
10.3) 30% (thirty percent) of contract price of total contract price, to be paid successively at shipment or against certificates of shipment readiness.

10.4) 5% (five percent) of contract price against to fabrication and delivery of equipment which will be fabricated inside of EPC supplier workshop as DDP to Hormozgan Cement factory.
10.5) 5% (five percent) of contract price against to mobilization at site for construction work.
10.6) 15% (fifty percent) of contract price pro-rata and against to receive instalment as progressively which is approved by HCC.
10.7) 5% (five percent) of contract price after issuing the provisional acceptance certificate.
10.8) 5% (five percent) of contract price after issuing the final acceptance certificate.

Total Good Performance Bank Guarantee will be issued by an irrevocable and unconditional bank Guarantee and the advance payment guarantee will be released to against receive the goods as DDP at Hormozgan cement plant.

10% of each payment will be deducted as a performance deposit. 50% of the performance deposit will be returned to the EPC contractor after the issuance of the provisional acceptance certificate and 50% of the performance deposit will be returned to the EPC contractor after the issuance of the final acceptance certificate.