

Ghora Gali Sub Division



Ghora Gali Forest Sub Division

Forest Land

4,753 ha (11,745 acres)

Administration

Ghora Gali Forest Sub Division is divided into four blocks and thirty five beats for administrative management purposes. It comprises of twenty forest compartments which are further divided into sub compartments for better management on silvicultural basis. One Sub Divisional Forest Officer (SDFO), one Sub Divisional Clerk (SDC), four block officers (BOs), thirty five forest guards, five *chowkidar* and one peon are deployed by PFD to look after the matters of Ghora Gali Forest Sub Division.

Locality

Geographically Ghora Gali Forest Sub Division can be described as:

East: Covered by private lands of Distt. Abbottabad (KP), Murree, and state land of Brewery, Municipal Forests.

North: Private lands of District Abbottabad, Haripur (KP) and *tehsil* Murree.

South: Private lands of villages of *tehsil* Murree, Islamabad (ICT), and Murree Express Way (Islamabad to Murree). Murree Express Way also bifurcates State Forests of Ghora Gali from Sambli Forest Sub Division.

West: Private lands of Islamabad (ICT), and State Forest of Capital Development Authority (CDA) /Rawalpindi South Forest Sub Division (PFD) are the boundary of Ghora Gali Forest and private lands of *tehsil* Murree.

Road Network

- a. Two major roads pass through/along the forest areas of Ghora Gali Forest Sub Division from Islamabad-Rawalpindi to Murree namely:
 - i. Rawalpindi-Murree-Kashmir Road (RMK)
 - ii. Islamabad-Muzaffrabad Dual Carriage Way (IMDCW), commonly known as Murree Express Way
- b. Nine other metalled roads run through these forests which also bisect the area of different Forest Compartments and connect different areas of District Haripur, Abbottabad of KP Province, and the areas of the local villages of *tehsil* Murree.
- c. A number of non-metalled (*Kacha/shingled*) roads also pass through the Sub-Division. Most of these roads have been constructed illegally.
- d. Many other bridle/inspection paths also exist in the area, which are used by the local population of the adjoining villages and government officials.

Watershed-River/Nullahs

Forest areas of Ghora Gali Forest Sub Division fall in the main watershed/catchment area of River Indus (Khanpur Dam, KP and Rawal Dam, ICT) fed by Kurrang River/four major *nullahs* and other tributaries.

Included Chaks

About 96 chaks (local populations with private land ownership - called "*Shikmi chaks*") exist inside the Protected Forests of Ghora Gali Forest Sub-Division.

Biodiversity

Ghora Gali Forest Sub Division is mainly comprised of pure and mixed forest of Chir Pine/*Pinus roxburghii* and Broadleaved species (*Kau/Olea ferruginea*, *Phullai/Acacia modesta*, *Sanatha/Dodonaea viscosa*, *Garanda/Carissa opaca*). Sixty per cent area of sub division is covered by the pure broadleaved scrub forest, with mixed forest crop of Chir (*Pinus roxburghii*) in 15% area; rest of the 40% of the area is covered with the pure chir pine, ranging from the young pole crop to mature/over mature chir. 3,221.29 ha (7,960 acres) are declared as Reserved Forest and remaining 1,346 ha (3,326 acres) as Protected Forest category. Ghora Gali has a track that is frequently used by the Common Leopard. It has the Grey Goral, Rhesus Monkey, Koklass Pheasant and a wide variety of small mammals, reptiles, amphibians and birds.

Legal Status of External Forest Boundaries

- i. Length of external delineated forest boundaries: 115.23 Km
- ii. Area of the delineated polygon is 4,609.43 ha (11,390.16 acres) which includes roads, rivers, nullahs, forest area, including *chaks* etc.
- iii. Forest Boundary Pillars marked: 939
- iv. Forest Boundary Pillars newly constructed: 455
- v. No. of encroachers detected: 329
- vi. Area under the encroachment/adverse possession: 200.55 ha (495.59 acres)
- vii. No. of FIRs registered: 56
- viii. Area transferred to other departments: 1.51 ha (3.75 acres)
- ix. Area under Government Buildings: 12.14 ha (30 acres)
- x. Litigation/Civil suit cases: 21
- xi. Area retrieved from encroachers: 171.02 ha (422.6 acres)



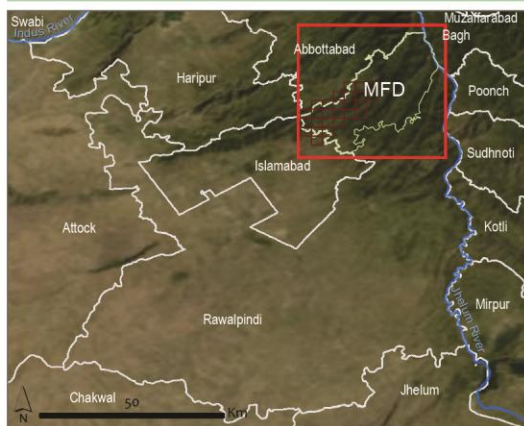
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS INDEX TO MAPS (1ST EDITION 2013) GHORA GALI FOREST SUB DIVISION

Map Locator



Map Index



Map Scale & Coordinate System

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Map Index Legend

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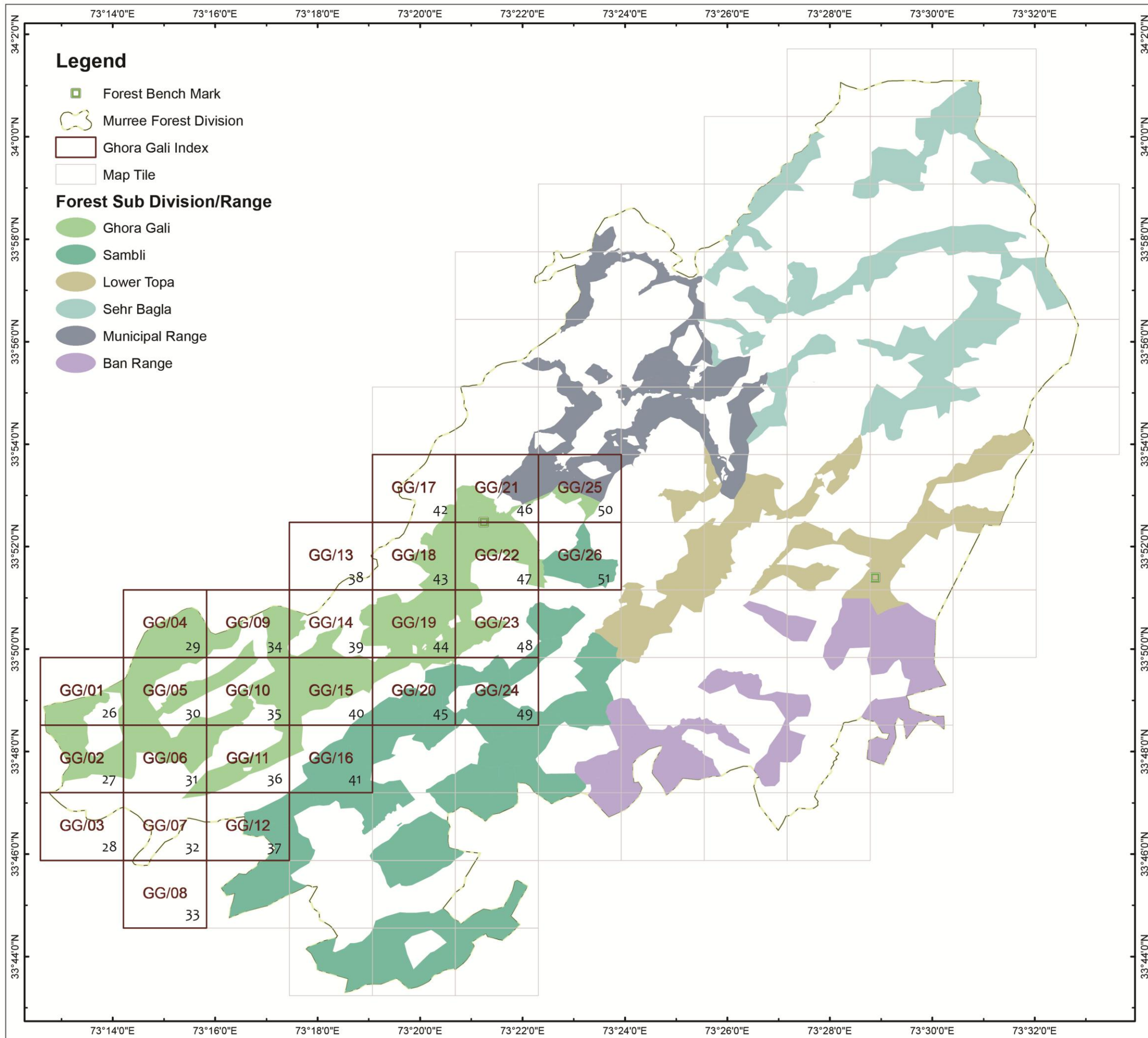
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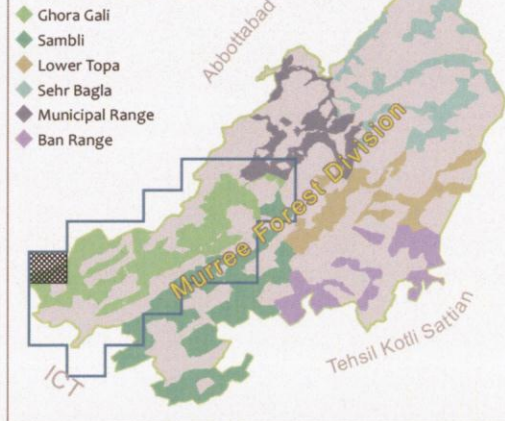


Map Title

GIS BASED BOUNDARY DELINEATION OF
MURREE FOREST DIVISION INCLUDING
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MAP ID : GG/01 (1ST EDITION 2013)
GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

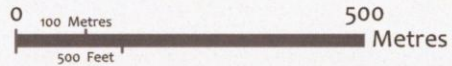


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Value in: Metres



Map Legend

- Pillar Mark
 - Forest Boundary
 - Forest Bench Mark
 - Ambiguity Area
 - Sehadda
 - Included Chak
 - Spot Height (m)
 - Murree Forest Division
 - Road
 - Water Channel/Nullah
 - Water Pond/Tank
 - Contour (m)
 - Encroachment
- Contour interval: 50m (164 ft)

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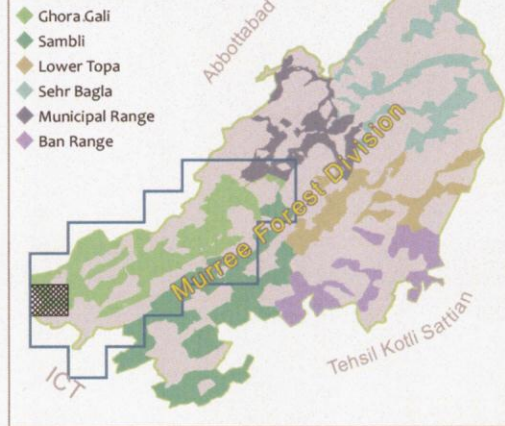


Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCRoACHED FOREST SECTIONS
 MAP ID : GG/02 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range



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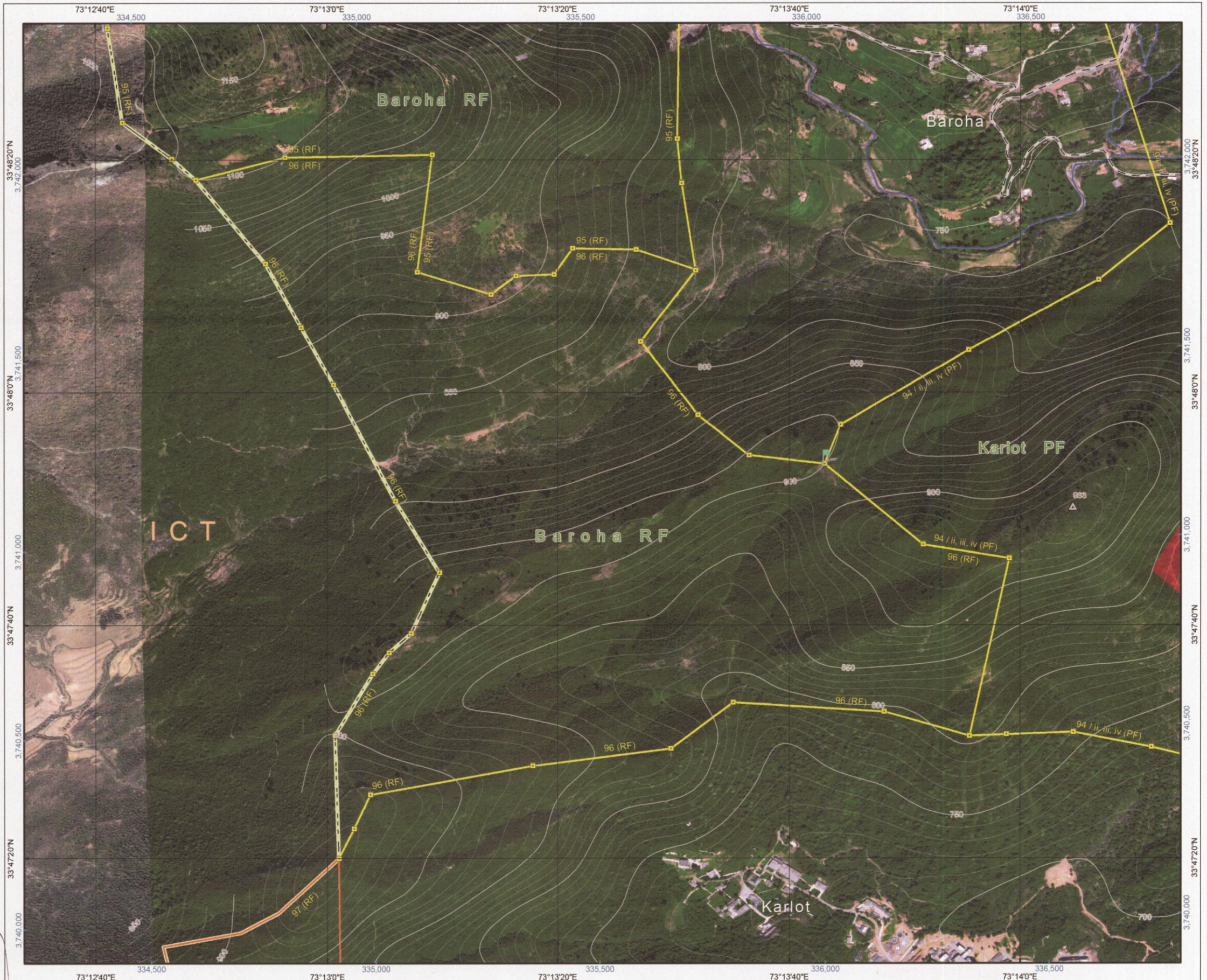
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Map Locator

Forest Sub Division/Range

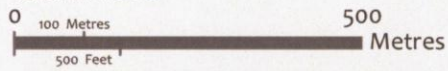


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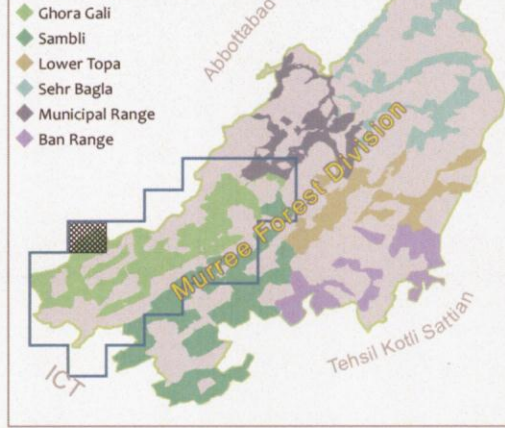


Map Title

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MAP ID : GG/04 (1ST EDITION 2013)
GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range



Map Index



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Map Legend

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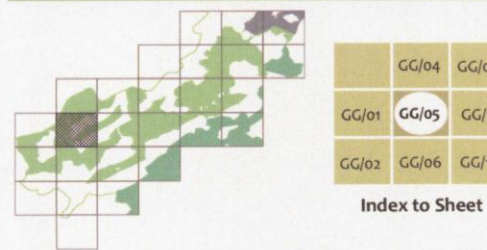
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Forest Sub Division/Range



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Map Legend

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Forest Sub Division/Range



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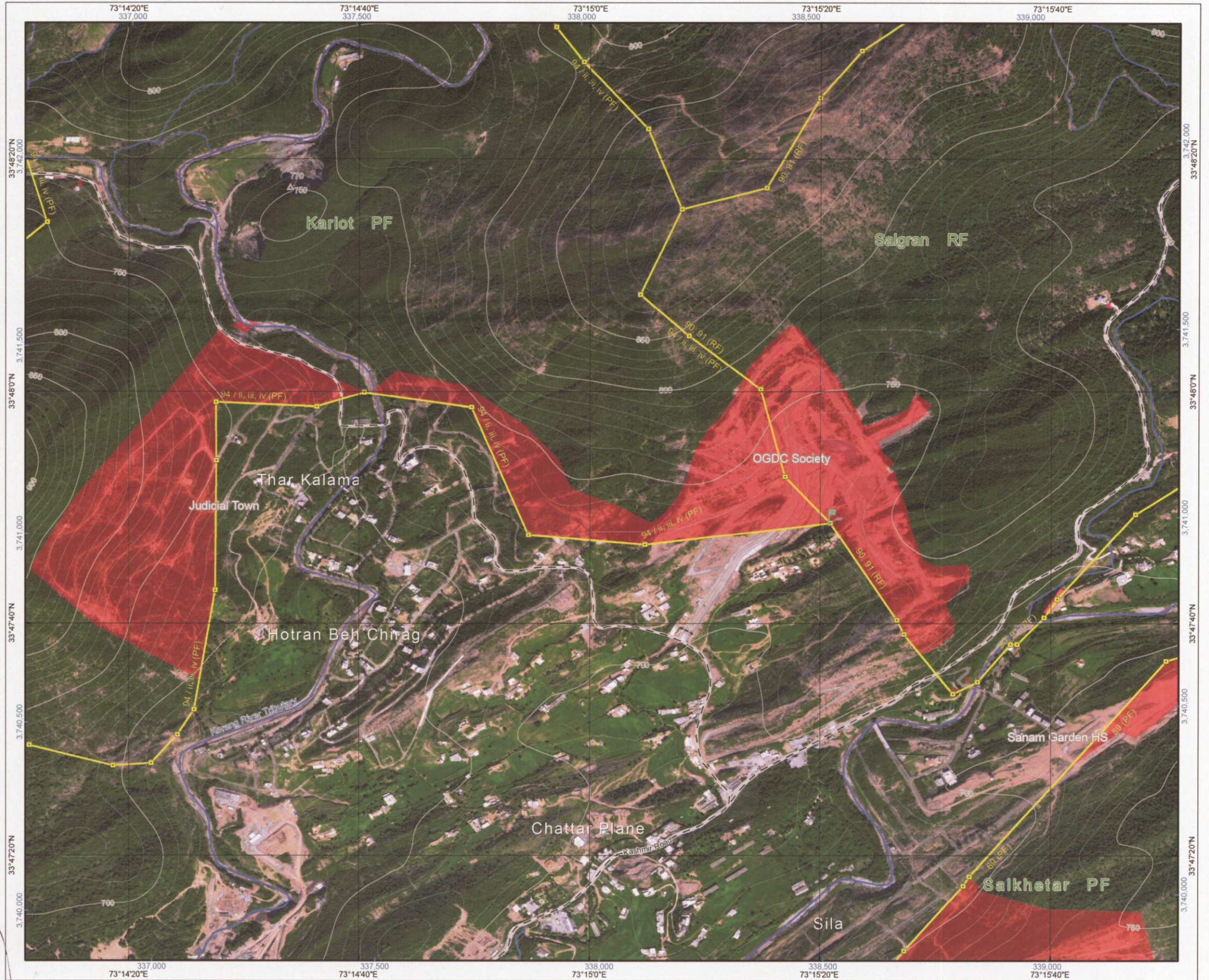
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Map Locator

Forest Sub Division/Range

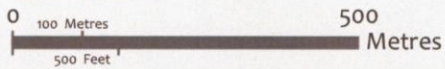


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Map Legend

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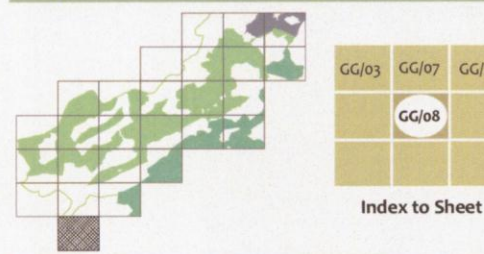
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Map Locator

Forest Sub Division/Range



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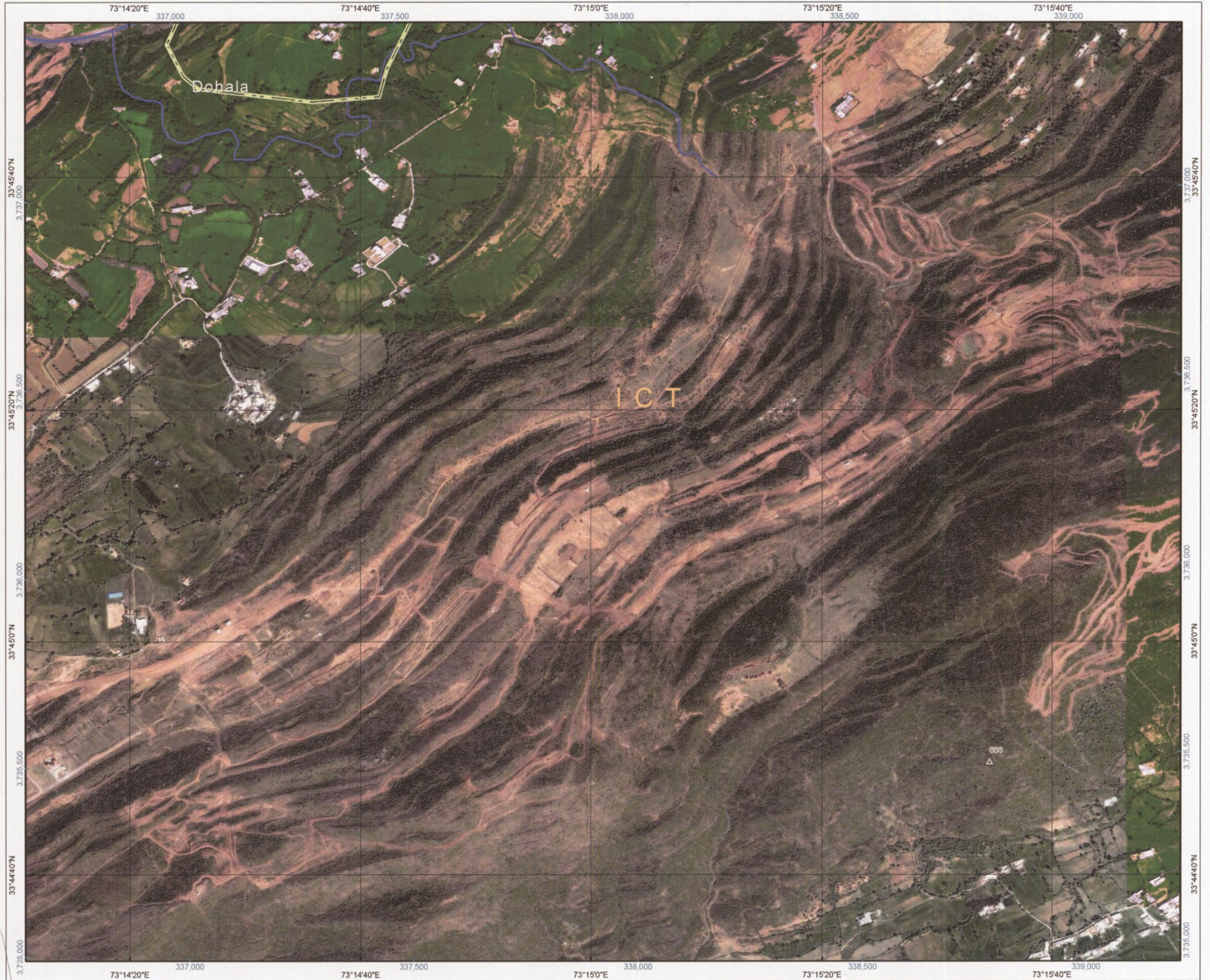
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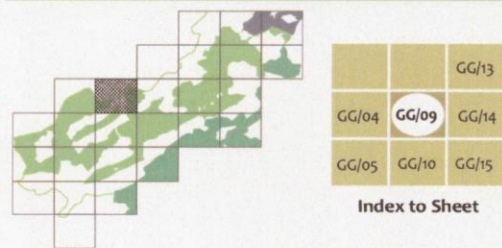
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Forest Sub Division/Range

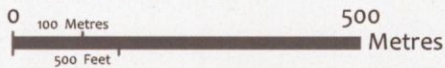


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Map Title

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 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range



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Map Legend

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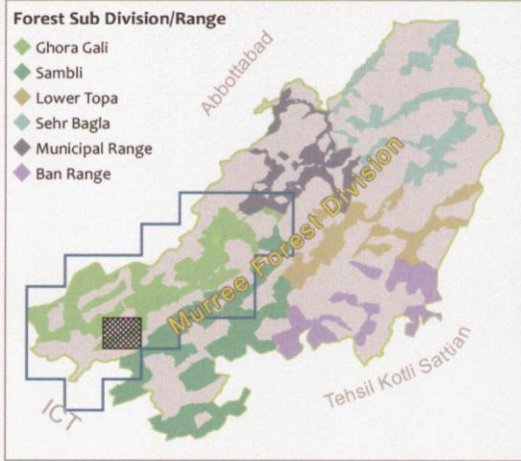
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GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCREACHED FOREST SECTIONS
 MAP ID : GG/11 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

- ◆ Ghora Gali
- ◆ Sambli
- ◆ Lower Topa
- ◆ Sehr Bagla
- ◆ Municipal Range
- ◆ Ban Range

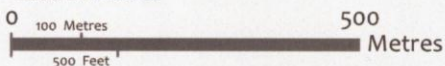


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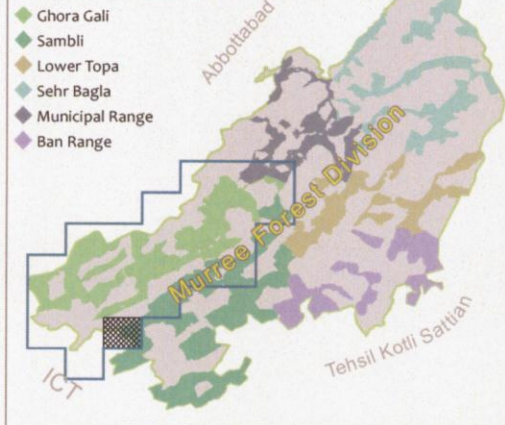


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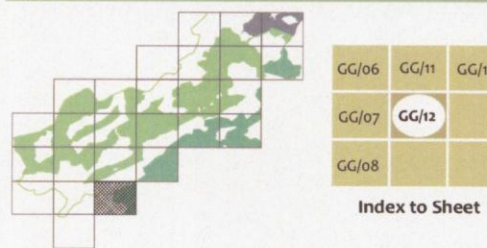
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Map Locator

Forest Sub Division/Range

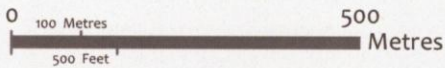


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Map Legend

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- Forest Bench Mark
- Ambiguity Area
- Sehadda
- Included Chak
- Spot Height (m)
- Murree Forest Division
- Road
- Water Channel/Nullah
- Contour (m)
- Water Pond/Tank
- Encroachment

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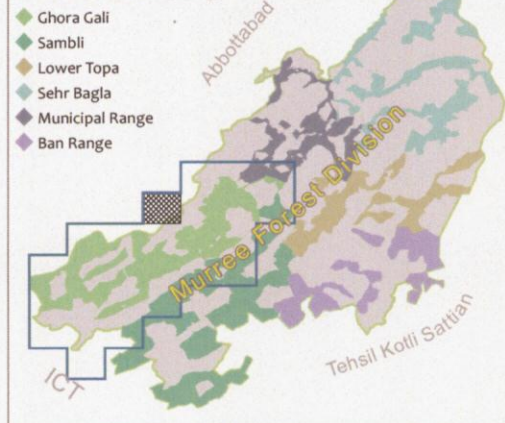


Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCREACHED FOREST SECTIONS
 MAP ID : GG/13 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

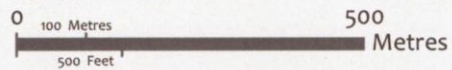


Map Index



Map Scale & Coordinate System

Reference Scale: 1:110,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



Map Legend

- Pillar Mark
- Forest Boundary
- Forest Bench Mark
- Ambiguity Area
- Sehadda
- Included Chak
- Spot Height (m)
- Murree Forest Division
- Road
- Water Channel/Nullah
- Contour (m)
- Water Pond/Tank
- Contour interval: 50m (164 ft)
- Encroachment

Map Credits

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Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCLOSED FOREST SECTIONS
 MAP ID : GG/14 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range



Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



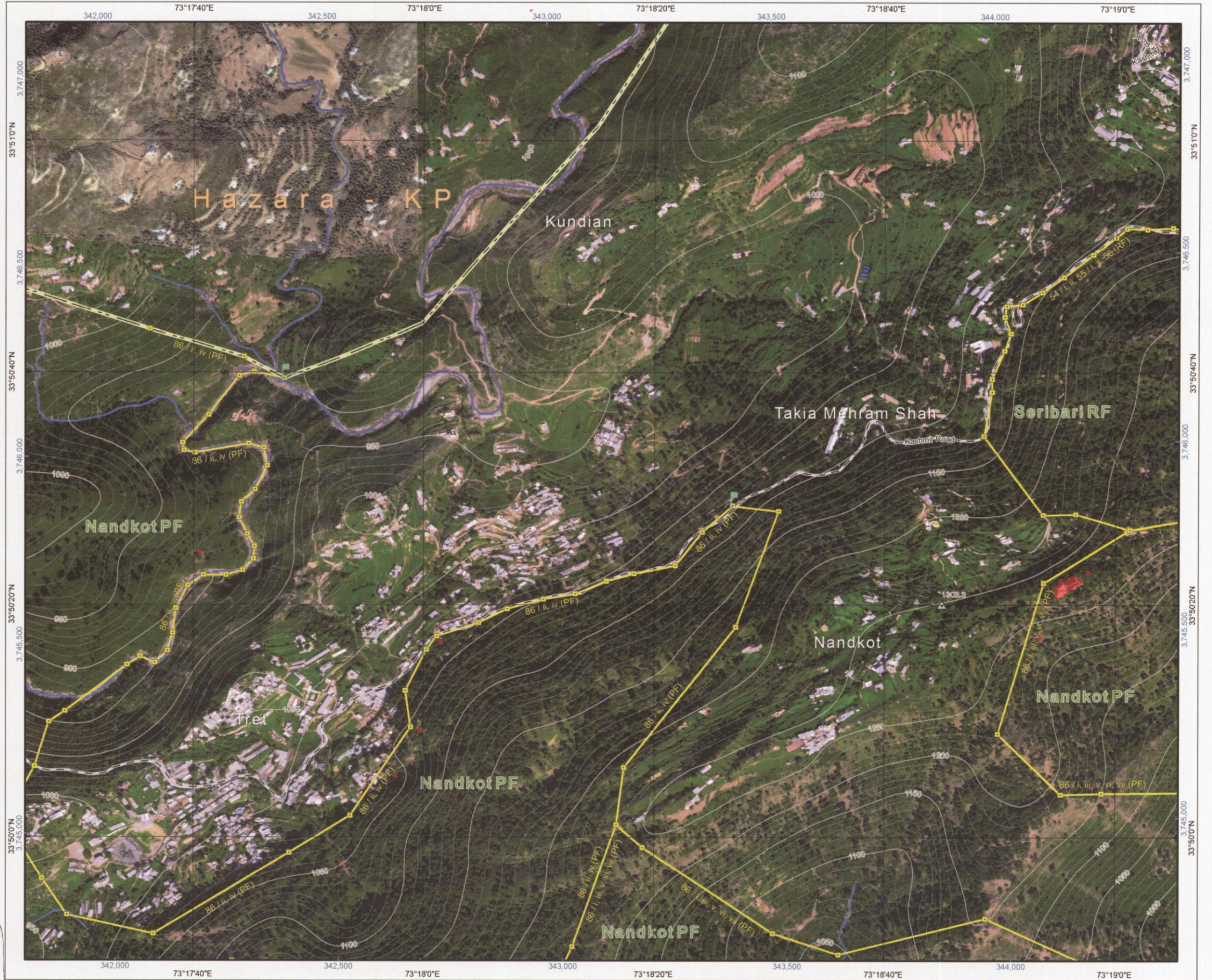
Map Legend

- Pillar Mark
- Forest Boundary
- Forest Bench Mark
- Ambiguity Area
- Sehadda
- Included Chak
- Spot Height (m)
- Murree Forest Division
- Road
- Water Channel/Nullah
- Water Pond/Tank
- Contour (m)
- Encroachment

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Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCREACHED FOREST SECTIONS
 MAP ID : GG/15 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

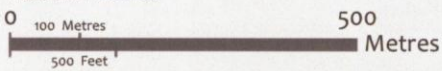


Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



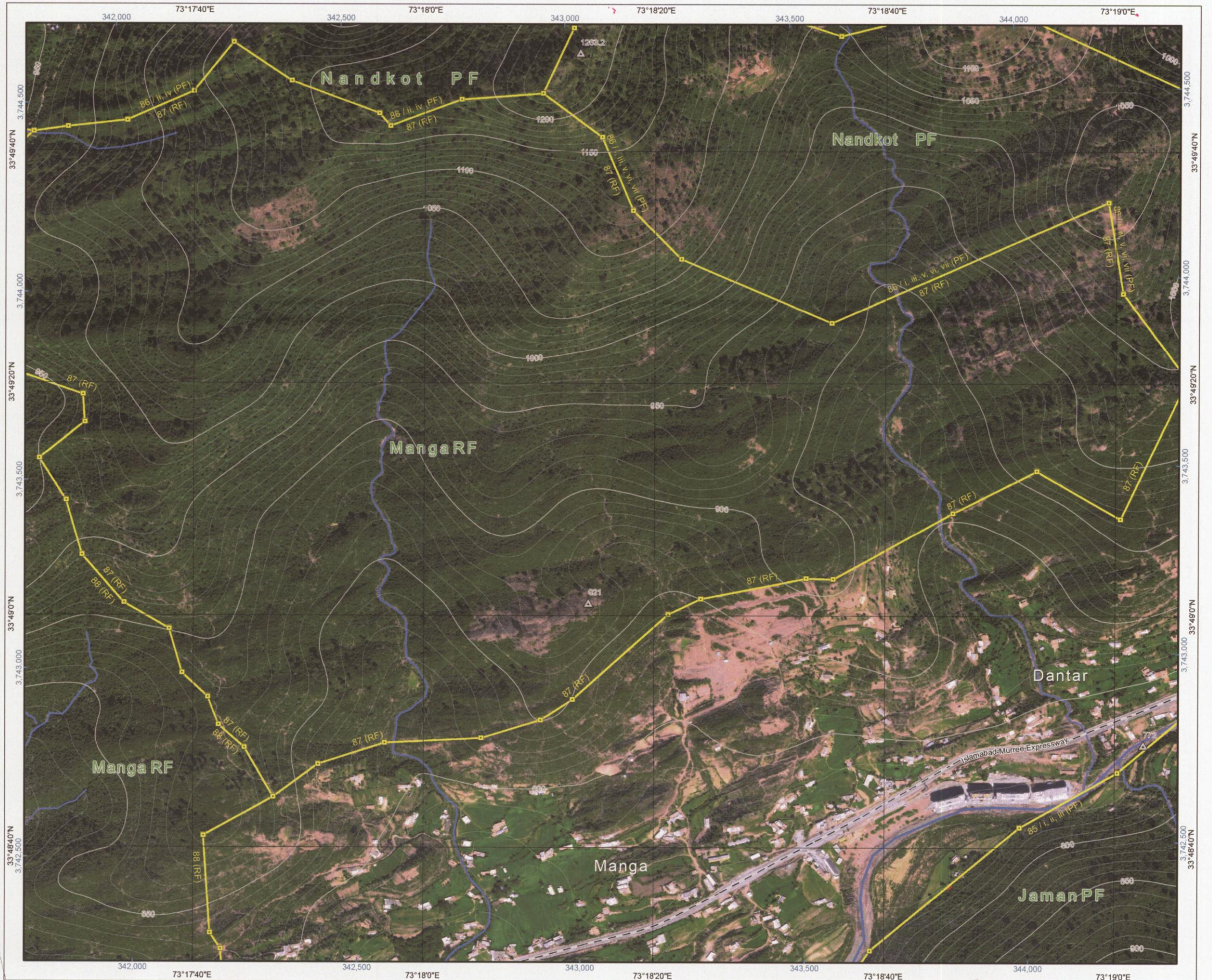
Map Legend

- Pillar Mark
 - Forest Boundary
 - Forest Bench Mark
 - Ambiguity Area
 - Sehadda
 - Included Chak
 - Spot Height (m)
 - Murree Forest Division
 - Road
 - Water Channel/Nullah
 - Water Pond/Tank
 - Contour (m)
 - Encroachment
- Contour interval: 50m (164 ft)

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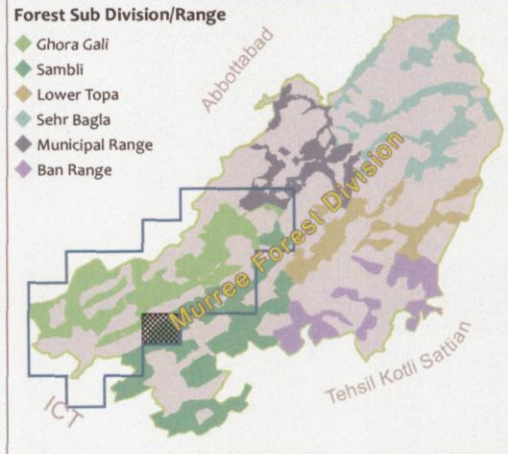
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/16 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

- ◆ Ghora Gali
- ◆ Sambli
- ◆ Lower Topa
- ◆ Sehr Bagla
- ◆ Municipal Range
- ◆ Ban Range



Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



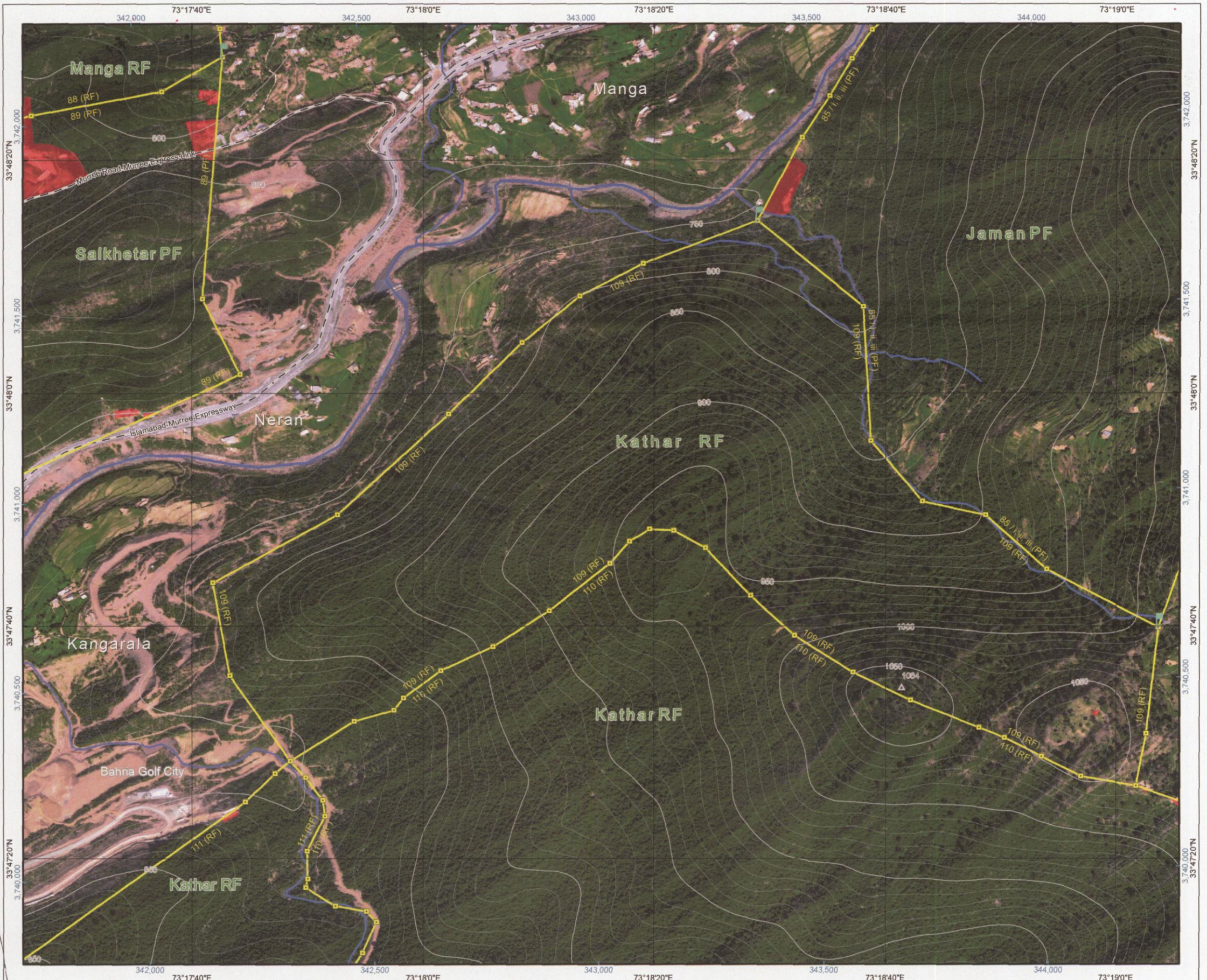
Map Legend

- Pillar Mark
- Forest Bench Mark
- ▬ Sehadra
- ▲ Spot Height (m)
- Road
- Contour (m)
Contour interval: 50m (164 ft)
- Forest Boundary
- Ambiguity Area
- Included Chak
- Murree Forest Division
- Water Channel/Nullah
- Water Pond/Tank
- Encroachment

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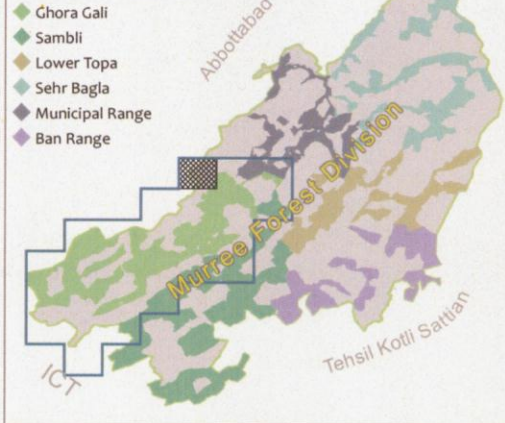


Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/17 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range



Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



Map Legend

- Pillar Mark
- Forest Boundary
- Forest Bench Mark
- Ambiguity Area
- Sehadda
- Included Chak
- Spot Height (m)
- Murree Forest Division
- Road
- Water Channel/Nullah
- Contour (m)
Contour Interval: 50m (164 ft)
- Water Pond/Tank
- Encroachment

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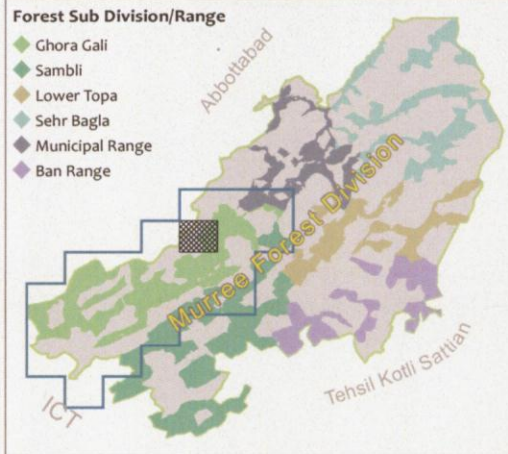
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/18 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

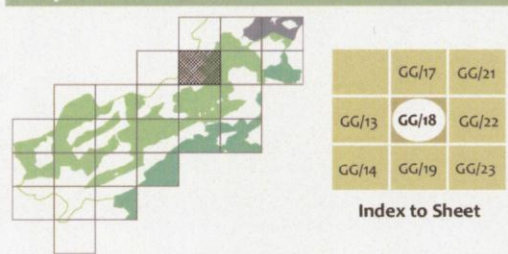
Map Locator

Forest Sub Division/Range

- ◆ Ghora Gali
- ◆ Sambli
- ◆ Lower Topa
- ◆ Sehr Bagla
- ◆ Municipal Range
- ◆ Ban Range



Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



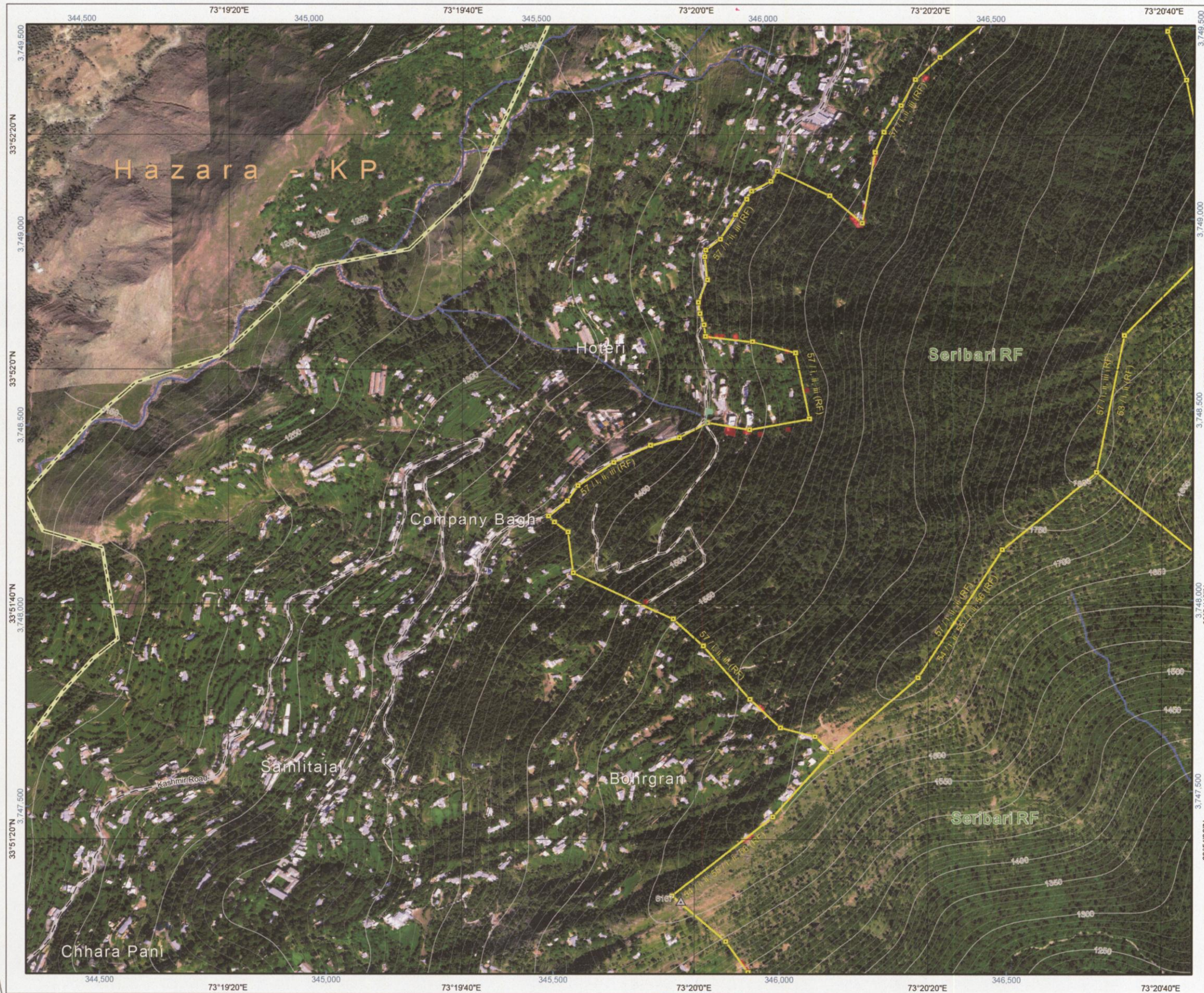
Map Legend

- Pillar Mark
- Forest Bench Mark
- ▬ Sehadda
- ▲ Spot Height (m)
- Road
- Contour (m)
- Contour interval: 50m (164 ft)
- Forest Boundary
- Ambiguity Area
- Included Chak
- Murree Forest Division
- Water Channel/Nullah
- Water Pond/Tank
- Encroachment

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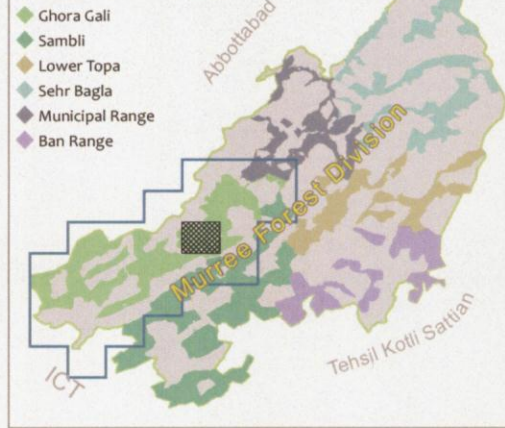


Map Title

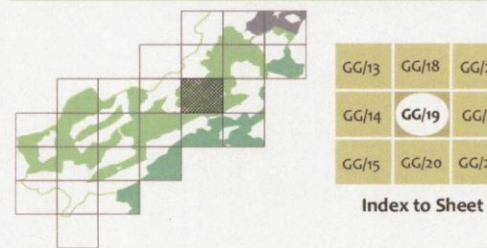
GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/19 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

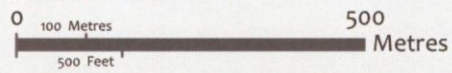


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Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



Map Legend

- Pillar Mark
- Forest Bench Mark
- ▭ Sehadda
- ▲ Spot Height (m)
- Road
- Contour (m)
- Contour interval: 50m (164 ft)
- Forest Boundary
- Ambiguity Area
- Included Chak
- Murree Forest Division
- Water Channel/Nullah
- Water Pond/Tank
- + Encroachment

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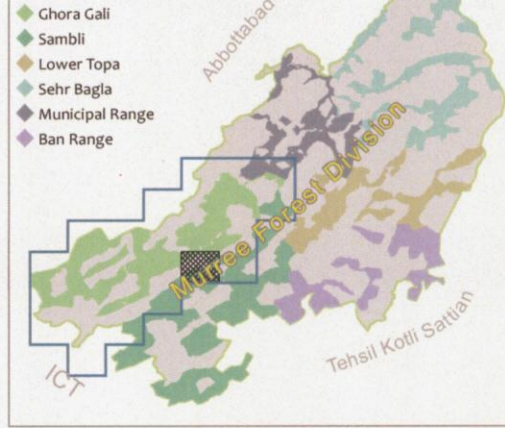


Map Title

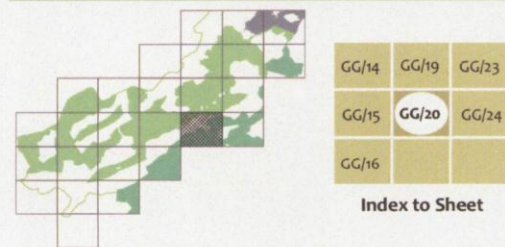
GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/20 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

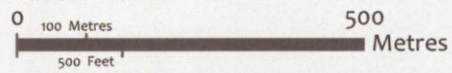


Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



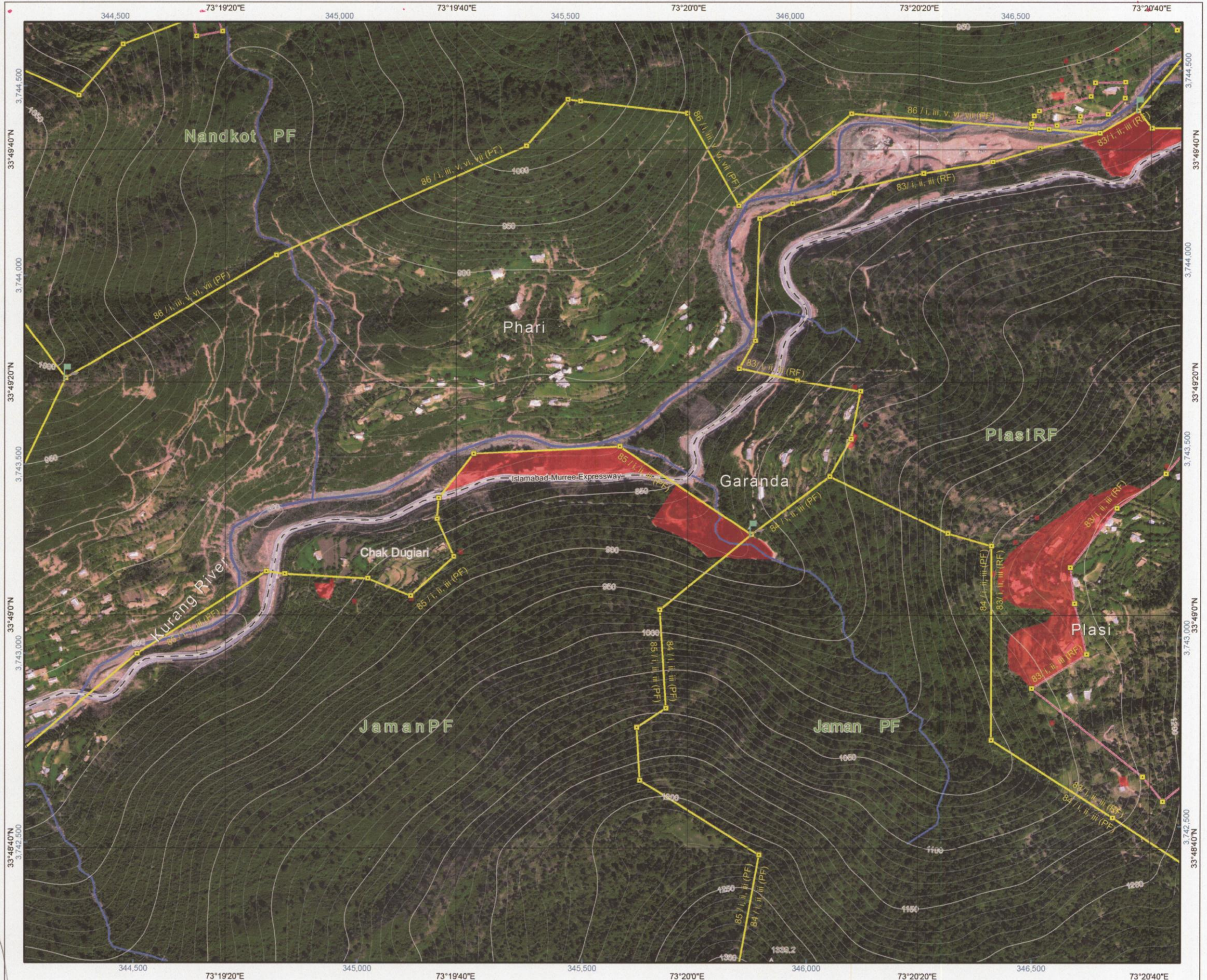
Map Legend

- Pillar Mark
- Forest Boundary
- Forest Bench Mark
- Ambiguity Area
- Sehadda
- Included Chak
- Spot Height (m)
- Murree Forest Division
- Water Channel/Nullah
- Road
- Water Pond/Tank
- Contour (m)
- Contour interval: 50m (164 ft)
- Encroachment

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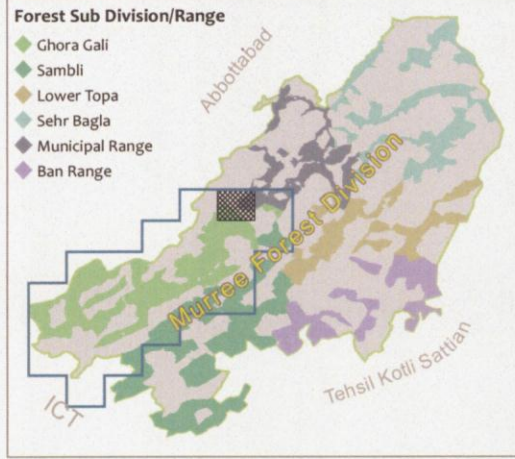
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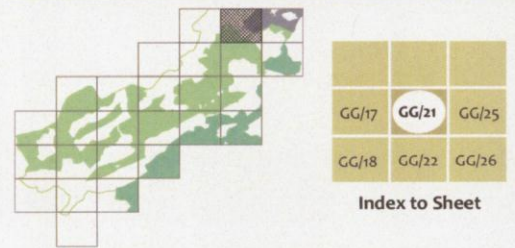
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCREACHED FOREST SECTIONS
 MAP ID : GG/21 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator



Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



Map Legend

- Pillar Mark
 - Forest Boundary
 - Forest Bench Mark
 - Ambiguity Area
 - Sehadda
 - Included Chak
 - Spot Height (m)
 - Murree Forest Division
 - Road
 - Water Channel/Nullah
 - Water Pond/Tank
 - Contour (m)
 - Encroachment
- Contour interval: 50m (164 ft)

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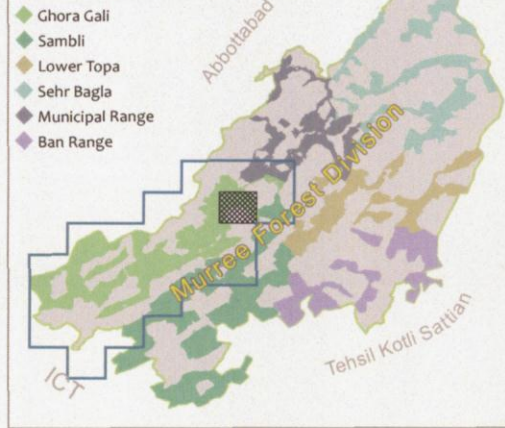


Map Title

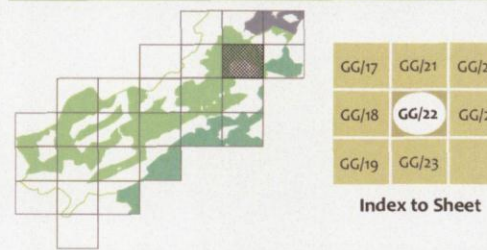
GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCREACHED FOREST SECTIONS
 MAP ID : GG/22 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

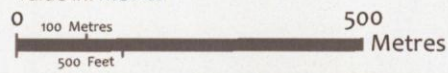


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Map Scale & Coordinate System

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 1 inch = 278 yards or 1 centimetre = 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



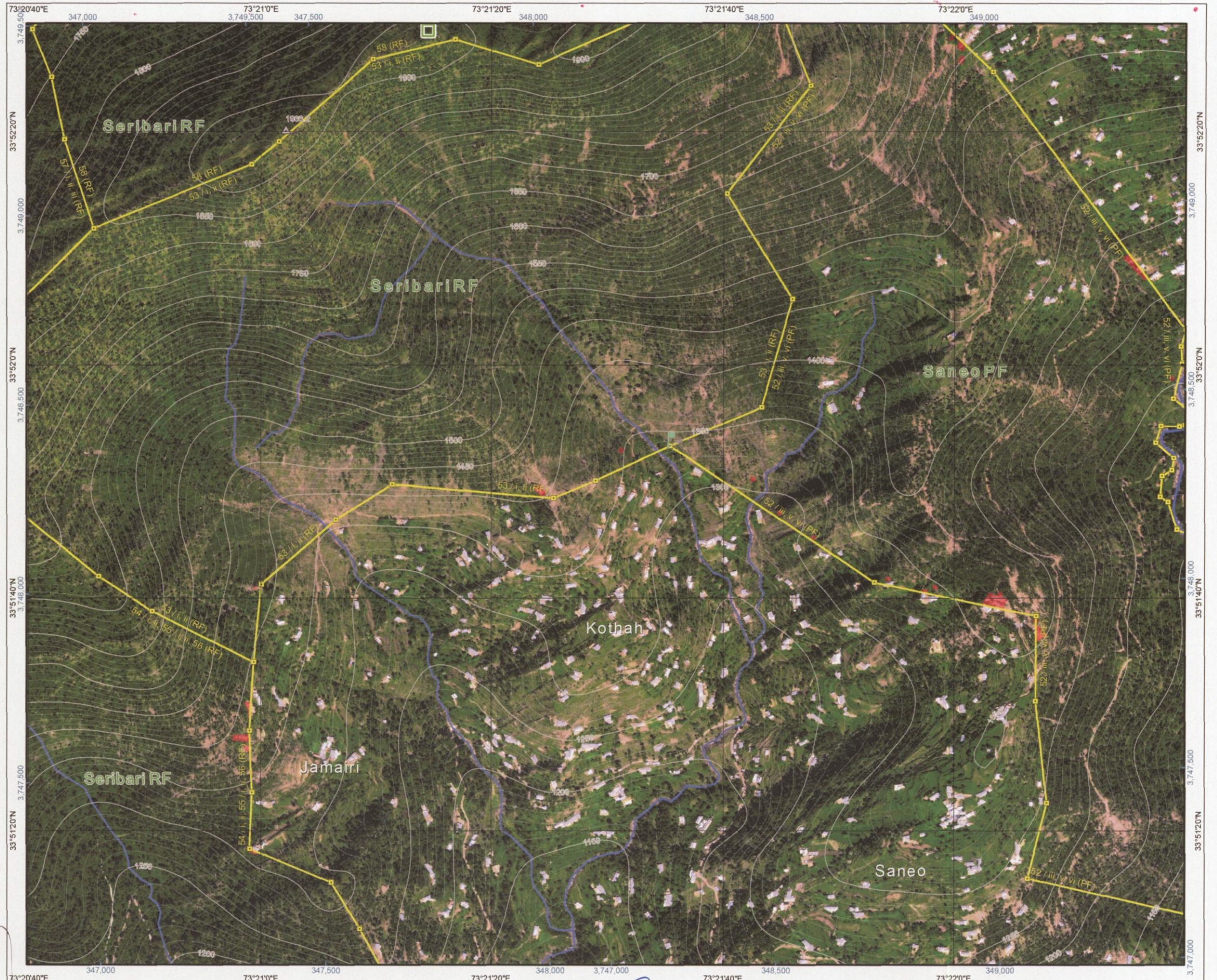
Map Legend

- Pillar Mark
- Forest Bench Mark
- ▭ Sehadha
- ▲ Spot Height (m)
- Road
- Contour (m)
Contour interval: 50m (164 ft)
- Forest Boundary
- Ambiguity Area
- Included Chak
- Murree Forest Division
- Water Channel/Nullah
- Water Pond/Tank
- Encroachment

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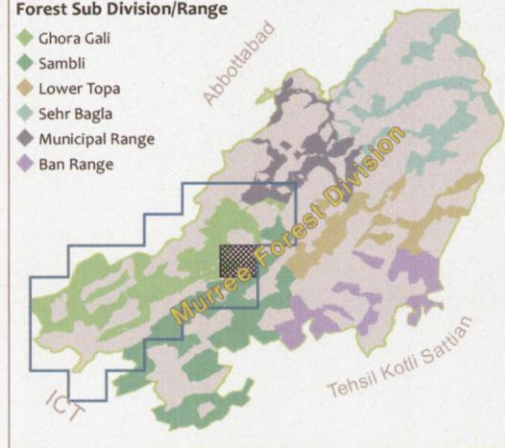
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/23 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

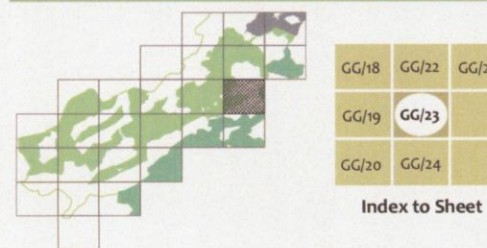
Map Locator

Forest Sub Division/Range

- ◆ Ghora Gali
- ◆ Sambli
- ◆ Lower Topa
- ◆ Sehr Bagla
- ◆ Municipal Range
- ◆ Ban Range



Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



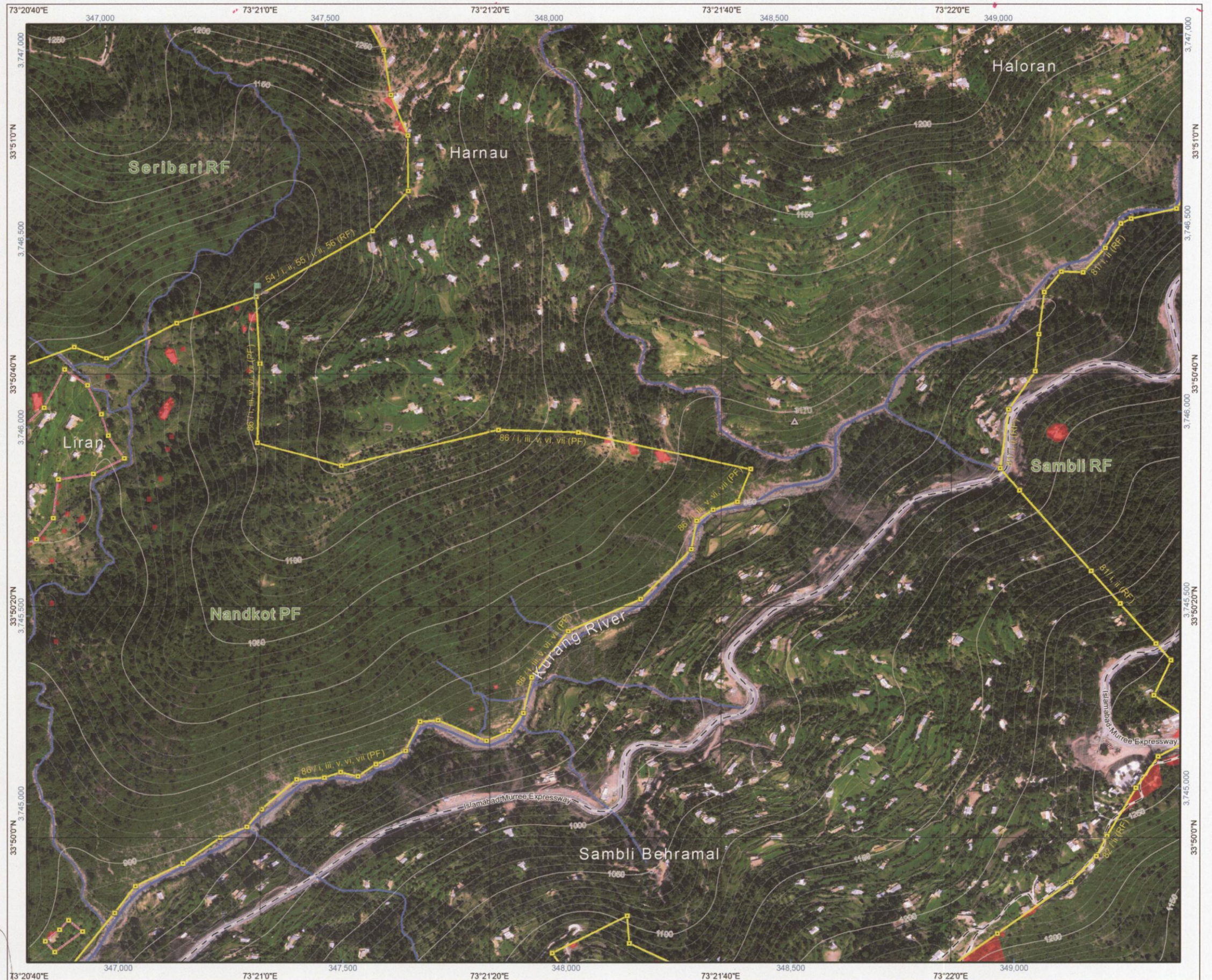
Map Legend

- Pillar Mark
- Forest Bench Mark
- ▭ Sehadha
- ▲ Spot Height (m)
- Road
- Contour (m)
Contour interval: 50m (164 ft)
- Forest Boundary
- Ambiguity Area
- Included Chak
- Murree Forest Division
- Water Channel/Nullah
- Water Pond/Tank
- Encroachment

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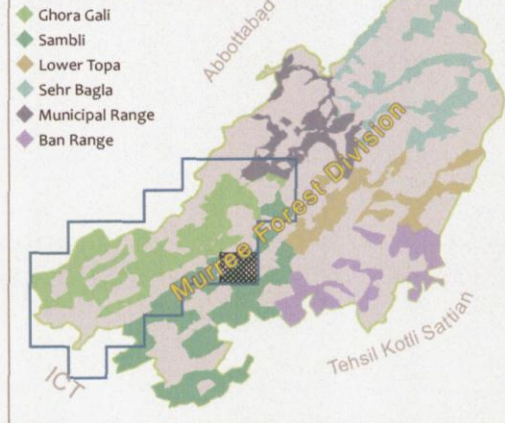


Map Title

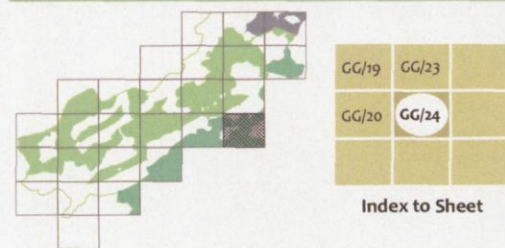
GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/24 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range



Map Index



Map Scale & Coordinate System

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 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



Map Legend

- Pillar Mark
- Forest Boundary
- Forest Bench Mark
- Ambiguity Area
- Sehadda
- Included Chak
- Spot Height (m)
- Murree Forest Division
- Road
- Water Channel/Nullah
- Contour (m)
Contour interval: 50m (164 ft)
- Water Pond/Tank
- Encroachment

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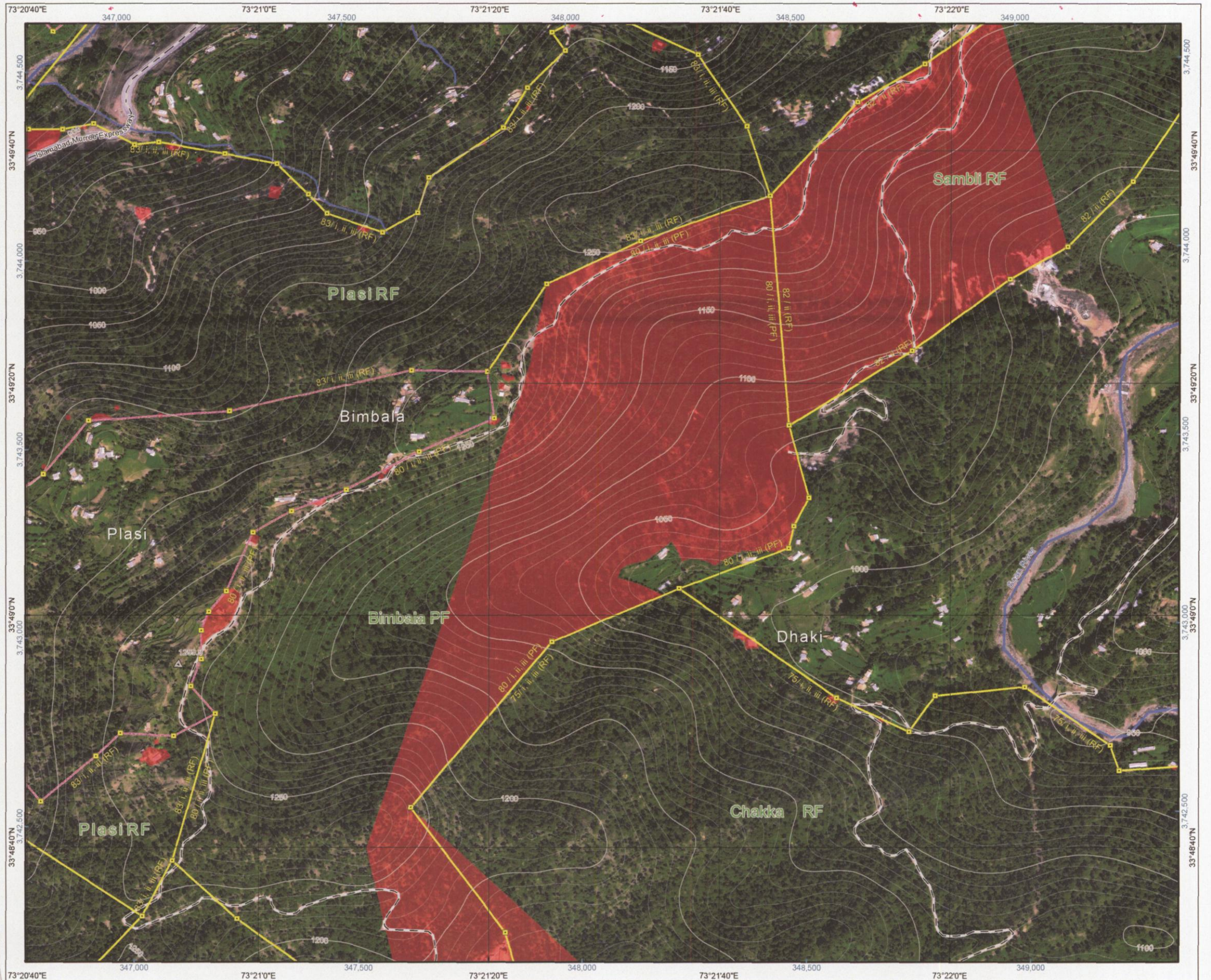
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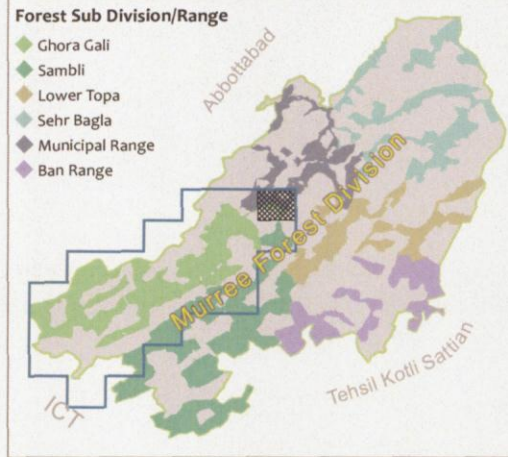
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCRoACHED FOREST SECTIONS
 MAP ID : GG/25 (1st EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

Map Locator

Forest Sub Division/Range

- ◆ Ghora Gali
- ◆ Sambli
- ◆ Lower Topa
- ◆ Sehr Bagla
- ◆ Municipal Range
- ◆ Ban Range

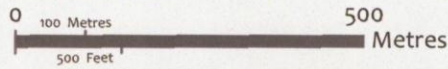


Map Index



Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
 1 inch ~ 278 yards or 1 centimetre ~ 100 metres
Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



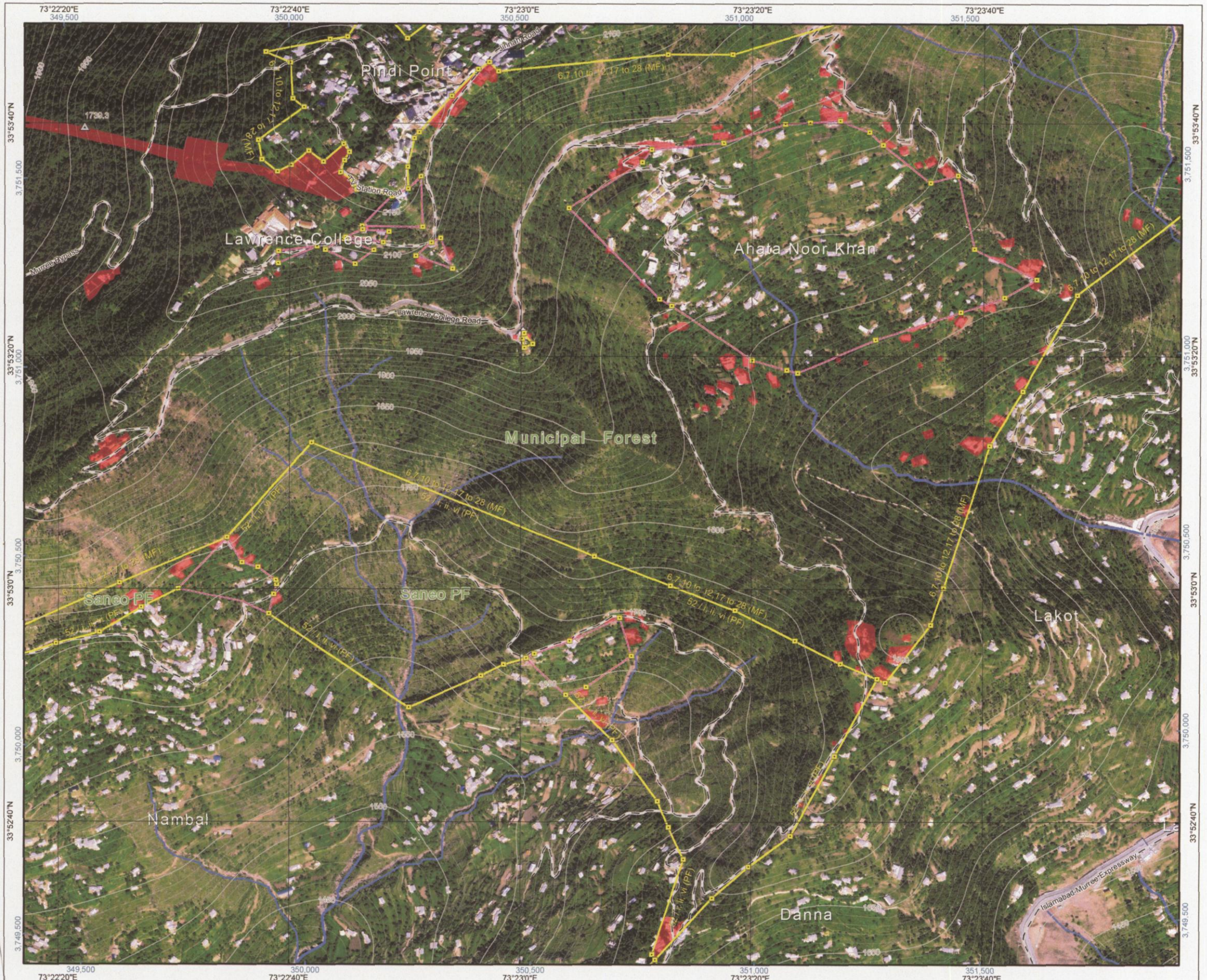
Map Legend

- Pillar Mark
- Forest Bench Mark
- ▭ Sehadha
- ▲ Spot Height (m)
- Road
- Contour (m)
- Contour interval: 50m (164 ft)
- Forest Boundary
- Ambiguity Area
- Included Chak
- Murree Forest Division
- Water Channel/Nullah
- Water Pond/Tank
- Encroachment

Map Credits

Map Produced by: GIS Laboratory, WWF - Pakistan in February, 2013

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Divisional Forest Officer
 Murree Forest Division
 Punjab Forest Department



Officer-in-Charge
 No. 4 Party,
 Survey of Pakistan, Murree



Tehsildar Murree
 Punjab Revenue Department



Manager GIS
 GIS Laboratory
 World Wide Fund for Nature - Pakistan



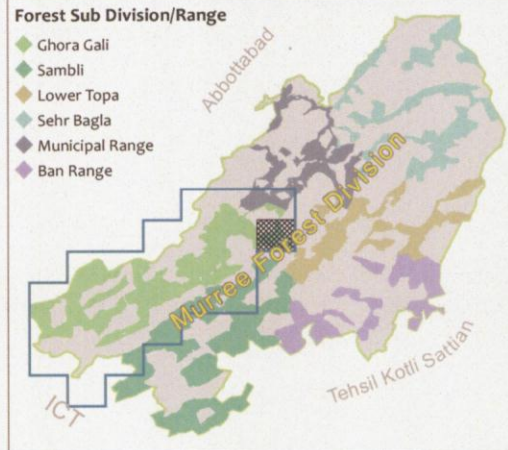
Map Title

GIS BASED BOUNDARY DELINEATION OF MURREE FOREST DIVISION INCLUDING THE ENCROACHED FOREST SECTIONS
 MAP ID : GG/26 (1ST EDITION 2013)
 GHORA GALI FOREST SUB DIVISION

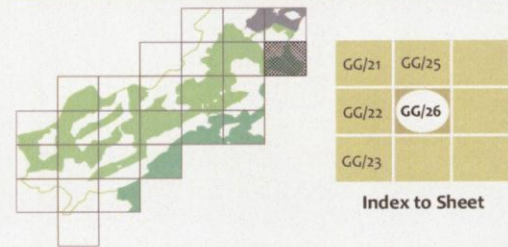
Map Locator

Forest Sub Division/Range

- ◆ Ghora Gali
- ◆ Sambli
- ◆ Lower Topa
- ◆ Sehr Bagla
- ◆ Municipal Range
- ◆ Ban Range



Map Index

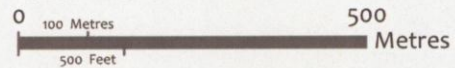


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GG/22	GG/26
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Map Scale & Coordinate System

Reference Scale: 1:10,000 on A3 size paper
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Coordinate System: GCS WGS 1984
 Datum: WGS 1984
Grids and Graticule:
 Geographic Grid: WGS 1984
 Value in: DD° MM' SS"
 Metric Grid: UTM Zone 43S
 Value in: Metres



Map Legend

- Pillar Mark
- Forest Bench Mark
- Sehadha
- ▲ Spot Height (m)
- Road
- Contour (m)
- Contour interval: 50m (164 ft)
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