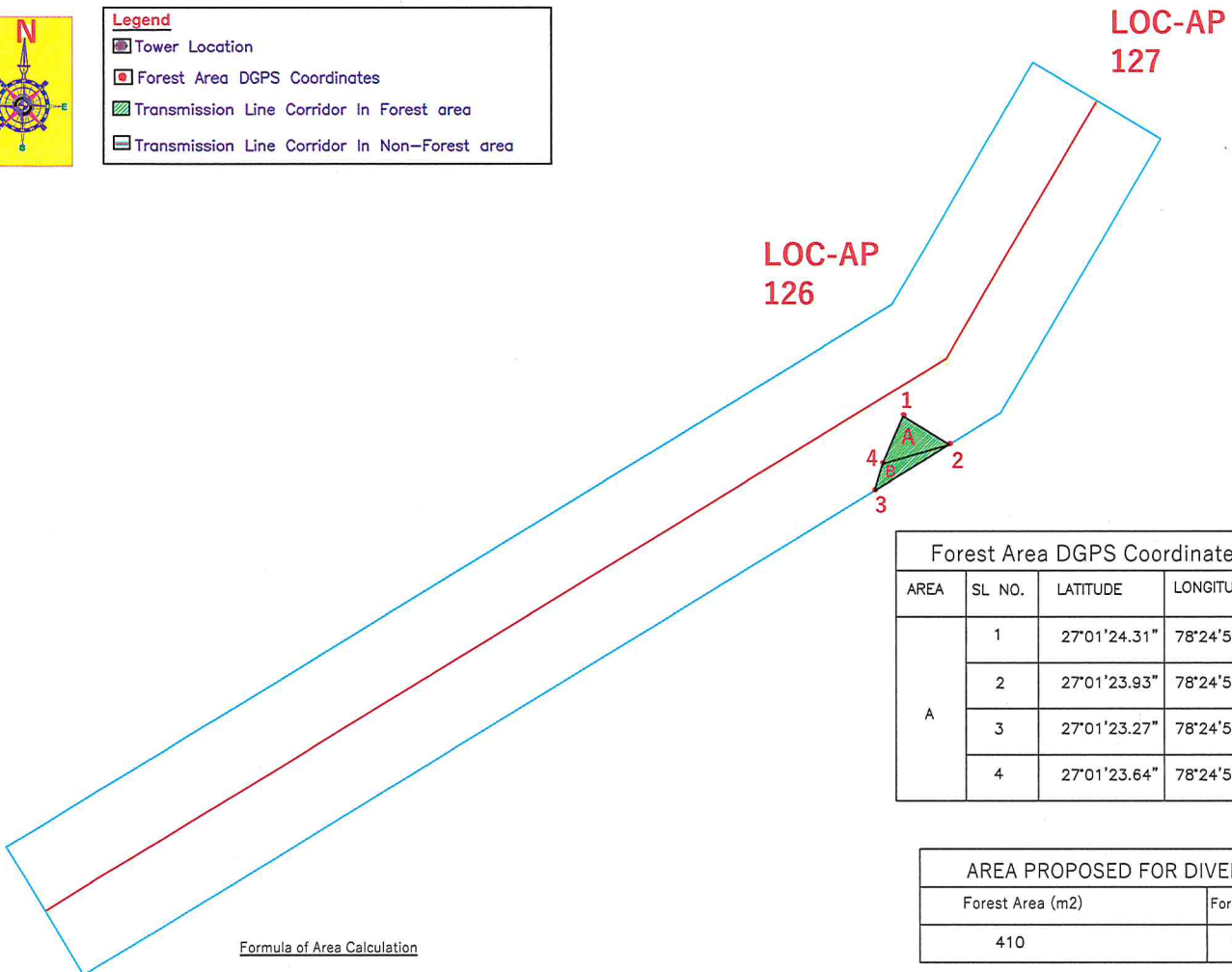


**GEO REFERENCE MAP OF PROPOSED 765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
LOC BETWEEN AP 125-126-127, NEAR VILLAGE- NAGLA MAWAI, FATEHABAD, AGRA**



Legend

- Tower Location
- Forest Area DGPS Coordinates
- Transmission Line Corridor In Forest area
- Transmission Line Corridor In Non-Forest area



Forest Area DGPS Coordinates			
AREA	SL NO.	LATITUDE	LONGITUDE
A	1	27°01'24.31"	78°24'58.66"
	2	27°01'23.93"	78°24'59.403"
	3	27°01'23.27"	78°24'58.24"
	4	27°01'23.64"	78°24'58.36"

AREA PROPOSED FOR DIVERSION	
Forest Area (m2)	Forest Area (ha.)
410	0.0410

Formula of Area Calculation

Area = $\sqrt{p(p-a)(p-b)(p-c)}$
Where p is half the perimeter, or $a+b+c/2$

LOC-125/1



$$p = \frac{30.066 + 22.291 + 23.468}{2} = 37.9125$$

$$\text{Area} = \sqrt{37.9125 \times 7.8465 \times 15.6215 \times 14.4445} = 259.0847343$$



$$p = \frac{37.843 + 11.899 + 30.066}{2} = 39.904$$

$$\text{Area} = \sqrt{39.904 \times 2.061 \times 28.005 \times 9.838} = 150.5283875$$

Total Area $259.0847343 + 150.5283875 = 410 \text{ m}^2$
0.0410 Hectares

PROJECT:-	765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
User Agency:-	GHATAMPUR TRANSMISSION LIMITED
Dwg. Title:-	765KV S/C AGRA-GREATER NOIDA PROPOSED TRANSMISSION LINE ROUTE (IN AGRA FOREST DIVISION)
DATE:- 05/10/2019 DRAWING NO.-GTL/A-G/26	

(Handwritten Signature)
06.11.2019
NAVNEET CHADDA
KANPUR

**GEO REFERENCE MAP OF PROPOSED 765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
LOC BETWEEN AP 125-126-127, NEAR VILLAGE- NAGLA MAWAI, FATEHABAD, AGRA**

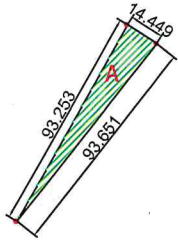


Legend

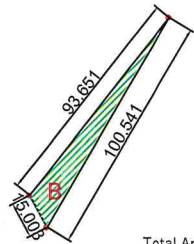
- Tower Location
- Forest Area DGPS Coordinates
- Transmission Line Corridor In Forest area
- Transmission Line Corridor In Non-Forest area

Formula of Area Calculation

Area = $\sqrt{p(p-a)(p-b)(p-c)}$
Where p is half the perimeter, or $a+b+c/2$



$p = 93.651 + 93.253 + 14.449 / 2 = 100.6765$
Area = $\sqrt{(100.6765 * 7.0255 * 7.0255 * 7.4235 * 86.2275)} = 672.8680815$



$p = 100.541 + 15.003 + 93.651 / 2 = 104.5975$
Area = $\sqrt{(104.5975 * 4.0565 * 89.5945 * 10.9465)} = 645.0816798$

Total Area $672.8680815 + 645.0816798 = 1318m^2$
0.1318 Hectares

LOC-125/A

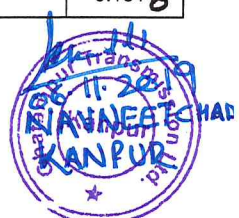
LOC-AP 126

LOC-AP 127

Forest Area DGPS Coordinates			
AREA	SL. NO.	LATITUDE	LONGITUDE
A	1	27°01'28.28"	78°25'2.049"
	2	27°01'28.03"	78°25'2.497"
	3	27°01'25.19"	78°25'0.709"
	4	27°01'25.61"	78°25'0.442"

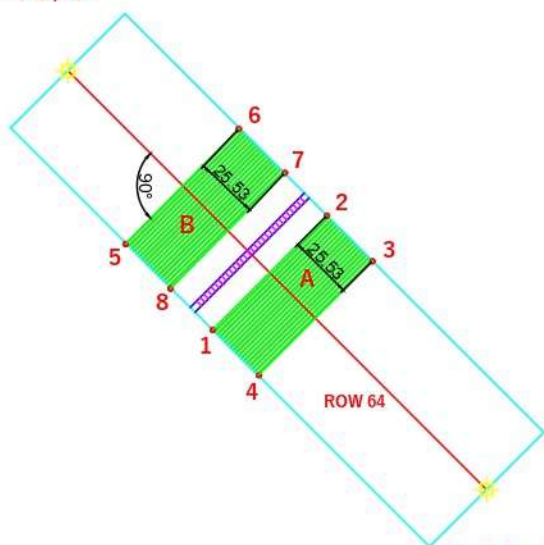
PROJECT:-	765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
User Agency:-	GHATAMPUR TRANSMISSION LIMITED
Dwg. Title:-	765KV S/C AGRA-GREATER NOIDA PROPOSED TRANSMISSION LINE ROUTE (IN AGRA FOREST DIVISION)
DATE:-05/10/2019 DRAWING NO.-GTL/A-G/26	

AREA PROPOSED FOR DIVERSION			
Forest Length(m)	R.O.W Corridor(m)	Forest Area (m2)	Forest Area (ha.)
20.592 M	64.0	1318	0.1318



**GEO REFERENCE MAP OF PROPOSED 765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
RAILWAY CROSSING, NEAR VILLAGE- TEHU, ETMADPUR, AGRA**

LOC-73/0



LOC-74/0

SCALE
0 5 10 20 30 40
METERS



Legend

- Tower Location
- Forest Area DGPS Coordinates
- Transmission Line Corridor In Forest area
- Transmission Line Corridor In Non-Forest area



Forest Area DGPS Coordinates

AREA	SL. NO.	LATITUDE	LONGITUDE
A	1	27°23'49.21"	78°14'20.97"
	2	27°23'50.71"	78°14'22.58"
	3	27°23'50.14"	78°14'23.25"
	4	27°23'48.64"	78°14'21.65"
B	5	27°23'51.25"	78°14'21.96"
	6	27°23'51.80"	78°14'21.28"
	7	27°23'50.29"	78°14'19.69"
	8	27°23'49.73"	78°14'20.35"

AREA PROPOSED FOR DIVERSION

Forest Length(m)	R.O.W Corridor(m)	Forest Area (m2)	Forest Area (ha.)
25.53+25.53	64.0	3268	0.3268

Area Calculation For A & B

$$(A) \frac{64m}{\sin(90^\circ)} \times 25.53m = 1633.9 m^2 = 0.16339 \text{ Hectares}$$

$$(B) \frac{64m}{\sin(90^\circ)} \times 25.53m = 1633.9 m^2 = 0.16339 \text{ Hectares}$$

Total Forest Area = 0.3268 Hectares

PROJECT:-	765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
User Agency:-	GHATAMPUR TRANSMISSION LIMITED
Dwg. Title:-	765KV S/C AGRA-GREATER NOIDA PROPOSED TRANSMISSION LINE ROUTE (IN AGRA FOREST DIVISION)
DATE:-	05/10/2019
DRAWING NO.-	GTL/A-G/15