



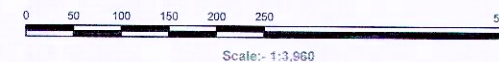
85°26'0"E

85°26'15"E

85°26'30"E

Plate-1

**Map Showing DGPS Surveyed Co-ordinates  
and Boundary of Forest Area Proposed to be  
Diverted for JSPL Slurry Pipeline in  
Thakurani RF, Tahasil-Badbil, District-Keonjhar,  
Keonjhar Forest Division, Odisha**



**LEGEND**

● RF Pillar      RF Boundary      — Slurry Pipeline

**PILLAR CO-ORDINATES OF RF BOUNDARY**

| Surveyed Id | Pillar ID | UTM CO-ORDINATES |             | GEOGRAPHIC CO-ORDINATES |                  |
|-------------|-----------|------------------|-------------|-------------------------|------------------|
|             |           | Easting          | Northing    | Longitude               | Latitude         |
| rf 1a       | 1         | 339135.241       | 2438469.900 | 85°26'28.35701"         | 22°02'36.81717"  |
| rf 2a       | 2         | 339055.437       | 2438441.899 | 85°26'25.58385"         | 22°02'35.88030"  |
| rf 3a       | 3         | 339010.167       | 2438431.236 | 85°26'24.00891"         | 22°02'35.51856"  |
| rf 4a       | 4         | 338991.061       | 2438433.001 | 85°26'23.34196"         | 22°02'35.56958"  |
| rf 5a       | 5         | 338944.541       | 2438440.603 | 85°26'21.71690"         | 22°02'35.80130"  |
| rf 6a       | 6         | 338862.685       | 2438472.169 | 85°26'18.85097"         | 22°02'36.80036"  |
| rf 7        | 7         | 338846.605       | 2438479.785 | 85°26'18.28750"         | 22°02'37.04261"  |
| rf 8        | 8         | 338831.623       | 2438478.500 | 85°26'17.75545"         | 22°02'36.99586"  |
| rf 9        | 9         | 338798.023       | 2438463.446 | 85°26'16.59906"         | 22°02'36.49535"  |
| rf 10       | 10        | 338760.561       | 2438437.488 | 85°26'15.30187"         | 22°02'35.63883"  |
| rf 11a      | 11        | 338636.164       | 2438362.052 | 85°26'10.99056"         | 22°02'33.14482"  |
| rf 12a      | 12        | 338585.190       | 2438328.092 | 85°26'09.22503"         | 22°02'32.02374"  |
| rf 13a      | 13        | 338513.893       | 2438295.992 | 85°26'06.75011"         | 22°02'30.95633"  |
| rf 14a      | 14        | 338462.700       | 2438270.845 | 85°26'04.97378"         | 22°02'30.12169"  |
| rf 15a      | 15        | 338419.684       | 2438256.321 | 85°26'03.47885"         | 22°02'29.63513"  |
| rf 16a      | 16        | 338390.526       | 2438250.480 | 85°26'02.46409"         | 22°02'29.43550"  |
| rf 17a      | 17        | 338383.182       | 2438250.200 | 85°26'02.20810"         | 22°02'29.42394"  |
|             | 18        | 338383.228       | 2438249.001 | 85°26'2.2101"           | 22°02'29.384952" |
|             | 19        | 338390.667       | 2438249.284 | 85°26'2.469444"         | 22°02'29.396652" |
|             | 20        | 338419.995       | 2438255.159 | 85°26'3.49008"          | 22°02'29.59746"  |
|             | 21        | 338463.158       | 2438269.733 | 85°26'4.990164"         | 22°02'30.085692" |
|             | 22        | 338514.404       | 2438294.906 | 85°26'6.768312"         | 22°02'30.92118"  |
|             | 23        | 338586.773       | 2438327.079 | 85°26'9.245724"         | 22°02'31.88965"  |
|             | 24        | 338636.808       | 2438361.039 | 85°26'11.01336"         | 22°02'33.112104" |
|             | 25        | 338761.215       | 2438436.481 | 85°26'15.325008"        | 22°02'35.408292" |
|             | 26        | 338798.615       | 2438462.400 | 85°26'16.620072"        | 22°02'36.4614"   |
|             | 27        | 338831.928       | 2438477.322 | 85°26'17.7765"          | 22°02'36.957624" |
|             | 28        | 338846.385       | 2438478.562 | 85°26'18.280212"        | 22°02'37.002732" |
|             | 29        | 338862.212       | 2438471.066 | 85°26'18.834828"        | 22°02'36.764304" |
|             | 30        | 338944.225       | 2438439.439 | 85°26'21.706296"        | 22°02'35.763324" |
|             | 31        | 338990.909       | 2438431.809 | 85°26'23.33706"         | 22°02'35.5306"   |
|             | 32        | 339010.252       | 2438430.023 | 85°26'24.012276"        | 22°02'35.47914"  |
|             | 33        | 339055.774       | 2438440.746 | 85°26'25.595988"        | 22°02'35.842884" |
|             | 34        | 339135.639       | 2438468.768 | 85°26'28.371264"        | 22°02'36.780468" |

**Area Statement**

| RF Area Statement |                    |               |
|-------------------|--------------------|---------------|
| RF Name           | DGPS Surveyed Area |               |
|                   | in Acre            | in Hectare    |
| Thakurani RF      | 0.245              | 0.9998        |
| <b>Total Area</b> | <b>0.245</b>       | <b>0.9998</b> |



*Barbil Range*

Spatial Planning & Analysis Research Centre Pvt. Ltd.  
E/11, INFOCITY, Chandaka Industrial Estate  
Chandrasekharpur, Bhubaneswar-751024 (INDIA)  
Ph: 0674-6629 301, 302, 303, Fax: 0674-6629 304

*Forest Range Officer  
Barbil Range*

**DGPS Survey Conducted and Map Prepared by :-  
Spatial Planning And Analysis Research Centre Pvt. Ltd.,  
E/11, Infocity, Chandaka Industrial Estate,  
Bhubaneswar - 751024.**

**COUNTERSIGNED**  
Divisional Forest Officer,  
Keonjhar Division

85°26'0"E

85°26'15"E

85°26'30"E

22°2'30"N

22°2'45"N

22°2'30"N

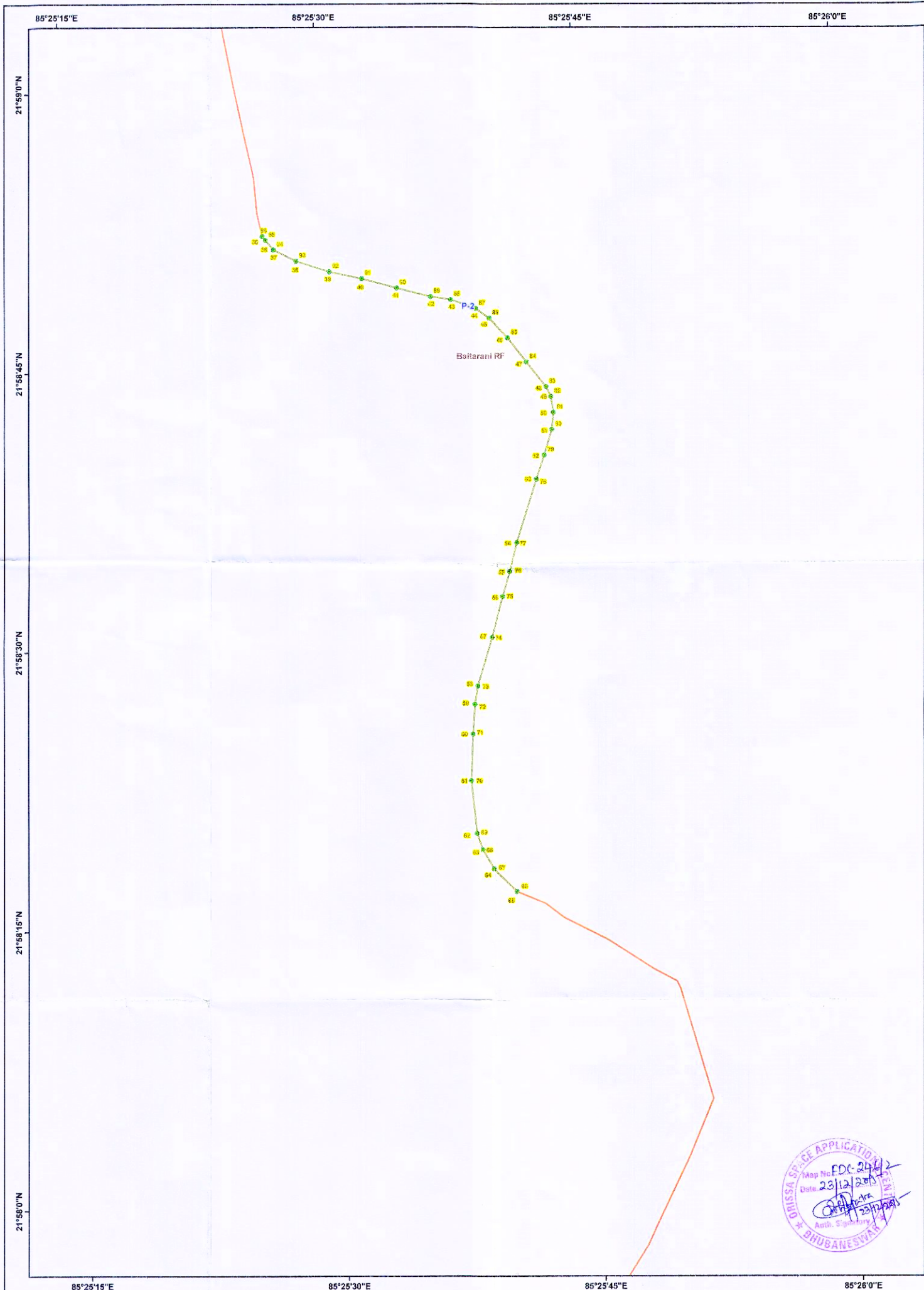
22°2'15"N

22°3'0"N

22°2'45"N

22°2'30"N

22°2'15"N



**Map Showing DGPS Surveyed Co-ordinates  
and Boundary of Forest Area Proposed to be  
Diverted for JSPL Slurry Pipeline in  
Baitarani RF, Tahasil-Badbil, District-Keonjhar  
Keonjhar Forest Division, Odisha**



Scale:- 1:3,960

**LEGEND**

● RF Pillar      RF Boundary      — Slurry Pipeline

**PILLAR CO-ORDINATES OF RF BOUNDARY**

| Surveyed Id | Pillar ID | UTM CO-ORDINATES |             | GEOGRAPHIC CO-ORDINATES |                  |
|-------------|-----------|------------------|-------------|-------------------------|------------------|
|             |           | Easting          | Northing    | Longitude               | Latitude         |
| r18a        | 35        | 337277.705       | 2431573.306 | 85°25'26.05729"         | 21°58'51.97456"  |
| r19a        | 36        | 337282.918       | 2431566.591 | 85°25'26.24142"         | 21°58'51.75801"  |
| r20a        | 37        | 337296.056       | 2431549.968 | 85°25'26.70534"         | 21°58'51.22193"  |
| r21a        | 38        | 337333.280       | 2431529.784 | 85°25'28.01061"         | 21°58'50.57752"  |
| r22a        | 39        | 337388.165       | 2431510.090 | 85°25'29.93046"         | 21°58'49.95627"  |
| r23a        | 40        | 337442.114       | 2431486.552 | 85°25'31.81589"         | 21°58'49.53417"  |
| r24a        | 41        | 337499.799       | 2431478.647 | 85°25'33.83315"         | 21°58'48.97132"  |
| r25a        | 42        | 337556.009       | 2431462.105 | 85°25'35.79647"         | 21°58'48.45230"  |
| r26a        | 43        | 337599.499       | 2431455.829 | 85°25'36.98613"         | 21°58'48.25942"  |
| r27a        | 44        | 337630.844       | 2431439.422 | 85°25'38.41523"         | 21°58'47.73981"  |
| r28a        | 45        | 337652.594       | 2431422.503 | 85°25'39.17914"         | 21°58'47.19701"  |
| r29a        | 46        | 337682.848       | 2431368.524 | 85°25'40.24613"         | 21°58'46.10239"  |
| r30a        | 47        | 337712.517       | 2431347.636 | 85°25'41.29613"         | 21°58'45.70294"  |
| r31a        | 48        | 337743.524       | 2431305.599 | 85°25'42.38102"         | 21°58'45.40558"  |
| r32a        | 49        | 337751.363       | 2431266.400 | 85°25'42.67007"         | 21°58'45.06253"  |
| r33a        | 50        | 337754.450       | 2431263.459 | 85°25'42.78694"         | 21°58'45.06014"  |
| r34a        | 51        | 337750.641       | 2431225.734 | 85°25'42.66410"         | 21°58'41.15749"  |
| r35a        | 52        | 337738.149       | 2431193.891 | 85°25'41.68107"         | 21°58'38.51152"  |
| r36a        | 53        | 337721.605       | 2431164.649 | 85°25'39.51725"         | 21°58'32.21214"  |
| r37a        | 54        | 337657.548       | 2430961.552 | 85°25'36.96690"         | 21°58'33.54978"  |
| r38a        | 55        | 337670.928       | 2431002.588 | 85°25'40.42467"         | 21°58'35.13210"  |
| r39a        | 56        | 337694.500       | 2431061.087 | 85°25'38.81598"         | 21°58'30.05426"  |
| r40a        | 57        | 337638.868       | 2430896.703 | 85°25'37.90623"         | 21°58'27.49977"  |
| r41a        | 58        | 337599.903       | 2430816.763 | 85°25'37.70562"         | 21°58'28.51767"  |
| r42a        | 59        | 337503.782       | 2430766.963 | 85°25'37.54277"         | 21°58'24.91068"  |
| r43a        | 60        | 337506.803       | 2430737.582 | 85°25'37.36248"         | 21°58'22.41060"  |
| r44a        | 61        | 337492.641       | 2430686.747 | 85°25'37.60750"         | 21°58'19.59920"  |
| r45a        | 62        | 337498.772       | 2430573.262 | 85°25'37.02432"         | 21°58'18.68545"  |
| r46a        | 63        | 337507.581       | 2430546.017 | 85°25'36.55450"         | 21°58'17.62984"  |
| r47a        | 64        | 337525.328       | 2430513.369 | 85°25'36.87283"         | 21°58'16.36832"  |
| r48a        | 65        | 337562.744       | 2430474.181 | 85°25'40.77707"         | 21°58'16.62882"  |
| r49a        | 66        | 337663.612       | 2430475.009 | 85°25'36.90361"         | 21°58'16.39566"  |
| r50a        | 67        | 337626.304       | 2430514.079 | 85°25'36.58966"         | 21°58'17.65217"  |
| r51a        | 68        | 337608.688       | 2430546.491 | 85°25'37.96332"         | 21°58'18.68996"  |
| r52a        | 69        | 337599.959       | 2430573.522 | 85°25'37.65157"         | 21°58'19.57818"  |
| r53a        | 70        | 337593.844       | 2430660.742 | 85°25'37.40521"         | 21°58'22.41112"  |
| r54a        | 71        | 337599.798       | 2430737.473 | 85°25'37.58521"         | 21°58'24.90818"  |
| r55a        | 72        | 337604.999       | 2430766.770 | 85°25'37.74721"         | 21°58'26.51116"  |
| r56a        | 73        | 337611.063       | 2430816.477 | 85°25'37.94861"         | 21°58'27.48118"  |
| r57a        | 74        | 337638.009       | 2430865.327 | 85°25'38.85961"         | 21°58'30.05418"  |
| r58a        | 75        | 337658.691       | 2430961.186 | 85°25'39.85861"         | 21°58'32.19966"  |
| r59a        | 76        | 337672.075       | 2431002.210 | 85°25'40.00861"         | 21°58'33.53886"  |
| r60a        | 77        | 337685.644       | 2431050.722 | 85°25'40.46521"         | 21°58'35.11922"  |
| r61a        | 78        | 337722.733       | 2431154.237 | 85°25'41.72161"         | 21°58'38.49966"  |
| r62a        | 79        | 337737.373       | 2431193.559 | 85°25'42.21841"         | 21°58'39.78112"  |
| r63a        | 80        | 337751.814       | 2431235.455 | 85°25'42.70441"         | 21°58'41.14922"  |
| r64a        | 81        | 337755.659       | 2431263.448 | 85°25'42.829104"        | 21°58'42.09018"  |
| r65a        | 82        | 337752.531       | 2431269.742 | 85°25'42.710828"        | 21°58'42.913992" |
| r66a        | 83        | 337744.596       | 2431306.222 | 85°25'42.426752"        | 21°58'43.447152" |
| r67a        | 84        | 337713.485       | 2431346.345 | 85°25'41.328624"        | 21°58'44.806296" |
| r68a        | 85        | 337683.782       | 2431389.277 | 85°25'40.278504"        | 21°58'46.127172" |
| r69a        | 86        | 337653.408       | 2431423.383 | 85°25'39.207504"        | 21°58'47.225856" |
| r70a        | 87        | 337631.446       | 2431440.474 | 85°25'38.435844"        | 21°58'47.774208" |
| r71a        | 88        | 337599.933       | 2431465.987 | 85°25'36.973366"        | 21°58'46.297166" |
| r72a        | 89        | 337566.269       | 2431463.274 | 85°25'36.807808"        | 21°58'46.460358" |
| r73a        | 90        | 337500.145       | 2431479.796 | 85°25'33.844836"        | 21°58'49.306768" |
| r74a        | 91        | 337442.438       | 2431487.708 | 85°25'31.826748"        | 21°58'49.571832" |
| r75a        | 92        | 337388.614       | 2431511.240 | 85°25'29.94222"         | 21°58'49.993752" |
| r76a        | 93        | 337333.781       | 2431530.662 | 85°25'28.027236"        | 21°58'50.513384" |
| r77a        | 94        | 337296.845       | 2431550.005 | 85°25'26.732496"        | 21°58'51.262636" |
| r78a        | 95        | 337283.863       | 2431567.331 | 85°25'26.274072"        | 21°58'51.782376" |
| r79a        | 96        | 337278.653       | 2431574.042 | 85°25'25.09004"         | 21°58'51.988772" |

**Area Statement**

| Patch Id          | RF Name      | DGPS Surveyed Area |              |
|-------------------|--------------|--------------------|--------------|
|                   |              | in Acre            | in Hectare   |
| P-2               | Baitarani RF | 0.426              | 0.173        |
| <b>Total Area</b> |              | <b>0.426</b>       | <b>0.173</b> |



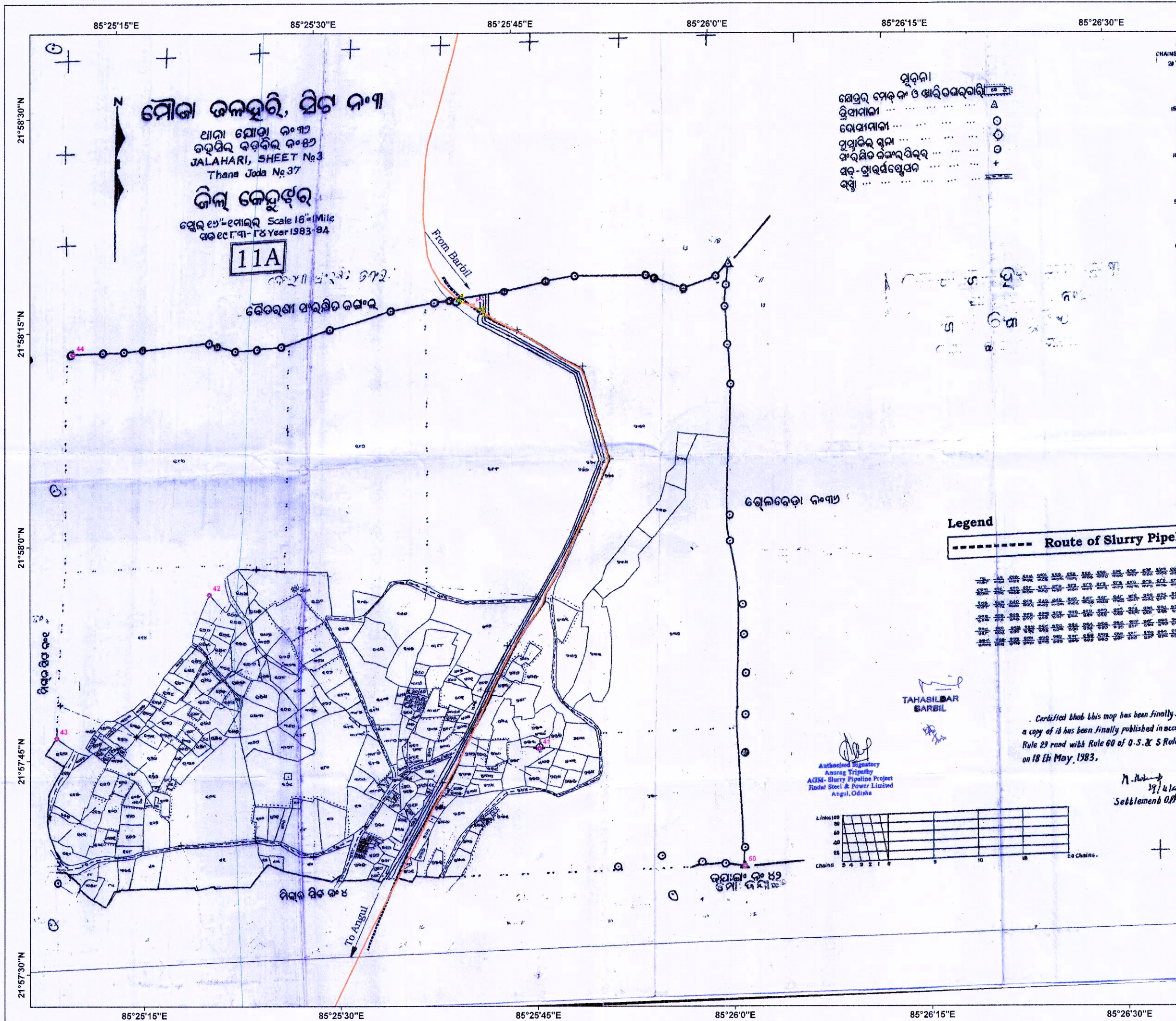
**TAHASILDAR  
BARBIL**

Spatial Planning & Analysis Research Centre Pvt. Ltd.  
E/11, INFOCITY, Chandaka Industrial Estate  
Chandrasekharpur, Bhubaneswar-751024 (INDIA)  
Ph: 0674-6629 301, 302, 303, Fax: 0674-6629 304

**Forest Range Officer  
Champua Range**

**DGPS Survey Conducted and Map Prepared by :-  
Spatial Planning And Analysis Research Centre Pvt. Ltd.,  
E/11, Infocity, Chandaka Industrial Estate,  
Bhubaneswar - 751024.**

**COUNTERSIGNED**  
Divisional Forest Officer,  
Keonjhar Division



### Map Showing DGPS Surveyed Co-ordinates and Boundary of Forest Area Proposed to be Diverted for JSPL Slurry Pipeline in Village-Jalahari S3, Tahasil-Badbil, District-Keonjhar, Keonjhar Forest Division, Odisha

Scale: 1:3,960

#### LEGEND

- Observation Point
- Forest Plot
- Slurry Pipeline
- Forest Pillar
- Patch Boundary

#### CO-ORDINATES OF SCP/DGPS OBSERVATION POINT

| Point ID | UTM CO-ORDINATES |             | GEOGRAPHIC CO-ORDINATES |                  |
|----------|------------------|-------------|-------------------------|------------------|
|          | Easting          | Northing    | Longitude               | Latitude         |
| 41       | 337801.932       | 2429501.644 | 85°26'45.07217"         | N21°57'44.79537" |
| 42       | 337084.037       | 2429661.789 | 85°26'20.28971"         | N21°57'56.26726" |
| 43       | 336748.579       | 2429565.874 | 85°25'08.33527"         | N21°57'46.53127" |
| 44       | 336817.244       | 2430391.902 | 85°25'10.43137"         | N21°58'13.41028" |
| 50       | 338241.031       | 2429230.153 | 85°26'00.47347"         | N21°57'36.11512" |

#### CO-ORDINATES OF FOREST PILLAR

| Pillar ID | UTM CO-ORDINATES |             | GEOGRAPHIC CO-ORDINATES |                  |
|-----------|------------------|-------------|-------------------------|------------------|
|           | Easting          | Northing    | Longitude               | Latitude         |
| 1         | 337862.744       | 2430474.181 | 85°25'39.87282"         | 21°58'16.388312" |
| 2         | 337863.612       | 2430475.009 | 85°25'39.902772"        | 21°58'16.385528" |
| 3         | 337710.648       | 2430453.531 | 85°25'41.5468"          | 21°58'15.7116"   |
| 4         | 337709.767       | 2430452.701 | 85°25'41.52"            | 21°58'15.6864"   |

#### Area Statement

| Sl No      | Village Name | Patch No | Plot No | Proposed Forest Area for Diversion |            | DGPS Surveyed Area |            | Kisam           |
|------------|--------------|----------|---------|------------------------------------|------------|--------------------|------------|-----------------|
|            |              |          |         | In Acre                            | In Hectare | In Acre            | In Hectare |                 |
| 1          | Jalahari S3  | P-1      | 188     | 0.014                              | 0.006      | 0.014              | 0.006      | Forest-II (DLC) |
| Total Area |              |          |         | 0.014                              | 0.006      | 0.014              | 0.006      |                 |

Certified that this map has been finally published in accordance with Rule 60 of O.S. & S. Rules on 18th May, 1983.

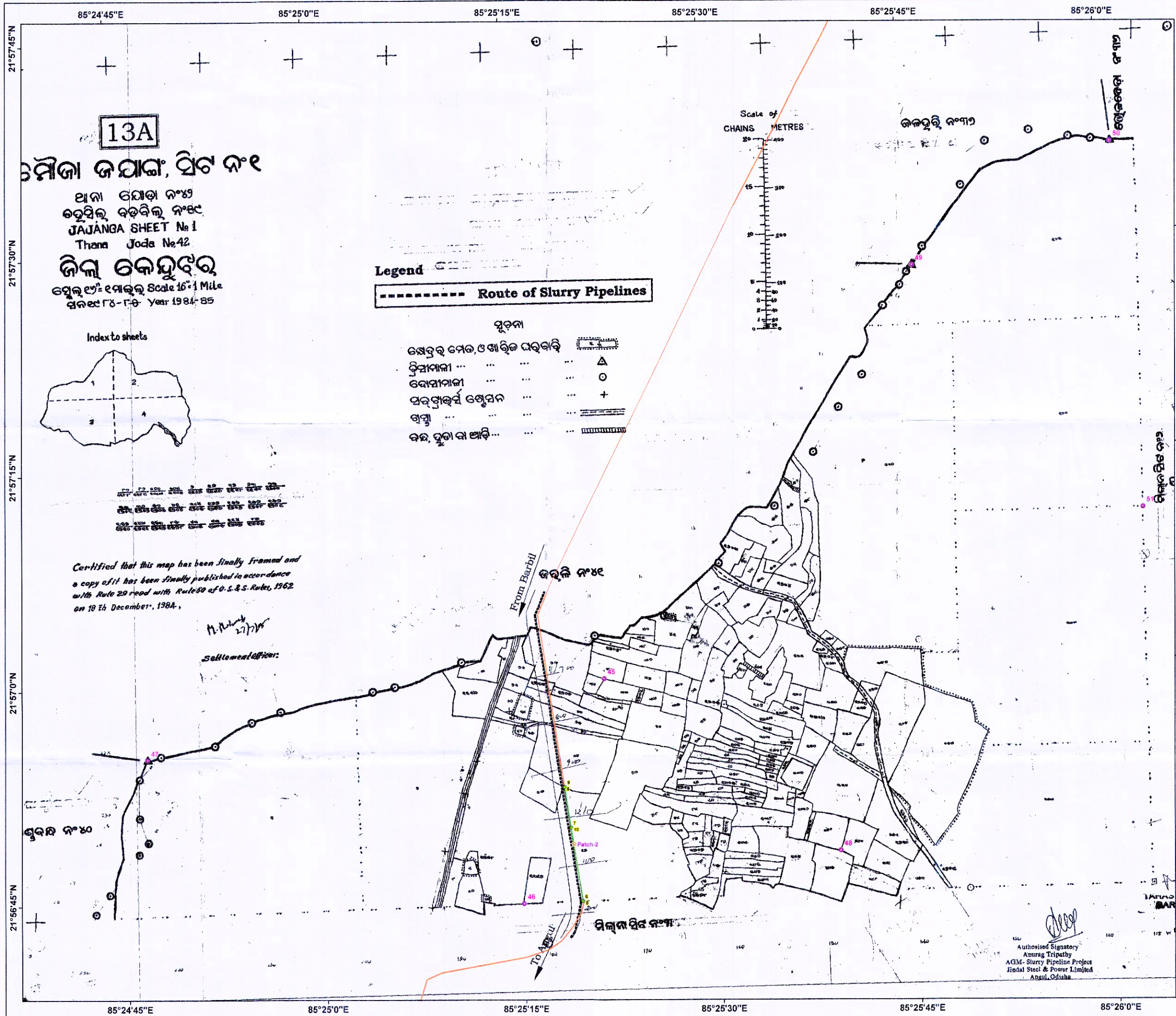
*(Signature)*  
 Authorised Signatory  
 Anand Tripathy  
 AGM- Slurry Pipeline Project  
 Jindal Steel & Power Limited  
 Angul, Odisha

*(Signature)*  
 N. K. Singh  
 Settlement Officer

COUNTERSIGNED

Divisional Forest Officer, Keonjhar Division

DGPS Survey Conducted and Map Prepared by :-  
 Spatial Planning & Analysis Research Centre Pvt. Ltd.,  
 E/11, Infocity, Chandaka Industrial Estate,  
 Chandrasekharpur, Bhubaneswar-751024 (INDIA)  
 Tel: 0674-6629 301, 302, 303, Fax: 0674-6629 304



Map Showing DGPS Surveyed Co-ordinates and Boundary of Forest Area Proposed to be Diverted for JSPL Slurry in Village-Jajanga S1, Tahasil-Badbil, District-Keonjhar, Odisha

Keonjhar Forest Division, Odisha

Scale: 1:3,960

LEGEND

- Observation Point
- Forest Plot
- Slurry Pipeline
- Forest Pillar
- Patch Boundary

CO-ORDINATES OF SCIP/DGPS OBSERVATION POINT

| Point ID | UTM CO-ORDINATES Easting | UTM CO-ORDINATES Northing | GEOGRAPHIC CO-ORDINATES Longitude | GEOGRAPHIC CO-ORDINATES Latitude |
|----------|--------------------------|---------------------------|-----------------------------------|----------------------------------|
| 45       | 337088.857               | 2428121.588               | E85°25'21.06231"                  | N21°56'59.69110"                 |
| 46       | 336904.586               | 2427645.742               | E85°25'14.46263"                  | N21°56'44.15588"                 |
| 47       | 336908.861               | 2427686.912               | E85°24'46.25996"                  | N21°56'54.97744"                 |
| 48       | 337597.556               | 2427731.431               | E85°25'38.58208"                  | N21°56'47.17348"                 |
| 49       | 337801.703               | 2428981.337               | E85°25'45.25018"                  | N21°57'27.87893"                 |
| 50       | 338241.031               | 2429230.163               | E85°26'00.47347"                  | N21°57'36.11512"                 |
| 51       | 338283.049               | 2428441.633               | E85°26'02.21692"                  | N21°57'10.49208"                 |

CO-ORDINATES OF FOREST PILLAR

| Pillar ID | UTM CO-ORDINATES Easting | UTM CO-ORDINATES Northing | GEOGRAPHIC CO-ORDINATES Longitude | GEOGRAPHIC CO-ORDINATES Latitude |
|-----------|--------------------------|---------------------------|-----------------------------------|----------------------------------|
| 5         | 337034.183               | 2427645.315               | E85°25'18.979248"                 | 21°56'44.18538"                  |
| 6         | 337032.974               | 2427645.314               | E85°25'18.937092"                 | 21°56'44.184912"                 |
| 7         | 337013.340               | 2427803.739               | E85°25'18.195896"                 | 21°56'49.329132"                 |
| 8         | 337002.786               | 2427891.889               | E85°25'17.79654"                  | 21°56'52.191528"                 |
| 9         | 337004.072               | 2427891.246               | E85°25'17.841576"                 | 21°56'52.171044"                 |
| 10        | 337014.531               | 2427893.884               | E85°25'18.237468"                 | 21°56'49.334244"                 |

Area Statement

| SI No      | Village Name | Patch No | Plot No | Proposed Forest Area for Diversion In Acre | Proposed Forest Area for Diversion In Hectare | DGPS Surveyed Area In Acre | DGPS Surveyed Area In Hectare | Kisam  |
|------------|--------------|----------|---------|--------------------------------------------|-----------------------------------------------|----------------------------|-------------------------------|--------|
| 1          | Jajanga S1   | P-2      | 12      | 0.071                                      | 0.029                                         | 0.074                      | 0.030                         | Jungle |
| Total Area |              |          |         | 0.071                                      | 0.029                                         | 0.074                      | 0.030                         |        |

ORISSA SPACE APPLICATION

Map No. FDC-24/14

Date: 23/12/2015

TAHASILDAR BARBIL

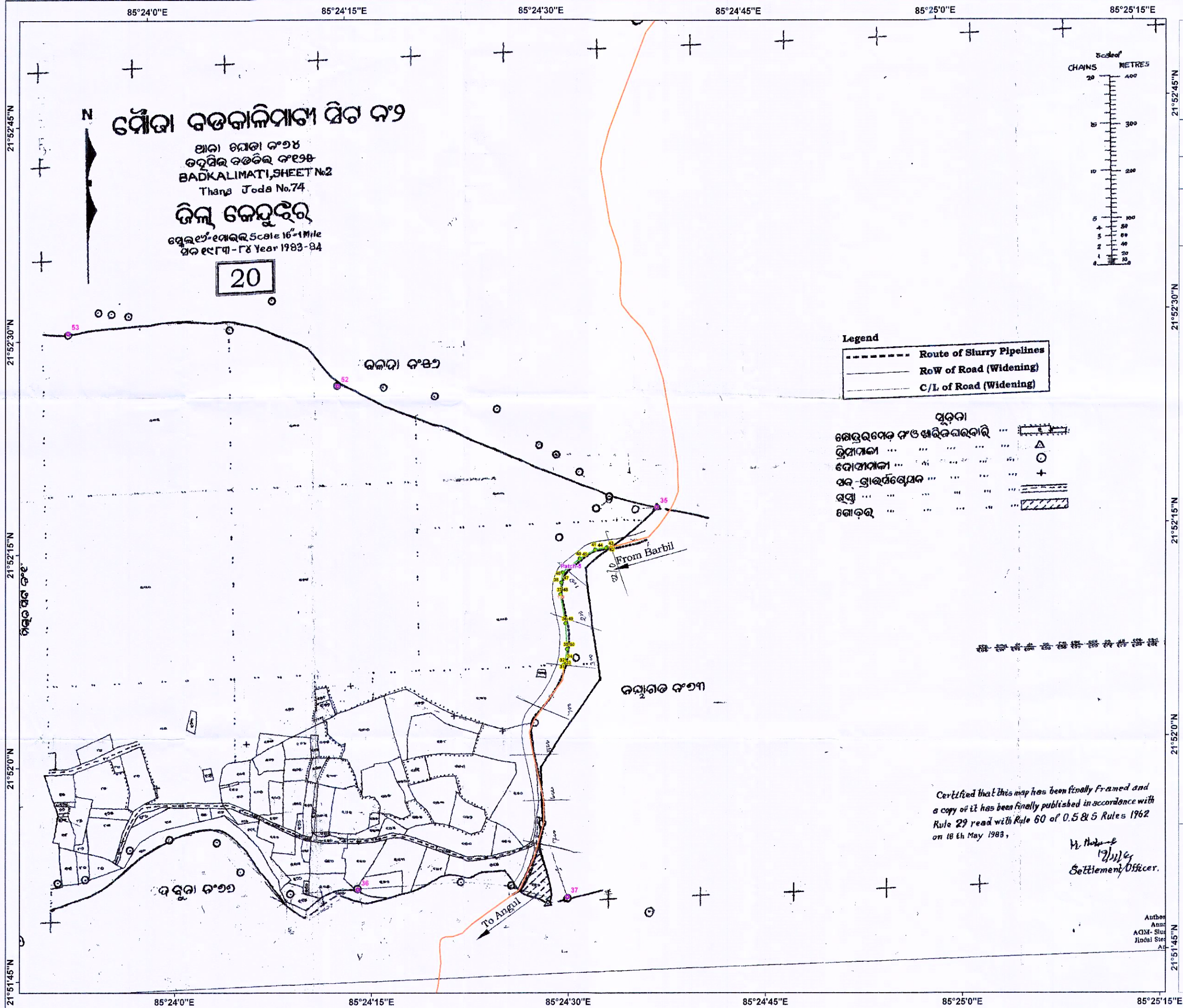
Forest Range Officer Champua Range

COUNTERSIGNED

Divisional Forest Officer, Keonjhar District

DGPS Survey Conducted and Map Prepared by :- Spatial Planning & Analysis Research Centre Pvt. Ltd., E/11, INFOCITY, Chandaka Industrial Estate, Bhubaneswar - 751024.





Map Showing DGPS Surveyed Co-ordinates and Boundary of Forest Area Proposed to be Diverted for JSPL Slurry Pipeline in Village-Badakalimati, Tahasil-Badbil, District-Keonjhar, Keonjhar Forest Division, Odisha

Scale:- 1:3,960

LEGEND

- Observation Point
- Forest Plot
- Slurry Pipeline
- Forest Pillar
- Patch Boundary

| Point ID | UTM CO-ORDINATES Easting | UTM CO-ORDINATES Northing | GEOGRAPHIC CO-ORDINATES Longitude | GEOGRAPHIC CO-ORDINATES Latitude |
|----------|--------------------------|---------------------------|-----------------------------------|----------------------------------|
| 35       | 335749.404               | 2419441.573               | E85°24'37.16523"                  | N21°52'17.03174"                 |
| 36       | 335064.650               | 2418641.407               | E85°24'13.60328"                  | N21°51'50.78589"                 |
| 37       | 335521.891               | 2418607.602               | E85°24'29.94118"                  | N21°51'49.84085"                 |
| 52       | 335062.256               | 2419731.216               | E85°24'13.12567"                  | N21°52'26.21726"                 |
| 53       | 334477.877               | 2419667.900               | E85°23'52.72099"                  | N21°52'30.46353"                 |

| Pillar ID | UTM CO-ORDINATES Easting | UTM CO-ORDINATES Northing | GEOGRAPHIC CO-ORDINATES Longitude | GEOGRAPHIC CO-ORDINATES Latitude |
|-----------|--------------------------|---------------------------|-----------------------------------|----------------------------------|
| 31        | 335537.592               | 2419117.435               | 85°24'29.904264"                  | 21°52'6.422016"                  |
| 32        | 335534.506               | 2419109.650               | 85°24'29.799676"                  | 21°52'6.167856"                  |
| 33        | 335533.217               | 2419109.655               | 85°24'29.754684"                  | 21°52'6.167604"                  |
| 34        | 335536.435               | 2419117.774               | 85°24'29.863872"                  | 21°52'6.432636"                  |
| 35        | 335541.332               | 2419143.073               | 85°24'30.025296"                  | 21°52'7.25682"                   |
| 36        | 335540.136               | 2419196.465               | 85°24'29.9637"                    | 21°52'9.057324"                  |
| 37        | 335531.535               | 2419261.805               | 85°24'29.641248"                  | 21°52'11.113788"                 |
| 38        | 335534.202               | 2419287.338               | 85°24'29.724948"                  | 21°52'11.944812"                 |
| 39        | 335538.515               | 2419306.260               | 85°24'29.867256"                  | 21°52'12.659016"                 |
| 40        | 335577.188               | 2419337.795               | 85°24'31.204008"                  | 21°52'13.569768"                 |
| 41        | 335611.865               | 2419356.087               | 85°24'32.405292"                  | 21°52'14.208152"                 |
| 42        | 335637.661               | 2419359.579               | 85°24'33.302556"                  | 21°52'14.328336"                 |
| 43        | 335635.957               | 2419358.137               | 85°24'33.243732"                  | 21°52'14.280888"                 |
| 44        | 335612.237               | 2419354.926               | 85°24'32.418648"                  | 21°52'14.168532"                 |
| 45        | 335677.628               | 2419336.776               | 85°24'31.228652"                  | 21°52'13.569864"                 |
| 46        | 335539.602               | 2419308.571               | 85°24'29.90538"                   | 21°52'12.636964"                 |
| 47        | 335535.390               | 2419287.159               | 85°24'29.789384"                  | 21°52'11.839412"                 |
| 48        | 335532.743               | 2419281.624               | 85°24'29.683332"                  | 21°52'11.114768"                 |
| 49        | 335541.335               | 2419196.559               | 85°24'30.005388"                  | 21°52'9.06076"                   |
| 50        | 335542.534               | 2419142.971               | 85°24'30.0672"                    | 21°52'7.253604"                  |

| Sl No | Patch No | Plot No    | Proposed Forest Area for Diversion | DGPS Surveyed Area | Kisam |        |
|-------|----------|------------|------------------------------------|--------------------|-------|--------|
|       |          |            | In Acre                            | In Hectare         |       |        |
| 1     | P-5      | 134        | 0.091                              | 0.037              | 0.093 | Jungle |
|       |          | Total Area | 0.091                              | 0.037              | 0.093 |        |

Certified that this map has been finally framed and a copy of it has been finally published in accordance with Rule 29 read with Rule 60 of O.S. & S. Rules 1962 on 18th May 1983.

M. Mohanty  
Settlement Officer.

Author  
Anus  
ACIM- Slur  
Jindal Stee  
An

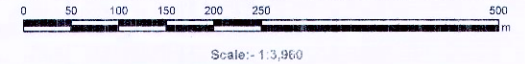
TAHASILDAR  
BARBIL

DGPS Survey Conducted and Map Prepared by :-  
Spatial Planning And Analysis Research Centre Pvt. Ltd.,  
E/11, Infocity, Chandaka Industrial Estate,  
Bhubaneswar - 751024.

COUNTERSIGNED  
Divisional Forest Officer,  
Keonjhar



**Map Showing DGPS Surveyed Co-ordinates  
and Boundary of Forest Area Proposed to be  
Diverted for JSPL Slurry Pipeline in  
Naibuga RF, Tahasil-Chumpura, District-Keonjhar  
Keonjhar Forest Division, Odisha**



**LEGEND**

● RF Pillar      RF Boundary      — Slurry Pipeline

| PILLAR CO-ORDINATES OF RF BOUNDARY |           |                  |                |                         |                  |
|------------------------------------|-----------|------------------|----------------|-------------------------|------------------|
| Surveyed<br>Id                     | Pillar ID | UTM CO-ORDINATES |                | GEOGRAPHIC CO-ORDINATES |                  |
|                                    |           | Easting          | Northing       | Longitude               | Latitude         |
|                                    |           |                  | Patch-3        |                         |                  |
| 721f                               | 123       | 335081.788       | 2415173.333    | E85°24'15.45252"        | N21°49'58.03640" |
| 723f7                              | 124       | 335099.852       | 2415127.159    | E85°24'16.09818"        | N21°49'56.54125" |
| 719f                               | 125       | 335105.824       | 2415085.827    | E85°24'16.31409"        | N21°49'55.19938" |
| 720f4                              | 126       | 335112.842       | 2415018.601    | E85°24'16.58970"        | N21°49'53.01614" |
| 712f1                              | 127       | 335159.399       | 2414574.858    | E85°24'18.37089"        | N21°49'38.60462" |
| 713f                               | 128       | 335120.559       | 2414904.749    | E85°24'16.89948"        | N21°49'49.31711" |
| 714f3                              | 129       | 335117.075       | 2414809.334    | E85°24'16.81257"        | N21°49'46.21376" |
| 724f3                              | 130       | 335118.682       | 2414749.285    | E85°24'16.89019"        | N21°49'44.26197" |
| 715f1                              | 131       | 335119.509       | 2414744.326    | E85°24'16.92078"        | N21°49'44.10101" |
| 716f3                              | 132       | 335117.879       | 2414741.557    | E85°24'16.86500"        | N21°49'44.01046" |
| 717f                               | 133       | 335125.999       | 2414685.653    | E85°24'17.16790"        | N21°49'42.19560" |
| 718f                               | 134       | 335124.684       | 2414656.869    | E85°24'17.13179"        | N21°49'41.25931" |
| 711f2                              | 135       | 335159.399       | 2414574.858    | E85°24'18.37089"        | N21°49'38.60462" |
|                                    | 136       | 335160.43689     | 2414575.4599   | 85°24'18.4068"          | 21°49'38.6256"   |
|                                    | 137       | 335125.874878    | 2414657.08551  | 85°24'17.1756"          | 21°49'41.268"    |
|                                    | 138       | 335127.202681    | 2414685.715881 | 85°24'17.2116"          | 21°49'42.1968"   |
|                                    | 139       | 335118.704529    | 2414741.498108 | 85°24'16.8948"          | 21°49'44.0076"   |
|                                    | 140       | 335120.783508    | 2414743.978088 | 85°24'16.9668"          | 21°49'44.0904"   |
|                                    | 141       | 335119.879883    | 2414749.40033  | 85°24'16.9308"          | 21°49'44.2668"   |
|                                    | 142       | 335118.275696    | 2414809.327271 | 85°24'16.8552"          | 21°49'46.2144"   |
|                                    | 143       | 335121.760498    | 2414904.760498 | 85°24'16.9416"          | 21°49'49.3176"   |
|                                    | 144       | 335117.224304    | 2414986.709473 | 85°24'16.7544"          | 21°49'51.9816"   |
|                                    | 145       | 335114.035889    | 2415018.72467  | 85°24'16.632"           | 21°49'53.022"    |
|                                    | 146       | 335106.81488     | 2415085.973877 | 85°24'16.3548"          | 21°49'55.2036"   |
|                                    | 147       | 335101.033875    | 2415127.490479 | 85°24'16.1388"          | 21°49'56.5536"   |
|                                    | 148       | 335084.378479    | 2415170.012329 | 85°24'15.5448"          | 21°49'57.9288"   |

**Area Statement**

| Patch Id   | RF Name    | DGPS Surveyed Area |            |
|------------|------------|--------------------|------------|
|            |            | in Acre            | in Hectare |
| P-3        | Naibuga RF | 0.181              | 0.073      |
| Total Area |            | 0.181              | 0.073      |



**TAHASILDAR  
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Spatial Planning & Analysis Research Centre Pvt. Ltd.  
E/11, INFOCITY, Chandaka Industrial Estate  
Chandrasekharpur, Bhubaneswar-751024 (INDIA)  
Ph: 0674-6629 301, 302, 303, Fax: 0674-6629 301

**TAHASILDAR  
CHUMPURA**

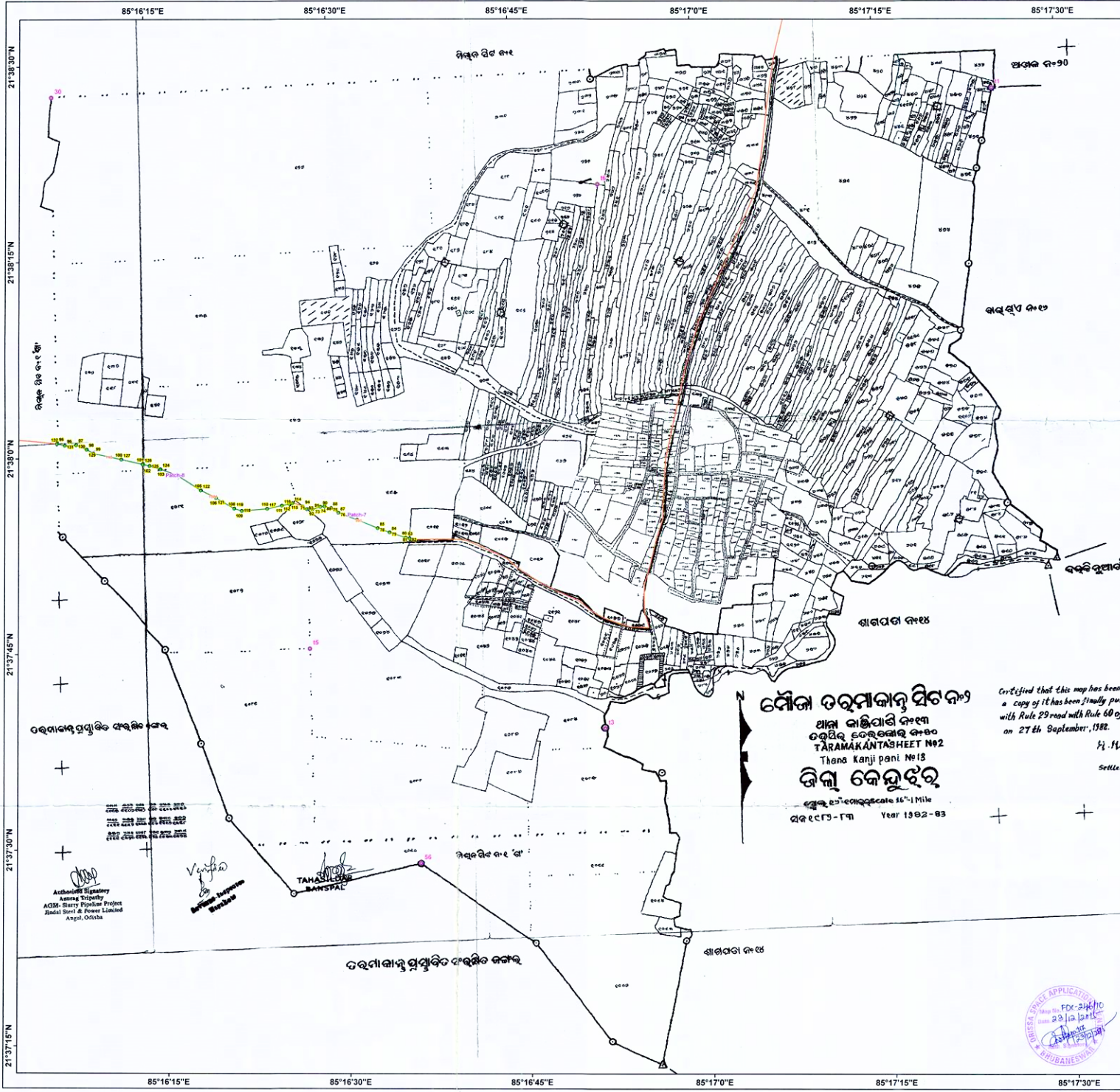
Forest Range Officer  
Chumpura Range

**DGPS Survey Conducted and Map Prepared by :-  
Spatial Planning And Analysis Research Centre Pvt. Ltd.,  
E/11, Infocity, Chandaka Industrial Estate,  
Bhubaneswar - 751024.**

**COUNTERSIGNED**  
Divisional Forest Officer  
Keonjhar Division







**Map Showing DGPS Surveyed Co-ordinates and Boundary of Forest Area Proposed to be Diverted for JSPL Slurry Pipeline in Village-Tamarakanta S2, Tahasil-Banspal, District-Keonjhar, Keonjhar Forest Division, Odisha**

**LEGEND**

- Observation Point
- Forest Pillar
- Forest Plot
- Patch Boundary
- Slurry Pipeline

**CO-ORDINATES OF SCIPDGS OBSERVATION POINT**

| Point ID | UTM CO-ORDINATES Easting | UTM CO-ORDINATES Northing | Geographic Co-ordinates Longitude | Geographic Co-ordinates Latitude |
|----------|--------------------------|---------------------------|-----------------------------------|----------------------------------|
| 11       | 323042.448               | 2394027.286               | 85°17'24.3678\"                   | N21°38'26.3560\"                 |
| 12       | 322074.159               | 2392556.616               | 85°16'51.2622\"                   | N21°37'38.1953\"                 |
| 13       | 321378.766               | 2392710.113               | 85°16'57.0360\"                   | N21°37'44.8963\"                 |
| 14       | 322100.800               | 2393836.502               | 85°16'51.6962\"                   | N21°38'19.8154\"                 |
| 15       | 320814.284               | 2394089.586               | 85°16'08.8615\"                   | N21°38'27.5789\"                 |
| 16       | 321025.403               | 2392263.879               | 85°16'35.7774\"                   | N21°37'28.1914\"                 |

**CO-ORDINATES OF FOREST PILLAR**

| Pillar ID | UTM CO-ORDINATES Easting | UTM CO-ORDINATES Northing | Geographic Co-ordinates Longitude | Geographic Co-ordinates Latitude |
|-----------|--------------------------|---------------------------|-----------------------------------|----------------------------------|
| 71        | 321384.832               | 2393066.880               | 85°16'27.8970\"                   | N21°37'56.5764\"                 |
| 72        | 321396.855               | 2393097.962               | 85°16'27.5020\"                   | N21°37'55.0107\"                 |
| 73        | 321416.179               | 2393103.962               | 85°16'28.1700\"                   | N21°37'55.7308\"                 |
| 74        | 321426.225               | 2393104.573               | 85°16'28.5216\"                   | N21°37'55.7700\"                 |
| 75        | 321441.865               | 2393096.869               | 85°16'29.0304\"                   | N21°37'55.6320\"                 |
| 76        | 321458.881               | 2393087.444               | 85°16'29.5500\"                   | N21°37'55.2310\"                 |
| 77        | 321502.296               | 2393069.961               | 85°16'31.1808\"                   | N21°37'54.6672\"                 |
| 78        | 321505.453               | 2393048.199               | 85°16'32.8037\"                   | N21°37'53.9894\"                 |
| 79        | 321518.170               | 2393037.040               | 85°16'33.8312\"                   | N21°37'53.8207\"                 |
| 80        | 321515.735               | 2393023.087               | 85°16'33.1430\"                   | N21°37'53.1987\"                 |
| 81        | 321524.758               | 2393021.110               | 85°16'33.4532\"                   | N21°37'53.1566\"                 |
| 82        | 321524.999               | 2393019.967               | 85°16'33.4172\"                   | N21°37'53.0912\"                 |
| 83        | 321515.399               | 2393021.633               | 85°16'33.1324\"                   | N21°37'53.1900\"                 |
| 84        | 321517.127               | 2393020.920               | 85°16'33.1639\"                   | N21°37'53.0804\"                 |
| 85        | 321549.885               | 2393047.003               | 85°16'33.8479\"                   | N21°37'53.9500\"                 |
| 86        | 321501.825               | 2393066.457               | 85°16'31.1644\"                   | N21°37'54.6362\"                 |
| 87        | 321458.080               | 2393066.386               | 85°16'29.6322\"                   | N21°37'55.1067\"                 |
| 88        | 321440.525               | 2393068.020               | 85°16'28.0210\"                   | N21°37'55.9868\"                 |
| 89        | 321435.118               | 2393103.348               | 85°16'28.1581\"                   | N21°37'55.7368\"                 |
| 90        | 321416.412               | 2393102.062               | 85°16'28.1812\"                   | N21°37'55.6802\"                 |
| 91        | 321396.871               | 2393060.180               | 85°16'27.5070\"                   | N21°37'55.1024\"                 |
| 92        | 321384.136               | 2393007.713               | 85°16'27.0466\"                   | N21°37'54.5847\"                 |
| 93        | 321383.310               | 2393008.811               | 85°16'27.0106\"                   | N21°37'55.5636\"                 |
| 94        | 321374.840               | 2393105.384               | 85°16'26.7332\"                   | N21°37'55.7867\"                 |
| 95        | 320756.169               | 2393274.783               | 85°16'01.6180\"                   | N21°38'10.8034\"                 |
| 96        | 320816.864               | 2393270.334               | 85°16'07.2602\"                   | N21°38'10.6544\"                 |
| 97        | 320843.516               | 2393270.464               | 85°16'08.1944\"                   | N21°38'10.9911\"                 |
| 98        | 320869.899               | 2393268.801               | 85°16'09.0616\"                   | N21°38'10.9542\"                 |
| 99        | 320884.028               | 2393248.923               | 85°16'09.8124\"                   | N21°38'10.2744\"                 |
| 100       | 320849.072               | 2393232.484               | 85°16'09.8802\"                   | N21°38'10.7632\"                 |
| 101       | 320869.038               | 2393215.386               | 85°16'09.6200\"                   | N21°38'10.5470\"                 |
| 102       | 320715.609               | 2393215.031               | 85°16'04.2000\"                   | N21°38'10.2022\"                 |
| 103       | 320749.876               | 2393206.236               | 85°16'05.0800\"                   | N21°38'10.4152\"                 |
| 104       | 320719.142               | 2393196.332               | 85°16'04.4000\"                   | N21°38'10.4364\"                 |
| 105       | 321134.713               | 2393152.835               | 85°16'18.3642\"                   | N21°38'24.6054\"                 |
| 106       | 321169.763               | 2393133.584               | 85°16'19.5000\"                   | N21°38'24.6310\"                 |
| 107       | 321165.812               | 2393123.471               | 85°16'20.1544\"                   | N21°38'24.3064\"                 |
| 108       | 321212.238               | 2393107.174               | 85°16'21.0970\"                   | N21°38'25.7800\"                 |
| 109       | 321229.869               | 2393102.124               | 85°16'21.6864\"                   | N21°38'26.0844\"                 |
| 110       | 321289.077               | 2393103.707               | 85°16'22.7842\"                   | N21°38'26.6972\"                 |
| 111       | 321324.986               | 2393109.423               | 85°16'23.9944\"                   | N21°38'27.8972\"                 |
| 112       | 321342.242               | 2393113.038               | 85°16'24.8044\"                   | N21°38'28.0244\"                 |
| 113       | 321351.284               | 2393114.584               | 85°16'25.8184\"                   | N21°38'27.9208\"                 |
| 114       | 321340.711               | 2393113.113               | 85°16'25.6588\"                   | N21°38'27.8286\"                 |
| 115       | 321340.567               | 2393111.980               | 85°16'25.6008\"                   | N21°38'27.8022\"                 |
| 116       | 321325.255               | 2393108.343               | 85°16'25.0744\"                   | N21°38'28.0344\"                 |
| 117       | 321306.989               | 2393102.511               | 85°16'23.7800\"                   | N21°38'28.6832\"                 |
| 118       | 321229.121               | 2393100.025               | 85°16'21.6800\"                   | N21°38'28.1070\"                 |
| 119       | 321212.226               | 2393106.881               | 85°16'21.0700\"                   | N21°38'28.1404\"                 |
| 120       | 321186.180               | 2393102.452               | 85°16'20.1304\"                   | N21°38'27.2712\"                 |
| 121       | 321169.153               | 2393102.651               | 85°16'19.5100\"                   | N21°38'26.9640\"                 |
| 122       | 321134.086               | 2393101.811               | 85°16'18.3402\"                   | N21°38'26.8112\"                 |
| 123       | 321079.170               | 2393189.269               | 85°16'14.4102\"                   | N21°38'24.4684\"                 |
| 124       | 321040.811               | 2393209.095               | 85°16'15.0700\"                   | N21°38'26.9404\"                 |
| 125       | 321015.259               | 2393213.883               | 85°16'14.1800\"                   | N21°38'28.1874\"                 |
| 126       | 320986.864               | 2393218.157               | 85°16'13.6000\"                   | N21°38'29.3144\"                 |
| 127       | 320940.712               | 2393221.121               | 85°16'11.8700\"                   | N21°38'29.7240\"                 |
| 128       | 320883.553               | 2393247.805               | 85°16'09.9038\"                   | N21°38'30.2364\"                 |
| 129       | 320867.523               | 2393257.765               | 85°16'09.0548\"                   | N21°38'30.5488\"                 |
| 130       | 320843.296               | 2393269.380               | 85°16'08.1868\"                   | N21°38'30.8198\"                 |
| 131       | 320816.713               | 2393268.832               | 85°16'07.2640\"                   | N21°38'30.8910\"                 |
| 132       | 320756.126               | 2393273.363               | 85°16'05.6194\"                   | N21°38'31.0422\"                 |

**Area Statement**

| Sl No      | Patch No | Patch No | Proposed Forest Area for Diversion | DGPS Surveyed Area | Kiam  |
|------------|----------|----------|------------------------------------|--------------------|-------|
|            |          |          | In Acre                            | In Hectare         |       |
| 1          | P-1      | 995      | 0.077                              | 0.031              | 0.079 |
| 2          | P-2      | 142      | 0.074                              | 0.030              | 0.031 |
| 3          | P-3      | 1081     | 0.104                              | 0.042              | 0.100 |
| Total Area |          | 2.25     | 0.153                              | 0.255              | 0.103 |

**TAHASIL BANSPAL**

**Authorised Signatory**  
 Ananta Tripathy  
 AGM, Slurry Pipeline Project  
 Radal Steel & Power Limited  
 Angul, Odisha

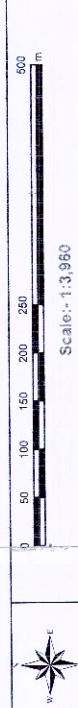
**TAHASIL BANSPAL**  
 Tahasil Officer  
 Keonjhar Forest Division

**Countersigned**  
 Divisional Forest Officer,  
 Keonjhar Division

**DGPS Survey Conducted and Map Prepared by :-**  
 Spatial Planning And Analysis Research Centre Pvt. Ltd.,  
 E/11, Infocity, Chandana Industrial Estate,  
 Shubaneswar - 751024.



*Map Showing DGPS Surveyed Co-ordinates  
and Boundary of Forest Area Proposed to be  
Diverted for JSPL Slurry Pipeline in  
Village-Naibuga S5, Tahasil-Jhumpura, District-Keonjhar,  
Keonjhar Forest Division, Odisha*



**LEGEND**

|                                                                                   |                   |
|-----------------------------------------------------------------------------------|-------------------|
|  | Observation Point |
|  | Forest Pillar     |
|  | Forest Plot       |
|  | Patch Boundary    |
|  | Slurry Pipeline   |

| CO-ORDINATES OF SCIDOPS OBSERVATION POINT |             |              |                  |                  |  |
|-------------------------------------------|-------------|--------------|------------------|------------------|--|
| Observation ID                            | Easting     | Northing     | Longitude        | Latitude         |  |
| n-D22                                     | 333875.2118 | 2414723.3478 | 85°23'37.062362" | 21°14'53.002362" |  |
| 39-11Dec12                                | 335005.4884 | 2415715.6053 | 85°24'12.71452   | 21°30'17.593346" |  |
| 42-11Dec12                                | 333816.1515 | 2416033.4184 | 85°23'34.648811" | 21°30'25.060666" |  |
| 38-11Dec12                                | 334302.8036 | 2415807.1665 | 85°23'54.614374" | 21°30'13.346858" |  |

| Pillar ID | CO-ORDINATES |             | GEOGRAPHIC CO-ORDINATES |                  |
|-----------|--------------|-------------|-------------------------|------------------|
|           | Easting      | Northing    | Longitude               | Latitude         |
|           |              | Patch-10    |                         |                  |
| 157       | 335154.678   | 2414566.002 | 85°24'18.3025"          | 21°42'38.965362" |
| 158       | 335158.389   | 2414574.688 | 85°24'18.37058"         | 21°42'38.904612" |
| 159       | 335160.598   | 2414575.328 | 85°24'18.411338"        | 21°42'38.926824" |
| 160       | 335165.024   | 2414460.328 | 85°24'19.669404"        | 21°42'35.50438"  |
| 171       | 335213.180   | 2414438.313 | 85°24'20.333333"        | 21°42'33.15352"  |
| 172       | 335220.405   | 2414416.585 | 85°24'21.945888"        | 21°42'32.996428" |
| 173       | 335223.226   | 2414370.528 | 85°24'23.43332"         | 21°42'32.206658" |
| 174       | 335230.628   | 2414371.617 | 85°24'24.157904"        | 21°42'32.018816" |
| 175       | 335236.604   | 2414331.580 | 85°24'24.373816"        | 21°42'31.938156" |
| 176       | 335236.656   | 2414303.168 | 85°24'25.378954"        | 21°42'29.786054" |
| 177       | 335240.702   | 2414304.827 | 85°24'26.33564"         | 21°42'29.848052" |
| 178       | 335245.047   | 2414371.744 | 85°24'27.159584"        | 21°42'31.87368"  |
| 180       | 335253.190   | 2414378.441 | 85°24'28.120868"        | 21°42'32.056692" |
| 181       | 335259.862   | 2414401.131 | 85°24'29.197008"        | 21°42'32.98602"  |
| 182       | 335261.166   | 2414419.119 | 85°24'30.182016"        | 21°42'33.505332" |
| 184       | 335274.815   | 2414378.940 | 85°24'31.333333"        | 21°42'33.555332" |
| 185       | 335286.533   | 2414377.888 | 85°24'32.103333"        | 21°42'33.555332" |
| 186       | 335291.555   | 2414378.388 | 85°24'32.103333"        | 21°42'33.555332" |
| 187       | 335156.666   | 2414576.971 | 85°24'18.390024"        | 21°42'38.965032" |
| 188       | 335156.001   | 2414586.937 | 85°24'18.24858"         | 21°42'38.953676" |

| Area Statement |          |         |                                               | Klasm         |
|----------------|----------|---------|-----------------------------------------------|---------------|
| Village Name   | Patch No | Plot No | DGRS Surveyed Area<br>In Acre      In Hectare |               |
| Nalbuga S5     | Patch-10 | 115     | 0.117      0.045                              | DLC (Part-11) |
| Total Area     |          |         | 0.117      0.045                              |               |

Map No. FDC-246/12  
Date: 23/12/2015  
Auth. Signatory: *[Signature]*

Q. Reza  
23/12/2017  
46 Forest Range Officer  
Champur Range

COUNTERSIGN

DGPS Survey Conducted and Map Prepared by :-  
Spatial Planning And Analysis Research Centre Pvt, Ltd.,  
E/11,Infocity, Chandaka Industrial Estate,  
Bhubaneswar - 751024.

