

# NILWAI PROJECT

Nilwai (V), Vemanapalli (M), Mancherla Dist

## INDEX

|                 |   |            |
|-----------------|---|------------|
| Bund line       | 1 | Orange     |
| Weir            | 2 | Blue       |
| Surplus coarse  | 3 | Light Blue |
| Submergence     | 4 | Dark Blue  |
| Canals          | 5 | Yellow     |
| Ayacut          | 6 | Green      |
| Forest Boundary | 7 | Black      |

## SALIENT FEATURES

LOCATION TOPOSHEET NO : 56M/18

Longitude 77-45-30' Latitude 17-05-04'

### HYDROLOGY OF RESERVOIR

|                                          |                |
|------------------------------------------|----------------|
| i) Gross storage capacity @ FRL + 124.00 | : 25,941 Mcum. |
| ii) Storage capacity @ MDDL + 120.500    | : 5,84 Mcum.   |
| iii) Live Storage                        | : 18,941 Mcum. |
| iv) Siting below dead storage            | : 3,189 Mcum.  |
| v) Area of submergence at FRL + 124.00   | : 854.00 Ha.   |
| vi) Total Forest Area under project      | : 155.5 Ha.    |
| vii) F.R.L.                              | : +124.00 M    |
| viii) M.W.L.                             | : +125.80 M    |
| ix) T.B.L.                               | : +128.00 M    |

### EARTH DAM

|                               |             |
|-------------------------------|-------------|
| i) Top width of Bund          | : 8M        |
| ii) Deepest bed level at site | : +114.00 M |
| iii) Length of bund           | : 4.50 Km   |

### H.C. WEIR

|                                        |                |
|----------------------------------------|----------------|
| i) Type                                | : Ogee Weir    |
| ii) Crest level                        | : +124.00      |
| iii) Crest length of discharge section | : 340 M        |
| iv) Discharging capacity provided      | : 1482 Cumecs. |

### IRRIGATION SLUICE

R.F. SLUICE & L.F. SLUICE

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| i) Sill level             | : +119.500                                         |
| ii) Capacity              | : 3,329 Cumecs.(L.F)<br>2,949 Cumecs.(R.F)         |
| iii) No. and size of vent | : 27 x 12 M (L.F)<br>20 x 12 M (R.F)<br>(One vent) |

### CANAL SYSTEM

R.F. Canal & L.F. Canal

|                    |                                            |
|--------------------|--------------------------------------------|
| i) Length of canal | : 15(L.F) 15(R.F)                          |
| ii) Discharge      | : 3,329 Cumecs.(L.F)<br>2,949 Cumecs.(R.F) |

### VILLAGES SUBMERGED

|            |  |
|------------|--|
| 3 No's     |  |
| Gerrugudem |  |
| Kallipally |  |

for the

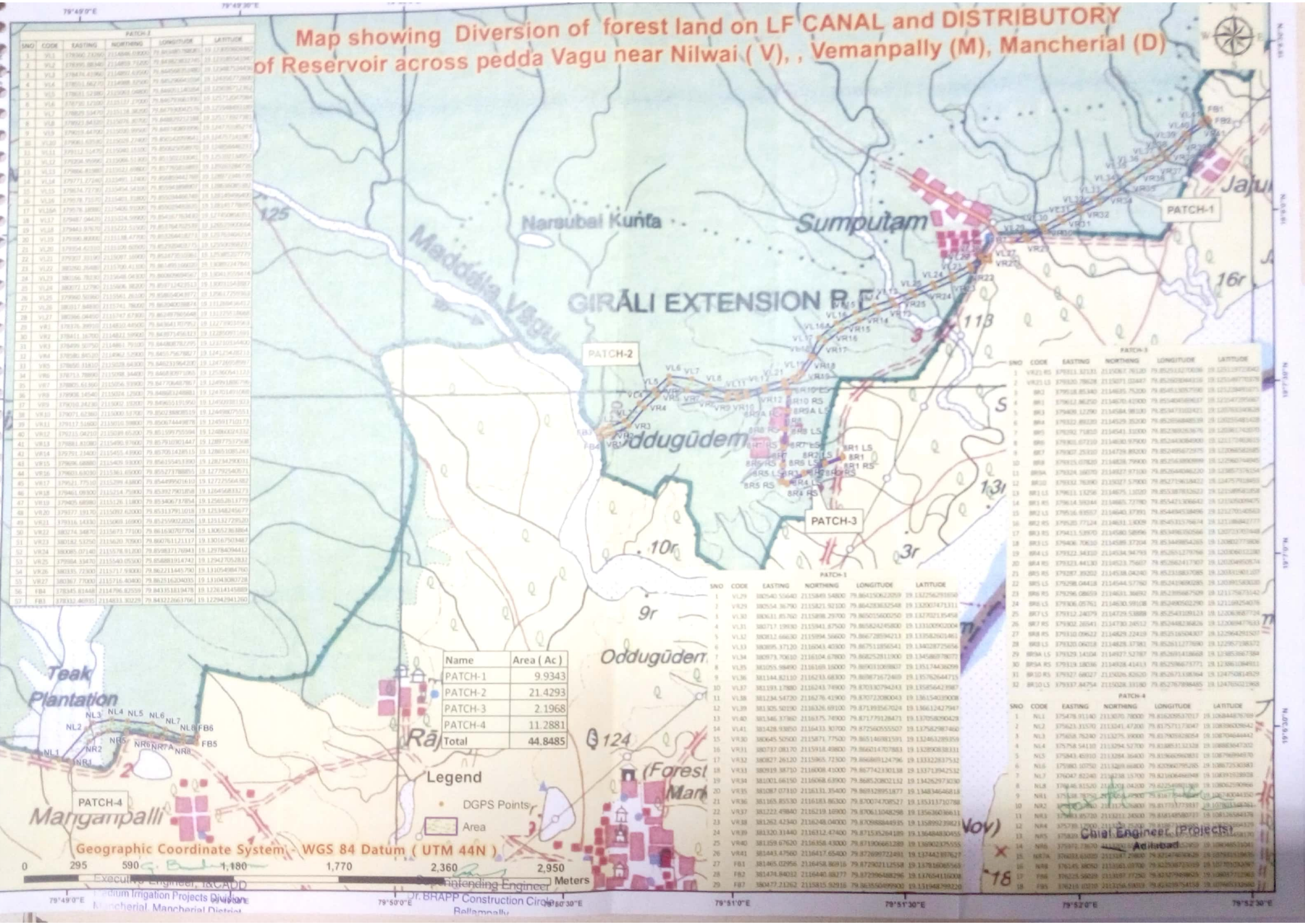
Chief Engineer, (Projects)  
Adilabad.

Executive Engineer, I&CADD  
Medium Irrigation Projects Division  
Mancherla, Mancherla District.

Superintending Engineer  
Dr. BRAPP Construction Circle,  
Bellampally



# Map showing Diversion of forest land on LF CANAL and DISTRIBUTORY of Reservoir across pedda Vagu near Nilwai ( V ), Vemanpally (M), Mancherial (D)



| Name         | Area (Ac)      |
|--------------|----------------|
| PATCH-1      | 9.9343         |
| PATCH-2      | 21.4293        |
| PATCH-3      | 2.1968         |
| PATCH-4      | 11.2881        |
| <b>Total</b> | <b>44.8485</b> |

**Legend**

- DGPS Points
- Area

**Geographic Coordinate System - WGS 84 Datum ( UTM 44N )**

**Scale:** 0 295 590 1,180 1,770 2,360 2,950 Meters

**Project Information:**  
 Executing Engineer, I&CADD  
 Medium Irrigation Projects Division  
 Mancherial, Mancherial District  
 Dr. BRAPP Construction Circle  
 Bellamally

| SNO | CODE    | EASTING      | NORTHING      | LONGITUDE        | LATITUDE         |
|-----|---------|--------------|---------------|------------------|------------------|
| 1   | VR21 RS | 978111.8213  | 1130067.76120 | 79.852112270006  | 18.122107702840  |
| 2   | VR21 LS | 978130.78628 | 1130071.02447 | 79.852000044318  | 18.122107702879  |
| 3   | BR1     | 978118.85340 | 1134605.75200 | 79.854413057106  | 18.1221224950275 |
| 4   | BR1     | 978112.86250 | 1134670.42000 | 79.854404690807  | 18.1221472395607 |
| 5   | BR1     | 978408.12290 | 1134684.98100 | 79.854731032421  | 18.1221077040628 |
| 6   | BR1     | 978322.88030 | 1134629.35200 | 79.852368848039  | 18.1221077040108 |
| 7   | BR1     | 978392.71820 | 1134641.32000 | 79.852368853676  | 18.1221077040108 |
| 8   | BR1     | 978301.07230 | 1134680.97900 | 79.852440804000  | 18.1221373684015 |
| 9   | BR1     | 978307.25230 | 1134729.80200 | 79.8524956707975 | 18.1221077040108 |
| 10  | BR1     | 978415.07820 | 1134838.79900 | 79.852468860000  | 18.1221077040108 |
| 11  | BR1     | 978424.18070 | 1134827.97100 | 79.852464466200  | 18.1221077040108 |
| 12  | BR1     | 978432.78390 | 1134827.57900 | 79.8524719618422 | 18.1221077040108 |
| 13  | BR1 LS  | 978411.12396 | 1134875.11000 | 79.852467106622  | 18.1221077040108 |
| 14  | BR1 LS  | 978414.59344 | 1134885.77700 | 79.852471306647  | 18.1221077040108 |
| 15  | BR1 LS  | 978416.93557 | 1134840.47900 | 79.852449453896  | 18.1221077040108 |
| 16  | BR1 RS  | 978420.77124 | 1134831.13009 | 79.852433137464  | 18.1221077040108 |
| 17  | BR1 RS  | 978431.52870 | 1134580.58996 | 79.852449453896  | 18.1221077040108 |
| 18  | BR1 RS  | 978406.70810 | 1134585.37204 | 79.852449453896  | 18.1221077040108 |
| 19  | BR1 RS  | 978412.74310 | 1134584.94795 | 79.852449453896  | 18.1221077040108 |
| 20  | BR1 RS  | 978423.44120 | 1134623.75607 | 79.8524624171007 | 18.1221077040108 |
| 21  | BR1 RS  | 978287.89202 | 1134538.04240 | 79.852310837988  | 18.1221077040108 |
| 22  | BR1 RS  | 978298.08418 | 1134544.57700 | 79.852419680200  | 18.1221077040108 |
| 23  | BR1 RS  | 978296.06030 | 1134631.36992 | 79.852398679249  | 18.1221077040108 |
| 24  | BR1 RS  | 978306.05761 | 1134630.58800 | 79.852400502290  | 18.1221077040108 |
| 25  | BR1 RS  | 978312.24079 | 1134729.59100 | 79.852431081213  | 18.1221077040108 |
| 26  | BR1 RS  | 978302.29641 | 1134730.24512 | 79.852448236826  | 18.1221077040108 |
| 27  | BR1 RS  | 978310.09522 | 1134629.12419 | 79.852310837988  | 18.1221077040108 |
| 28  | BR1 RS  | 978320.06038 | 1134628.37881 | 79.852411277690  | 18.1221077040108 |
| 29  | BR1 RS  | 978329.14034 | 1134627.52787 | 79.852419680200  | 18.1221077040108 |
| 30  | BR1 RS  | 978319.12831 | 1134628.41413 | 79.852400502290  | 18.1221077040108 |
| 31  | BR1 RS  | 978327.68227 | 1134626.82620 | 79.852431081213  | 18.1221077040108 |
| 32  | BR1 RS  | 978337.84754 | 1134628.33190 | 79.852470894485  | 18.1221077040108 |

| SNO | CODE | EASTING      | NORTHING      | LONGITUDE        | LATITUDE        |
|-----|------|--------------|---------------|------------------|-----------------|
| 1   | NL1  | 975478.91140 | 1131070.78000 | 79.8326208537017 | 18.108448767609 |
| 2   | NL2  | 975623.31570 | 1131041.47300 | 79.8317571173047 | 18.108448767609 |
| 3   | NL3  | 975618.76240 | 1131075.90000 | 79.8317000120554 | 18.108448767609 |
| 4   | NL4  | 975758.54110 | 1131094.57700 | 79.8318851323238 | 18.108448767609 |
| 5   | NL5  | 975843.40310 | 1131128.36400 | 79.8319669680813 | 18.108448767609 |
| 6   | NL6  | 975983.10790 | 1131209.68800 | 79.8320947191385 | 18.108448767609 |
| 7   | NL7  | 976047.82240 | 1131238.15700 | 79.8321606469498 | 18.108448767609 |
| 8   | NL8  | 976140.81530 | 1131269.04200 | 79.8322490137000 | 18.108448767609 |
| 9   | NL9  | 976238.79750 | 1131300.19900 | 79.8323417733887 | 18.108448767609 |
| 10  | NL10 | 976341.81570 | 1131331.26800 | 79.8324417733887 | 18.108448767609 |
| 11  | NL11 | 976444.83390 | 1131362.33700 | 79.8325417733887 | 18.108448767609 |
| 12  | NL12 | 976547.85210 | 1131393.40600 | 79.8326417733887 | 18.108448767609 |
| 13  | NL13 | 976650.87030 | 1131424.47500 | 79.8327417733887 | 18.108448767609 |
| 14  | NL14 | 976753.88850 | 1131455.54400 | 79.8328417733887 | 18.108448767609 |
| 15  | NL15 | 976856.90670 | 1131486.61300 | 79.8329417733887 | 18.108448767609 |
| 16  | NL16 | 976959.92490 | 1131517.68200 | 79.8330417733887 | 18.108448767609 |
| 17  | NL17 | 977062.94310 | 1131548.75100 | 79.8331417733887 | 18.108448767609 |
| 18  | NL18 | 977165.96130 | 1131579.82000 | 79.8332417733887 | 18.108448767609 |
| 19  | NL19 | 977268.97950 | 1131610.88900 | 79.8333417733887 | 18.108448767609 |



