

## Annexure-10: Checklist

Sl.No :	Description	Enclosed(Yes/No)
1.	Bidder to confirm that offered system (Gas Conditioning system) is in line with BHEL tender specification consisting of: (i) 3 Nos of Fuel Gas Scrubber cum Filter Separator Skids (1X100% Natural Gas Multicyclone Scrubber vessel + 2X 100% Filter Separator vessel along with piping & C&I etc as per Specification PY-51583_Rev. 00; Variant 01. (ii)Mandatory Spares as per Annexure-14.	
2.	As per scope(refer cl. 3.1.1(b), 1 No. of Scrubber(1X100%) cum filter separator(2X100%) skid is issued to successful bidder from the factory of BHEL Hyderabad. Bidder has clearly understood the scope. <b>Bidder to confirm.</b>	
3.	As per S.No. C of Annexure-9, Freight and Transit insurance is considered by the bidder for above item indicated against S.No.2. <b>Bidder to Confirm.</b>	
4.	<b>Documents submitted duly filled up with bidder's signature &amp; stamp.</b> a) Signed and stamped copy of Job spec. b) Signed & Stamped copy of Annexure-1 (P&ID) c) Filled in Annexure-2 (Scrubber and Filter Separator Datasheet) d) Signed and stamped copy of Annexure-7 (Instrument Datasheet, Hook-Up, Control Valve and ON-OFF Valve Inputs.)	
5.	As per cl. No. 3.2.18, of Doc. No. PY 51702, Horizontal Type Filter Separator vessel design is being considered and offered by the bidder. <b>Bidder to Confirm.</b>	
6.	<b>Special requirement:</b> <u>Vendor to furnish confirmation against each point mentioned below from A to I:</u>	
A	Bidder to conform compliance with Annexure-1: Annexure-1: P&ID for Natural Gas Scrubber cum Filter Separator skid enclosed with Technical specification,	
B	Following are considered in bidders scope of supply: <ul style="list-style-type: none"> <li>• Vessel</li> <li>• Piping &amp; Valves</li> <li>• Counter Flanges at skid terminal point</li> <li>• Cable Trays</li> <li>• Cable up to skid edge</li> <li>• All instrument within the skid</li> <li>• Foundation Bolts etc.</li> </ul>	
C	Process or Instrument nozzle on vessel shall be 2'' NB minimum as indicated in P&ID. Bidder to confirm for all vessels.	
D	Tapings for vents are taken from top of pipe/vessels and tapping for drains are taken from bottom of Pipe/vessels. Bidder to confirm.	
E	Multi Cyclone details & efficiency shall be as per Annexure-2	

F	<ul style="list-style-type: none"> <li>i. Maximum pressure drop across scrubber vessel shall be limited to 0.2 kg/cm<sup>2</sup> maximum.</li> <li>ii. Maximum pressure drop across filter separator shall be limited to 0.2 kg/cm<sup>2</sup> maximum.</li> </ul>	
7.	Bidders confirmation that Multi cyclone scrubber is offered in line with 4.4.8 of PY51702. Bidder also note that any other type scrubber (like single cyclone scrubber) is not acceptable and their offer is liable for technical rejection. <b>Bidder to confirm.</b>	
8.	All the instrumentation and its Hook-Up is considered as per Annexure-7. <b>Bidder to confirm.</b>	
9.	All the control valves, On-Off Valves, Solenoid, Limit Switch, Positioner, AFR is considered as per Annexure-7. <b>Bidder to confirm.</b>	
10.	a) Conventional type pressure safety valves are considered as per Annexure-1(P&ID). <b>Bidder to confirm.</b>	
11.	b) As per cl. No. 3.2.17 of PY 51702, FRP canopy is provided for all Transmitters and its accessories positioners. <b>Bidder to confirm.</b>	
12.	c) Bidder to confirm that the offered tube and tube fittings are of Swagelok/Parker make only.	
13.	d) Piping(material, schedule, pipe to pipe joints, etc.) shall be strictly in line with Piping Material Specifications as per Annexure-3 of tender specification. <b>Bidder to confirm.</b>	
14.	e) Process or Instrument nozzle on vessel shall be 2" NB minimum as indicated in P&ID	
15.	f) Vent & Drain nozzles on vessel shall be 2" NB as indicated in P&ID.	
16.	g) Inspection, Testing, Pneumatic/Hydrostatic Testing of skid is as per Cl. No. 7.0 of PY 51702. <b>Bidder to Confirm.</b>	
17.	h) As per Fuel Gas Analysis, Annexure-4, Scrubber Skid and Filter Separator Skid are designed. <b>Bidder to confirm.</b>	
18.	i) Valid type test certificate of all instruments to be submitted during detailed engineering. <b>Bidder to confirm.</b>	
19.	j) Performance of Scrubber and filter separator skid shall be as clause 3.2.20 of PY-51702. <b>Bidder to Confirm.</b>	
20.	k) All vessel shall have flanged connection even it is not shown in P&ID. <b>Bidder to confirm.</b>	
21.	l) Tapings for vents are taken from top of pipe/vessels and tapping for drains are taken from bottom of Pipe/vessels. <b>Bidder to confirm.</b>	
22.	m) Refer Cl. NO. 3.2.19(i) of PY 51702, All bolts and studnuts require for valves, piping flanges and vessels shall be of M.S with galvanized. <b>Bidder to confirm.</b>	
23.	n) Refer Cl. NO. 3.2.19(ii) of PY 51702, All bolts used for the mounting of Instruments & junction Boxes shall be of M.S with Galvanized. <b>Bidder to confirm.</b>	
24.	As per Cl. No. 3.1.1, signal cables from instruments up to junction box, cable trays, junction box, cable glands shall be in scope of bidder. <b>Bidder to confirm.</b>	
25.	Refer Annexure-2 Datasheet for Filter Separator Skid. MoC of Vane Pack is SS304 and Filter Elements is glass fiber. <b>Bidder to confirm.</b>	
26.	<b>Un priced "price bid format" submitted: -</b> Un priced "price bid format", clearly indicating all the applicable items are quoted to be submitted along with the bidder's offer.	

27.	<b>Inspection &amp; testing: -</b> <b>Bidder to confirm</b> that Inspection & testing shall be as Clause 7.0 of specification.	
28.	<b>Press. Tapping &amp; vent and drain Connection:- Bidder to confirm</b> that vent and drain connection shall be as per Annexure-8.	
29.	<b>Skid Layout:-</b> <b>Bidder to confirm</b> that Skid layout shall be as per clause 6.0 of specification	
30.	<b>Master Document List (MDL), Annexure-15:</b> <b>Bidder to confirm</b> that all the documents figuring in MDL will be submitted during detailed engineering.	
31.	Any specific deviations, which are impractical, shall be raised in form of pre-bid queries as per Annexure-11 before submission of Techno Commercial offer. Any deviation/ queries raised during technical bid submission shall not be entertained and the same shall not be considered for technical evaluation. Technical offer with deviation shall be liable for rejection. <b>Bidder to Confirm.</b>	
32.	Insulation of Scrubber cum Filter Separator Skid is <b>excluded</b> from bidder's scope of supply. Bidder to note the same.	
33.	Insulation cleats shall be supplied by bidder along with the skid at suitable location following good engineering practice. <b>Bidder to Confirm.</b>	
34.	As per Cl. No. 4.4.8 (k), Muticyclones material of construction shall be <b>SS316 L. Bidder to confirm.</b>	
35.	<b>Bidder to confirm compliance</b> with Quality Assurance Plan enclosed as Annexure-19 with Technical Specification, Doc. No. PY 51702.	
36.	<b>Bidder to confirm</b> compliance with Painting Specification enclosed as Annexure-17.	
37.	If Skid is supplied from outside India, Seaworthy packing shall be considered by Bidder and the same is in Bidders scope. Packing details shall be as per Annexure-12(Packing Details) enclosed with Technical Specification.	
38.	If Skid is supplied from outside India, inspection charges for TPI (Third Party Inspection) shall be in Bidders Scope. However, if Skid is supplied from within India, TPI charges shall be in Purchaser's scope. Bidder to note the same and quote accordingly.	
39.	All the above confirmations are pertaining to 3 Nos of Scrubber (1X100%) cum Filter Separator Skids (2X100%). <b>Bidder to confirm.</b>	

SIGNATURE: \_\_\_\_\_  
NAME : \_\_\_\_\_  
DESIGNATION: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
DATE: \_\_\_\_\_