

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan-786602, Assam, India
E-mail: fieldengineering@oilindia.in

Ref: EOI/FE/NG Engine/2018

EXPRESSION OF INTEREST

Oil India Limited (OIL) invites Expression of Interest (EOI) for “CPCB II compliant Natural Gas Engine driven Generating set” for sizes 50KVA, 125KVA, 250KVA, 500KVA or any other size upto a maximum capacity of 800 kW from reputed firms. The complete EOI is hosted in OIL’s web-site (www.oil-india.com/NExpressionOfInterest). Interested Parties are invited to submit their EOI, complete with all documents within date **30.04.2018 (15:00 HRS)** through courier/post super-scribing “Expression of Interest for “CPCB II compliant Natural Gas Engine driven Generating set” at the address mentioned in the EOI. All corrigenda, addenda, amendments, time extension etc. to above EOI will be hosted on the website only and no separate notification shall be issued in the press. Interested parties are requested to regularly visit the website to keep themselves updated.(Note: CPCB: Central Pollution Control Board)

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Expression of interest for 'Natural Gas(NG) Engine driven Generating set for sizes 50KVA, 125KVA, 250KVA, 500KVA or any other size upto a maximum capacity of 800 kW

Requirement:

OIL INDIA LTD requires Natural Gas engine driven generating sets of sizes 50KVA, 125KVA, 250KVA, 500KVA or any other size upto a maximum capacity of 800 kW for our operational activities under FHQ of OIL. Interested parties having the qualifying are invited to submit their EOI complete with all documents within **30.04.2018 (15:00 HRS)**. OIL may decide to invite the qualifying parties for a presentation of their proposal at a later date in OIL's premises at Duliajan.

Interested parties are to forward their individual Range of Product as per the following format:

Sl. No	Genset Rating	Alternator Make	Engine Ratings:				Remark, if any
			Horse Power	RPM:	Make	Model	
	415V, 3Phase, 4wire type, 50Hz	Kirloskar/NGEF /Stamford/Cromptongreaves/Caterpillar/KATO/ General Electric USA		1500			

B.O) The qualifying criteria are as per below :

Broad Technical specifications of the Engine:

- D)** All equipment in the offer shall conform to the following relevant codes & standards.
- a. BS: 5514 or ISO 3046 or equivalent Indian Standard: Specification for reciprocating internal combustion engines.
 - b. ISO 8528 or equivalent Indian Standard: Rotating electrical machine.
 - c. IS: 12065 Noise limit
 - d. IS: 13364 Specification of Alternator coupled with IC Engines
 - e. IS: 12075 Vibration
 - f. IS: 4691 Enclosure Protection.

- g. IS: 6362 Cooling.
- h. IS: 2253 Mounting.

Note : The EOI should accompanied by the technical literature/product literature from the Manufacturer.

II) The generating set should comply with the notification G.S.R.(281) dtd. 07.03.2016 from the ministry of Environment, forest and climate change, Government of India, which are as below :

A.0) Emission Limit

Power Category	Emission Limits (g/kW-hr)	
	NOx+NMHC or NOx+RHC	CO
Upto 19 kW	Less than equal to 7.5	Less than equal to 3.5
More than 19 kW upto 75 kW	Less than equal to 4.7	Less than equal to 3.5
More than 75 kW upto 800 kW	Less than equal to 4.0	Less than equal to 3.5

Notes. - The abbreviations used in the Table shall mean as under: 1. NOX - Oxides of Nitrogen; CO – Carbon Monoxide; NMHC – Non-Methane Hydrocarbon; and RHC – Reactive Hydrocarbon.

B.0) Noise Limits. : The maximum permissible sound pressure level for generating set, with rated capacity upto 800 kW shall be 75 dB(A) at 1 metre in all the sides. The generating sets may also be enclosed in an acoustic enclosure with the aforementioned noise limits from the enclosure surface.

Note: The approval and verification of Conformity of Production for emission and noise limit standards should be supported with documentary evidences as laid down in the notification.

III) OTHER QUALIFYING CRITERIA :

The interested vendor has to be OEM or OEM authorized dealer. Vendor other than OEM, should submit valid authorization from OEM of the product. OEM should be original equipment manufacturer of either engine, Alternator or Assembler of Generating Set.

C.O) Special Note:

a. Chromology of the Natural Gas :

<u>CONSTITUTION</u>	<u>Range by % VOLUME</u>
a) Methane	85.7 - 93.52
b) Ethane	2.45 - 6.55
c) Propane	1.28 - 3.12
d) Nitrogen	0.53 - 1.21
e) Carbon-dioxide	0.01 - 0.57

f)	Iso-Butane	0.31 - 0.75
g)	N-Butane	0.4 - 1.14
h)	Iso-Pentane	0.19 - 0.47
i)	N-Pentane	0.17 - 0.38
j)	Hexane	0.34 - 1.16
k)	Gravity	0.6204 -0.6919
l)	Gross Calorific Value	9636.8- 10590.8 Kcal/SCUM
m)	Net Calorific Value	8704.3- 9595.4 Kcal/SCUM
n)	Moisture content:	21.0-120.0LB/MMCFT(336.0-1992.0 KG/MMSCM)

b. In case the EOI offer is found technically suitable, in conformity to the qualifying criteria, the Vendor may be invited asked to give for a presentation of the product(s) at Duliajan in Field Engg. Dept of OIL INDIA LTD. The date and time will be intimated to the qualifying bidders accordingly. However boarding, lodging, travel expenses etc. shall be at the cost of the Vendor.

D.0) Interested Vendors/Parties having relevant qualifying criteria as above are invited to submit their EOI complete with all documents within **30.04.2018 (15:00 HRS)** through courier/post super-scribing the “Expression of Interest (EOI) for CPCB II compliant Natural Gas Engine driven Generating set” at the following address:

**GM-Field Engineering
OIL INDIA LIMITED
Duliajan, Dist.-Dibrugarh
Assam-786602
Ph:03742808320**

Interested Vendors/ Parties may also forward their EOI to e-mail: pkpegu@oilindia.in and dj_sonowal@oilindia.in.

The subject header in the e-mail should contain “EOI reference no EOI/FE/NG Engine/2018” OIL reserves the right to (a) accept or reject any/all EOIs submitted by parties; (b) cancel the process at any time without any liability and assigning any reason thereof.