

Rate Contract
Government of India
Directorate General of Supplies & Disposals
Jeevan Tara Building, 5 Sansad Marg
New Delhi-110001
Tel Number 23360610/23360537

Rate Contract no. DGSETLR/ME-6/RC-BG000000/0314/06/04203/1169
Dated 08-JUL-13

To,

SKYLINE POWER SOLUTIONS
DS-450, New Rajinder Nagar
NEW DELHI

Sub: Rate Contract for supply of Diesel Generating Sets (Lower Rating)
Validity: From 08-JUL-13 To 05-NOV-13 .

Ref:(1) This Office Tender Enquiry No. DGSETLR/ME-6/RC-BG000000/0314/06
Opened on 14-MAR-13.
(2) Your Quotation No. 2895 And Dated
14-MAR-13.

Dear Sir,

You are hereby informed that your above referred tender read with subsequent letters mentioned above for the Stores specified in the Schedules annexed has been accepted. This rate contract will be governed by the terms and conditions brought in the Form no. DGS&D 1001 available from dgs&d sales counter on payment of Rs. 50/- .The Rate Contract and the schedules annexed here to shall be the sole repository of this Rate Contract/Transaction.

SCHEDULES ANNEXED

- 1.Schedule "A" Description of stores,prices,duties/taxes.
- 2.Schedule "B" special conditions of contract / Other information.
- 3.Schedule "C" Information to DDOs about parallel rate contracts.
- 4.Annexure - Technical Specification
5. Schedule "D" - [Format of Letter of Authority](#)

"Suspense Account facilities for indentors of Central Civil Ministries/Departments and UT Administration,except for M/o Defence,M/o Railways and D/o Posts,have been withdrawn with effect from 03.07.2012. As per revised procedures/guidelines, the indentors are required to place funds at the disposal of O/o Chief Controller of Accounts(Supply),D/o Commerce,16-A,Akbar Road Hutments,New delhi-110011 in the form of letter of Authority. The format of Letter of Authority is attached. The indentors are advised to allocate funds to cover the cost of stores ordered, which includes value of supply orders inclusive of all duties & taxes asper relevent Rate Contract plus 5% of the value of supply order towards other incidental charges in case of Rate Contract with firm & final prices or 10% of the value of supply order towards other incidental charges in case of rate contract with price variation clause. In addition,indentors are also required to include 1.2% of the cost of the stores(i.e value of supply order + incidental charges) as DGS&D department charges. Supply Order not accompanied with letter of authority in the prescribed format along with requisite funds shall not be considered as valid supply orders. Ink-signed copy of Letter of Authority is to be sent to the Office of chief Controller of Accounts(Supply),D/o Commerce,16-A, Akbar Road Hutments, New Delhi-110011 by Speed Post under intimation to RC holder.Purchase Directorate concerned in DGS&D Headquarters and Inspecting Officer concerned.

The above instructions shall apply to all supply orders placed on or after 03.07.2012."

Yours Faithfully,

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Assistant Director(S)/Section Officer/Dy. Director/Director/DDG(S)
For and on behalf of the purchaser named in the Form DGS&D 1001.

SCHEDULE - A

1. Rate Contract No.: -DGSETLR/ME-6/RC-BG000000/0314/06/04203/1169
Dated 08-JUL-13 For the Supply of Diesel Generating Sets (Lower Rating)

2. Advance Rate Contract No.: -
Dated

3.(a) Name and Full Address of the Firm :-

SKYLINE POWER SOLUTIONS
DS-450, New Rajinder Nagar
NEW DELHI
DELHI - 110060
Tel. No. - 9811384848, 911140044444
Fax -
Email - prashantarora@swadeshigroup.com

(b) Name and Full Address of Manufacturer :-
M/s Skyline Power Solutions,
Billanwali Road, Baddi, Distt. Solan (HP)

(c) Brand: WHISPOWER

4. Validity of Rate Contract: 08-JUL-13 To 05-NOV-13

5. Description of Item, Specification, Unit, Rate

Item Model No.	Store Description	ED	ED%	CST/VAT	CST/VAT%	Unit Service Tax	Rate (in Rs)
8	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL7500E					NOS.	225012.14 Rs. TWO LAKHS TWENTY- FIVE THOUSAN D TWELVE AND PAISE FOURTEEN ONLY
		N.A		Excl.	13.75		
	Min.Order Qty(in unit):- 1		Lead Time(in days):- 90			Rate of Supply(monthly):- 100	
9	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL10K					NOS.	235866.11 Rs. TWO LAKHS THIRTY- FIVE THOUSAN D EIGHT HUNDRED SIXTY-SIX

AND PAISE
ELEVEN
ONLY

	N.A	Excl.	13.75	
	Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
10	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL15K	No. of Phases: Single,Type of Engine Cooling: Water,Rated Voltage(in Volts): 240,Rated Capacity (in KVA): 15	NOS.	267866.24 Rs. TWO LAKHS SIXTY- SEVEN THOUSAN D EIGHT HUNDRED SIXTY-SIX AND PAISE TWENTY- FOUR ONLY

	N.A	Excl.	13.75	
	Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
11	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL20K	No. of Phases: Single,Type of Engine Cooling: Water,Rated Voltage(in Volts): 240,Rated Capacity (in KVA): 20	NOS.	293536.01 Rs. TWO LAKHS NINETY- THREE THOUSAN D FIVE HUNDRED THIRTY- SIX AND PAISE ONE ONLY

	N.A	Excl.	13.75	
	Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
19	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL10KT	No. of Phases: Three,Type of Engine Cooling: Water,Rated Voltage(in Volts): 415,Rated Capacity (in KVA): 10	NOS.	228360.46 Rs. TWO LAKHS TWENTY- EIGHT THOUSAN D THREE HUNDRED SIXTY AND PAISE FORTY-SIX ONLY

	N.A	Excl.	13.75	
	Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
20	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL15KT	No. of Phases: Three,Type of Engine Cooling: Water,Rated Voltage(in Volts): 415,Rated Capacity (in KVA): 15	NOS.	262810.04 Rs. TWO LAKHS SIXTY-

TWO
THOUSAN
D EIGHT
HUNDRED
TEN AND
PAISE
FOUR
ONLY

		N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):- 90	Rate of Supply(monthly):- 100
21	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL20KT	No. of Phases: Three, Type of Engine Cooling: Water, Rated Voltage(in Volts): 415, Rated Capacity (in KVA): 20	NOS.	279715.73 Rs. TWO LAKHS SEVENTY- NINE THOUSAN D SEVEN HUNDRED FIFTEEN AND PAISE SEVENTY- THREE ONLY

		N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):- 90	Rate of Supply(monthly):- 100
22	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL25KT	No. of Phases: Three, Type of Engine Cooling: Water, Rated Voltage(in Volts): 415, Rated Capacity (in KVA): 25	NOS.	299094.45 Rs. TWO LAKHS NINETY- NINE THOUSAN D NINETY- FOUR AND PAISE FORTY- FIVE ONLY

		N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):- 90	Rate of Supply(monthly):- 100
23	Swadeshi Diesel Generating Sets WhisPower/W with AMF Control Panel DL30KT	No. of Phases: Three, Type of Engine Cooling: Water, Rated Voltage(in Volts): 415, Rated Capacity (in KVA): 30	NOS.	351492.42 Rs. THREE LAKHS FIFTY-ONE THOUSAN D FOUR HUNDRED NINETY- TWO AND PAISE FORTY- TWO ONLY

		N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):- 90	Rate of Supply(monthly):- 100

33	Swadeshi WhisPower/W DL7500E	Diesel Generating Sets with Manual Control Panel	No. of Phases: Single,Type of Engine Cooling: Water,Rated Voltage(in Volts): 240,Rated Capacity(in KVA): 7.5	NOS.	212495.23 Rs. TWO LAKHS TWELVE THOUSAN D FOUR HUNDRED NINETY- FIVE AND PAISE TWENTY- THREE ONLY
			N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
34	Swadeshi WhisPower/W DL10K	Diesel Generating Sets with Manual Control Panel	No. of Phases: Single,Type of Engine Cooling: Water,Rated Voltage(in Volts): 240,Rated Capacity(in KVA): 10	NOS.	213484 Rs. TWO LAKHS THIRTEEN THOUSAN D FOUR HUNDRED EIGHTY- FOUR ONLY
			N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
35	Swadeshi WhisPower/W DL15K	Diesel Generating Sets with Manual Control Panel	No. of Phases: Single,Type of Engine Cooling: Water,Rated Voltage(in Volts): 240,Rated Capacity(in KVA): 15	NOS.	244047.04 Rs. TWO LAKHS FORTY- FOUR THOUSAN D FORTY- SEVEN AND PAISE FOUR ONLY
			N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
44	Swadeshi WhisPower/W DL10KT	Diesel Generating Sets with Manual Control Panel	No. of Phases: Three,Type of Engine Cooling: Water,Rated Voltage(in Volts): 415,Rated Capacity(in KVA): 10	NOS.	207866 Rs. TWO LAKHS SEVEN THOUSAN D EIGHT HUNDRED SIXTY-SIX ONLY
			N.A	Excl.	13.75
		Min.Order Qty(in unit):- 1	Lead Time(in days):-90	Rate of Supply(monthly):-100	
45	Swadeshi	Diesel Generating Sets	No. of Phases: Three,Type of Engine	NOS.	230225.64

WhisPower/W with Manual Control
DL15KT Panel

Cooling: Water,Rated Voltage(in Volts):
415,Rated Capacity(in KVA): 15

Rs. TWO
LAKHS
THIRTY
THOUSAN
D TWO
HUNDRED
TWENTY-
FIVE AND
PAISE
SIXTY-
FOUR
ONLY

N.A

Excl.

13.75

Min.Order Qty(in unit):- 1

Lead Time(in days):-90

Rate of Supply(monthly):-100

48 Swadeshi Diesel Generating Sets
WhisPower/W with Manual Control
DL30KT Panel

No. of Phases: Three,Type of Engine
Cooling: Water,Rated Voltage(in Volts):
415,Rated Capacity(in KVA): 30

NOS. 310481.02
Rs. THREE
LAKHS
TEN
THOUSAN
D FOUR
HUNDRED
EIGHTY-
ONE AND
PAISE TWO
ONLY

N.A

Excl.

13.75

Min.Order Qty(in unit):- 1

Lead Time(in days):-90

Rate of Supply(monthly):-100

Free Delivery at site (i.e consignee's place)

6-Terms of Delivery:

7-Excise Duty:

ED Not applicable at present and will not be charged even if it is applicable later on.

8-Sales Tax:

CST/VAT extra @ 13.75%

9-Delivery Period:

Lead time 90 days

10(a)-Annual Turnover:

2009-10 1962.03 Lacs

2008-09 237.6 Lacs

2007-08 4.82 Lacs

(b)-Monetary Limit(In Rs.):

Without Any Limit

11-Payment Terms:

50% payment will be allowed on proof of inspection & acceptance thereof and provisional receipt issued by consignee and balance 50% on certification of receipt of stores in good condition by the consignee. In other respects,the provisions of clause 19,Payment under the Contract in DGS&D 68(R) will apply

12-Slab Discount Clause:

13-Prices:

FIXED

14-Quantity Offered:

NA

15-Minimum Quantity in Single Supply Order:

16-Minimum order Value in Single Supply Order:

17-Status of the RC Holding Firm:

SSI

18-Paying Authority:

The Chief Controller of Accounts, Deptt. of Supply

16A, AKBAR ROAD
New Delhi -110011

19-Inspection Authority:

For Civil
ADG(QA),Jeevan Tara Building,Parliament Street
New Delhi

20-Quality Assurance Officer:

For Civil
Directorate of Quality Assurance
Block No.3, IInd floor, Kendriya Sadan,
Sector 9 A,Chandigarh
Chandigarh
CHANDIGARH -160055

21-Place where the Stores are to be Tendered
for Inspection:

M/s Skyline Power Solutionhs, Billan Wali Road, Baddi,
Distt. Solan(H.P).

22-R/C is DDOs Operated:

Yes

With effect from First October two thousand eight (01-10-2008),all supply order(s) against this Rate Contract must be placed by Direct Demanding Officer(s) on-line through D.G.S&D web site (www.dgsnd.gov.in) (indentor's page) only. Supply order(s) in any other form placed on or after 01-10-2008 shall not be valid and shall not be acted upon by the contractor or any other concerned agencies.

DDO shall download the supply order and send an ink signed copy to the concerned paying authority specified in the rate contract through Registered / speed post immediately after on-line placement of Supply Order(s).

23-Packing & Specification :

see annexure

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Asstt. Director (S) / Section Officer / Dy. Director
For and behalf of the purchaser named in the Form DGS&D 1001.

All the R/C particulars including prices in respect of individual R/Cs are available on DGS&D website which can be accessed by all.The DGS&D website is <http://dgsnd.gov.in>

SCHEDULE - B

RC Specification:

(i) RC shall be coterminous with the validity of Registration.

(ii) Your RC is valid only upto 05-11-2013 as against 30-06-2014 as your Registration certificate will expire on 05-11-2013. It will be in your own interest to get your registration extended well before expiry of the same. RC can be extended till 30-06-2014 only after extension of registration certificate at least till 30-06-2014.

SCHEDULE - C

List of Parallel Rate Contract For Diesel Generating Sets (Lower Rating)

Sr.No.	NAME & FULL ADDRESS OF FIRM	R/C NO & DATE
1	ELMECH ENGINEERS 1402, Chiranjiv Towers, 43, Nehru Place, NEW DELHI DELHI 110019	DGSETLR/ME-6/RC- BG000000/0314/06/05048/1164 08-JUL-13
2	ELECTRO EQUIPMENTS Plot No. 21-23,(16 KM from Roorkee) , Raipur Sahakari Audyogic Shketra, Bhagwanpur, Roorkee. ROORKEE UTTARAKHAND 247661	DGSETLR/ME-6/RC- BG000000/0314/06/04854/1165 08-JUL-13
3	JAYCEE PUNCHING SOLUTION PVT.LTD 50,km Milestone,Mathura Road Highway,Behind Pooja Forge/Container Depot Prithla,District palwal PRITHALA HARYANA 121102	DGSETLR/ME-6/RC- BG000000/0314/06/05190/1166 08-JUL-13
4	PERFECT HOUSE 6,COMMERCE HOUSE 140,NAGINDAS MASTER ROAD, FORT,MUMBAI-400001 MUMBAI MAHARASHTRA 400001	DGSETLR/ME-6/RC- BG000000/0314/06/06272/1167 08-JUL-13
5	GREEN FIELD ENTERPRISES SCO 36, SECTOR 26, MADHYA MARG, CHANDIGARH CHANDIGARH 160019	DGSETLR/ME-6/RC- BG000000/0314/06/05305/1168 08-JUL-13
6	SKYLINE POWER SOLUTIONS DS-450, New Rajinder Nagar NEW DELHI DELHI 110060	DGSETLR/ME-6/RC- BG000000/0314/06/04203/1169 08-JUL-13
7	INTERNATIONAL TRACTORS LIMITED 283, Sonalika House, AGCR Enclave, DELHI DELHI 110092	DGSETLR/ME-6/RC- BG000000/0314/06/04279/1160 27-JUN-13
8	GSP POWER PROJECTS B-2/16 MOHAN COOPERATIVE INDUSTRIAL ESTATE NEW DELHI-110044 DELHI	DGSETLR/ME-6/RC- BG000000/0314/06/04194/1161 27-JUN-13

8	DELHI	110044	DGSETLR/ME-6/RC- BG000000/0314/06/04194/1161 27-JUN-13
9	COOPER CORPORATION PRIVATE LIMITED L-3,ADDITIONAL M.I.D.C.Post kodoli,Satara 415004 SATARA MAHARASHTRA 415004		DGSETLR/ME-6/RC- BG000000/0314/06/06236/1162 27-JUN-13
10	UNITED GENSETS PVT LTD 29 SUVARNA LAGHU UDYOG YOJANA NEAR TRUCK TERMINUS MIDC WALUJ AURANGABAD MAHARASHTRA 431133		DGSETLR/ME-6/RC- BG000000/0314/06/06271/1170 08-JUL-13
11	SANJAY DIESELS 1580 Church Road Kashmere Gate Delhi 110006 DELHI DELHI 110006		DGSETLR/ME-6/RC- BG000000/0314/06/05403/1171 30-JUL-13
12	C&S HIMOINSA P LTD 222 OKHLA INDUSTRIAL ESTATE NEW DELHI-110020 NEW DELHI DELHI 110020		DGSETLR/ME-6/RC- BG000000/0314/06/06241/1172 08-JUL-13
13	PRAKASH DIESELS PVT LTD 1656/1683, Naraich, Hathras Road, Agra AGRA UTTAR PRADESH 282006		DGSETLR/ME-6/RC- BG000000/0314/06/03546/1163 27-JUN-13

NOTE:

(1) Before placing supply order, DDOs are advised to check with DGS&D or on the website whether any further RCs have been awarded or amendments to Rate Contract have been issued.

(2) All the R/C particulars including prices in respect of individual R/C's are available on DGS&D website, which can be accessed by all. The access code of DGS&D website is <http://dgsnd.gov.in>.

ANNEXURE

DETAILED SPECIFICATIONS:

Diesel engine and alternator shall be close coupled and mounted on a base plate of robust construction.

SPECIFICATION FOR ALTERNATOR, DIESEL ENGINE AND MANUAL/AMF CONTROL PANELS :

1. ALTERNATOR :

(a) The Alternator shall be self excited and self regulated of specified KVA rating in single/three phase at 240/415 Volt, 50 Hz, 1500 RPM and 0.8 power factor and shall conform to IS:13364 (Part 1):1992(reaffirmed 2003) (up to 20 KVA) or IS: 13364(Part 2)/1992(reaffirmed 2003) (above 20 KVA). The alternators shall be of brush less type with VG-1 Grade or better grade of voltage regulation.

(b) The alternators shall be screen-protected drip proof with Minimum IP-21 degree of protection as per IS:4691/85.The class of insulation of the Alternator would be 'H'. The rated voltage of Alternator will be 240V for single phase & 415 V for three phase.

2. DIESEL ENGINE (Naturally Aspirated):

(i) Diesel Engine shall be air or water cooled as specified, electric start developing required B.H.P at 1500 RPM with Class A-2 Governing or better for alternator to deliver specified continuous KVA output at 0.8 pf LAG at NTP conditions(all rating shall be tested at 0.8 PF lag). The Diesel Engine should be capable of providing 10% overload for one hour for every 11 hours continuous running at full load.

(ii) Naturally aspirated engines of rating upto and including 20 KW shall be ISI MARKED as per IS:10,001/1981 (reaff 2006).

(iii) Naturally aspirated engines of rating above 20 KW shall conform to IS:10,002/1981 (reaff 2006).

(iv) The specific fuel consumption of engine shall be as per IS specn.

(v) The Diesel Engine shall be complete with the following accessories:

- (a) Fuel tank with capacity for 12 hours continuous running at full load.
- (b) Engine instrument Panel consisting of starting switch with Key, Lube Oil temperature and pressure gauges, (water temperature gauge in case of water cooled engines), RPM indicator and hour meter.
- (c) Safety controls to shut down the engine in the event of low lube oil pressure or high cylinder head temperature in case of air-cooled engines or high water temperature in case of water-cooled engines.
- (d) Radiators in case of water-cooled engines.
- (e) Exhaust silencer of Residential type.
- (f) 12V starting system complete with starter motor, charging alternator and Cutout.
- (g) Lead Acid Battery or semi maintenance free battery of suitable ratings with connecting cables and the battery/ies shall conform to relevant IS Specn.

The batteries of only following make shall be accepted: Exide, TUDOR, Amco, Amaron, Amar Raja, Tata Green, Cummins pulse lite, Standard Furukawa, Prestolite.

(h) Standard set of tools consisting of a set of 3 spanners, one screw driver, one

standard plier and one nose plier of appropriate size shall be provided to the consignees along with DG sets, free of cost for each of DG sets.

3. DIESEL ENGINE (Turbo-charged)for 40 kva only:

The turbocharged Diesel Engine of 40 kva shall be air or water cooled, as specified, electric start developing required BHP at 1500 RPM with class A-2 or better governing to deliver specified continuous KVA output at 0.8 Power Factor Lag at NTP conditions. The Diesel engine should be capable of providing 10% overload for one hour in every 12 hours continuous running at full load. The turbocharged Diesel engine shall conform to IS:13018/1990(reaffirmed 2005)AND IS: 10,000 series.

The Turbocharged Diesel engine shall be complete with the following accessories :

- (a) Fuel tank with air breather, drain plug with capacity for 8 hours of continuous running at full load or 990 liters capacity, whichever is lesser.
- (b) Engine instrument panel consisting of starting switch with key, lube oil temperature and pressure gauges, RPM indicator and hour meter with additional feature of auto start/remote start and auto stop.
- (c) Safety control to shut down the engine in the event of overspeed, low lube oil pressure and high engine water temperature.
- (d) Exhaust silencer residential type.
- (e) 12 V or 24 V starting system complete charging alternator or dynamo and cutout.
- (f) Lead Acid/ semi-maintenance free batteries of suitable ratings with connecting cables shall be provided. The batteries shall conform to relevant IS Specn. Only, the following make of batteries shall be accepted- Exide, Tata Green, Amron, Amco, Tudor, Cummins-Pulselite, Prestolite and Standard Furukuwa.
- (g) Anti-Vibration mountings for complete DG set in case of flexible coupling and for turbocharged engine in case of direct coupling.
- (h) The fuel level should be indicated with the help of fuel gauge meter.
- (i) There should be provision for filling the fuel from outside (as in case of automobiles) with locking arrangement.

4. MANUAL CONTROL PANEL :

(i) The manual Control Panel shall be fabricated from steel sheet of 1.5 mm thickness minimum duly pre-treated and aesthetically finished. The Control Panel shall be totally enclosed, dust and vermin proof, floor mounted or wall mounted/skid mounted or integral type (unless specifically specified as one of these options by DDOs)with IP-53 degree of protection and shall conform to IS/IEC 60947(Pt-1)/2004. Firms shall get the item type tested as per revised standard.

(ii) The Control Panel shall have the following instruments :

- (a) Composite meter for digital display of
 - i) Generator voltage.

- ii) Load Current.
- iii) Power Factor.
- iv) Frequency (for 15 KVA & above)
- v) Energy (for 15 KVA & above)

- (b) One MCCB of suitable rating for DG sets .
- (c) Push button-switch for ON and OFF operation .
- (d) Pilot lamps, three in case of single-phase and five numbers in case of three phase (one for each phase, one for load on set and one for charging on).
- (e) Battery charger complete with voltage regulator, voltmeter and ammeter should provide for Trickle charging as well as Booster charging for charging the battery from mains. This will be in addition to the battery charging alternator fitted on the engine.

(iii) All the components in the control panel shall be properly mounted, duly wired and labeled. Suitable terminals are to be provided for panel incoming and outgoing connections. The instruments/Components shall be of reputed make.

5. AMF CONTROL PANEL :

(i) Automatic mains failure (AMF) control panel, where applicable, shall be able to start up the DG set and transfer the load on to the DG set on mains failure without requiring any human intervention. Similarly on restoration of mains supply, it shall be able to transfer the load to mains supply and switch off the DG set automatically.

(ii) The AMF panel shall be an enclosure with the IP-53 degree of protection confirming to IS/IEC 60947(Pt-1)/2004, fabricated from minimum 1.5 mm thick steel sheet duly pre-treated and aesthetically finished.

(iv) The AMF Control Panel shall have the following instruments :

- (a) Microprocessor based relay with composite meter for digital display of
 - i) Generator voltage/AC Mains voltage.
 - ii) Generator Current.
 - iii) Power Factor.
 - iv) Frequency (for 15 KVA & above)
 - v) Energy (for 15 KVA & above)
 - vi) Three attempts engine start/engine cranking relay.
 - vii) On -delay timer for load change over
 - viii) On-delay timer for engine shut off
 - ix) Over current relay.
- (b) Mode selector switch for setting the panel on any one position such as off or auto or manual or test.
- (c) Engine On-Off switch (Push button type)
- (d) MCCB of suitable rating shall be provided.
- (e) Rectangular aluminum bus bars (one number for each phase, neutral and Earthing terminal)of adequate ratings duly colour coded with heat shrinkable PVC sleeves.
- (f) Two contactors of suitable rating (one for DG set & one for AC mains)with over load relay.
- (g) Under-voltage relay for mains.
- (h) Battery charger complete with voltage regulator, float or booster selector switch, on-off switch, voltmeter and ammeter for charging the battery from mains. This will be in addition to the battery charging alternator fitted on the engine.
- (i) Instrument & Control Fuses.
- (j) Five number indicating lamps to indicate 'mains ON', 'load on mains', 'set

running', 'load on set' and 'battery charger on'.

- (k) Audio visual alarm for 'Low lubricating oil pressure', 'High water temperature'
(for water cooled), 'High cylinder head temperature'(for air cooled), 'Start failure' and 'DG over load'.
- (l) Any other switch, instrument, relay or contactor etc. essential for smooth and trouble free functioning of DG set with AMF panel. (To be specified by the tenderers in their offer with complete details of the item).

6. Supplier shall furnish complete & satisfactory TTC for engines, alternators complete with enclosure to be used by them for EACH rating of DG sets clearly indicating make, model and ratings of the DG sets tested at the time of registration and pre-despatch inspection. The TTC of three phase alternators shall cover 'unbalanced load test' as per cl.24 of IS:13364(part-1 or part-2)/1992 as applicable. However all the engine models /ratings shall need relevant certifications as per norms.

Either of the following types of TTC shall be acceptable:

- i- Type Test Certificate issued by recognized Government Lab.
- ii- Type Test Certificate issued by recognized Government Lab irrespective of whether engines and alternators were tested at firm's lab or some other lab, but witnessed by Government representative.
- iii- Type Test Certificate issued by BIS, irrespective of engines and alternators were tested at firm's lab or some other lab, but witnessed by BIS/ Government representative.
- iv- Type Test Certificate issued by DQA on basis of test conducted at manufacturer's lab in presence of DQA officers.

7. The testing of diesel generating sets, for all ratings, shall be done at 0.8 PF lag.

8. Testing shall be done at continuous power output for each rating.

9. Necessary gauge/meters shall be fitted to indicate (a) the quantity of fuel left in the fuel tank, and (b) hours of DG set operation.

10. DG Sets shall be provided with integrated acoustic enclosure which shall conform to norms of Central Pollution Control Board (CPCB).

11. The acoustic enclosure offered shall conform to the drawings type approved by Govt lab, for conformity to noise norms. This aspect shall also be verified at the time of inspection.

12. DG sets shall meet the requirements of Environmental(Protection) Rules 1986 as laid down by Min. of Environment & Forests read with GSR 371 (E) dated 17.5.2002, GSR 520(E) dated 01.7.2003 and No.448 (E)dated 12.07.2004 in respect of noise and emission norms. DG sets shall also meet all other statutory requirements as notified by Govt. from time to time.

13. Supplier shall furnish following documents issued by a Govt authorized agency at the time of registration and pre-despatch inspection:

- a) Type approval certificate (TAC) for emission norms for EACH model/family of engine.
- b) TAC from for noise level norms EACH model of DG set.
- c) COP for EACH model of DG set and engine used in DG set.

14. Scope of supply shall include supply and commissioning of the complete DG set at the consignee's end but shall exclude installation and erection.

NOTE TO TENDERERS :

1. Award of Rate acontract shall be considered only to such firms who are registered for the quoted items with DGS&D / NSIC under single point registration on the date of tender opening. All tenderers who are not registered and desire to participate against the tender enquiry for rate contract are advised in their own entrest to get themselves registered with DGS&D / NSIC before the date of tender opening.

The item being brought on rate contract in this case has been categorized as safety / Difficult / Complaint prone item. Therefore registration with NSIC should be based on the capacity varification by the Quality Assurance Wing of DGS&D. NSIC registration should specifically indicate that their registration has been done based on favourable capacity assesment report from QA Wing of DGS&D. In respect of tenderers who are already registered with NSICfor the stores of tender enquiry but their registration is not based on favourable capacity report from DQA DGS&D concerned, the special capacity report from DQA DGS&D must be received in DGS&D on or before the tender opening date. Such firms should also get their registration certificate endrosed by NSIC for future reference.

2. A copy of formal agreement between the engine manufacturer and DG set supplier for continuous supply of engines, during the validity period of the rate contract, should be submitted to DGS&D at the time of registration, bidding and inspection, unless DG Set supplier themselves are not manufacturer of engines also..

3. Tenderers shall furnish the data in the questionnaire for each quoted items separately, alongwith their offer, including specific fuel consumption. The questionnaire and answers shall be made part of R/C for guidance of all the stake holders.

4. Tenderer shall furnish valid BIS license for all engines models upto 20 KW rating along with their offer.

5. DG sets shall meet the requirement of Environmental (Protection) Rules 1986 as laid down by Min. of Environment & Forests read with GSR 371 (E) dated 17.5.2002, GSR 520 (E) dated 1.7.2003& GSR 448(E) dtd. 12.07.2004 in respect of noise and emission norms.

6. Tenderers shall furnish with their offers, valid copy of Type Approval Certificate (TAC) from an authorized Govt agency, in prescribed format, for compliance to emission norms and noise level norms for EACH model of DG set offered, giving details of model No. of the engines and alternators for which such approval is applicable.

7. Tenderer shall furnish valid copy of COP (Conformity of Production) certificate for EACH model of DG set from an authorized Govt agency with the tender.

8. DG sets shall also meet all other statutory requirements as notified by Govt of India from time to time.

9. DG sets and engines must meet the norms of Central Pollution Control Board, as per updated provisions.

10. Scope of supply shall include supply and commissioning of the complete DG sets at the consignee's end but shall exclude installation and erection.

11. Tenderers shall furnish list of authorized service centres throughout the country

with complete address, phone number, fax & email etc.

12. DG set manufacturers shall provide a list of inventories being supplied with the DG sets, to enable the consignee to verify them, at the time of delivery. The inventory list shall be attached alongwith the Inspection Notes.

13. Tenderers shall confirm that they are in possession of complete & satisfactory TTC for engines, alternators complete with enclosure to be used by them for EACH rating of DG sets quoted, clearly identifying make, model and ratings of the DG sets tested.

14. The TTC of three phase alternators shall cover "unbalanced load test" as per cl.24 of IS:13364(part-1 or part-2)/1992 as applicable. Either of the following types of TTC shall be acceptable:

i- Type Test Certificate issued by recognized Government Lab.

ii- Type Test Certificate issued by recognized Government Lab irrespective of whether engines and alternators were tested at firm's lab or some other lab, but witnessed by Government representative.

iii- Type Test Certificate issued by BIS, irrespective of engines and alternators were tested at firm's lab or some other lab, but witnessed by BIS/ Government representative.

iv- Type Test Certificate issued by DQA on basis of test conducted at manufacturer's lab in presence of DQA officers.

15. Firms must submit their application to concerned QA Office for fresh or renewal of registration/capacity assessment/special capacity assessment, atleast 30 days before the scheduled date of tender opening, failing which, application may not be possible to be fully processed. Only tenders will be responsible for the same.

Diesel Generating Sets with Manual Control Panel

Diesel Generating sets with manual control panel shall comply to the specifications given in General Technical Requirements.

Diesel Generating Sets with AMF Control Panel

Diesel Generating sets with AMF control panel shall comply to the specifications given in General Technical Requirements.

Drawing/Proforma/Annexure Attached [Click on the following to View/Print]

[INSPECTION REPORT](#)

[Technical Data Sheet DGSET \(pg-1\)](#)

[Technical Data Sheet DGSET \(pg-2\)](#)

LIST OF ALL AMENDMENTS

For RC No. DGSETLR/ME-6/RC-BG000000/0314/06/04203/1169

Sr No.	Amendment No.	Amendment Date	Effective From	Amendment In
1	DGSETLR/ME-6/RC-BG000000/0314/06/04203/1169/47844	31-JUL-13	08-JUL-13	Amendment in RC Validity