



DIRECTORATE GENERAL OF HYDROCARBONS

(Ministry of Petroleum & Natural Gas)

OIDB Bhawan, Plot No. 2, Sector 73, Noida-201301, India.

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DGH Reply/Clarification to the technical and general queries raised by different bidders in respect of DGH Tender No.DGH/MM/Hiring of Consultant/FDP/011/2015/ENQ-008 for Hiring of Consultant for evaluation of field Development Plan (FDP) of Deep Water Block in India.

Sl. No.	Bidders Query	DGH Reply/Clarification																																																																																																																																																																																																
1	Is there a STATIC and DYNAMIC model prepared and can be made available for evaluation along with all associated input data files?	Yes.																																																																																																																																																																																																
2	On what software platform the STATIC and DYNAMIC model was built?	Static model in PETREL, Dynamic Model in PETREL RE, Simulator used ECLIPSE-100																																																																																																																																																																																																
3	Is the STATIC model validated or quality checked? Please confirm whether separate models for all discoveries or an integrated model for all discoveries?	Refer scope of work. Separate models have been prepared for all discoveries.																																																																																																																																																																																																
4	Is the DYNAMIC model up to date with all input data like wells drilled, history matched (if any)?	Yes. History match not applicable as production yet to be commenced.																																																																																																																																																																																																
5	What is the number of cells in X, Y and Z directions for STATIC and DYNAMIC model and cell dimensions for each direction in STATIC and DYNAMIC model?	<div>Static Model:</div> <div>Free Gas:</div> <table><tr><th rowspan="2">Model</th><th colspan="3">No of Cells</th><th colspan="3">Cell Dimensions (m)</th></tr><tr><th>X</th><th>Y</th><th>Z</th><th>X</th><th>Y</th><th>Z (Avg.)</th></tr><tr><td>A</td><td>177</td><td>279</td><td>252</td><td>100</td><td>100</td><td>1.92</td></tr><tr><td>B</td><td>177</td><td>279</td><td>252</td><td>100</td><td>100</td><td>1.92</td></tr><tr><td>C</td><td>218</td><td>78</td><td>325</td><td>100</td><td>100</td><td>1.78</td></tr><tr><td>D</td><td>206</td><td>83</td><td>840</td><td>100</td><td>100</td><td>0.8</td></tr></table> <div>Oil:</div> <table><tr><th rowspan="2">Model</th><th colspan="3">No of Cells</th><th colspan="3">Cell Dimensions (m)</th></tr><tr><th>X</th><th>Y</th><th>Z</th><th>X</th><th>Y</th><th>Z (Avg.)</th></tr><tr><td>E</td><td>102</td><td>96</td><td>120</td><td>100</td><td>100</td><td>5</td></tr><tr><td>F</td><td>196</td><td>194</td><td>457</td><td>100</td><td>100</td><td>1.7</td></tr><tr><td>G</td><td>177</td><td>279</td><td>252</td><td>100</td><td>100</td><td>1.92</td></tr><tr><td>H</td><td>255</td><td>290</td><td>145</td><td>100</td><td>100</td><td>4.3</td></tr><tr><td>I</td><td>188</td><td>157</td><td>160</td><td>100</td><td>100</td><td>4.3</td></tr><tr><td>J</td><td>196</td><td>194</td><td>496</td><td>100</td><td>100</td><td>1.53</td></tr></table> <div>Dynamic Model:</div> <div>Free Gas:</div> <table><tr><th rowspan="2">Model</th><th colspan="3">No of Cells</th><th colspan="3">Cell Dimensions (m)</th></tr><tr><th>X</th><th>Y</th><th>Z</th><th>X</th><th>Y</th><th>Z (Avg.)</th></tr><tr><td>A</td><td>98</td><td>103</td><td>33</td><td>100</td><td>100</td><td>2</td></tr><tr><td>B</td><td>121</td><td>108</td><td>96</td><td>100</td><td>100</td><td>2.86</td></tr><tr><td>C</td><td>149</td><td>78</td><td>55</td><td>100</td><td>100</td><td>1.9</td></tr><tr><td>D</td><td>206</td><td>83</td><td>840</td><td>100</td><td>100</td><td>0.8</td></tr></table> <div>Oil:</div> <table><tr><th rowspan="2">Model</th><th colspan="3">No of Cells</th><th colspan="3">Cell Dimensions (m)</th></tr><tr><th>X</th><th>Y</th><th>Z</th><th>X</th><th>Y</th><th>Z (Avg.)</th></tr><tr><td>E</td><td>102</td><td>96</td><td>120</td><td>100</td><td>100</td><td>5</td></tr><tr><td>F</td><td>196</td><td>194</td><td>40</td><td>100</td><td>100</td><td>1.7</td></tr><tr><td>G</td><td>177</td><td>279</td><td>23</td><td>100</td><td>100</td><td>2.95</td></tr><tr><td>H</td><td>198</td><td>253</td><td>190</td><td>100</td><td>100</td><td>3</td></tr><tr><td>I</td><td>188</td><td>157</td><td>160</td><td>100</td><td>100</td><td>4.3</td></tr><tr><td>J</td><td>84</td><td>78</td><td>27</td><td>100</td><td>100</td><td>1.45</td></tr></table>	Model	No of Cells			Cell Dimensions (m)			X	Y	Z	X	Y	Z (Avg.)	A	177	279	252	100	100	1.92	B	177	279	252	100	100	1.92	C	218	78	325	100	100	1.78	D	206	83	840	100	100	0.8	Model	No of Cells			Cell Dimensions (m)			X	Y	Z	X	Y	Z (Avg.)	E	102	96	120	100	100	5	F	196	194	457	100	100	1.7	G	177	279	252	100	100	1.92	H	255	290	145	100	100	4.3	I	188	157	160	100	100	4.3	J	196	194	496	100	100	1.53	Model	No of Cells			Cell Dimensions (m)			X	Y	Z	X	Y	Z (Avg.)	A	98	103	33	100	100	2	B	121	108	96	100	100	2.86	C	149	78	55	100	100	1.9	D	206	83	840	100	100	0.8	Model	No of Cells			Cell Dimensions (m)			X	Y	Z	X	Y	Z (Avg.)	E	102	96	120	100	100	5	F	196	194	40	100	100	1.7	G	177	279	23	100	100	2.95	H	198	253	190	100	100	3	I	188	157	160	100	100	4.3	J	84	78	27	100	100	1.45
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6	Are there multiple reservoirs/fields present in the area?	Yes. Fields B & I have multiple reservoirs.
7	If yes, whether multi reservoir model or single reservoir (integrated) model is built?	Integrated models have been built for B & I. Rest of the models are single reservoir models.
8	Is surface network coupled to the model?	MAXIMUS software is used for integrated modeling and simulation of reservoir to surface facilities for each field.
9	Is there a MBAL model available or material balance done and can be made available?	No
10	Is nodal analysis done and VLP curves available? Is artificial lift considered?	Yes. Yes.
11	Should validation process be performed according to the SPE-PRMS classification?	Yes.
12	What kind of reserves are to be validated?	1P (Proved) and 2P(Proved +Probable)
13	Is model validation restricted to the quality of the model construction and the options used?	Please refer scope of work.
14	Is review of surface equipment selection, sizing, etc. required?	Yes
15	What is the mode of data sharing?	Both electronic and hard copy as applicable.
16	Norms/ requirements for FDP being acceptable to DGH.	Please refer scope of work.
17	Please allow us more time for bid submission.	Please refer our notice displayed on DGH website wherein Bid Closing/Opening date has been extended from 24.8.2015 to 3.9.2015. Please note if the bidders have already dispatched their bid to DGH and find it necessary to amend or resubmit the fresh bid as a sequel to DGH reply/clarifications they are permitted to do so before the indicated tender closing date/time.
18	Please confirm the % of withholding tax.	WHT(withholding tax) is ascertained by following factors: (1)The actual places where services are provided. (2) Country of Service provider. (3) Status of service provider: Corporate/Individual, whether public limited or Pvt. Ltd on partnership firm. (4)If partnership firm, whether stay in India by any of partner exceeds or likely to exceed 183 days during the current FY. (5)Details of PE (Permanent Establishment). (6)Whether holding PAN issued by Indian Tax Authorities. (7) Whether TRC (Tax Residency Certificate) available etc. Therefore the bidder may consult its tax consultant for rate of WHT considering the above factors(or any other factors suggested by bidders' tax consultant)
19	As per your tender clause ANNEXURE-III B, page 73 of 78 (SPECIAL CONDITIONS OF CONTRACT, PARA 1 -MOBILISATION)-it is stated that "services to commence on the date of receipt of LOA awarding the contract	Deliverables as per the condition of the tender document have to be ensured. There is no restriction for place of carrying out study. Co-ordination and collection of data from DGH office at NOIDA will be the responsibility of the bidder for completion of the

	and continue until the collection of FDP related technical data by the authorized representative of the contractor from DGH." -EREX UNDERSTANDING: that the bidder can come for the collection of the technical data in person after the placement of LOA from their works (in our case it would be Egypt / Malta) and can take it back to their works in for carrying out the studies, as we are foreign identity and has no permanent place of business in India. Please confirm if we understand your contract terms rightly or not and also please clarify the same.	job and providing the deliverables at DGH Noida within the given time frame.
20	As the lead bidder is expected to be an overseas bidder, would placing a scanned signature (digital signature) of the authorized signatory on the bid document (with an approval from the same) be acceptable to DGH.	Original Signatures are required.
21	PWC India will form consortium with overseas technical consultant who will be the lead bidder. We understand that as PwC India has permanent establishment in India, the consortium will be considered to be based in India and the terms applicable for domestic bidders shall apply for all purposes. Is our understanding correct?	Please be guided by the Clause NO. 7.15 at Page No. 10 of the Tender Document for detailed treatment for Consortium bids.
22	Request for linking the payment with milestones.	Please refer the Payment Terms given in the Tender Document only.
23	Operator and Name of the block is unknown.	Tender document's Special Condition of contract stated at Annexure III B (page 73) Para 5 the bidder has to give mandatory disclosure notifying potential Conflict of Interest which can lead to breach of trust . For this Annexure III C undertaking format essentially refers operator and block. As this is one of the prerequisite of the entire tendering exercise please be informed that the deepwater block specific to this tender is KG-DWN-98/2 and operator is ONGC.

NOTE: NO FURTHER QUERIES WILL BE ENTERTAINED BY DGH.