

PART-1

Pre-BID Queries on EOI-14th Sept 2016_Talcher Fertilizers Limited																		
SI No		Pre-BID Queries_22-29 Sept. 2016	TFL/PDIL Reply_29 Sept. 2016															
		Technical																
1	CB&I	As per the section 3.1.2, it is noted that “If the reference plant of the licensor has an output capacity of less than 180,000 Nm3/hr”. Please confirm 1,80,000 Nm3/hr is total raw syn. gas from gasifier or based on CO+H2 only from gasifier.	1,80,000 Nm3/hr is estimated stoichiometric requirement of (H2+CO) at gasifier exit to produce finally 2200 MTPD Ammonia. Gasifer shall be designed such that, about 2,43,000 Nm3/h Ammonia Synthesis Gas will be produced by the offered technology, which is indicated in Section-1 Clause No-2.1 of EOI.															
2		CB&I request to provide the ash analysis results similar to section 14.3 based on washed coal as noted in section 14.4	As per the EOI, washing is not envisaged. However, Clause no-14.4 of Annexure-1 is for reference and information only.															
3		CB&I request to provide Ash Fusion Temperature (AFT in Reducing environment) for washed coal as noted in section 14.4	As per the EOI, washing is not envisaged. However, Clause no-14.4 of Annexure-1 is for reference and information only.															
4	GE	We kindly request to provide the ultimate, proximate and ash analysis of both coal and petcoke for GE to run the simulation. We request for one data point as Basis of Design	Coal details (Proximate as well ultimate analysis) have already been provided with EOI as Annexure-1. Available details of Pet Coke is providing hereby as Annexure-2.															
5		GE scope of engineering will be from Solid Handling to raw syn gas as indicated in attached document (Slide Number 8 – Block Flow Diagram).	Scope starts from receiving of ROM Coal/ Pet Coke at B.L. of Gasification Plant/ Island up to the production of Ammonia Syn. Gas which is elaborated at FORM-4a/4b, Revision-1.															
6	SES	<p>It is mentioned that the objective is to use Talcher coal only, with an ash content of 40%-47% (at 60% RH and 40oC on I100 Basis). In Annexure-1 a large amount of properties of coal samples are provided from various seams and the range of properties vary quite a bit and many samples have proximate analysis but not ultimate analysis. We propose to use the coal properties presented in the following 3 Tables. Please let us know if this is acceptable.</p> <p>Table 1 Proximate Analysis of Coal (60% RH and 40°C)</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Unit</th> <th>45%-ash Talcher Coal</th> </tr> </thead> <tbody> <tr> <td>FC+VM</td> <td>wt%</td> <td>Balance</td> </tr> <tr> <td>Ash</td> <td>wt%</td> <td>45.0</td> </tr> <tr> <td>Moisture</td> <td>wt%</td> <td>5.0</td> </tr> <tr> <td>Total</td> <td>wt%</td> <td>100.0</td> </tr> </tbody> </table>	Parameter	Unit	45%-ash Talcher Coal	FC+VM	wt%	Balance	Ash	wt%	45.0	Moisture	wt%	5.0	Total	wt%	100.0	
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Table 2 Ultimate Analysis of Coal (Dry Basis)

Parameter	Unit	45%-ash Talcher Coal
C	wt%	42.14
H	wt%	2.80
O	wt%	6.74
N	wt%	0.61
S	wt%	0.34
Ash	wt%	47.37
Total	wt%	100.00

Table 3 Other Coal Properties

Parameter	Unit	45%-ash Talcher Coal
HGI		54.4
IDT	°C	1238
HT	°C	>1400
FT	°C	>1400
HHV Provided (60% RH and 40°C)	kcal/kg	3193 - 3462
HHV Estimated (60% RH and 40°C)	kcal/kg	3741
HHV Estimated (Dry)	kcal/kg	3938

As provided in the EOI, range of 40 to 47% ash in coal is acceptable. Licensor may opt any value in between the range and submit their offer.

7	Thyssenkrupp	To run a proper simulation following additional data/info required by M/s Thyssenkrupp: 1. on which design coal shall we run our simulation and base our EOI? 2. Please provide values for Cl, K, Na. 3. Please provide data on PetCoke. 4. Please provide coal ash analyses incl. values for Ni and V.	1. As provided with the EOI, any value of coal with 40-47% ash is acceptable. 2. Available data have already been provided. 3. Attached as Annexure-2. 4. Available data have already been provided.
8		We would like to exclude the coal mills from the current scope since our technology can cope with coal mills from different suppliers. However, we would of course define the required characteristics at battery limits, i.e. coal feeding system. Please confirm.	Scope starts from receiving of ROM Coal/ Pet Coke at B.L. of Gasification Plant/ Island up to the production of Ammonia Syn. Gas which is elaborated at FORM-4a/4b, Revision-1.
		Commercial	
1	GE	Please indicate the accuracy of the capital cost for consideration . Typically for such stage (prior to Basic Engineering Package development), we can provide only -20% to +40% on USGC /PR China basis for indicated GE scope of engineering. For remaining plant we kindly request for PDIL to get the estimates from corresponding Licensors.	Best estimate value to be submitted. However, accuracy range may please be indicated.
2	Thyssenkrupp	Form-4a, S/N 1, 2, 4: shall be within the scope of the EPC contractor and not licensor.	Estimated cost/data for the items being listed as per revised FORMs - 4a/4b, Revision-1 are required to be furnished.
3		Form-4a, S/N 5: OPEX is depending on factors like price for coal, water, electricity, staff, financial plan (equity, loan, IRR, NPV, etc.) which are not known to us.	Estimated cost/data for the items being listed as per revised FORMs - 4a/4b, Revision-1 are required to be furnished.
		General	
1	CB&I	CB&I request GAIL and PDIL to review and accept the CB&I NDA as attached before October 4, 2016.	Agreed.
2		As per the section 3.3.4, CB&I request PDIL/GAIL to propose few meeting dates for CB&I presentation to TFL. Please exclude dates from October16to October 23 for the meeting.	Noted.
3		As per the section 3.3.7, it will not be ready to provide the end users certificate from the licensee (on licensee's letter head) by October 4, 2016. CB&I request to provide the extension for an additional month, November 4, 2016 as the E-Gas gasification projects	Noted.
4		We understand that the electronic copy of the EOI can be submitted via email by due date. If submitting the EOI via email, there is no need of submitting it in hard copies. Please confirm. If, even after submitting the EOI via email, two sets of hard copies are needed to be submitted, it can be done even after the due date. Please confirm.	Electronic copy of original bid must reach through mail by due date. Hard copy of bid may be submitted subsequently.

5	SES	<p>SES will provide as much information as possible to prove that the reference plant meets all of Talcher's requirements and will prepare a document for the Licensee to sign. However, in case there are delays in getting it from the Licensee, or if Licensee doesn't agree to sign all the detailed documents, SES will submit all the documents without signatures and provide all the contact details of Licensee for TFL/PDIL to directly talk to them for verification of data. Please confirm your acceptance.</p> <p>Also, since our reference plants are located in China where letterhead is not customary, SES will provide the supporting documents stamped by Licensee instead of on their letterhead? Please confirm your acceptance.</p>	<p>Responsibility lies with the Bidder for submission of required document, in stipulated time limit, as per the EOI.</p>
6		<p>Kindly provide the forms to be filled by bidders in native files for ease of filling the details.</p>	<p>Bidder may generate their editable copies maintaining content of the forms unchanged.</p>
7		<p>We had a non-disclosure agreement in place with GAIL earlier, but it expired in February this year. Since it is now TFL as OWNER of the new plant, we propose to sign a new NDA with TFL, while extending the earlier NDA with GAIL. Please confirm your acceptance.</p>	<p>Bidder may send their draft NDA.</p>
8	Thyssenkrupp	<p>There are many ways to tailor the process, technically and/or commercially. In order to select the right approach and to be most transparent and comparable we would need to receive your ranking/scoring criteria.</p>	<p>As elaborated in the pre-bid meeting, shortlisting of technology(ies) will be done based on EOI.</p>
9		<p>The booklet for EOI requests a lot of information which are partly IP-related, hence a NDA is required prior to submit our response. Shall we provide our standard NDA to you?</p>	<p>Yes, you may provide.</p>
10		<p>We have identified more than ten different concepts which we need to be evaluated internally prior to come to a conclusion, which shall be presented with our EOI. In order to do so, we require more time and would therefore request an extension of at least 2-3 weeks.</p>	<p>Noted.</p>