



OIL & GAS DEVELOPMENT COMPANY LTD

(TERMS OF REFERENCE)

PURCHASE OF AIR INTAKE FILTERS FOR GAS TURBINES

Model MAN -THM 1304-11

1. INTRODUCTION

Oil and Gas Development Company Ltd (OGDCL) is Pakistan's National Oil & Gas Exploration and Production Company. OGDCL is currently operating Country's largest Oil & Gas sector including saleable Oil & Gas Processing Plants.

Qadirpur is a Gas Processing Plant, located in Ghotki District about 15 km away from Sukkur-Multan Motorway (M5) and approx. 130 km from Sukkur, in Sindh Province of Pakistan. The Plant is comprised of two gas processing trains installed in the close proximity of oil wells. The processing plant is connected with the wells through gas gathering network which terminates into slug catcher at the process plant premises.

1.1. DEFINITIONS

Owner /Company :	Oil & Gas Development Company Limited (OGDCL)
Supplier /Contactor:	Parties, which vendors and / or supplies material, equipment and services to perform the duties as specified by Company in the scope of supply.

1.2. ERRORS OR OMISSIONS

1.2.1 Review and comment by the Company at any Contractor / Supplier's drawings, procedures or documents shall only indicate acceptance of general requirements and shall not relieve the Contractor / Supplier of its obligations to comply with the requirements of this specification and other related parts of the contract documents.

1.2.2 Any errors or omissions noted by the Contractor / Supplier in this Specification shall be immediately brought to the attention of the Company.

1.3. CONFLICTING REQUIREMENTS.

In the event of conflict, inconsistency or ambiguity between these Specifications, National Codes & Standards referenced in this Specification or any other documents, the Contractor/ Supplier shall refer to the Company whose decision shall prevail.

2. SCOPE OF SUPPLY & TECHNICAL SPECIFICATIONS.

2.1 INTAKE AIR FILTER CARTRIDGE FOR MAN GAS TURBINE

Filter elements required for Gas Turbine are given as under;

EQUIPMENT	MAN TURBINE
Equipment Model#	THM-1304-11
Filter Class	F9
Standard	EN779:2012 EN779:2002
Dimension (mm)	OD 324 ID 210 HI 960
Qty No (Per Turbine)	112
No. of Pleats	312
Moisture resistance	100%
Cover / Base Material	Hot dip Galvanized Steel
Inner / Outer cage	Hot dip Galvanized Steel
Sealing Gasket	EPDM Rubber / Equivalent
Dust Holding Capacity	~ 700 g @ 450Pa
Thermal stability	70 C
Air intake flow (Per Cartridge)	1625 m3/h
Initial resistance of Filter	300 Pa
Final resistance	1500 Pa

Service life of filter cartridge	8000 hr
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Pulse Cleaning start up value set	750 Pa
Pulse Cleaning stop value set	450 Pa
Pulse rate	60 s
Pulse Cycle	14 min

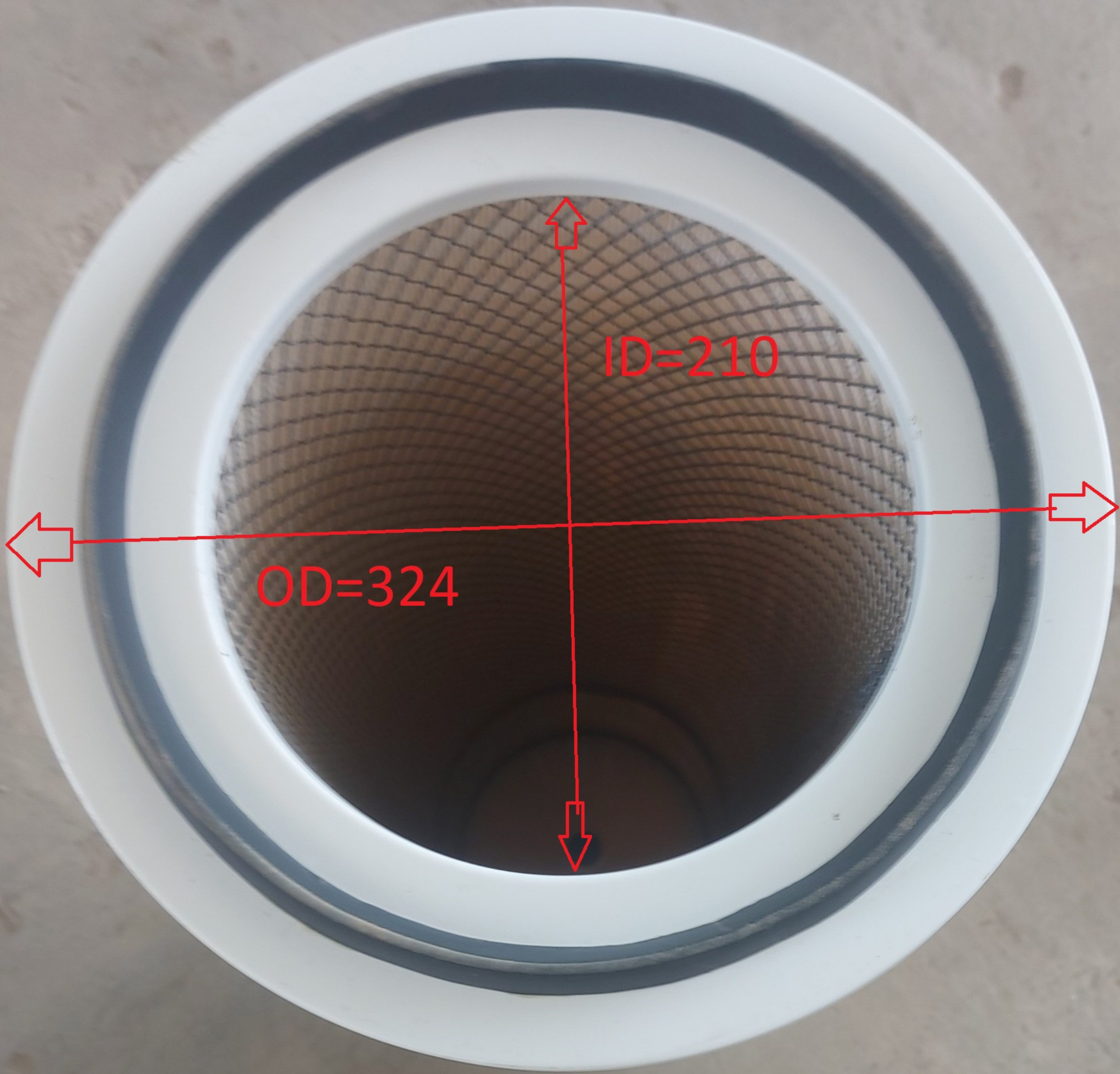
3. ENVIRONMENTAL CONDITIONS.

These filter elements will be utilized at Qadirpur Gas plant which is situated near Ghotki-Sindh Pakistan. The general environment is dusty further detail is as below.

ENVIRONMENTAL DATA		
Ambient Temperature, Maximum	55	°C
Ambient Temperature, Minimum:	0	°C
Maximum Daily Rainfall (24 hours)	86 mm	mm
Highest Average Monthly Rainfall	286	mm
Maximum Velocity (Wind)	100	mph
Relative Humidity	18 ~ 76	%
Elevation	72	m

4. DIMENSIONAL DETAIL

In order to understand the shape, fits & tolerance, please refer to the attached drawings. Bidder should ensure sealing & mounting as per provided dimension. Acceptance of minor dimensional deviation will be sole discretion of OGDCL keeping in view the surety of efficiency & performance, provided that it's fitting / mounting & complete sealing at the existing panel of air filters shall not be compromised. Bidders are encouraged to visit the Qadirpur Gas Plant to observe & take the dimensions of Filters themselves (if deem necessary).



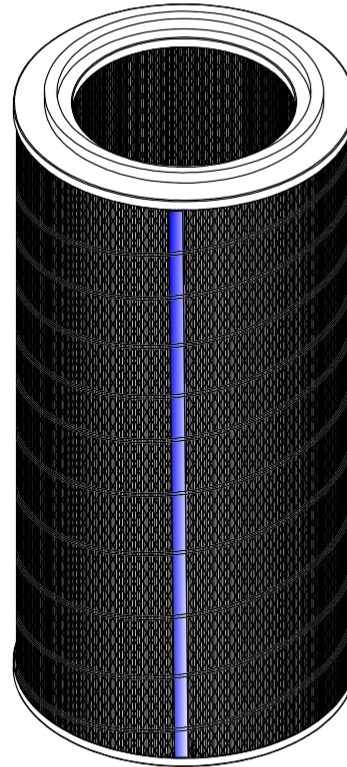
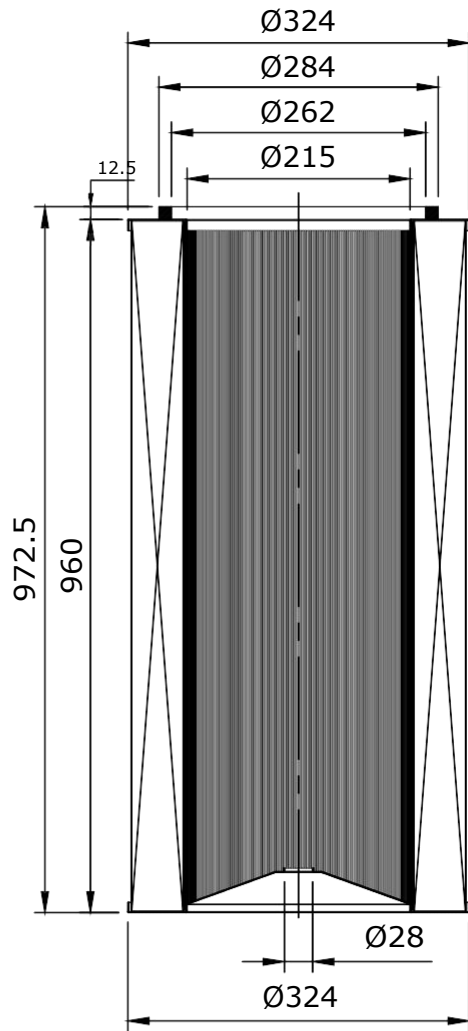
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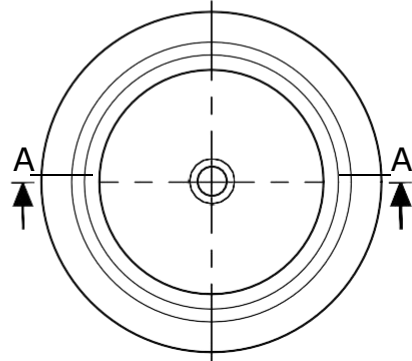


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SECTION A-A



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PART CODE	FILE. #
NEXT ASSY./DWG.	

MAN TURBINE AIR FILTER

PART CODE		MODEL	MATERIAL	PROCESS	COLOR		FINISH	
					SCALE	NTS	UNIT	mm
					DATE	DRAWN	CHECKED	APPROVED A
					08-08-2023			
REV	MODIFICATION	DATE	ECO #	DWG. #		ED.#	00	

