Compensatory Afforestation land identified for 13.2653 Ha in Nagarjunasagar (WL) Division at Sy.No.299, Yellapuram(V) of Rajavaram RF in lieu of diversion of 13.2653 Ha Forest land in Nalgonda Division for Construction of Railway line from Vishnupuram Railway Station to (5 x 800 MW) YTPS, Veerlapalem (V) in f/o. TSGENCO.

#### <u>I.</u> Introduction:

Diversion of 13.2653 Ha Forest land in Nalgonda Division for Construction of Railway line from Vishnupuram Railway Station to (5 x 800 MW) YTPS, Veerlapalem (V) in F/o. TSGENCO of Nalgonda District. Further, the Prl.Chief Conservator of Forests, T.S., Hyderabad has instructed to prepare CA Scheme for identified CA area with 20 years maintenance.

#### (A) CA NFL land details and scheme proposed.

#### I) Identification of Compensatory afforestation Land:

The Forest Range Officer, Nagarjunasagar to whom the matter was referred for identification of CA land in lieu of diversion of forest land of 13.2653 Ha for the abovementioned project in Nagarjunasagar Range of Nagarjunasagar Division are shown below. The surveyed sketch of the Compensatory Afforestation land and location on Toposheet 1:50000 are enclosed to the scheme proposals. The area details are shown below:

SI. No	Division	Range	Section	RF	Sy.No.	Area in Ha
1	N.Sagar	Nagarjunasgar	Rajawaram	Adjacent to Rajawaram	299	13.2653

It is submitted that out of 13.2653 Ha CA area only 9.00 planting and remaining A Ha is identified to take DFL planting at compt.no.72, Nellikal Beat of Nellikal RF of Nagarjunasagar Range.

# II. Planting Techniques

It is proposed to raise Miscellaneous Plantation along the pathway both sides at 2 mtr distance @ 1000 plants / km including 20 years maintenance. The said areas with red loam soil and sandy soil which are suitable for planting for raising Miscellaneous plantation as per the guidelines issued by Prl. Chief Conservator of Forests in Rc.No.43246/2012/CAMPA, dt.29.11.2012. It is noticed that the afforestation will prevent the attempt of encroachment besides cover the forest land with good tree growth.

## <u>1. Raising of plantations:</u>

The Raising of plantations along the pathway both sides at 2 mtr distance. The espacement proposed is gap plantation @ 1000 Nos per Km. The activities including ploughing, alignment, Digging of Pits, planting 60 cm<sup>3</sup> pit, with misc. species under the direct supervision of the Forest Range Officer concerned. Two weeding and Circular weeding, waterings, Application of fertilizers, protection watcher et.,

### 2. Maintenance of plantations

Maintenance of plantations was taken up to 20 years as per calendar operations.

## Planting targets proposed.

2024-25	-	Raising of Plantation
2025-26 to 2044-45	-	Maintenance of Plantations

1

2

No     Phy     Fin       1     Proposal for CA - NFL     3     4       1     Raising of Pathway plantation     4     18.00304       1     Raising of Plantation     4     18.00304       1     Raising of Plantations     4     18.00304       1     Maintenance of plantations     4     7.69792       2     2nd Year     4     3.5184       3     dyear     4     3.5184       3     dyear     4     3.7407       4     4th Year     4     6.98130       5     5th Year     4     8.47338       7     7th Year     4     8.4733       7     7th Year     4     10.22133       9     9th Year     4     13.60438       10     10th Year     4     3.60458       11     11th Year     4     3.60458       13     13th Year     4     4.505289       13     14th Year     4     4.505289       16     16th Yea	SI.	ltem of work		Total
Proposal for CA - NFL       I     Raising of Pathway plantation       1     Raising of Plantation       1     Raising of Plantation       1     Raising of Plantations       1     Sub Total :       1     Maintenance of plantations       1     1st Year       2     2nd Year       4     4.53184       3rd Year     4       4     4.53184       3rd Year     4       4     4.53184       3rd Year     4       4     4.53184       5     5th Year       4     4.5821       6     6th Year       4     10.22133       9     9 th Year       10     10th Year       11     11th Year       12     12th Year       13     13th Year       14     14th Year       14     14th Year       14     14th Year       15th Year     4       15th Year     4       15th Year			Phy	Fin
1   Raising of Pathway plantation   4   18.00304     1   Raising of Plantation   4   18.00304     1   Raising of Plantations   1   18.00304     1   Maintenance of plantations   1   18.00304     1   Ist Year   4   7.69792     2   2nd Year   4   4.53184     3   3rd Year   4   4.53184     3   3rd Year   4   7.69792     2   2nd Year   4   4.53184     3   3rd Year   4   3.71407     4   Hyear   4   6.98130     5   5th Year   4   7.32172     6   6th Year   4   10.22133     9   9th Year   4   10.22133     10   10th Year   4   12.36778     10   Totar   4   13.60458     11   11th Year   4   3.78556     13   14th Year   4   4.55626     15   15th Year   4   5.56147     16   Hyear <td< td=""><td>1</td><td></td><td>3</td><td>4</td></td<>	1		3	4
1   Raising of Plantation   4   18.00304     Maintenance of plantations   1   18.00304     1   Ist Year   4   7.69792     2   2nd Year   4   4.53184     3   3rd Year   4   6.98130     5   5th Year   4   6.92211     6   6th Year   4   10.2133     9   9th Year   4   12.36778     10   10th Year   4   3.76856     11   11th Year   4   3.76856     12   12th Year   4   4.12.36778     14   Year   4   4.7842     14   Hyear   4   4.7842     15   Isth Year   4   5.56147     17   T/th Year   4   6.1762     15   Isth Year   4   6.1762     16   Kith Year   4   6.207889				
Sub Total :     18.00304       II     Maintenance of plantations	-			
II   Maintenance of plantations   4   7.69792     2   2nd Year   4   4.53184     3   3rd Year   4   3.71407     4   4th Year   4   6.83180     5   5th Year   4   6.83180     5   5th Year   4   7.32172     6   6th Year   4   8.44738     7   7th Year   4   9.29211     8   8th Year   4   10.22133     9   9th Year   4   10.22133     10   10th Year   4   3.60458     11   11th Year   4   3.60458     12   12th Year   4   3.50589     13   13th Year   4   4.59626     15   15th Year   4   6.17623     16   16th Year   4   6.27938     19   19th Year   4   6.17622     10   Okfgs/cm2 casing pipe, Geological survey   2   3.60000     11   Installation of Solar Pump sets incl. pipe line   2   15.60000     1	1	A Design of the second s		18.00304
1   1st Year   4   7.69792     2   2nd Year   4   4.53184     3   3rd Year   4   4.53184     3   3rd Year   4   4.53184     4   4th Year   4   6.88130     5   5th Year   4   7.32172     6   6th Year   4   8.44738     7   7th Year   4   9.29211     8   8th Year   4   10.2133     9   9th Year   4   10.2133     9   9th Year   4   13.60458     11   11th Year   4   3.79856     13   13th Year   4   3.79856     13   13th Year   4   4.59626     15   15th Year   4   5.56147     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     11   19.21574   13.60000     1		Sub Total :		18.00304
2   2nd Year   4   4.53184     3   3rd Year   4   3.71407     4   4th Year   4   3.71407     4   4th Year   4   6.98130     5   5th Year   4   7.32172     6   6th Year   4   8.44738     7   7th Year   4   9.29211     8   8th Year   4   10.2133     9   9th Year   4   12.36778     10   10th Year   4   3.60458     11   11th Year   4   3.60458     11   11th Year   4   3.60458     11   11th Year   4   3.60458     12   12th Year   4   4.50526     13th Year   4   5.05189     16   16th Year   4   5.05147     17   17th Year   4   6.1762     18   18th Year   4   6.1762     18   18th Year   4   7.4032     19   19th Year   4   8.14255     10		Maintenance of plantations		
3   3rd Year   4   3.71407     4   4th Year   4   6.98130     5   5th Year   4   7.32172     6   6th Year   4   7.32172     7   6th Year   4   9.29211     8   8th Year   4   10.22133     9   9th Year   4   12.36778     10   10th Year   4   3.60458     11   11th Year   4   3.60458     12   12th Year   4   3.60458     13   13th Year   4   4.50526     14   14th Year   4   4.50526     15   15th Year   4   5.6147     17   17th Year   4   6.17628     16   16th Year   4   6.17628     17   17th Year   4   6.17622     10   20th Year   4   8.14255     11   10th Year   4   8.14255     10   6Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     1   0.00001   Sub	-		4	7.69792
4   4th Year   4   6.98130     5   5th Year   4   7.32172     6   6th Year   4   8.44738     7   7th Year   4   9.29211     8   8th Year   4   10.22133     9   9th Year   4   12.36778     10   10th Year   4   13.60458     11   11th Year   4   3.45324     12   12th Year   4   3.45324     13   13th Year   4   4.17842     14   14th Year   4   5.05589     16   16th Year   4   5.05589     16   16th Year   4   6.1762     18   18th Year   4   6.1762     18   18th Year   4   6.7238     19   19th Year   4   7.40232     20   20th Year   4   8.14255     10   OfKgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3 <td></td> <td></td> <td>4</td> <td>4.53184</td>			4	4.53184
5   5th Year   4   7.32172     6   6th Year   4   8.44738     7   7th Year   4   9.29211     8   8th Year   4   10.22133     9   9th Year   4   12.36778     10   10th Year   4   13.60458     11   11th Year   4   3.45324     12   12th Year   4   3.45324     12   12th Year   4   3.45324     14   14th Year   4   3.45324     14   14th Year   4   4.50626     15   15th Year   4   5.05147     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     11   Drilling of Bore wells (incl. 180mm dia PVC OKgs/cm2 casing pipe, Geological survey charges etc)   2   3.60000     1   Installation of Solar Pump sets incl. pipe line   2   15.60000     2   Installation of Solar Pump sets incl. pip			4	3.71407
6   6th Year   1   1/1/2/14     6   6th Year   4   8.44738     7   7th Year   4   9.29211     8   8th Year   4   10.22133     9   9th Year   4   12.36778     10   10th Year   4   3.45324     12   12th Year   4   3.45324     12   12th Year   4   3.45324     12   12th Year   4   3.45324     14   14th Year   4   3.45324     14   14th Year   4   3.45324     15   15th Year   4   5.05589     16   16th Year   4   5.05589     16   16th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     11   Drilling of Bore wells (incl. 180mm dia PVC   0.6Kgs/cm2 casing pipe, Geological survey charges etc.,)   2     2   Installation of Solar Pump sets incl. pipe line   2   15.600		4th Year	4	6.98130
7   7th Year   4   9.29211     8   8th Year   4   10.22133     9   9th Year   4   10.22133     10   10th Year   4   12.36778     10   10th Year   4   13.60458     11   11th Year   4   3.45324     12   12th Year   4   3.45324     13   13th Year   4   4.17842     14   14th Year   4   4.59626     15   15th Year   4   5.56147     17   17th Year   4   6.176238     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC   06Kgs/cm2 casing pipe, Geological survey   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     2   Installation of Solar Pump sets incl. pipe line			4	7.32172
8     8th Year     4     10.22133       9     9th Year     4     12.36778       10     10th Year     4     13.60458       11     11th Year     4     3.45324       12     12th Year     4     3.45324       12     12th Year     4     3.45324       13     13th Year     4     4.79826       14     14th Year     4     4.59626       15     15th Year     4     5.05589       16     16th Year     4     5.05589       16     16th Year     4     5.05589       16     16th Year     4     6.1762       18     18th Year     4     7.4032       20     20th Year     4     7.4032       21     20th Year     4     8.14255       11     0fkgs/cm2 casing pipe, Geological survey charges etc.,)     2     3.60000       2     Installation of Solar Pump sets incl. pipe line     2     15.60000       3     Construction of Watcher Sheds     1			4	8.44738
9   9th Year   4   12.36778     10   10th Year   4   13.60458     11   11th Year   4   3.45324     12   12th Year   4   3.79856     13   13th Year   4   4.79826     14   14th Year   4   4.59626     15   15th Year   4   5.0589     16   16th Year   4   5.0147     17   17th Year   4   6.17623     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     0   Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     4   Sub Total:   28.2000   1     5   46.20   Forest Protection   2     Chain Link mesh & RCC poles   1.73 <td>-</td> <td></td> <td>4</td> <td>9.29211</td>	-		4	9.29211
10   10th Year   4   13.60458     11   11th Year   4   3.60458     12   12th Year   4   3.45324     12   12th Year   4   3.79856     13   13th Year   4   4.79826     14   14th Year   4   4.59626     15   15th Year   4   5.56147     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     2   Installation of Gate (Entry & Exit - 2 Nos)   5   46.20     4   Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.80000     Creation of Inspection Paths/ Pathways   1.73   73.26550 <td></td> <td></td> <td>4</td> <td>10.22133</td>			4	10.22133
11   11th Year   4   3.45324     12   12th Year   4   3.79856     13   13th Year   4   4.7842     14   14th Year   4   4.59626     15   15th Year   4   4.59626     15   15th Year   4   5.0589     16   16th Year   4   5.0589     16   16th Year   4   6.11762     18   18th Year   4   6.12938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC   0   0     06Kgs/cm2 casing pipe, Geological survey charges etc,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     Construction of Gate (Entry & Exit - 2 Nos)	-		4	12.36778
12   12th Year   4   3.79856     13   13th Year   4   4.17842     14   14th Year   4   4.59626     15   15th Year   4   5.05589     16   16th Year   4   5.05589     16   16th Year   4   5.05589     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC   06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     1   06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   15.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     6   Forest Protection   1.73   73.26550     1   Sub Total:   120.00   146.20			4	13.60458
13   13th Year   4   4.17842     14   14th Year   4   4.17842     14   14th Year   4   4.59626     15   15th Year   4   5.05589     16   16th Year   4   5.05189     16   16th Year   4   5.6147     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     6   Forest Protection   2   2.00   4.80000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     6   Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.			4	3.45324
14   14th Year   4   4.59626     15   15th Year   4   5.05589     16   16th Year   4   5.56147     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   6.72938     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey 2   3.60000     charges etc.,)   2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000   9.00000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Gate (Entry & Exit - 2 Nos)   5   46.20     4   Gate and the sheds   1.73   73.26550     Construction of Inspection Paths/ Pathways   1.73   8.30400			4	3.79856
15   15th Year   4   5.05589     16   16th Year   4   5.05589     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     4   SMC works (Mini PTS, CDs & RFDs)   5   46.20     Forest Protection     Chain Link mesh & RCC poles   1.73   73.26550     Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.80000     Creation of Inspection Paths/ Pathways   1.73   8.30400     Construction of Fire Watch Tower   1.00   11.00000     Purchase of Tractor with Tanker   1.00   19.50000     Publicity & Awareness   <			4	4.17842
16   16th Year   4   5.56147     17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     Forest Protection     Chain Link mesh & RCC poles   1.73   73.26550     Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.80000     Creation of Inspection Paths/ Pathways   1.73   8.30400     Construction of Fire Watch Tower   1.00   11.00000     Purchase of Tractor with Tanker   1.00   19.50000     Publicity & Awareness   0.00   5.00000     Sub Total:   121.86950   121.86950     Total - NFL (9.66 Ha)   353.488			4	4.59626
17   17th Year   4   6.11762     18   18th Year   4   6.72938     19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)   2   3.60000     2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     Forest Protection     Chain Link mesh & RCC poles   1.73   73.26550     Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.80000     Creation of Inspection Paths/ Pathways   1.73   8.30400     Construction of Fire Watch Tower   1.00   11.00000     Purchase of Tractor with Tanker   1.00   19.50000     Publicity & Awareness   0.00   5.00000     Sub Total:   121.86950   121.86950     Total - NFL (9.66 Ha)   353.48828			4	5.05589
18     18th Year     4     6.72938       19     19th Year     4     7.40232       20     20th Year     4     8.14255       1     0ft Year     4     8.14255       1     0ft Year     1     139.21574       1     0ft Year     2       2     Installation of Solar Pump sets incl. pipe line     2       3     Construction of Watcher Sheds     1     9.00000       1     SMC works (Mini PTS, CDs & RFDs)     5     46.20       1     Sub Total:     173     73.26550       1     Construction of Gate (Entry & Exit - 2 Nos)     2.00     4.80000 </td <td></td> <td></td> <td>4</td> <td>5.56147</td>			4	5.56147
19   19th Year   4   7.40232     20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey 2   3.60000     charges etc.,)   2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     1   Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.80000     Creation of Inspection Paths/ Pathways   1.73   8.30400     Construction of Fire Watch Tower   1.00   11.00000     Purchase of Tractor with Tanker   1.00   19.50000     Publicity & Awareness   0.00   5.00000     Publicity & Awareness   0.00   5.00000     Admin cost @ 10 %   353.48828			4	6.11762
20   20th Year   4   8.14255     Sub Total:   139.21574     Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey 2   3.60000     charges etc.,)   2   Installation of Solar Pump sets incl. pipe line   2   15.60000     3   Construction of Watcher Sheds   1   9.00000     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     1   SMC works (Mini PTS, CDs & RFDs)   5   46.20     Forest Protection   73.26550   Construction of Gate (Entry & Exit - 2 Nos)   2.00   4.80000     Creation of Inspection Paths/ Pathways   1.73   8.30400   1.00000   11.00000     Purchase of Tractor with Tanker   1.00   19.50000   11.21.86950     2   Sub Total:   121.86950   11.21.86950     3   Construction of Fire Watch Tower   1.00   19.50000			4	6.72938
Sub Total:11Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)23.60000Installation of Solar Pump sets incl. pipe line215.60000Construction of Watcher Sheds19.00000SMC works (Mini PTS, CDs & RFDs)546.20Forest Protection146.20Construction of Gate (Entry & Exit - 2 Nos)2.004.80000Creation of Inspection Paths/ Pathways1.738.30400Construction of Fire Watch Tower1.0011.00000Purchase of Tractor with Tanker1.0019.50000Publicity & Awareness0.005.00000Total - NFL (9.66 Ha)353.48828Admin cost @ 10 %35.34883			4	7.40232
Drilling of Bore wells (incl. 180mm dia PVC 06Kgs/cm2 casing pipe, Geological survey charges etc.,)23.600001Installation of Solar Pump sets incl. pipe line215.600003Construction of Watcher Sheds19.000003Construction of Watcher Sheds19.000001SMC works (Mini PTS, CDs & RFDs)546.201SMC works (Mini PTS, CDs & RFDs)546.206Construction of Gate (Entry & Exit - 2 Nos)2.004.800007Creation of Inspection Paths/ Pathways1.738.304000Construction of Fire Watch Tower1.0011.00000Purchase of Tractor with Tanker1.0019.500009Ublicity & Awareness0.005.000001Total - NFL (9.66 Ha)353.48828Admin cost @ 10 %353.34883	20	20th Year	4	8.14255
106Kgs/cm2 casing pipe, Geological survey charges etc.,)23.600002Installation of Solar Pump sets incl. pipe line215.600003Construction of Watcher Sheds19.000003Construction of Watcher Sheds19.000001SMC works (Mini PTS, CDs & RFDs)546.201Sub Total:46.202Forest Protection12Chain Link mesh & RCC poles1.733Construction of Gate (Entry & Exit - 2 Nos)2.004.80000Creation of Inspection Paths/ Pathways1.7338.3040011.000002Purchase of Tractor with Tanker1.004121.86950353.448823Admin cost @ 10 %35.34883				139.21574
3     Construction of Watcher Sheds     1     9.00000       1     Sub Total:     28.2000       1     SMC works (Mini PTS, CDs & RFDs)     5     46.20       1     Sub Total:     46.20       1     Sub Total:     46.20       1     Forest Protection     1       1     Chain Link mesh & RCC poles     1.73       1     Construction of Gate (Entry & Exit - 2 Nos)     2.00       1     Construction of Fire Watch Tower     1.00       1     Construction of Fire Watch Tower     1.00       1     Publicity & Awareness     0.00       1     Sub Total:     121.86950       1     Total - NFL (9.66 Ha)     353.48828	1	06Kgs/cm2 casing pipe, Geological survey	2	3.60000
Sub Total:     28.2000       1     SMC works (Mini PTS, CDs & RFDs)     5     46.20       Sub Total:     46.20       Forest Protection     46.20       Chain Link mesh & RCC poles     1.73     73.26550       Construction of Gate (Entry & Exit - 2 Nos)     2.00     4.80000       Creation of Inspection Paths/ Pathways     1.73     8.30400       Construction of Fire Watch Tower     1.00     11.00000       Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Total - NFL (9.66 Ha)     353.48828       Admin cost @ 10 %     35.34883	2	Installation of Solar Pump sets incl. pipe line	2	15.60000
1     SMC works (Mini PTS, CDs & RFDs)     5     46.20       Sub Total:     46.20       Forest Protection	3	Construction of Watcher Sheds	1	9.00000
1     SMC works (Mini PTS, CDs & RFDs)     5     46.20       Sub Total:     46.20       Forest Protection		Sub Total:		28.2000
Sub Total:     46.20       Forest Protection	1		5	
Forest Protection     1.00       Chain Link mesh & RCC poles     1.73     73.26550       Construction of Gate (Entry & Exit - 2 Nos)     2.00     4.80000       Creation of Inspection Paths/ Pathways     1.73     8.30400       Construction of Fire Watch Tower     1.00     11.00000       Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Admin cost @ 10 %     353.48828		Sub Total:		
Construction of Gate (Entry & Exit - 2 Nos)     2.00     4.80000       Creation of Inspection Paths/ Pathways     1.73     8.30400       Construction of Fire Watch Tower     1.00     11.00000       Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Admin cost @ 10 %     353.48828				
Construction of Gate (Entry & Exit - 2 Nos)     2.00     4.80000       Creation of Inspection Paths/ Pathways     1.73     8.30400       Construction of Fire Watch Tower     1.00     11.00000       Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Admin cost @ 10 %     353.48828		Chain Link mesh & RCC poles	1.73	73.26550
Creation of Inspection Paths/ Pathways     1.73     8.30400       Construction of Fire Watch Tower     1.00     11.00000       Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Admin cost @ 10 %     353.4883				
Construction of Fire Watch Tower     1.00     11.00000       Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Admin cost @ 10 %     353.48828		Creation of Inspection Paths/ Pathways		
Purchase of Tractor with Tanker     1.00     19.50000       Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Admin cost @ 10%     353.48828				
Publicity & Awareness     0.00     5.00000       Sub Total:     121.86950       Total - NFL (9.66 Ha)     353.48828       Admin cost @ 10 %     35.34883				
Sub Total:     121.86950       Total - NFL (9.66 Ha)     353.48828       Admin cost @ 10 %     35.34883				
Total - NFL (9.66 Ha)     353.48828       Admin cost @ 10 %     35.34883				
Admin cost @ 10 % 35.34883				
GF 701-11				The second s
		Gr.Total:		388.83711

# D. <u>Project period</u>

It is proposed to implement the scheme from 2023-24 to 2044-45 for a period of (22) years.

# E. <u>Cost structure</u>

Basic rates proposed as per FSR 2022-23 and 10% price escalation is proposed every year on the basic rate of FSR 2022-23. The details of year-wise physical and financial target are enclosed in Annexure No. I. Unit cost of

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different planting techniques and plantation operations are shown in separate sheets and are enclosed.

F. <u>Administrative cost:</u> 10% of the CA scheme of NFL i.e., 35.34883 Lakhs is proposed for administration expenses.

# I. Annexures:

Annexure I	Year wise Estimated cost Compensatory Afforestation
Annexure II	Unit cost Data sheets

Further, it is mentioned that in case the selected locations and the areas are unavailable for taking up planting anticipating the delay of approval of the proposal, suitable degraded areas will be selected, planting will be taken up and accordingly the deviation, in any in implementing the scheme will be borne by the User Agency in the jurisdiction of Nagarjunasagar (WL) Division. Similarly, it is also mentioned that the User Agency will be remitting the equal amount into CAMPA Account, in case the degraded forest lands were taken up for re-afforestation with any funding agency since Nagarjunasagar (WL) Division has been taking up re-afforestation in the retrieved areas of forest lands, where encroachment problem is severe. To curb the encroachment problem and re-afforestation the gap areas this modification is proposed.

District Officer. Nalgonda.