



**KPD-TAY COMPRESSION PROJECT**  
Tender Enquiry No.: PROC/FC/PROJ/KPD-TAY/COMP/5313/2022



**PRE-BID CLARIFICATION # 05**

One of the bidder has asked following queries, OGDCL/ENAR's response is as follows:

Sr. No.	Tender Document Reference	Clarification By Bidder	OGDCL / ENAR's Response
1	Data Sheets of Storage Tank (0258-DS-1056-0 Raw Storage Tank & 0258-DS-1058-0 (Fire Water Storage Tank))	Plates' length and width, is specified in the data sheets, but bidder understand that these sizes are not a binding and bidder can proceed with the available sizes in the market to fabricate the tanks with these plates.	Yes, the specified size of plate (length and Width ) is not fixed.
2	Appendix-N (Approved Vendors List)	Company is requested to please share approved vendors for following items. 1) Finger Type Slug catcher 2) Fire Water Pumps 3) Flowmeter (Vortex Type) 4) Flowmeter (Coriolis)	The vendors of items mentioned in point No: 2 to 4 are already listed in approved vendor list. As far as Finger Type Slug Catcher is concerned, no specific vendor is required as it can be supplied by EPCC.
3	Nodal Gas Compression Blow Case Vessel	Company to share Datasheet and sizing for following vessel for Nodal gas compression (i.e. For Thora Deep-3, Tay-3 GGS and Tay GPP). 1) Inlet Separator/Slug Catcher 2) Blow Case Vessel	Refer Sec-III(SOW)/Clause-2.0/Para-5/Page-17of149, the requirement is clearly mentioned in referred clause and is being re-produced here: "to ensure accommodation of slug volume and slug flowrate at Compression facilities of Thora Deep-03 GGS, TAY-03 GGS, TAY at GPP, EPCC Contractor shall perform dynamic simulation of inlet separator and blowcase vessels and design the system in such a way that continuous, efficient, smooth and trouble free operation of compressor packages shall be done"
4	0258-B-1503-0 (HMBs)	Stream tag nos. in H&MB's are not matched with tag nos. in PFD's. Please provide H&MBs or PFDs with correct tag nos.	Please note that the PFDs and H&MBs are prepared w.r.t locations. Furthermore, stream of each location is easily identifiable and understandable for bidder's further working



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5	0258-B-1503-0 (HMBs)	Please share HYSYS software native/soft files as these are missing from FEED documents.	All FEED level operating conditions, studies, calculations, datasheets etc. are already provided in tender documents, bidder has to develop its own calculations and HMBs, based on proposed compressor trains for each location. Furthermore, as per Scope of work, bidder has to provide the Vetting and Endorsement of FEED Documents which include HMBs, studies, calculations, etc. to confirm and verify the process design and equipment rating/sizing basis.
6	0258-B-1503-0 (HMBs)	Composition is not provided against HMB Stream nos. Please provide for all streams.	All FEED level operating conditions, compositions (Gas, Condensate & water), studies, calculations, datasheets, etc. are already provided in tender documents, bidder has to develop its own calculations and HMBs, based on proposed compressor trains for each location.
7	P&ID Gathering System at TAY-3 165-4-PID-026	Existing Vent Stack and Drain Pit is marked to be demolished on P&ID. Please specify the sizes of both these items.	Please note that the size of existing drain pit is already mentioned in Doc. # 0258-PC-2205-2 (PLOTPLAN TAY-03 GGS), whereas, the size of existing vent stack is approximately Dia 8 inch & Height 11 meter. The sizes of these two items may further be verified during pre-bid site visit by bidder.
8	P&ID Gathering System at Tay-03 165-4-PID-026	At Tie-in Point TP T-03, no double block isolation valves are shown & marked on P&ID. However, isolation philosophy in scope of work requires to provide double isolation block valves at all tie-in points for process connections. Please advise 8" double block valves are required to be included on P&ID at TP T-03.	Bidder to follow the scope of work's Tie-In point isolation philosophy.



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9	P&ID K Manifold at GPP 165-4-PID-032 (Sheet 4 OF 4)	At Tie-in Point TP TH-08, no double block isolation valves are shown & marked on P&ID. However, isolation philosophy in scope of work requires to provide double isolation block valves at all tie-in points for process connections. Please advise 6" double block valves are required to be included on P&ID at TP TH-08.	Bidder to follow the scope of work's Tie-In point isolation philosophy.
10	P&ID Gas, Oil & Water Gathering System 165-4-PID-035	Tender drawings has no double block isolation valves on Tie-in Point TP K-40 & TP K-41. However, isolation philosophy in scope of work requires to provide double isolation block valves at all tie-in points for process connections. Please advise on following: a) 6" double block valves are required to be included on P&ID at TP K-40. b) 3" double block valves are required to be included on P&ID at TP K-41.	Bidder to follow the scope of work's Tie-In point isolation philosophy.
11	P&ID K Manifold at GPP 165-4-PID-032 (Sheet 2 OF 4)	At all tie-in points in this P&ID, bidder understands that the Globe valve used at tie-ins is utilized as second isolation valve to provide double block isolation. Please confirm globe valve is acceptable as isolation valve for double block isolation philosophy as per scope of work.	Bidder's understanding is correct.
12	P&ID K Manifold at GPP 165-4-PID-032 (Sheet 3 OF 4)	At all tie-in points in this P&ID, bidder understands that the Globe valve used at tie-ins is utilized as second isolation valve to provide double block isolation. Please confirm globe valve is acceptable as isolation valve for double block isolation philosophy as per scope of work.	Bidder's understanding is correct.
13	P&ID K Manifold at GPP 165-4-PID-032 (Sheet 4 OF 4)	At all tie-in points in this P&ID, bidder understands that the Globe valve used at tie-ins is utilized as second isolation valve to provide double block isolation. Please confirm globe valve is acceptable as isolation valve for double block isolation philosophy as per scope of work.	Bidder's understanding is correct.



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14	0258-DS-1067-0 (IA Generation Package) TAY-3 & 0258-DS-1068-0 (IA Generation Package) THORA DEEP-3 GGS	Please provide instrument air & plant air calculations for TAY-03 & THORA DEEP-3 GGS which were done at FEED stage.	Please note that the minimum requirements are already mentioned in the referred datasheets and bidder to consider all the Valves (CVs, ESDVs/BDVs) as mentioned in the P&IDs (TAY-03 GGS & Thora Deep-03 GGS) and accordingly consider the instrument air consumption requirement during detail engineering stage.
15	P&ID Instrument Air System at TAY-3 GGS Nodal Facility 0258-PB-2112 & P&ID Instrument Air System at Thora Deep-3 GGS 0258-PB-2114	It is specified in P&ID that air receivers (V-5602, V-5603) for TAY-3 & air receivers (V-5803 & V-5804) for Thora Deep-3 will be designed for 10 minutes of supply at normal instrument air demand rate. Bidder understands that 10% design margin is not required to be included in all air receivers (TAY-3 & Thora Deeps-3). Please confirm.	10% design margin shall be required.
16	0258-DS-1067-0 (IA Generation Package) TAY-3	It is specified that wet air receiver (V-5602) for TAY-3 and wet air receiver (V-5803) for Thora Deep-3 will be designed for 10 minutes' storage capacity. Bidder understands that 10 minutes of only plant air capacity is required to be considered for the vessel sizing and instrument air capacity is not required to be considered for this vessel as separate 10-minute storage capacity of instrument air is provided in Instrument Air Receiver (V-5603) for TAY-3 and in Instrument Air Receiver (V-5804) for Thora Deep-3. Please clarify.	Bidder's understanding is correct.
17	P&ID Instrument Air System at TAY-3 GGS Nodal Facility 0258-PB-2112 & P&ID Instrument Air System at Thora Deep-3 GGS 0258-PB-2114	Please provide following P&ID as specified on these reference P&ID as these drawings are missing from FEED P&IDs set: a) P&ID of plant air distribution header. b) P&ID of instrument air distribution header	It is in EPCC contractor's scope to develop distribution headers of Plant Air & Instrument Air.
18	0258-DS-1067-0 (IA Generation Package) TAY-3 & 0258-DS-1068-0 (IA Generation Package) THORA DEEP-3 GGS	Plant air requirement for TAY-3 & Thora Deep-3 is not mentioned in datasheet or P&ID. Please provide information related to plant air capacity to be utilized for air compressor sizing for both locations separately.	All FEED level operating conditions, studies, calculations, datasheets & etc. are provided in tender documents, bidder has to developed its own calculations and HMBs, based on proposed compressor trains for each location. Furthermore, as per Scope of work, bidder has to provide the Vetting and Endorsement of FEED Documents which include HMBs, studies, calculations, etc



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19	0258-DS-1067-0 (IA Generation Package) TAY-3 & 0258-DS-1068-0 (IA Generation Package) THORA DEEP-3 GGS	API-619 applicable standard is mentioned in package datasheet. Please note that Vendors listed in Tender AVL do not manufacture API-619 machines in this range. Further, tender requirement of 2x100% Compressors will ensure Instruments Air package availability for the plant. Hence, it is recommended to follow Vendor standard design.	EPCC to provide best and reliable solution as per requirements mentioned in tender document. Furthermore, EPCC to also identify & provide any variation/deviation from provided code & Standard i.e. API-619/ISO-10440-1 on vendor/supplier letterhead and also provide reference codes & Standard followed for each component & testing of the package with the bid proposal.
20	0258-DS-1067-0 (IA Generation Package) TAY-3 & 0258-DS-1068-0 (IA Generation Package) THORA DEEP-3 GGS	It is mentioned that all items / equipment within package shall be designed for 250 psig (Vendor to Confirm). As maximum operating pressure is 145 psig, hence design pressure of 175 psig is sufficient for the package equipment including wet air & instrument air receivers. Please confirm that bidder can optimize the design pressure as 175 psig as VTC (Vendor to confirm) is mentioned on datasheet.	Please note that the requirements already mentioned in the referred datasheets are minimum, bidder to adhere with the tender documents.
21	P&ID Typical P&ID for Front End Compressors 0258-PB-2106 (Sheet 2 OF 2)	A fuel gas supply connection from existing plant is shown on P&ID without any interconnectivity P&ID (Fuel Gas from Fuel Gas Header). Hence, please provide tie-in P&ID for fuel gas connection from existing fuel gas header. Also provide supply pressure, temperature and composition of fuel gas coming from existing fuel gas header	Please note that the referred P&ID 0258-PB-2106 (Sheet 2 OF 2) is typical P&ID. However, for fuel gas inter-connecting P&ID, refer P&ID # 0258-PB-2105.
22	P&ID Typical P&ID's for Nodal Compression Package 0258-PB-2101 (Sheet 3 OF 3)	A fuel gas supply connection is shown in the P&ID 0258-PB-2106 (Sheet 2 OF 2) from existing fuel gas header but not in P&ID for Nodal Compression Package 0258-PB-2101 (Sheet 3 OF 3). Bidder understands that there is no requirement of existing fuel gas connection for this package. Please confirm.	Please note that the referred 0258-PB-2101 (Sheet 3 OF 3) is typical P&ID. However, for fuel gas inter-connecting P&ID, refer P&ID # 0258-PB-2102.
23	P&ID Fuel Gas System F80-01-PRO-DWG-02-02	At Tie-in Point TP T-16 & TP K-48 no double block isolation valves are shown & marked on P&ID. However, isolation philosophy in scope of work requires to provide double isolation block valves at all tie-in points for process connections. Please advise 3" double block valves are required to be included on P&ID at TP T-16 & at TP K-48.	Bidder to follow the scope of work's Tie-In point isolation philosophy.
24	P&ID Closed Drain System F83-01-WTS-DWG-02	At Tie-in Point TP K-46 & TP T-10 no double block isolation valves are shown & marked on P&ID. However, isolation philosophy in scope of work requires to provide double isolation block valves at all tie-in points for process connections. Please advise on following: a) 3" double block valves are required to be included on P&ID at TP K-46. b) 4" double block valves are required to be included on P&ID at TP T-10.	Bidder to follow the scope of work's Tie-In point isolation philosophy.



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One of the bidder has asked following queries, OGDCL/ENAR's response is as follows:

25	0258-DS-1003-0 (DS of K-FEC at GPP)	In MP compression cases, no information is given from year 2027-2033 related to flows, pressures & operating/standby. Please advise if there is any specific requirement to be considered for these years or the already specified data on datasheet is to be considered for sizing.	Please note that the K-FEC Compressors shall be able to operate on both MP and LP Operating cases. MP Compression cases have been developed to cover overall operating envelope of the field and same shall be used for sizing purpose.
26	0258-DS-1003-0 (DS of K-FEC at GPP)	In LP compression cases, no information is given from year 2029-2034 related to flows, pressures & operating/standby. Please advise if there is any specific requirement to be considered for these years or the already specified data on datasheet is to be considered for sizing.	Please note that the K-FEC Compressors shall be able to operate on both MP and LP Operating cases. LP Compression cases have been developed to cover overall operating envelope of the field and same shall be used for sizing purpose.
27	0258-DS-1003-0 (DS of K-FEC at GPP)	In MP compression case-1a, per compressor gas flow is not equal to total gas flow. Please confirm whether it is a typo mistake or what value should bidder use for sizing of individual compressor and total gas flows.	Total gas flows (MMscfd) and Number of Operating & standby machines are fixed. Since all the five (05) Compressor packages may be used for MP (Medium pressure) conditions OR LP (Low pressure) conditions scenerios, therefore, considering both MP (Medium pressure) conditions and LP (Low pressure) conditions, EPCC Contractor shall design each compressor package in such a manner that Total gas flows (MMscfd) of MP and LP cases must be complied for all the respective years/cases as specified in the data sheet.
28	0258-DS-1003-0 (DS of K-FEC at GPP)	In MP compression case-1b, per compressor gas flow is not equal to total gas flow. Please confirm whether it is a typo mistake or what value should bidder use for sizing of individual compressor and total gas flows.	Refer OGDCL/ENAR's response in query # 27 above.
29	0258-DS-1003-0 (DS of K-FEC at GPP)	In MP compression case-1c, total gas flow is less than per compressor gas flow against MP compression flows. Please confirm whether it is a typo mistake or what value should bidder use for sizing of individual compressor and total gas flows.	Refer OGDCL/ENAR's response in query # 27 above.
30	0258-DS-1003-0 (DS of K-FEC at GPP)	In LP compression case-2a, total gas flow is less than per compressor gas flow for LP compression flows. Please confirm whether it is a typo mistake or what value should bidder use for sizing of individual compressor and total gas flows.	Refer OGDCL/ENAR's response in query # 27 above.



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31	0258-DS-1003-0 (DS of K-FEC at GPP)	In LP compression case-2b, considering per compressor gas flow of 23.25 MMSCFD and three compressors operating $23.25 \times 3 = 69.75$ MMSCFD is not equal to total gas flow of 65.5 MMSCFD. Please confirm whether it is a typo mistake or what value should bidder use for sizing of individual compressor and total gas flows.	Refer OGDCL/ENAR's response in query # 27 above.
32	P&ID Raw Water System at THORA DEEP-3 0258-PB-2113 & P&ID Raw Water System at TAY-3 GGS 0258-PB-2110	Please confirm standby is not required for following Pumps as P&ID show no standby for these pumps. a) Single Raw Water Bore Pump (P-5802) and Raw Water Supply Pump (P-5803) is shown on P&ID with no standby. b) Single Raw Water Bore Pump (P-5602) and Raw Water Supply Pump (P-5605).	Confirmed.
33	Equipment Adequacy Report 0258-A-1009-0	New Equipments & Vessels sizing calculations are missing in Tender documents. Please provide sizing calculations for Process Drain Pits at Tay-3 & Thora Deep-3, Vent KO Drums at Tay-3 & Thora Deep-3, Vent Stacks at Tay-3 & Thora Deep-3, Thora -3 GGS Test Separator, New LP Slug Catcher and New Thora Deep HP Slug Catcher done at FEED stage.	All FEED level operating conditions, studies, datasheets & etc. are already provided in tender documents, bidder has to develop its own calculations and HMBs, based on proposed compressor trains for each locations. Furthermore, as per Scope of work, bidder has to provide the Vetting and Endorsement of FEED Documents which include HMBs, studies, calculations, etc. to confirm and verify the process design and equipment rating/sizing basis.
34	Scope of Work	The Annual Turnaround (ATA) of overall facilities happens on which month every year for this facility and for how many days.	Every year OGDCL propose dates to Ministry of Energy (MoE) for approval and MoE has the final authority to approve or give some other dates. Hence, there is no firm months and dates applied at KPD-TAY Plant for ATA activities.



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35	Scope of Work 1.1.2	It is mentioned that approvals from Consultant/OGDCL for all engineering, material, equipment & consumables. Bidder understands that only major engineering deliverables (basic engineering) and critical equipment (compressor) will require approval from Client and not each & every item of project.	Bidder's understanding is not correct. Bidder to adhere Tender Requirements.
36	Scope of Work 1.1.2	It is mentioned that supply of OEM recommended consumables & spare parts for one (01) year operation are required to be supplied by bidder. Bidder understands that OEM mentioned here is for process gas compressors OEM only and no other package or equipment consumables & spare parts for one (01) year operation are required to be supplied by bidder. Please clarify and provide the complete list for which OEM recommended consumables & spare parts for one (01) year operation are required to be supplied by bidder.	Bidder understanding is not correct. Bidder shall be responsible for the supply of recommended consumables, initial fills, spares, tools etc. which are required for the successful commissioning and start-up of the complete project as mentioned in tender documents.
37	Scope of Work 1.1.2	It is specified that item-wised price list of OEM recommended consumables & spare parts supply for two (02) years operation as optional price to be quoted by bidder. Bidder understands that OEM mentioned here is for process gas compressors OEM only and no other package or equipment consumables & spare parts for two (02) year operation are required to be quoted by bidder. Please clarify and provide the complete list for which OEM recommended consumables & spare parts for two (02) year operation are required to be supplied by bidder.	Bidder understanding is not correct. Bidder shall be responsible for the supply of recommended consumables, initial fills, spares, tools etc. which are required for the successful commissioning and start-up of the complete project as mentioned in tender documents.
38	FEED Documents	Client to confirm that all existing plant & FEED documents native software files will be provided to successful bidder at start of project.	Project relevant FEED documents to be shared (as possible upto max. extent) with the successful bidder.
39	Scope of Work Section 14.4	Under Safety deliverables, it is listed that Vent/Flare Heat Radiation and Dispersion Considerations. Bidder understands that composition and flow rate is within the design limits of existing facility flare system, hence this is not required to be studied for existing flare system. Further, dispersion calculations are not required as H2S is within the allowable limit.	As per Scope of work, bidder has to performed existing Flare Headers system adequacy study (including but not limited: Rating/ Sizing, Vent/Flare Heat Radiation and Dispersion Considerations as well as Liquid Dropout Potential) with respect to its new / revised loads (to be calculated by bidder during detailed engineering) and provide solutions in case of any bottleneck found.





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40	P&IDs - General	On P&IDs, BDVs, PCVs, PSVs and flare line sizes are not mentioned. Please specify.	During detailed engineering bidder has to study all possible cases/scenarios and accordingly performed calculations of all safety devices (PCVs, PSVs & BDVs) with respect to its new and revised loads (to be calculated by bidder during detailed engineering) and provide solutions in case of any bottleneck found.
41	P&ID Portable and utility Water Distribution System F87-01-WTS-DWG-02-02	At Tie-in Point TP T-18, TP T-14 TP K-57 & TP K-42: no isolation valves are shown & marked on P&ID. Please advise single isolation valves required on these tie-in Points or not?	Bidder to follow the scope of work's Tie-In point isolation philosophy.
42	P&ID Cooling Water System, F98-01-WTS-DWG-02-02	At Tie-in Point TIP F-51, TIP F-50: no isolation valves are shown & marked on P&ID. Please advise single isolation valves required on these tie-in Points or not?	Bidder to follow the scope of work's Tie-In point isolation philosophy.
43	Scope of Work Section 5.16	Modifications in DCS, Safety System & RTU and associated HMIs for new installations is indicated as part of bidder scope. Company to please advise OEM for existing RTU System as ABB is indicated for DCS and ESD. Further advise existing F&G System is separate or part of ESD System? Company to share existing system documents for further evaluation of bidder.	At TAY-03 GGS, existing RTU System Make / Model is ABB PM861. Further there is no separate F&G System. F&G's are part of ESD System.  Basic technical details already mentioned in Tender Documents. Details of existing system shall be shared with the successful bidder
44	Scope of work Section 4.1, page 49/149	Company to advise OEM for existing switchgear MCC.	OEM for existing switchgear MCC is SIEMENS Pakistan. Vendor drawings of existing switchgear MCC-05 is also provided / submitted in ITB (refer Volume-IIC Electrical).