



الشركة المصرية للإقمار الصناعية نائل ساتج
THE EGYPTIAN SATELLITE CO. *Nilesat*

APPLICATION FOR APPROVAL TO ACCESS
THE NILESAT SPACE SEGMENT

Nilesat Approval No:

Date: .../.../.....

To: THE EGYPTIAN SATALLITE COMPANY, *NILESAT*

Applicant:

.....

Date:

Ref :

1. GENERAL

1.1 Earth Station Name:

1.2 Type (Mobile/ Fixed/ Transportable)

1.3 Usage (Transmit/ Receiver/ Both)

1.4 Standard:

1.5 Location: Latitude: Deg:..... Min: :..... Sec:.....

 Longitude: Deg:..... Min: :..... Sec:.....

 Altitude:meter.

 Country:

 City:

1.6 Earth Station Address:

 P.O. Box: Postal code:

 City: Country:

 Tel. : Fax:

 E-Mail:

1.7 Control Person:

 Tel.: Fax.:



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2. SERVICE

2.1 Planned Service:

2.2 Planned Period of Service:

3. ANTENNA DATA

3.1 Type:

- | | |
|--------------------------|-------------------|
| <input type="checkbox"/> | Front fed |
| <input type="checkbox"/> | Cassegrain |
| <input type="checkbox"/> | Gregorian |
| <input type="checkbox"/> | Offset Front fed |
| <input type="checkbox"/> | Offset Cassegrain |
| <input type="checkbox"/> | Offset Gregorian |
| <input type="checkbox"/> | Other |

Pointing Accuracy:deg.

Depointing Loss:dB.

3.2 Manufacturer of Main Reflector:

Model:

F/D:

3.3 Main Reflector (Circular/ Non-Circular):

Circular Diameter: meter.

Non-Circular Hor. Axis: meter

Non-Circular Ver. Axis:meter

3.4 Manufacturer of Feed:

3.5 Tracking System Type: (Step / Monopulse / Fixed / Other):

Slew Speed:

AZ:deg/sec.

EL:deg/sec.



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Steerability Limited Over: AZ (West):deg EL (Up):deg
AZ (East):deg EL (Down):.....deg

3.6 Feed System No of Ports: TX: RX:

3.7 Frequency Band:

TX:-..... GHz Gain:dBi @GHz
RX:-..... GHz Gain:dBi @GHz

Tsys	G/T	EL
..... K	..... dB/K	at deg.
..... K	..... dB/K	at deg.
..... K	..... dB/K	at deg.
..... K	..... dB/K	at deg.
..... K	..... dB/K	at deg.

ANT Noise	LNA Noise	Feed Loss	
[K]	[K]	[dB]	
.....	at GHz
.....	at GHz
.....	at GHz

3.8 Transmit Sidelobe Pattern: 3 dB Beamwidth:deg
Attached Pattern: @GHz
CCIR Mask:

3.9 Transmit Polarization Isolation:
On Axis:dB.
Worst Case Value:dB
@ Angle:deg
Attached Pattern @GHz

3.10 Receive Sidelobe Pattern:

3 dB Beamwidth:deg.

CCIR Mask:

3.11 Receive Polarization Isolation:

On Axis:dB.

Worst Case Value:dB

@ Angle:deg

4. TRANSMIT EQUIPMENT

4.1 Availability of Redundancy and Automatic Switching :

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No

4.2 EIRP (in the direction of the Satellite):

Maximum Capability: dBW

Overall Stability: + dB

-dB

4.3 Digital Transmission Capability:

Data Rate: Mbps

Modulation:

Code Rates (FEC):

Outer Code:

Symbol Rate:

5. COMMUNICATION SYSTEM

Availability of two-way communication system:

6. EARTH STATION VERIFICATION ASSISTANCE

6.1 Test Requested:

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No

6.2 Requested Period:

6.3 Earliest Start: .../ .../

6.4 To be finished before: .../ .../

6.5 Test To Be Conducted:

I. Mandatory Tests

I.1. Alignment Of Linear Polarization (Null Method)

I.2. Transmit Gain Measurement

 !.2.1. Transmit Gain Measurement By Matching Downlink
Carrier Powers

 I.2.2. Transmit Gain Measurement Using Link
Calculation Method

I.3. Transmit Cross Polarization Isolation Measurement

I.4. Transmit Co-Pol And Cross-Pol Antenna Sidelobe Patterns
(Antennas Equipped With Azimuth And Elevation Driving Equipment)

I.5. Final EIRP, Center Frequency And RF Bandwidth Setup

II. Additional Tests

II.1. G/T Measurement

II.2. Receive Linear Co-Pol And Cross-Pol Antenna Patterns

II.3 Receive Antenna Gain Measurement



AGREEMENT AND CERTIFICATION

Agreement

This Agreement is held between The Egyptian Satellite Company, *Nilesat* and the Uplink Station Under Test (SUT) that will transmit to Nilesat that these tests would be performed under the responsibility of *Nilesat* .

Place of SUT

.....
.....

Place of Nilesat Company

.....
.....

Signature for SUT

.....
.....

Signature for Nilesat

.....
.....

Date: / /

Certification

Nilesat Certifies that the SUT (.....) is ready for operating and transmitting its TV Uplink to *Nilesat*.

Date: / /

Signature of *Nilesat*

.....

COMMITMENT

- Before changing the status of RF signal level / or switching off the carrier (at any time) *Nilesat* should be informed formally
- Telephone line should be available during the tests

Signature of SUT

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