

Record notes of discussion of Mander I & II SHP pre-bid meeting held at the office of Ramky Advisory Services Ltd., Hyderabad.

Members present:

Sl. No.	Member Name	Company Name
1.	Mr. Sanjib Kumar Aditya	Ramky Advisory Services Ltd.,
2.	Mr. K.C.Keshre	Tata Consulting Engineers Ltd.,
3.	Mr. Amit Bansal	Tata Consulting Engineers Ltd.,
4.	Mr. Sameer Gupta	Voith Hydro Pvt. Ltd.,
5.	Mr. Chinmesh Agrawal	Flovel Energy Private Limited
6.	Mr. T.H.Shankaraiah	B Fouress (P) Ltd.,
7.	Mr. R.Narayanan	Techpro Systems Ltd.,
8.	Mr. Faizan Abbasi	Kirloskar Brothers Ltd.,

At the outset Mr. Sanjib Kumar Aditya welcomed all the participants viz: bidders & the consultants. A brief introduction to Ramky group was presented for all to have an insight of the company business. Also a virtual tour of the site was done by showing site photographs. Subsequently the points submitted by various bidders were discussed & the following are the clarifications.

Sl. No.	Section part/ page no.	Clause No.	Tender Statement	Clarification Sought	Ramky Clarifications
B Fouress (P) Ltd.,					
1.	Volume – II (2/4), page no. 10 of 78	3.1.2	Speed & Pressure rise	Please confirm can we consider speed rise & pressure rise as 65% & 50% as per IS 12837 against tender requirement of 40% & 30%.	The following are to be considered: Pressure Rise – Max 30% Speed Rise – Max 65%
2.	Volume – II (2/4), page no. 5 of 42	1.0.14	Main Inlet Valve	Please confirm can we offer Butterfly valve diameter of 4000 mm against the tender requirement of 4200 mm.	The supplier is free to offer BFV of dia. as per their standard design. (Also Refer S.NO. 26)
3.	Volume – II (2/4), page no. 18 of 78	3.2.11.3	Noise Level	Can we offer Noise level of 90db against the tender requirement of 85db.Please confirm	Not acceptable, Specification to be followed.

4.	Vol. II (2/4), page no. 23 of 78	3.3.2	Guide Vanes	Please confirm can we consider Steel (IS 2062 Gr.B) guide vanes against tender requirement of Stainless steel (ASTM A743 CA6NM).	Not acceptable, Specification to be followed.
5.	Vol II, Tech spec 2/4, page no. 3 of 26	3.1	250kVA Auxiliary Transformer Type - Mentioned Dry Type	Please confirm can we consider outdoor ONAN Type Transformer	O.K, Outdoor ONAN type transformer shall only be considered.
6.	Vol II, Tech spec 3/ 4, page no. 3 of 4	3.1	HT Cable Type	Please confirm whether we can give Aluminium cable against tender requirement of copper cable	Not acceptable, Specification to be followed.
7.	Vol II, Tech spec 4/4, page no. 12 of 21	4.2	Battery Type Lead acid nickel cadmium battery	Please confirm whether can we offer VRLA type batteries against Lead acid nickel cadmium battery	Not acceptable, Specification to be followed.
8.	Vol II, Tech spec 4/4		Passenger lift/Elevator	In general, Passenger Lift/Elevator will not be in scope of E&M package. So we request kindly to remove the same	Not acceptable, Specification to be followed.
9.	Vol II, Tech spec 4/4		EPABX Communication system	In general, communication system will not be in scope of E&M package. So we request kindly to remove the same.	Not acceptable, Specification to be followed.
10.	General		Gate Control	Could you please delete gate control panel from E & M scope since these will be supplied from gate manufacturing	Deleted from scope.
11.	General			Please Mention the Distance between Power House control room & Switchyard for our Power & Control Cable estimations	The Switch yard is adjacent to the PH.
ANDRITZ HYDRO Private Limited					
12.	Vol-II, Section VI C,	Cl. No. 3.1.3,	Elevation of Diversion Weir FRL	As understood this is a cascading type project. Referring to Vol-II, Section VI C, Clause No. 3.1.3, the Elevation of Diversion Weir FRL mentioned is 393.35 m. Please clarify is this for Mander I HEP or for Mander II HEP.	Only Mander I SHP has weir.
13.	Vol –II, Section VI C,	Cl. No. 3.2.9	Speed rise and Pressure rise	As per Vol –II, Section VI C, Clause No. 3.2.9 towards Speed rise and Pressure rise , we would to submit that we shall be offering you Speed rise of 65% against your requirement of 40%.	Refer S.NO. 1

14.	Vol. I, Section I,	Cl. No.4	Bid security	As per Vol. I, Section I, Clause No.4 towards Bid security , the amount mentioned in the bidding document is Rs. 30 lacs. We understand that this amount is total for both the projects	O.K, It is for both the projects.
15.	Vol – I, Section II,	Cl. No. 11.4	Price Schedule	As per Vol – I, Section II, Clause No.11.4 towards Price Schedule , the Plant & Equipment to be quoted from employers country shall be on Ex-works basis. However, as per the detailed Price Schedule under Vol-II, Sec X, Schedule of Price, the price basis mentioned is on FOB/CIF. Please clarify that the supply prices for indigenous supply of items shall be quoted on Ex-works basis.	Supply prices for indigenous supply of items shall be quoted on Ex-works basis. Accordingly new format may be prepared by the bidders.
16.	Vol-II, Section X,		Section No. III, Schedule of Price	Further, referring again to this Vol-II, Section X, Schedule of Price, we have noted that break up prices of equipments have to be submitted. Considering the section No. III, supervision Services (Alternate), we are pleased to inform you that our Scope of work shall consist of Design, Engineering, Manufacturing. Testing and Supply of Electro-mechanical Equipments. The technical services shall consist of Transportation of material to site, Supervision of erection, and commissioning. Actual Erection & Commissioning shall be in your scope of work. All additional details shall be submitted in our Techno-Commercial Offer.	The clause, “Supervision Services (Alternate)” is deleted.
17.	Vol – I, Section III	Cl. No. 22.4.1	Bid Evaluation	As per Vol – I, Section III, Clause No. 22.4.1 towards Bid Evaluation , it is mentioned that Bid Containing deviations from critical provisions related to various GCC clauses shall be considered non-responsive.	Bid will not be rejected outright but If the bid is substantially responsive then it will also be considered.

18.	Vol-I, Section – III	Cl. No. 25.3(b)		As per Vol-I, Section – III, Clause No. 25.3(b) towards Time Schedule, the time for commissioning mentioned is 21 months. Please clarify, if you have any schedule for staggered delivery of the turbine or you need to have all the six machines commissioned within 21 months from the effective date of contract.	Not acceptable, Specification to be followed.
19.				The Excel file for Price schedule which you have sent as part of the tender document is not operable. Please resend the soft copy of the same to enable proceed at our end.	Agreed & attached
20.				To enable offer you most economical solution; please provide us extension of 4 weeks for submission of the offer from the original submission date.	The bid submission date is postponed to 7 th Feb 2011.
Flovel Energy Private Limited					
21.	Vol-II,2/4, page No. 3 of 42 page No. 11 of 78	5 (a) 3.1.3 (1)	Project Information Turbine & Auxiliary Specifications	In this section the Net head is specified as 18.37 m for Mander – I. In this section the Net head is specified as 18.4 m for Mander I. Please confirm the correct rated, minimum & maximum head details for Mander I.	Net head is confirmed as 18.37 m
22.	Vol-II, 2/4, page No. 7 of 42	5 (a)	Project Information	In this section the Net head is specified as 18.6 m while details of minimum & maximum heads are not specified for Mander II. Please confirm the correct rated, minimum & maximum head details for Mander II.	The design of Mander II E&M shall be exactly as per Mander I specification.
23.	Vol-II, 2/4, page no. 4 of 42 page no. 12 of 78	10 (d) 3.1.3 (11)	Project Information Turbine & auxiliary Specifications	In this section the Penstock Length is specified as 47 m for Mander I. In this section the Penstock Length is specified as 45 m for Mander I. Please confirm the correct Penstock Length for Mander I.	The correct Penstock Length for Mander I is 47 m

24.	Vol-II, 2/4, page no. 2 of 42 page no. 12 of 78	4(a) 3.1.3 (4&5)	Project Information Turbine & auxiliary Specifications	In this section the Design Discharge is specified as 52.44 cumecs for Mander I. In this section the Nominal Rated & Maximum Discharge per turbine are specified 52.5 cumecs & 57.5 cumecs for Mander I. Pls. confirm the correct discharges for Mander I. Please also confirm the correct discharges for Mander II	Refer S.NO. 22
25.	Vol-II, 2/4, page no. 17 of 78	3.2.9	Turbine & Auxiliary Specifications	The Speed Rise is specified as 40% for both the projects. As both the projects are with Full Kaplan turbines wherein the Runaway Speed itself is almost 3-times the rated speed, We would request you to confirm the Speed Rise as 50% which is most prevalent in Kaplan Turbines. The Pressure Rise is specified as 30% for both the projects. As both the projects are with low head Vertical Full Kaplan Turbines, we would request you to confirm the Pressure Rise value as 45%.	Refer S.NO. 1
26.			Power House Layouts for Mander I and II.	Since both the projects are having individual penstocks & are with Vertical Full Kaplan Turbines, we feel there is no need to provide independent Butterfly Valves before the turbine inlet. Instead individual gates can be provided which will be much cheaper & would also reduce the overall cost of the project. Moreover, many projects with similar arrangements are running successfully & hence we would request you to remove these Butterfly Valves from the scope of supply for these projects.	The requirement of BFV is being studied. Bidders are requested to quote for the same as an optional item. (Also refer S.NO. 2)

	Vol-II, 1/4, page no. 7 of 17 page no. 25 of 41	38 10.3 & 10.4	Schedule of requirement for supply	In this section the OLTC range for Generator Transformer is specified as + 5% / - 15% in steps of 1.25%. In this section the OCTC range for Generator Transformer is specified as +10% /- 10% in steps of 2.5%. Considering above mismatches, please confirm the exact requirement & rating of Tap changers required for Generator Transformers.	The correct rating of Tap changer is +10% /- 10% in steps of 2.5%.
27.	Vol-II, 3/4, page no. 7 of 17 page no. 15 & 17 of 26 SLDs as included in your tender.	39 1.2, 2.1 & 7.0	Schedule of requirement for Supply Power Transformer Specifications – Data Sheet A1	In this section the rating of Station Auxiliary Transformer is specified as 315 KVA,11/0.433 KV, ONAN with OCTC of +5%/-5% in steps of 2.5% & the quantity is specified as 2 sets while no Lighting Transformer is specified. The rating of Station Auxiliary Transformer is specified as 250 KVA, 11/0.433 KV, AN with OLTC of +5% /-5% in steps of 2.5% & the quantity is specified as 2 sets. Also 1 set of 100 KVA Lighting Transformer is included in the scope of supply. The rating of Station Auxiliary Transformer is specified as 250 KVA,11/0.415 KV and the quantity also is specified as 2 sets while 1 No. 100 KVA, 415 V/415 V Lighting Transformer is also shown in the scope. Considering above mismatches, please confirm the correct rating & quantity of Auxiliary & Lighting Transformer required.	The rating of Station Auxiliary Transformer is 315 KVA with OLTC of +5% /-5% in steps of 2.5% & the quantity is 2 sets. In addition 1 No. 100 KVA, 415 V/415 V Lighting Transformer is also in the scope.
28.	Vol-II, 1/4, page no. 7 of 17 Vol-II, 3/4, page no. 20 of 32	40 1.2 & 2.3	Schedule of requirement for Supply Diesel Generator Specifications – Data Sheet A1	This section mentions the scope of supply as 1 set of 250 KVA DG set only. This section mentions the scope of supply as 2 nos. DG sets of 250 KVA & 50 KVA. Considering above mismatches, please confirm the exact requirement of DG sets.	50 kVA DG set is deleted from the scope. Also rating of 1 no. 250 kVA DG set, is increased to 315 kVA .

29.				Please provide the distance & elevation (if any) between the Power House & proposed 132 KV Switchyard for calculating the cable lengths accordingly.	The Switch yard is adjacent to the PH & its El. is same as Service bay.
30.				Please provide the value of earth resistivity to be considered so as arrive at the design of earth mat accordingly,.	Earth resistivity of 300 Ohm-m may be considered for bid purpose.
31.			GTPs format in Soft Copy	Please arrange to send us all the Tender Schedules (Price Schedules, GTPs Format & EMD BG format etc),. In editable soft copy (MS word) at the earliest so as to help us prepare our offer (Price Schedules, Technical Schedules (GTP's etc.) Accordingly.	Refer S.NO. 19.
32.	Vol-I, Section I, page no. 3 of 6	5	Invitation for Bidders	The amount of Bid Security is specified as Rs.30 Lacs which we presume is common for both the projects Mander I & Mander II.	Refer S.NO. 14.
HPP Energy India Pvt. Ltd.,					
33.	Salient Features, Turbine Technical Specifications.		Hydrology details	Kindly inform us the following information of both Mander – I & Mander II HEP's: 1. Rated Net Head 2. Maximum Net Head 3. Minimum Net Head 4. Gross Head 5. Rated Discharge 6. Maximum Discharge 7. Minimum Discharge	Refer S.NO. 22

34.	Volume – II (2/4) Sub Section – 3, page No.21 of 78	3.3	‘General arrangement and construction of Turbine’ Direction of Rotation of Turbine Runner should be Clockwise when viewed from top (Generator end)	As per our design, the Direction of Rotation of Turbine Runner shall be anticlockwise, when viewed from top/non driving end. Kindly confirm.	The Direction of Rotation may be as per manufacturers own design.
35.	Volume – II (2/4) Sub Section-4, page No. 10 of 56	4.11	‘Brakes’ Pneumatic Braking System	We shall be supplying hydraulically operated brakes for Generator braking. The Brakes shall be mounted on the coupling of Generator & Gear-Box on Generator side. Kindly confirm.	Hydraulic braking is acceptable. The ‘gear box’ is not relevant.
36.	Volume II (1/4) Sub Section – 2 Schedule – II, page No. 9 of 17	2	‘Spares’	Spares shall include the mandatory spare parts specified in the Technical Schedule 15 D . We could not find the Schedule 15 D for list of mandatory spares in Tender documents. Hence, we request you to kindly furnish the same.	The mandatory spare and tool & plants list is provided in the respective chapters. Also the bidder can suggest recommended spares.
37.	Volume – II (1/4) Sub Section – 2 Schedule – II, page No. 9 of 17	3	‘Tools and Plants’	Tools and Plants shall include the mandatory Tools and Plants specified in the Technical Schedule 15 E . We could not find the Schedule 15 E for list of mandatory Tools and Plants in Tender documents. Hence, we request you to kindly furnish the same.	
Voith Hydro Pvt. Ltd.,					
38.	General			Please provide the earth resistivity value for power house and switchyard for estimation of earthing quantities.	Refer S.NO. 30
39.	General			Please confirm the water quality (slit level)	Negligible silt.
40.	General			Please provide the distance between the Power house and switchyard for estimation of cables.	Refer S.NO. 29.

41.	General			We request you to extend Bid Submission date atleast by 1 month.	Refer S.NO. 20
42.	VIC, Page No. 11 VIC, Subsection 1, 1.0 (5.a) page 3	3.1.3 (1)	Turbine and Auxiliary Project information	>Design head (Net) : 18.4m (In 'Turbine and auxiliary) >Net head : 18.37 m (In project information) Please confirm the discrepancy in Head for Mander I.	Refer S.NO. 21.
43.	VIC, Sub section 1, Pg No. 7	1.0 (5.a)	Project information	Net head : 18.6 m Please confirm the net head for Mander II. Also provide the Maximum / Min. Head for Mander II. Confirm if Rated Head, maximum head, minimum head and settings are same for Mander I and II.	Refer S.NO. 22.
44.	Section VI C, Page 44.	3.8.1		The penstock shall be tapped and connected to the Cooling water header to supply cooling water under emergency conditions only. We propose to take the cooling water for various cooling water consumers from the tail race. Since sufficient head is not available at the penstock, we do not recommend tapping for cooling water from penstock. Please confirm.	Not acceptable, Specification to be followed.
45.	VI C, Page 45	3.8.2		Unit dewatering system shall be provided for dewatering all the hydraulic passages to a dewatering sump. Common dewatering sump with common dewatering pumps (1 working + 1 stand by) of suitable capacity for dewatering of one unit at a time shall be provided. Please confirm.	Not acceptable, Specification to be followed.

46.	VI C	8.2		Brushless Excitation System. The brushless excitation system shall essentially comprise a pilot exciter (Permanent Magnet Generator), SCR bridge exciter, field breaker discharge resistor, main exciter, rotating diodes etc. Permanent magnet generator is not recommended for such rating of machine and only brushless excitation system is sufficient and PMG is not required.	Tender specification adequately addresses this point.
47.	SCC	26.2	Max. Deduction for liquidity damages	The suggested values are too high & we suggest 0.5% of total contract price per week of delay on unit wise or part thereof & the max. Deduction is 10% of the total contract price.	Accepted.
48.	SCC	27.2		“The equipment shall be so designed and erected such that it shall not be prone for any NORMAL wear and tear within the 21 months period which jeopardize the performance of the units and requires replacement of equipment or the parts thereof”. Please note that normal wear and tear shall be applicable. We request you to kindly delete this clause.	Not acceptable, Specification to be followed.
49.	SCC	27.8		“Upon correction of the defects in the facilities or any part thereof by repair/replacement, such repair/replacement shall have the Defect Liability period extended by a period of twelve (12) months from the time such replacement/repair of the facilities or any part thereof”. We request to add further “however maximum period shall be 36 months from Completion”.	Agreed & accordingly the following is revised : “The period of 5 years shown in SCC (Volume-I , Section V, Clause 27.8.1 page no. 24 of 35) shall be read as 36 months. “

50.	SCC	27.8		At the end of the Defect Liability Period, the contractors' liability ceases except for latent defects. The contractors liability for latent defects warranty shall be limited to period of five (5) years from the end of Defect Liability period. The Latent defects shall be 5 years from commissioning.	Refer S.NO. 49
51.	SCC	27.10		The critical components cover under the extended warranty are turbine bearing, generator bearings, generator windings, pole coils, AVR, governor, Transformer, and the period shall be 5 years. Please delete this clause as providing additional warranty is not viable.	Not acceptable, Specification to be followed.
Alstom Projects India Ltd.,					
52.				To offer responsive bid preparation, we request you to accord us extension for 30 days beyond the last date of submission & oblige	Refer S.NO. 20
Additional observations discussed during the meeting					
53.	GCC, page no. 22 of 35	GCC 26.2,	Completion time guarantee	Max. Deduction for liquidity damages: The applicable rate is 1% of total contract price per week of delay or part thereof & the max. Deduction is 10% of the total contract price	Refer S.NO. 47
54.	Section III, Pg. 14/30, Section VII , Pg. 67/105	ITB 25.3(c) 5	Efficiency Guarantee	1.Efficiency of the turbine at 110%, 100% & 80% rated output shall not be less than 90% 2.Efficiency of generator at 110%, 100% & 80% rated output shall not be less than 97% 3.The weighted average efficiency of turbine& generator unit arrived as per clause 3.2.4 below shall not be less than 86%.	The clause as in ITB 25.3(c) prevails