

Section 7. Technical Specifications

Procurement of GT Air Intake Fine-Filter (Class: F9) under Mechanical Maintenance Division of 450 MW CCPP (North) of APSCL.

Item No.	Name of Goods	Qty. & Unit of Measurement																														
1	2	3																														
	Description & APSCL's Requirement	1080 Pcs																														
1	<p>Filter Name: Gas Turbine 3rd Stage Filter/ Fine-Filter</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Country of origin</td> <td>: EU/ EU-CU/ G7</td> </tr> <tr> <td>Manufacturer & Model</td> <td>: To be mentioned by tenderer</td> </tr> <tr> <td>Filter Type</td> <td>: The leak-proof casting with stable media pleat pack, high burst strength, excellent Security against dust penetration</td> </tr> <tr> <td>Filter Class as per EN 779: 2012</td> <td>: F9</td> </tr> <tr> <td>As per ISO 16890</td> <td>ePM₁ 85% ePM_{2.5} 90% ePM₁₀ 95%</td> </tr> <tr> <td>Material</td> <td>: Micro-glass fiber</td> </tr> <tr> <td>Dimensions</td> <td>: 592x592x400-450 mm</td> </tr> <tr> <td>Frame</td> <td>: Filter frame should be non-corroding and fully incinerable, halogen-free plastic</td> </tr> <tr> <td>Gasket</td> <td>: 5 mm continuous Polyurethane gasket as per mounting arrangement</td> </tr> <tr> <td>Protection grids</td> <td>: Protection grids on the downstream side of the panels provide additional security in case of turbine or compressor pressure fluctuations</td> </tr> <tr> <td>No. of pockets</td> <td>: 4-6</td> </tr> <tr> <td>Filter effective Filtering area</td> <td>: Not less 30 m²</td> </tr> <tr> <td>Max. Operating temperature</td> <td>: 70±C</td> </tr> <tr> <td>Relative humidity</td> <td>: Up to 100%</td> </tr> <tr> <td>Flow-rate per element (nominal service life)</td> <td>: 4250 m³/h</td> </tr> </table>	Country of origin	: EU/ EU-CU/ G7	Manufacturer & Model	: To be mentioned by tenderer	Filter Type	: The leak-proof casting with stable media pleat pack, high burst strength, excellent Security against dust penetration	Filter Class as per EN 779: 2012	: F9	As per ISO 16890	ePM ₁ 85% ePM _{2.5} 90% ePM ₁₀ 95%	Material	: Micro-glass fiber	Dimensions	: 592x592x400-450 mm	Frame	: Filter frame should be non-corroding and fully incinerable, halogen-free plastic	Gasket	: 5 mm continuous Polyurethane gasket as per mounting arrangement	Protection grids	: Protection grids on the downstream side of the panels provide additional security in case of turbine or compressor pressure fluctuations	No. of pockets	: 4-6	Filter effective Filtering area	: Not less 30 m ²	Max. Operating temperature	: 70±C	Relative humidity	: Up to 100%	Flow-rate per element (nominal service life)	: 4250 m ³ /h	
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	Initial pressure drop at 4250 m ³ /h At 3400m ³ /h	: Not more than 130 Pa : Not more than 85 Pa	
	Recom. Final pressure drop	: Not less than 450 Pa	
	Burst pressure drop	: More than 2000 Pa	
	Average Efficiency, ePM ₁ ePM _{2.5} ePM ₁₀	: Not less than 85% Not less than 90% Not less than 95%	
	Dust holding capacity at 300 Pa @4250 m ³ /h	: Not less than 1800 g	
	Minimum service life length	: 9000 hours after installation considering that Pre filter of M6 filter	
	Minimum storage life	: 3 years at Plant weather condition	

N.B.

- The Tenderer shall submit original printed catalogue from the manufacturer including products description/technical specification along with tender.
- The tenderer shall submit Manufacturer data properly filled by manufacturer on their official pad with submission of related supporting documents duly sealed & signed by both manufacturer and tenderer.
- One-piece of offered Fine filter must be submitted with the tender as sample. Tender without "Sample" shall be treated as non-responsive. Physical Verification Test of submitted Sample will be considered during the evaluation.

In the capacity of:
Duly authorized to the sign the Tender on behalf of the Tenderer.
Date:


