

DIRECTOR GENERAL BORDER SECURITY FORCE
PROVISIONING DIRECTORATE (MOD CELL)


EXPRESSION OF INTEREST

Commandant (ord)
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The Sub-group of Technical Experts constituted by MHA vide their letter No. IV-24011/12/2011-Prov-I dated 13 Jun 2012, No. IV-24011/12/2011-Prov-I dated 28 Dec 2012 & UO No. IV-24011/12/2011-Prov-I-350 dated 27 Jun 2013 held its meeting at BSF Headquarters on **30th June 2017** to formulate the Qualitative Requirement of **“Motorized Sliding Gate with Open Protocol and Safety Mechanisms”**. After detailed deliberations the referred Sub-group has formulated the QRs/TDs which are as under :-

Draft QRs of Motorized Sliding Gate with Open Protocol and Safety Mechanisms

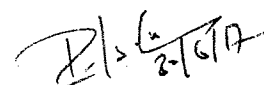
S. No.	Parameters/Specifications
1.	Features of Gate
i)	Gate of material should be Steel and should have standard design for use in government premises.
ii)	The gate leaf should comprise rectangular hollow section, square hollow section, square base and perimeter frame of sufficient strength.
iii)	The gate should be supported by galvanized adjustable upper guide bracket with roller, guide post with safety strike, galvanized wheels with ball bearings and excel with lubrication point.
iv)	The gate should be coated with epoxy primer.
v)	The dimension of the gate should be 20ft (length)X 4.5ft (Height)
vi)	The gate weight should be minimum 900 kg (±10%). Side poles 300 kg (±10%). Iron track weight 200 kg (±10%).
vii)	The gate system should have electromechanical operation.
viii)	It should have non reversing system by an electric break to prevent movement of solidly leaves when the motor is stop.
ix)	The gate sliding rail must be linear and horizontal.
2.	Operational Features of Motor
i)	It should be capable to operate industrial sliding gate weighing upto 900 kg (±10%).
ii)	Speed of motor should be adjustable.
iii)	Speed upto 0.7 mtr/sec or more.
iv)	It should be ideal for fast operation and continuous duty 100%.
v)	It should have irreversible gear motor of minimum 1KW with electric brake.



vi)	It should have frequency Inverter of at least 1.5 KW for programming of a) Running Speed. b) Deceleration Speed. c) Rump-up time (acceleration). d) Rump-down time (deceleration).
vii)	The control panel should be integrated and protected by metal housing and plastic transparent cover.
viii)	There should be slot holes and height adjustment pins for adjusting position of the operator.
ix)	It should have 1.5mm steel cover with zinc primer protection treatment plus powder coated painting.
x)	In the event of power failure, should be possible to move the gate manually and the manual release device can be activated from the outside of the operator without removing the cover.
3.	Technical Features of Motor
i)	Power supply 230v (+/-5%), 50Hz.
ii)	Max. absorbed power (W) 1800.
iii)	Thrust on pinion (N) 1800.
iv)	Max. torque (Nm) 110.
v)	Carriage Speed (m/min) Min 20 Max 42.
vi)	Type of limit switch Mechanical.
vii)	Motor Control Inverter.
viii)	Inverter max power 1.5 KW.
ix)	Use temperature (°C) -20 to +55 deg C.
x)	Type of gear motor Irreversible, 1 KW or more.
xi)	Protection class IP 44 or better.

Note :- All the firms are requested to comment upon the above mentioned QRs and furnish brochure/catalogue of their products from the OEMs.

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



(Rishipal Singh)
Second-In-Command (MOD)