

DIRECTOR GENERAL BORDER SECURITY FORCE
(PROVISIONING DIRECTORATE (MOD CELL))

EXPRESSION OF INTEREST

DIG (Prov)
 HQ DG BSF, Prov Dte (Ord Sec)
 Block No. 10, CGO Complex
 Lodhi Road, New Delhi
 (Tele/Fax No. 011-24367683)
 Mail id : comdtord.bsf.nic.in

The Sub-group of technical experts on surveillance equipment constituted by MHA vide their letter No. IV-17017/18/2001-Prov-I dated 05 Jul 2002, letter No. IV-24011/12/2011-Prov.I dated 13th June 2012 and O/No. 11012/02/ 2009-Fin-I/Prov.I-17 dated 02nd January 2018 held its meeting at BSF HQ 29th July 2019 to formulate the QRs of **40 KVA DG Set**.

DRAFT QUALITATIVE REQUIREMENT OF 40 KVA DG SET

SRL NO	PARAMETER	SPECIFICATION
1	Diesel Generating Set Complete with Diesel Engine, Alternator and AMF/Manual Control Panel Fitted in Acoustic Enclosure. Pressure charged Diesel Engine and Alternator shall be closely coupled or provided with flexible coupling and mounted non a base plate of robust in construction.	
2	Nominal rated Capacity(KVA)	40 KVA
3	No. of phase	Three Phase
Engine		
4	No of strokes(Nos)	4
5	Number of cylinder (Nos)	3/4
6	Rated RPM of Engine (RPM)	1500
7	Types of Engine cooling	Air cooled/ Liquid cooled
8	Types of Governer	Mechanical
9	Class of Governer	A0/A1/A2/A3
10	Starting Voltage	12 Volt/24 Volt
11	Battery type & Specification	Low maintenance free to IS :14257 for high cranking performance/Normal Lead Acid to IS:7372
12	Overload capacity for one hour for every 11 hours continuous running at full load(%)	10
Alternator		
13	Rating of AC Generator (KVA)	40
14	Frequency	50 Hz
15	Power Factor	0.8
16	Efficiency at rated Power Factor at 75% full load	80 and above
17	Voltage Regulation Grade	VG1/VG2/VG3

18	Type of alternator	Brushless
19	Class of insulation	H
20	Alternator IP Rating	IP 23 or better
Control Panel		
21	Control panel	AMF
22	IP Rating of Control Panel	IP 53/IP 55/
Acoustic Enclosure		
23	Sheet thickness	1.2 to 1.6 Millimeter
24	Thickness of foam	25 to 40 Millimeter
25	Density of foam for sound insulation	28 to 50
26	Noise level at 1 meter(db)	70 to 80
Test Report		
27	Availability of Type of test report for engine from Central Govt NABL/ ILAC accredited laboratory	Yes
28	Availability of Type of test report for Alternator from Central Govt NABL/ ILAC accredited laboratory	Yes
29	DG set meet requirements of environmental(Protection) rules 1986, in respect of noise and emission norms, as described in STC	Yes
Warranty/installation & commissioning		
30	Warranty	01 year or more
31	Installation and commission	With installation

The Sub-group has decided to upload the QRs on MHA and BSF website for 15 days to invite the views/ comments/ suggestions of prospective bidders to make the QRs more broad based.

Note - All firms are requested to provide the following.

1. Original Brochure of product by OEM.
2. Detail literature about the product.
3. Comprehensive comments for incorporation in the specifications.


(Vikas Singh)
Dy. Commandant (Mod)