

**MINUTES OF THE PREBID MEETING DATED 22.05.2015
FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF DG SET AT
PII, COONOOR.**

**Tender Enquiry Document No. NPI/110831/ELC/TD/02A Rev: - 02,
Issued on 11.05.2015**

Venue: HLL Biotech LTD, TICEL Bio Park, Chennai

Project : Pasteur Institute of India, Coonoor
Date of the meeting : 22nd May 2015
Attendees : See attached list of attendees
Distribution to : HBL Biotech Limited

- All Concerned Persons

Pasteur Institute of India, Coonoor

- All Concerned Persons

NNE Pharmaplan India Limited

- All Concerned Persons

DG vendors

- To all the prospective bidders

Issued by : Chief Executive Officer (HBL)
Issued on : 26th May 2015
**Agenda : Pre-bid meeting for Supply, Installation, Testing and
Commissioning of D.G set at PII,Coonoor**

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The Pre-bid meeting was held on 22nd May 2015 at HLL Biotech Ltd, TICEL Biopark, Chennai. The following points were discussed and finalized during pre-bid meeting

S.N	Amendments to the tender & Clarifications to the pre-bid queries.
1	Perkins make engine shall be included in the List of Approved makes of engine
2	As mentioned in the tender, the DG set shall be installed on 2000 Mtr above MSL. Vendor has to consider altitude de-rating factor for selecting engine and alternator and produce net output 1250KVA
3	Comprehensive warranty shall cover only manufacturing defects. Periodic and preventive maintenance spares shall be in the scope of customer. However all the services (DG servicing, routine & breakdown maintenance) during the warranty period shall be done by the vendor free of cost.
4	DG vendor shall quote for both supply and installation (Inc. of all taxes) as given in BOQ. Only one work order will be issued and no split order will be given for Supply and Installation separately
5	All the queries raised by the parties and their subsequent clarifications are attached as Annexure-1 (From Page no.4 to Page no.22)
6	Henceforth, this pre-bid meeting MOM shall be considered as a part of the original tender.

For HLL Biotech LTD,



Raman K Ramachandran

CEO (HBL)

Annexure-1

COMMERCIAL QUERIES AND REPLIES

Sr. No	Desc in BOQ	Desc in Spec & Dwg	Tender		Serial No		Bidder query	Reply
			Page	Clause / Pt.	BOQ	Spec		
1	Warranty period 24 (Twenty Four) months from the date of Completion. & 2.3.7 WARRANTY PERIOD: a) The D.G. set shall be guaranteed to perform without any flaw for a period of 12 months from the date of commissioning or 18 months from the date of dispatch.				Cl. No. 2.3.7 on Page No. 29 of 125	Cl. No. 13 on Page No. 124 of 125 &	As per standard practice followed by all Govt. Depart. / PSUs etc. warranty is always 12 Months from the date of Commissioning or 18 Months from the date of Supply or 5000Hrs which occur earlier as you had stated wide your Cl. No. 2.3.7 on Page No. 29 of 125. So, kindly amend suitably. We may provide several references in this regard if you will ask. It is requested to kindly extend the due date at least 15 to 20 days from the date of issuing the Amendments for above as you know that this tender is a manual tender not the e-tender. So postage of bidding document may take 7 to 10 days depend upon the dispatch location from all over India basis We wish to mention here that there are Separate organizations in the Country for the D.G. Set after Sales Service, who provides Spares & Service after expiry of warranty period. Hence it would be better that for CMC those companies should be approached after expiry of Warranty OR We would suggest you to go for AMC (Annual Maintenance Contract) in place of CMC. AMC service can be	24 (Twenty Four) months from the date of Completion.
2	Request for extension of due date							Not Acceptable
3	CMC							Not Acceptable

Sr. No	Desc in BOQ	Desc in Spec & Dwg	Tender		Serial No		Bidder query	Reply
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							provided by DG Set manufacturer or Service dealer. As in CMC scope cannot be defined by both end neither by HLL nor by Service Dealer.	
4	Price preference & Exemption of Security deposit for SSI Units						SSI Benefits: - This particular tender does not have suitable provisions for exemption Security Deposit and Price Preference for SSI Units registered with NSIC in line with circular ref. 22(1)/2003/EP&M dt. 29.7.2003 issued by Govt. of India in the Ministry of Micro, Small & Medium Enterprises,	"SSI Units registered with NSIC shall be eligible for Exemption from payment of EMD, Security Deposit upto the monetary limit for which the unit is registered, & Price Preference upto 15% over the quotation of the Large Scale units".
5	Qualification Criteria			Clause no.2			As per section – IX under Clause No. 2 at page No. 96 there is mentioned that "The firm must have supplied, installed and commissioned at least 5 DG sets of rated capacity or above during the last three years." Our most of the Members are SSI Unit, Since 1250 KVA DG Set Bigger Rating DG Set which attract a heavy Capital amount. So normally they use to supply such bidder rating DG Set in a very less quantity. Hence in view of this you may keep your qualification criteria as suggested below. "The bidders have successfully completed & Installed 2 x	Not acceptable, As per tender

Sr. No	Desc in BOQ	Desc in Spec & Dwg	Tender		Serial No		Bidder query	Reply
			Page	Clause / Pt.	BOQ	Spec		
6	Delivery (Supply, Installation, Commissioning and Hand-over). Supply shall be made 3 months from the date of placement of the order and installation shall be completed within 2 Months from the date of delivery at the site.					Cl. No. 5 on Page No. 124 of 125	Since the DG Set Rating 1250 KVA is bigger rating. These rating are manufacturer against order only. Hence it requested to you that kindly keep the delivery period at least 5 Months for Supply.	Not acceptable, As per tender

TECHNICAL QUERIES AND REPLIES

Sr. No	Description in Spec & Dwg	Page No			Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg		BOQ	Spec		

Sr. No	Description in Spec & Dwg	Page No			Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg	BOQ	Spec			
1	Chapter 2.1. Scope of supply and service				2.3.1		Trial run for 30 days – Fuel, load and required consumables to be supplied by client. Kindly confirm no. of hours per day. Request you to make for 7 days.	Trial run for 30 days, Fuel, load and required consumable will be supplied by client ,4 hours per day
2	Governing system of Diesel gensets						Synchronizing relay by DG vendor or Electrical contractor, Since Panel and bus duct are in Electrical contractor scope request for adaptor box also in electrical vendor scope.	Synchronization relay will be in the scope of electrical contractor. Adaptor box in DG vendor scope.
3	Chapter 2.1						Ambient temperature for alternator will be 40 Deg C.	Ok, Agreed
4	Duty						Continuous (Please confirm as Prime Continuous)	Prime duty
5	Chapter – 2.3				2.3.2.2		Technical Specification of diesel generator set I –Please confirm whether the Dg sets to be synchronized with grid.	NO, DG sets are not to be synchronized with grid.

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
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6	Instrument panel					<p>1. Lube oil temperature guage not available.</p> <p>2. Mechanical tacho meter(digital rpm meter will be provided)</p> <p>3. Synchronizing panel is not in DG vendor scope, hence automation is not part of Dg vendor.</p>	<p>OK, Agreed</p> <p>DG vendor has to assist electrical contractor for synchronization.</p>
7	Alternator.		99		2.3.2	<p>Terminal box detachable type (please include this in electrical vendor scope since the bus ducts are not in Dg vendor scope)</p>	<p>Terminal box shall be in DG vendor scope</p>
8	RTD and BTD					<p>RTD and BTD are not standards for genset below 1500Kva.</p>	<p>Shall be provided as per tender.</p> <p>PCB approval shall be done by DG Vendor in coordination with electrical contractor. If any deviations/modifications as suggested by PCB shall be complied by DG supplier. However CEA approval shall be in the scope of the DG bidder.</p>
9	All statutory approvals such as EB and pollution control board NOC and approval of Electrical inspector (CEA) for installation drawing and installation work in supplier's scope.		92		2.3.1.1	<p>PCB shall be in the scope of customer. All DG related documents shall be provided by bidder. CEIG / CEA approval shall be in the scope of GMMCO</p>	<p>PCB approval shall be done by DG Vendor in coordination with electrical contractor. If any deviations/modifications as suggested by PCB shall be complied by DG supplier. However CEA approval shall be in the scope of the DG bidder.</p>

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg	BOQ	Spec		
10	Acoustic enclosure				2.3.3	Material thickness 100mm, density of rock wool will be 64Kg/m3. Silencer will be of residential type. High enclosure temperature not required.	Ok, Agreed.
11	Testing				2.3.6	A. Factory Test – Engine and alternator test certificates will be submitted. Separate tests are not possible for engine and alternator. B. site test – Facility Load to be provided by client for 8 hour trial. f. First fill of lube oil will be filled from our factory, required first fill of diesel to be arranged by client.	A. Assembled factory test shall be provided. B. OK, Agreed. f. OK, Agreed.
12	Warranty Period				2.3.7	c. In case of failure of equipment to meet the guaranteed performance required adjustments will be made to meet the same.	Agreed.
13	Section IV- General conditions of contract				20.	Taxes and duties - will be charged at prevailing rate at the time of invoicing.	Agreed

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
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14	Trial run for thirty (30) days, rectification of defects, if any and adjustments as necessary.				Cl. No. 2.1.3 on PageNo. 10 of 125	Please Note that after SAT (Site Acceptance Test) of 8 Hrs during testing & commissioning of the DG Set, the DG Set shall be handover to HLL for their normal use and warranty of the DG Set shall start with effect from commissioning date. After this HLL may take Trials up to Warranty period. Rectification of defects, if any and adjustments as necessary shall be done by the service center during warranty period. However if you wish	Defects or adjustments and rectification during warranty period shall be under the scope of DG vendor.
15	Location of D. G. Set will be installed at Utility Building at Ground Floor 5.5 Mtr of height.				Cl. No. 2.1.4 on PageNo. 10 of 125	Please Let us know here the Height i.e. 5.5 Mtr. is the Height of Ground floor Roof or the ground floor situated at the Height of 5.5 Mtr. where DG Set has to be Installed. Please Clarify.	5.5 Mtr. is the Height of Ground floor Roof from finished floor level.

Sr. No	Description in Spec & Dwg	Page No			Serial No		Bidder query	Reply
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16	<p>Duty - Continuous & 2 Nos. 1250 KVA DG Set with(Prime duty ,net output) complete with all the accessories and required batteries, fuel system, cooling system, exhaust system etc.</p> <p>& General: Diesel Engine shall be of heavy duty robust construction, suitable for both intermittent and continuous duty.</p> <p>& The engine shall be suitable for Prime power application and should be capable to run on 10% overload for 1 hour duration in every 12 hours of operation as per ISO regulations.</p>					<p>Please Clarify</p> <p>However as per standard Practice & as per ISO 8528 there are 3 different types of DG Set rating:-</p> <p>(1) Base load or continuous duty:- You can put fix 80% load continuously up to unlimited hours. No variable loads are allowed in this.</p> <p>(2) Prime Power Rating: - You can give varying load continuously up to unlimited hours. 10% of every load for 1 hour is allowed. Average loading should be 70%.</p> <p>(3) Standby /limited power: - You can take full output for 500 hours in a year Maximum No over loading allowed.</p> <p>Please note that in India 99% prime power rating is used for standby power back up. Kindly Re-check and Confirm.</p> <p>As per your Tender Cl. No. 2.1.4 on Page No. 10 Prime duty is clearly mentioned.</p>	<p>(2) Prime Power Rating: - You can give varying load continuously up to unlimited hours. 10% of every load for 1hour is allowed. Average loading should be 70%.</p>	
17	Starting- Maintenance free VRLA Batteries					Here it may be typographical error. Here "Electric Self Starter Motor" should be mentioned.	As per tender	

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18	Direct injection "Diesel Engine of suitable BHP, turbo charged, Radiator cooled, 4 stroke multi cylinder vertical in line						As per Standard Practice in High Rating DG Set mostly cylinder Arrangement would be "VEE" Type not "Vertical in line" type due to above 10 Nos. of Cylinders. In Cummins & Perkins Make Engines there would be VEE Type Arrangement of cylinders. Kindly amend suitably. However cylinder arrangement will not effect the performance of Engine.	OK, Agreed

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/Dwg	BOQ	Spec		
19	<p>Following Instrumentation shall be provided on genset:</p> <p>Starting push button and switch with key. AUTO / MANUAL Selector Switch. DG TRIP / DG ON / DG OFF / SUPPLY ON / SUPPLY OFF"Indications with LED lamps. Lube oil pressure gauge. Lube oil temperature gauge. Water temperature gauge. Mechanical tachometer and RPM indicator.Safety control for engine shut off (TRIP) with visual indicationfor low tube oil pressure. Safety control for engine shut off (TRIP) with visual indication for high water temperature Safety control (TRIP) with visual indication for low fuel level Electrically operated fuel solenoid- Emergency stop (Flameproof type).D.C. Ammeter and voltmeter to indicate status of battery &battery charger. &Engine Instrument/Operator Panel: Starting push button and switch with key, remote start / stop facility and required terminations Lube oil pressure Lube oil temperature The start / stop push buttons will be Located in DG Panel. Following Indication and Control shall be provided</p>					<p>As per latest technology the Lube oil temp, Lube oil Pressure, High lube oil temp, High water temp Sensor/ Gauges are inside the engine & are in closed circuit. Hence these will not be part of instrument panel. However instrument panel will have only one microprocessor based Engine DG set controller which shall have all the parameters, safeties, Indications etc. Like LLOP,HWT, Over speed, Battery charging amp, Battery voltage, low battery alarm, Indications, circuit breaker, Engine shutdown, common warning indications etc. The instrument panel mention in your tender does not exist in market & obsolete now. As per latest technology microprocessor based DG controller has taken place which have all the features as said above. (as per clause No. XII on page No. 20 of 125)</p>	Accepted. LLOP and JWT gauge shall be provided

CINo.
2.3.1.2
(A-XII) on
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&Cl. No. I
on
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Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/Dwg	BOQ	Spec		
20	Also priming pump shall be provided with Auto ON/OFF during Standstill condition.			Cl. No. D on Page No.22 of 125		As per latest Design High Speed Diesel Engines, Separate AC motor driven lubrication is not required. For These Engine it is not applicable as it has in built lubrication system and oil film is retained on the friction components. A priming pump is required before bringing the engine into operations after extended storage beyond 6 months or after engine repairs. Hence AC Lube oil Priming pump will not be required.	Accepted
21	Lubricating system shall also consist of pressure gauge, temperature and oil level indicators,			Cl.No. D on Page No.22 of 125		Oil Level Indicator for Checking Oil Level in the Engine there would be dipstick to see in check the level of oil in the Engine With marking of max & low as like the Engine of Car & other Vehicles.	Pressure gauge to be provided. Dip switch accepted
22	Engines shall be started with 24 volts starter motor complete with 1 set of 24V DC Maintenance free VRAL Battery of adequate AH rating,			Cl. No. H on Page No.23 of 125		There would be 2 Nos. 12V batteries which give 24V output. Kindly amend suitably.	Accepted.
23	Mounted on fabricated MS angle frame fitted with nylon castor wheels filling up the battery with acid to be done before starting			Cl. No. H on Page No.23 of 125		Battery stand should not have any type of wheel to avoid any damage during DG Set Running Vibration as per standard practice. Nylon Castor Wheel never installed in the battery stand.	Accepted.
24	Transient Voltage Dip shall not be more than 14% on application of full load at rated power factor.			Cl. No. ii on Page No.25 of 125		TVD range shall be more than 15% and less than 20%. This is the limit available with the makes of Alternator mentioned by you and it is permitted as per IS 4722.	Accepted

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25	Sliding doors shall be provided for easy access to the DG set while minimizing the operating space requirements.				Cl. No. 2.3.3 on Page No. 25 of 125		Acoustic Enclosure Doors shall be Hinged type and not the sliding type. Sliding doors cannot be installed in Acoustic Enclosure as Acoustic Enclosure body shall be made of CRCA Sheet filled with Glass Wool/ Rock Wool. As per Standard Practice of the DG Set Industry Acoustic Enclosure's Door shall be Hinged Type. Kindly amend suitably.	Accepted
26	Battery, Fuel tank shall be housed inside the enclosure upto 750KVA DG set and above 750 KVA DG set Battery, Fuel tank shall be housed outside the enclosure				Cl. No. 2.3.3 On Page No. 25 of 125		As per standard practice Batteries would be placed inside the Acoustic Enclosure on a MS angel Frame and the Fuel tank shall be housed outside. Kindly amend suitably.	Accepted
27	Noise level is 75 dB(A) at distance of 1 mtr. in open free field environment as per ISO8528 part 10.				Cl. No. 2.3.3 On Page No. 27 of 125		Noise norms are applicable only up to 1000 KVA DG Set. As per ministry of environment & Forest Notification No. GSR 371 (E) dated 17.05.2002. Since your rating is 1250 KVA so noise norms for acoustic enclosure shall not be applicable.	As per CPCB norms
28	Following accessories shall be provided for D.G set, but not limiting to that Suitable Heat Exchanger & The engine cooling shall be done through a Radiator cooling system.		107		Cl. No. 2.3.4 (e) on Page No. 27 of 125 & Cl. No. C On Page No. 22 of 125		The engine cooling system would be radiator cooling system as per specified in Cl. No. C on Page No. 22 of 125 "The engine cooling shall be done through a Radiator cooling system." Kindly suitable change or amend/ delete.	Accepted

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg	BOQ	Spec		
29	<p>Following accessories shall be provided for D.G set, but not limiting to that</p> <p>aa) Genset protection Panel if required.</p> <p>bb) Bus Duct/Cable of appropriate rating for each DG from Alternator to Main LT Panel of client &</p> <p>All electrical material like Earthing electrodes, earthing strip ,Outdoor Isolator panel near to DG sets , interconnecting power and control cables , Synchronization module etc shall be supplied and installed by electrical contractor However installation of material under the supervision and guidance of DG supplier</p>					<p>All electrical material like Earthing electrodes, earthing strip ,Outdoor Isolator panel near to DG sets , interconnecting power and control cables , Synchronization module etc shall be supplied and installed by electrical contractor However installation of material under the supervision and guidance of DG supplier (Guidance has to be given by DG vendor)</p>	
30	<p>VENDOR TO SUBMIT FOLLOWING IN 3 SET WITH THE OFFER (English Language):</p> <p>a) Layout drawings.</p> <p>b) Shaft HP engine calculation.</p> <p>c) Room Dimensions indicating height etc.</p> <p>d) Exhaust piping arrangement including height of exhaust.</p> <p>e) Exhaust stacks support calculation.</p>				<p>Cl. No. 2.3.4 (e) on Page No. 28 of 25 & Cl. No. 2.1.4 on Page No. 11 of 125</p> <p>Cl. No. 2.3.5 On Page No. 28 of 125</p>	<p>As per Cl. No. 2.1.4 on Page No. 11 of 125 under head of Scope of Work there is clearly mentioned that all Electrical Works are in scope of electrical Contractors whereas as per Cl. No. 2.3.4 (e) on Page No. 28 of 125 there is some requirement. Please clarify. Kindly amend suitably.</p> <p>Shaft HP engine calculation. - Such detail do not have with DG Manufactured. Engine BHP detail is given in the Engine Broacher by the Engine Manufacturers. However all these drawing can be provided during design and engineering after award of job. This is post award activity. Hence it cannot submit with offer. Kindly amend suitably.</p>	<p>Accepted.</p>

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg	BOQ	Spec		
31	Routine Tests of alternator and Engine at respective manufacturer's works.					<p>Since this tender is for DG Set not for the separate Engine & Alternator only. Hence Routine Tests & Load tests will be carried out on Complete DG Set as per standard Practice. Please note that Engine & Alternator shall be manufactured at their respective Manufactures Place and all routine test shall be carried out there and the routine test certificate as per latest IS/BS standards shall be issued by the manufacturers which shall be provided to the inspector during inspection of complete DG Set at our works.</p>	Accepted. (Tests of complete DG set shall be carried out as per tender)

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg	BOQ	Spec		
32	Fuel consumption tests by using flow meters. (Fuel costs shall be included) & Fuel consumption tests by using flow meters.					Fuel Consumption Test can be done by measuring Diesel Tank Level at intervals of time. However offered engine's fuel consumption at difference loads are declared by Engine Manufacturer in their leaflet and it shall be in tolerance of +5% as per IS 3046 as declared by Engine Manufacturer. Fuel consumption tests by using flow meters cannot be done at DG Set manufacturer works. As such Flow Meters & other required gadgets normally do not have by DG Set Manufacturer at their works. To do the fuel consumption test special equipment and gadgets are required which can be only available at engine manufacturer's works.	Fuel consumption tests at Factory by using flow meters shall be included as mentioned in the tender.
33	Copies of type test certificates conducted on similar type of D.G.set shall also be submitted. 1. DG set starting time 2. Fuel consumption test					Type tests are applicable only for individuals' engine and alternator but not for DG set. Hence type test for DG set not be applicable.	Accepted.

Sr. No	Description in Spec & Dwg	Page No		Serial No		Bidder query	Reply
		BOQ	Spec/ Dwg	BOQ	Spec		
34	990 Ltr. MS Tank with Glass Tube type Level indicator for measurement (Tank shall be part of Acoustic enclosure) with in built fuel piping system & Battery, Fuel tank shall be housed inside the enclosure up to 750 KVA DG set and above 750 KVA DG set Battery, Fuel tank shall be housed outside the enclosure				Cl. No. 1.1 on Page No. 38 of 125 & Cl. No. 2.3.3 on Page No. 25 of 125	As per Cl. No. 1.1 on Page No. 38 of 125 Schedule of Quantity under head of Diesel Generator it is mentioned that "990 Ltr.MS Tank with Glass Tube type Level indicator for measurement (Tank shall be part of Acoustic enclosure) whereas as per Cl. No. 2.3.3 on Page No. 25 of 125 under head of Acoustic Enclosure it is mentioned that "Fuel tank shall be housed outside the enclosure". Please Note that in such higher rating of DG Sets Day oil tank of 990 ltrs shall be placed outside the acoustic enclosure as per standard practice. Kindly amend suitably. Also we would request you to please confirm the proposed distance between day tank to DG Set that to enable us to estimate the length of fuel piping	Accepted. Minimum 5 mtr. length to be considered.

List of Attendees



LIST OF ATTENDEES

Project : P11, Conner, DG Set
Date of Meeting : 22/05/2015.
Venue : HBL office, Chennai
Subject : Supply, Installation, Testing & Commissioning of DG Set - Poebird, Alentir

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