

## AREA CALCULATION SHEET

**PROPOSAL FOR FOREST CLEARANCE OF ADDITIONAL FOREST LAND REQUIRED FOR THE CONSTRUCTION OF 2-LANING OF JORAM-KOLORIANG ROAD SECTIONS FROM CH 122+353 TO CH 138+390 (KM 138.000 TO 158.000 OF EXISTING JORAM-KOLORIANG ROAD) FOR EXECUTION IN EPC MODE AT KURUNG KUMEY DISTRICT IN THE STATE OF ARUNACHAL PRADESH UNDER "SARDP-NE"**

### AREA OF LAND INVOLVED

1. Total Area Already Approved for Construction of Joram-Kolairng Road from Km 138.00-Km-158.00= **25.00 Ha.**
2. Additonal Forest Land Required for the Project Strech = **18.270 Ha**
3. Out of **18.270 Ha** Forest Land **13.870 Ha** is for Widening & Realignment and the Rest **4.4 Ha** for Muck Disposal
4. A brief Area Calculation Sheet is given in the following Table. The detailed chainge wise area breakup of land reqired is shown in **Annexure-I** as follows. It includes Forest Land, Revenue Land/ Private Land and area for Muck Disposal.

| Location in Km                                                                   |        | Length<br>(Mtrs) | Width required<br>to be acquired<br>(Mtrs) | Area<br>(Hectare) | Remarks                                                                             |
|----------------------------------------------------------------------------------|--------|------------------|--------------------------------------------|-------------------|-------------------------------------------------------------------------------------|
| From                                                                             | To     |                  |                                            |                   |                                                                                     |
| 138.00                                                                           | 158.00 | 20000            | 19.480                                     | 38.87             | Total forest land required for road stretch                                         |
| Muck Disposal Area in Ha.<br>(1.331+1.111+0.953+1.251+1.450)                     |        |                  |                                            | 4.400             | Muck Disposal Area in Forest Land                                                   |
| Total Forest area required                                                       |        |                  |                                            | 43.270            |                                                                                     |
| Already approved Stage I Forest Clearance                                        |        |                  |                                            | (-) 25.00         | Stage II forest clearance vide letter no. 3-AN C 088/2011-SHI/1286-88 dated 8/08/14 |
| Proposed Additional Forest Land to be Diverted including Muck Disposal Area (Ha) |        |                  |                                            | 18.27             |                                                                                     |

- 0.06 Ha Non-forest land

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**Annexure-I****CHAINAGE WISE AREA CALCULATION SHEET**

| <b>WIDTH REQUIRED TO BE ACQUIRED</b>                                                                |                          |                           |                           |                        |
|-----------------------------------------------------------------------------------------------------|--------------------------|---------------------------|---------------------------|------------------------|
| <b>CH 138.000 TO CH 154.036 (KM 138.000 TO 158.000)</b>                                             |                          |                           |                           |                        |
| <b>Existing Chainage</b>                                                                            | <b>Proposed Chainage</b> | <b>LA Area LHS (Hec.)</b> | <b>LA Area RHS (Hec.)</b> | <b>Total Area Hec.</b> |
| 138+000 to 139+000                                                                                  | 122+353 to 123+250       | 15245.839                 | 0001.5                    | 2.25                   |
| 139+000 to 140+000                                                                                  | 123+250 to 124+156       | 15416.460                 | 0001.5                    | 2.49                   |
| 140+000 to 141+000                                                                                  | 124+156 to 125+102       | 20626.331                 | 0002.1                    | 2.96                   |
| 141+000 to 142+000                                                                                  | 125+102 to 125+997       | 15092.288                 | 0001.5                    | 2.24                   |
| 142+000 to 143+000                                                                                  | 125+997 to 126+974       | 18874.645                 | 0001.9                    | 2.49                   |
| 143+000 to 144+000                                                                                  | 126+974 to 127+757       | 14447.597                 | 0001.4                    | 2.40                   |
| 144+000 to 145+000                                                                                  | 127+757 to 128+735       | 13729.402                 | 0001.4                    | 2.20                   |
| 145+000 to 146+000                                                                                  | 128+735 to 129+505       | 8301.881                  | 0000.8                    | 2.08                   |
| 146+000 to 147+000                                                                                  | 129+505 to 130+316       | 8093.029                  | 0000.8                    | 2.17                   |
| 147+000 to 148+000                                                                                  | 130+316 to 131+180       | 13903.551                 | 0001.4                    | 3.19                   |
| 148+000 to 149+000                                                                                  | 131+180 to 131+902       | 9442.878                  | 0000.9                    | 2.20                   |
| 149+000 to 150+000                                                                                  | 131+902 to 132+812       | 9554.735                  | 0001.0                    | 2.56                   |
| 150+000 to 151+000                                                                                  | 132+812 to 133+725       | 8383.997                  | 0000.8                    | 2.32                   |
| 151+000 to 152+000                                                                                  | 133+725 to 134+607       | 8211.333                  | 0000.8                    | 2.27                   |
| 152+000 to 153+000                                                                                  | 134+607 to 135+525       | 9520.143                  | 0001.0                    | 2.58                   |
| 153+000 to 154+000                                                                                  | 135+525 to 136+316       | 7968.272                  | 0000.8                    | 1.97                   |
| 154+000 to 155+000                                                                                  | 136+316 to 137+129       | 13520.621                 | 0001.4                    | 3.30                   |
| 155+000 to 156+000                                                                                  | 137+129 to 137+798       | 6040.892                  | 0000.6                    | 1.59                   |
| 156+000 to 158+000                                                                                  | 137+798 to 138+390       | 0104.368                  | 0000.0                    | 0.06                   |
| <b>Total (A)</b>                                                                                    |                          |                           |                           | <b>43.33</b>           |
| <b>Area Already Approved (B)</b>                                                                    |                          |                           |                           | <b>25.00</b>           |
| <b>Proposed Additional Land to be Diverted including Muck Disposal Area (Ha) (A-B) (Appendix I)</b> |                          |                           |                           | <b>18.33</b>           |
| <b>Non-forest land (Ha)</b>                                                                         |                          |                           |                           | <b>0.06</b>            |
| <b>Proposed Additional Forest Land to be Diverted including Muck Disposal Area (Ha)</b>             |                          |                           |                           | <b>18.27</b>           |

\*Existing ROW considered 7.32 m



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## Proposed Additional Forest Land to be Diverted

Appendix I

| Existing Chainage                                                  |         | Design Chainage |         | Area (LHS) Ha | Area (RHS) Ha | Total Area (Ha) |
|--------------------------------------------------------------------|---------|-----------------|---------|---------------|---------------|-----------------|
| 138+600                                                            | 139+000 | 122+950         | 123+400 | 0.765         | 0.364         | 1.129           |
| 139+400                                                            | 139+450 | 123+600         | 123+700 | 0.180         | 0.165         | 0.345           |
| 141+630                                                            | 142+000 | 125+700         | 126+000 | 0.840         | 0.495         | 1.336           |
| 142+500                                                            | 142+750 | 126+500         | 126+720 | 0.425         | 0.637         | 1.062           |
| 143+150                                                            | 143+750 | 127+100         | 127+520 | 0.901         | 0.960         | 1.861           |
| 145+275                                                            | 145+800 | 129+100         | 129+360 | 0.754         | 0.422         | 1.176           |
| 146+600                                                            | 147+200 | 130+100         | 130+450 | 0.563         | 0.532         | 1.096           |
| 148+750                                                            | 149+780 | 131+800         | 132+600 | 1.240         | 1.489         | 2.729           |
| 150+200                                                            | 150+550 | 133+050         | 133+320 | 0.445         | 0.492         | 0.938           |
| 151+850                                                            | 152+150 | 134+500         | 134+730 | 0.308         | 0.409         | 0.716           |
| 153+450                                                            | 154+300 | 136+000         | 136+550 | 0.554         | 0.929         | 1.483           |
| <b>Additional Forest Land to Be Diverted (HA) for RoW</b>          |         |                 |         |               |               | <b>13.870</b>   |
| <b>Additional Forest Land to Be Diverted (HA) for muck dumping</b> |         |                 |         |               |               | <b>4.40</b>     |
| <b>Total Additional Forest Land to Be Diverted (HA)</b>            |         |                 |         |               |               | <b>18.27</b>    |

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