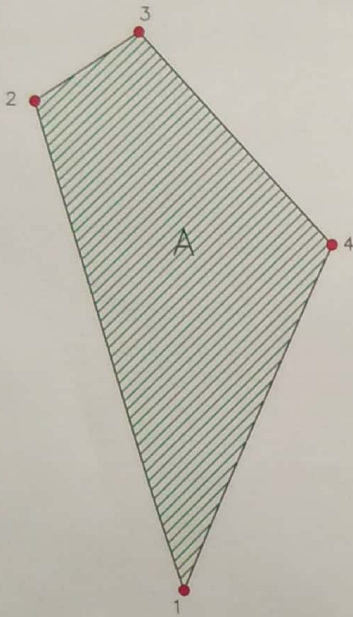


**GEO REFERENCE MAP OF PROPOSED 765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE
FOREST LAND NEAR VILLAGE- SUFIPUR, FIROZABAD**

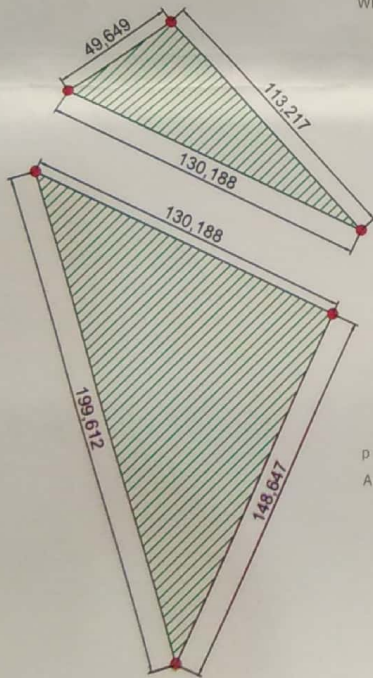


Forest Area DGPS Coordinates			
AREA	SL. NO.	LATITUDE	LONGITUDE
A	1	27° 8'2.98"	78°22'48.21"
	2	27° 8'9.14"	78°22'45.96"
	3	27° 8'10.08"	78°22'47.43"
	4	27° 8'7.44"	78°22'50.29"

AREA PROPOSED FOR DIVERSION	
Forest Area (m2)	Forest Area (ha.)
12453	1.2453

Formula of Area Calculation

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



$$p = 49,649 + 113,217 + 130,188 / 2 = 146,527$$

$$\text{Area} = \sqrt{(146,527 * 96,878 * 33,31 * 16,339)} = 2779.53063$$

0.277953063 Hectares

$$p = 130,188 + 148,647 + 199,612 / 2 = 239,2235$$

$$\text{Area} = \sqrt{(239,2235 * 109,0355 * 90,5765 * 39,6115)} = 9673.96009$$

0.967396009 Hectares

SCALE
0 5 10 20 30 40
METERS



- Legend**
- Forest Area DGPS Coordinates
 - Transmission Line Corridor In Forest area

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 FIROZABAD FOREST DIVISION)
DATE:-20/12/2019 DRAWING NO.-GTL/A-G/52	

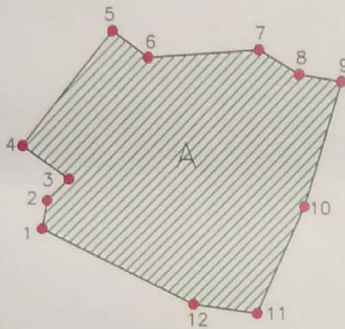
(अशोक कुमार सिंह)
प्रभागीय निदेशक
सामाजिक वानिकी प्रभाग फिरोजाबाद

क्षेत्रीय वन अधिकारी
दण्डत्वा रेंज (फिरोजाबाद)

क्षेत्रीय वन अधिकारी
फिरोजाबाद

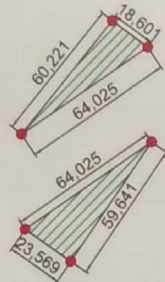
(अशोक कुमार सिंह)
प्रभागीय निदेशक
सामाजिक वानिकी प्रभाग फिरोजाबाद
22/1/2020

GEO REFERENCE MAP OF PROPOSED 765KV S/C AGRA-GREATER NOIDA TRANSMISSION LINE FOREST LAND NEAR VILLAGE- DHIRPUR, FIROZABAD

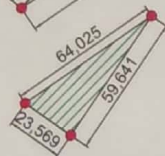


Formula of Area Calculation

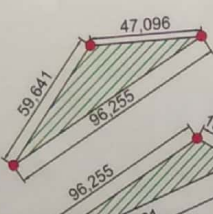
Area = $\sqrt{p(p-a)(p-b)(p-c)}$
Where p is half the perimeter, or $a+b+c/2$



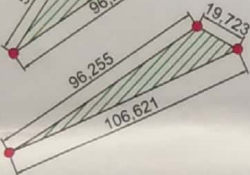
$p = 64.025 + 18.601 + 60.221 / 2 = 71.4235$
Area = $\sqrt{71.4235 * 7.3985 * 52.8225 * 11.2025} = 559.1899473$
0.0559899473 Hectares



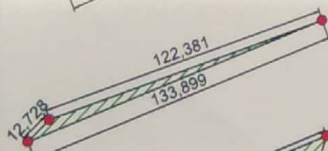
$p = 59.641 + 64.025 + 23.569 / 2 = 73.6175$
Area = $\sqrt{73.6175 * 13.9765 * 9.5925 * 50.0485} = 702.831445$
0.0702831445 Hectares



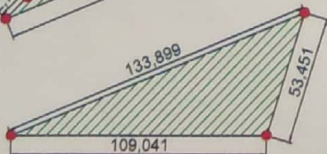
$p = 96.255 + 47.096 + 59.641 / 2 = 101.496$
Area = $\sqrt{101.496 * 5.241 * 54.4 * 41.855} = 1100.537046$
0.1100537046 Hectares



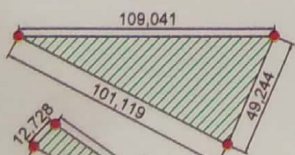
$p = 106.621 + 19.723 + 96.255 / 2 = 111.2995$
Area = $\sqrt{111.2995 * 4.6785 * 91.5765 * 15.0445} = 846.9949548$
0.0846949548 Hectares



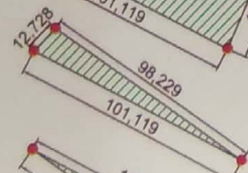
$p = 133.899 + 122.381 + 12.728 / 2 = 134.4995$
Area = $\sqrt{134.4995 * 0.6005 * 12.1185 * 121.7715} = 345.2344309$
0.03452344309 Hectares



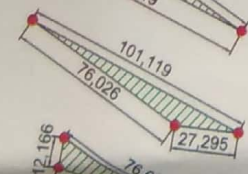
$p = 109.041 + 53.451 + 133.899 / 2 = 148.1955$
Area = $\sqrt{148.1955 * 39.1545 * 94.7445 * 14.2965} = 2803.497788$
0.2803497788 Hectares



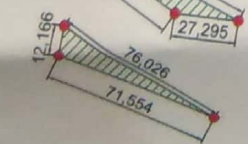
$p = 101.119 + 49.244 + 109.041 / 2 = 129.702$
Area = $\sqrt{129.702 * 28.583 * 80.458 * 20.661} = 2482.490107$
0.2482490107 Hectares



$p = 101.119 + 98.229 + 12.728 / 2 = 106.038$
Area = $\sqrt{106.038 * 4.919 * 7.809 * 93.31} = 616.4970195$
0.06164970195 Hectares



$p = 76.026 + 27.295 + 101.119 / 2 = 102.22$
Area = $\sqrt{102.22 * 26.194 * 74.925 * 1.101} = 469.9762214$
0.04699762214 Hectares



$p = 71.554 + 76.026 + 12.166 / 2 = 79.873$
Area = $\sqrt{79.873 * 8.319 * 3.847 * 67.707} = 416.019262$
0.0416019262 Hectares

Forest Area DGPS Coordinates

AREA	SL NO.	LATITUDE	LONGITUDE
A	1	27° 9'18.74"	78°17'55.95"
	2	27° 9'19.13"	78°17'56.01"
	3	27° 9'19.43"	78°17'56.33"
	4	27° 9'19.84"	78°17'55.60"
	5	27° 9'21.39"	78°17'56.97"
	6	27° 9'21.04"	78°17'57.53"
	7	27° 9'21.17"	78°17'59.23"
	8	27° 9'20.86"	78°17'59.86"
	9	27° 9'20.78"	78°18'0.51"
	10	27° 9'19.11"	78°17'59.97"
	11	27° 9'17.63"	78°17'59.28"
	12	27° 9'17.74"	78°17'58.30"

AREA PROPOSED FOR DIVERSION

Forest Area (m2)	Forest Area (ha.)
10253	1.0253

- Legend**
- Forest Area DGPS Coordinates
 - Transmission Line Corridor In Forest area

SCALE
0 5 10 20 30 40
METERS



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 FIROZABAD FOREST DIVISION)

DATE:- 20/12/2019 DRAWING NO.-GTL/A-G/53

अशोक कुमार सिंह
प्रभागीय निदेशक
सामाजिक विकास विभाग
फिरोजपुर (फिरोजपुर)

अशोक कुमार सिंह
प्रभागीय निदेशक
सामाजिक विकास विभाग
फिरोजपुर (फिरोजपुर)