



**CITY GAS DISTRIBUTION PROJECT
TENDER FOR GAS ENGINE GENERATOR PACKAGE
CORRIGENDUM – 1**



**Bid Document No: 110290/WGKI/GAIL GAS/22-R0
Dated – 03.03.2011**

Sr. No.	Section / Clause No.	Bid Doc. Page No.	Clause Description	Added / Modified / Deleted
1	Section I / 1.2.6 / IFB	2 of 182	Last date and time for submission of bid	Extended up to "15.03.2011 at 11:00 Hrs" from "07.03.2011 at 14:00 Hrs"
2	Section I / 1.2.7 / IFB	2 of 182	Date and time of opening of Un-priced Bids at WGKI office, New Delhi	Extended up to "15.03.2011 at 11:30 Hrs" from "07.03.2011 at 14:30 Hrs"
3.	Material Requisition for Gas Generator Set Doc No.- (11-0290-02-10-06-001-Rev-1)	Sheet No.- 13 of 15	<u>List of Vendors:</u> 1) Gas Engines 2) Alternator	Following only to be considered: 1) Cummins/ Kirloskar / caterpillar/Doosan/ General Motors/ Ashok Leyland/ Hindustan Motors. 2) Cummins/ Kirloskar green/ Crompton Greaves Ltd./ Kohler
4.	Material Requisition for Gas Generator Set Doc No.- (11-0290-02-10-06-001-Rev-1)	Page 7 of 15	Checklist- Technical Datasheet	Data Sheet type attached with corrigendum – 1 as Annexure -1
5.	Material Requisition for Gas Generator Set Doc No.- (11-0290-02-10-06-001-Rev-1)	Page 7 of 15	Safety Standards	Safety standard IS-8528 to be followed for package: <ul style="list-style-type: none"> Generator to be installed in safe zone. Alternator Safety to be followed as per- IS-4722 For Engine, BS-5514 to be followed.
6.	Document no.- 11-0290-02-10-02-007	Sheet No.-4 of 15 Clause No.-3.13	Generator Set Engine Gas Engine	It should have only the spark arrester. catalytic converter stands deleted -35A/12V battery charging alternator can be accepted.

7.	Document no.- 11-0290-02-10-02-007	Page 17 of 15 Clause No.-10	Alternator	The Alternator shall be designed for specified rated voltage etc with class 'H' insulation with 13 deg temp. rise as per NEMA na 130 deg.
8.	Document no.- 11-0290-02-10-02-007	Page 11 of 15 Clause No.-22.1	Loading and Compensation Criteria	The total generator fuel consumption for 30kVA, 50kVA & 100kVA capacity to be followed as sr. no-14 below.
9.	Document no.- 11-0290-02-10-02-007		Delivery Schedule	The Delivery Schedule is to be considered as 4 months instead of 3 months
10.	Document no.- 11-0290-02-10-02-007	Page 7 of 15 Clause No.-10	Alternator	It should have PMG (Permanent Magnet excitation or equivalent incorporated for block & motor loads.
11.	Document no.- 11-0290-02-10-02-007	Acoustic Enclosure	Acoustic Enclosure	It should be made of 2 mm(min) CRCA sheet as per tender
12.	Doc No.- 11-0290-02-10-02-007	Sht. No.- 5 of 15	Gas Flow Meter	Accuracy of Gas flow meter shall be Qmin. to 0.2 Qmax ±3% 0.2Qmax. to Qmax ±2%
13.	Doc No.- 11-0290-02-10-02-007	Page- 9 of 15	Enclosure/Canopy	Insulation material i.e-Fix retardant foam wool can be accepted also.
14.	Doc No.- 11-0290-02-10-02-007	Page 10 of 15	Testing & Inspection	Testing & Inspection to be followed as per tender specification. However, payment terms incase of testing at vender shop and owner site shall be followed as Annexure - 2
15.	Doc No.- 11-0290-02-10-02-007	Page- 6 of 15	Digital Controller	Digital Controller shall have LED/LCD to display parameters as tender specifications.

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16.			Loading	The fuel consumption of 30 KVA , 50 KVA & 100 KVA to be read as 10.5 SCMH, 18.5 SCMH and 35.5 SCMH respectively
17.	Vol I of II / Section V / Payment Terms / 1.0	125 of 182	Terms of Payment	Revised Terms of Payment attached as Annexure – 2

1	Application Code			
2	Genset type(Open or Canopy)	OPEN/ CANOPY		
3	DG Rating at rated rpm	kW		
4	Frequency	Hz		
5	DG Rating at rated rpm	kVA		
6	Power factor	lagging		
7	Voltage	V		
8	Phase	Single /Three		
9	Method of Starting			
10	Alternator efficiency at 100 % load	%		
11	Governing class			
12	Noise level	db		
13	Weight of generator	kg.		
14	Overall dimensions of canopy(including silencer) (LXWXH)	mm		
1	Engine model no.			
2	No. of cylinder	No		
3	Type of construction	Inline/V type		
4	Cubic capacity	Ltrs		
5	Bore	mm		
6	Stroke	mm		
7	Rated Speed .	RPM		
9	Aspiration	NA/TC/TCA		
10	Compression Ratio			
11	Dry Wt. (Bare Engine)	Kg.		
12	Overall dims.(Flywheel Housing to Fan)	LXWXH (mm)		
15	Fuel Consumption	m ³ /hr		



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Annexure – 2

1. TERMS OF PAYMENT

A. IF PERFORMANCE TEST AT WORKS

1.1 Supplies

1.1.1 90% of total invoice value against submission of invoice in triplicate along with:

- i) Inspection release note.
- ii) Documents as specified in Vendor Data Requirement in Technical Specification.
- iii) LR/GR
- iv) Packing List
- v) Despatch instructions/clearance by Purchaser/consultant.
- vi) 3 Nos. “**Training CD**” (Training CD shall comprise the basic theories & fundamentals, related standards, design parameters, manufacturing & inspection methods, operation & maintenance instructions and other detail. The CD(s) have to be self-contained, user-friendly using animation / videos and other multimedia techniques).

5% on installation of Gas Generator at site

5% (Balance) on commissioning and completion of all works and final acceptance by Purchaser.

If the installation & commissioning is not done within 60 days of receipt of goods at site, due to non availability of site (s) or other reasons solely attributable to Purchaser, the 10% payment shall be released against submission of equivalent Bank Guarantee.

1.2 Payment towards Installation, Testing, Commissioning

100% payment towards Installation, Testing and Commissioning shall be payable on completion of the said/ respective activities on certification of Engineer-In-Charge.

B. IF PERFORMANCE TEST IS AT SITE

1.3 Supplies

1.3.1 85% of total invoice value against submission of invoice in triplicate along with:

- i) Inspection release note.
- ii) Documents as specified in Vendor Data Requirement in Technical Specification.
- iii) LR/GR
- iv) Packing List
- v) Despatch instructions/clearance by Purchaser/consultant.
- vi) 3 Nos. “**Training CD**” (Training CD shall comprise the basic theories & fundamentals, related standards, design parameters, manufacturing & inspection methods, operation & maintenance instructions and other detail. The CD(s) have to be self-contained, user-friendly using animation / videos and other multimedia techniques).

5% on installation of Gas Generator at site

10% (Balance) on commissioning, successful completion of field performance test and final acceptance by Purchaser

If the installation & commissioning is not done within 60 days of receipt of goods at site, due to non availability of site (s) or other reasons solely attributable to Purchaser, the 15% payment shall be released against submission of equivalent Bank Guarantee.

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1.4 Payment towards Installation, Testing, Commissioning

100% payment towards Installation, Testing and Commissioning shall be payable on completion of the said/ respective activities on certification of Engineer-In-Charge.