# **GOVERNMENT OF TELANGANA**

ENVIRONMENT, FORESTS, SCIENCE & TECHNOLOGY (For.I) DEPARTMENT

Letter.No.232/For.I(1)/2021

Dated:24.05.2022.

From

The Special Chief Secretary to Government, EFS&T (Forest)Department, Telangana State Secretariat, Hyderabad.

The Inspector General of Forests,
Government of India,
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhavan, Jorbagh Road,
New Delhi - 110 003. (w.e.)

Sir,

Sub:- F(C) Act, 1980 – Diversion of **649.3014** Ha forest land in Ramavaram RF of Ramavaram Range of Kothagudem forest division for grant of mining lease for proposed venkateshkhani OCP from underground rights to surface rights in Kothagudem Area in Bhadradri Kothagudem District in favour of M/s. SCCL – Acceptance of Overburden Dump area at Medipally OCP as CA - Regarding.

Ref:-1.From the PCCF(HoFF),T.S, Hyd., Ref.No.10066/2019/FCA-4, Dated:16.01.2021.

- 2. Govt. Lr.No.232/For.I(1)/2021, Dated:18.02.2021.
- 3.From the PCCF(HoFF), T.S., Hyd., Ref.No.10066/2019/ FCA-4, Dated:29.06.2021.
- 4.Govt.Lr.No.232/For.I(1)/2021, Dated:16.07.2021.
- 5.From the PCCF(HoFF), T.S., Hyd., Ref.No.10066/2019/ FCA-4, Dated:07.12.2021.
- 6. Govt.Lr.No.232/For.I(1)/2021, Dated:18.12.2021.
- 7. From the PCCF(HoFF), T.S., Hyd., Ref.No.10066/2019/ FCA-4, Dated:12.01.2022.
- 8. Govt.Lr.No.232/For.I(1)/2021, Dated:28.01.2022.
- From the PCCF (HoFF), T.S., Hyd., Ref.No.FC4 /FC29/6/2022, Dated: 16.05.2022.

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I am to forward the additional information in respect of the proposal for diversion of **649.3014 Ha** forest land in Ramavaram RF of Ramavaram Range of Kothagudem forest division for grant of mining lease for proposed venkateshkhani OCP from underground rights to surface rights in Kothagudem Area in Bhadradri Kothagudem District in favour of M/s. SCCL, as reported by the Principal Chief Conservator of Forests (HoFF), Telangana State, Hyderabad in the letter 9<sup>th</sup> cited, for necessary action.

Yours faithfully

for Special Chief Secretary to Government

Copy to:

The Additional Principal Chief Conservator of Forests (Central), Government of India, Ministry of Environment & Forests, Regional Office (Southern Zone), Panagal Building, 8<sup>th</sup> floor, Saidapet, Chennai – 600 015 (w.e.)

The Principal Chief Conservator of Forests (HoFF), Telangana, Hyderabad.

The Chairman & Managing Director, Singareni Collieries Company Limited, Singareni Bhavan Red Hills, Hyderabad.

Sc.

## GOVERNMENT OF TELANGANA FOREST DEPARTMENT

From

Sri R.M.Dorbiyal, IFS,

Principal Chief Conservator of Forests (Head of

Forest Force)(FAC),

Telangana State, "Aranya Bhavan",

Saifabad, Hyderabad.

To

The Spl. Chief Secretary to

Government,

Forests Department, Telangana State,

4th floor, Aranya Bhawan,

Hyderabad.

### Ref.No. FC4/FC29/6/2022, Dated: 16/05/2022.

### Madam,

Sub:TSFD - F(C) Act, 1980 - TS - Forest (Conservation) Act, 1980 -Diversion of 649.3014 ha forest land in Ramavaram RF of Ramavaram Range of Kothagudem forest division for grant of mining lease for proposed VenkateshKhani OCP from Underground rights to Surface rights in Kothagudem Area in Bhadradri Kothagudem District in favour of M/s.SCCL - Acceptance of Overburden Dump area at Medipally OCP as CA - Detailed report of Inspection - Furnished - Regarding.

Ref:

- 1. General Manager, Kothagudem Area, SCCL, Bhadradri Kothagudem district Ref.No.KGM/EST/A/14/232,Dt.05.06.2019.
- 2. PCCF(HoFF) Rc.No. 10066/2019/FCA-1/PS,Dt: 29.06.2019.
- 3. General Manager, Kothagudem Area, SCCL, Bhadradri Kothagudem district Ref.No.KGM/EST/A/14/450,Dt: 01.10.2019.
- 4. PCCF(HoFF) Rc.No. 10066/2019/FCA-1/PS dt:11.10.2019.
- 5. General Manager, Kothagudem Area, SCCL, Bhadradri Kothagudem district Ref.No.KGM/EST/F/33/79,Dt:22.02.2020.
- 6. PCCF(HoFF) Rc.No. 10066/2019/FCA-1/PS, Dt:11.03.2020.
- 7. FDO, Kothagudem Rc.No.631/2019/A5, Dt:20.08.2020.
- 8. PCCF(HoFF) Rc.No.10066/2019/FCA-4,Dt:16.10.2020.
- 9. CCF/CF, Kothagudem Rc.No.117/2020/M3,Dt:01.12.2020.
- 10.PCCF(HoFF) Rc.No. 10066/2019/FCA-4,Dt:15.01.2021.
- 11.Gol, MoEF & CC, New Delhi F.No. 8-05/2021-FC Dt. 08.03.2021.
- 12.PCCF(HoFF) Rc.No. 10066/2019/FCA-4,Dt:15.03.2021.
- 13.General Manager, Kothagudem Area, SCCL, Bhadradri Kothagudem district Ref.No.KGM/EST/F/33/265,Dt:10.06.2020.
- 14.FDO, Kothagudem Rc.No.631/2019/A5 Dt: 08.06.2021 addressed to DFO, BhadradriKothagudem
- 15.FDO, WLM kinnerasani Rc.No.213/2020/K3 Dt. 17.04.2021 addressed to DFO, Bhadradri Kothagudem.
- 16.PCCF(HoFF) Rc.No. 10066/2019/FCA-4,Dt:29.06.2021.
- 17.General Manager, Environment, SCCL, Bhadradri Kothagudem district Ref.No.CRP/ENV/A/408A/617 dt:11.10.2021.
- 18.PCCF(HoFF) Rc.No.10066/2019/FCA-4 Dt:17.11.2021.
- 19.Director(Planning&Projects), SCCL, Kothagudem District, Ref No.CRP/EST/C/005/1201 dt:21.12.2021.
- 20.PCCF Rc.No.10088/2021/FCA-4 Dt:10.01.2022.
- 21.State govt Lr.No.232/For.I(1)/2021 Dt. 28.01.2022.
- 22. Director(Operations), SCCL, Bhadradri-Kothagudem District, Ref

No.CRP/EST/C/005/257 dt:04.02.2022. 23.PCCF(HoFF) Rc.No.10088/2021/FCA-4 Dt:21.02.2022. 24.Gol, MoEF & CC, New Delhi F.No. 8-05/2021-FC, Dt. 25.02.2022. 25.CF, Karimnagar Rc.No.167/2022/M2, Dated:-06-05-2022

- Vide reference 24<sup>th</sup> cited, the GoI, MoEF & CC, NewDelhi has requested to forward the KML files of rehabilitated overburden land (Non forest land) area for the said project to be considered for the purpose for CA.
- 2. Accordingly, instructions were issued to the Conservator of Forests, Karimnagar to inspect and submit a detailed report on consideration/ acceptance of this rehabilitated OB dump areas as CA NFL areas to an extent of 650.59 Ha of Non-RF areas of Medipally OCP in Ramagundam with detailed scheme for CA NFL as per the guidelines, so as to submit it to the GoI, MoEF & CC, New Delhi for site inspection of rehabilitated overburden dumps proposed for CA NFL areas.
- 3. Vide ref 25<sup>th</sup> cited, the Conservator of Forests, Karimnagar has informed that the DFO, Peddapally has submitted a detailed report as per the instructions issued by the MoEF&CC, GoI, the M/s.SCCL has identified the non-forest land to the extent of 650.59 Ha. available in the form of settled rehabilitated dumps of the closed mines at Medipally in Ramagundam to provide C.A. land for the Venkatesh Khani OCP project at Kothagudem. The details of proposed non-forest land of 650.59 ha are as follows:

SI.No	Details of the Land Parameter	Extent( Ha) (Plan area)	Extent(Ha) (Area including slopes)	
l.	Status of land proposed for CA (Area in Ha.)		TE TAT	
1	Plantation completed as per norms (1000 plants/Ha.) in External Dump - I, II, III, internal roads, earthern bund against Godavari river along mine barrier, base workshop and site office. (Shown in plan - from S.No.1 to 6)		521.19	
2	Plantation completed 1000 plants /Ha. (less than 2 years of age and less than 10em girth) in internal dump phase I & II (Shown in plan - from S.No.7 to 8)		164.33	
3	Plantation yet to be .taken up (Internal dump phase I & II) (Shown in plan from S.No.7 to 8)	65.08		
	Total area in Ha.	650.59	685.52	
4	Perimeter of the land proposed for CA (in KM)	23.15		

i. Further, the District Forest Officer, Peddapally has reported that the General

Manager, SCCL, Ramagundam-I has stated that these areas were planted with native species namely bamboo, Ficus benghalensis, Ficus religiosa, Terminalia billarica, T.arjuna, Tamarindus indica, Emblica officinalis, Madhuca latifolia, Inga dulci, Pterocarpus marsupium etc., from 2004 to 2021. The details of saplings planted and their survival is as follows.

SI.No	Parameter	Number		
1	Saplings planted	1067828		
2	Survival	817952		
3	Survival percentage	76%		

ii. The District Forest Officer, Peddapally has reported that the General Manager, SCCL, Ramagundam-I has requested to recommend to the MoEF& CC, Gol to accept these lands as C.A. towards diversion of forest land for Venkatesh Khani Coal Mine by taking 649.3014 Ha of area. Out of which 495.51 Ha of area having trees more than 1000/Ha and in 90.00 Ha of area, more than 1000 trees/ Ha. but less than 2 years of age and less than 10 cm dia. In the remaining area of 65.08 Ha. plantation is yet to be taken up as these dumps are reclaimed recently and SCCL wants to complete the planting during 2022 planting season.

iii. Further, the District Forest Officer, Peddapally has submitted that, while communicating the list of sample plots to the General Manager, SCCL, Ramagundam-I it was requested to enumerate and submit the enumeration data. The General Manager, SCCL, Ramagundam-I has submitted abstract details of the enumeration data of the sample plots of each 0.1 Ha for (37) plots, spread across OB dump area of 495.51 Ha. The details of enumeration data of sample plots submitted by the SCCL is enclosed.

iv. The District Forest Officer, Peddapally has submitted that the plot wise details of no.of plants, no.of native species and no.of exotic species is enclosed. The analysis of enumeration data is as below.

No. of	No. of plants with above 10 cm dia									
Sample plots of 0.1 Ha	Total No.of plants in 37 plots	No.of Native species plants	Percentage of Native Species plants	No.of Exotic species plants	Percentage of exotic species plants					
37	4114	1061	26%	3053	74%					

v. The MOEF &CC, GOI, vide reference F.No.5-2/2017-FC Dt.28<sup>th</sup> March, 2019 has issued revised guidelines on F(C)Act, for diversion of forest land for non forestry activities. It has been clarified vide para 2.4 (ix), that "Non forest land reclaimed by any User Agency by planting native species of a minimum of 1000 trees per Ha and of minimum 10 Cms diameter at breast height can be considered as CA in lieu of Forest land to be diverted without levying planting cost" to be diverted, without levying planting cost. As per enumeration data of sample plots it is observed that on average there are 1111 number of plants with above 10 cm dia per ha, are present in the OB dump areas but the native species are around 26% only, remaining are exotic species like Leuacaena leucocaphala, Prosopis juliflora.

vi. Further, the District Forest Officer, Peddapally has submitted that, due to availability of large extant of the area at a single location, having good growth, the above OB dumped areas may be considered as CA lands subject to the following conditions:

- 1. As most of the species are exotic in the OB dumped area, some of these species to be removed wherever feasible and native species to be planted.
- 2. As per MoEF & CC guidelines there should be native species of minimum 1000 trees per Ha, but as per sample plot data there is less than 1000 trees of native species. Hence after replacing some of the native species in feasible areas, the balance plants to be planted in DFL areas.
- 3. Pathways to be formed to approach the higher slopes of the OB dump areas.
- 4. The entire area shall be fenced with Chain link fencing/See through wall by the User Agency before handing over of the area.
- 5. Apart from the above CA costs, for taking up Boundary pillars around the proposed CA area, the cost shall be borne by the User Agency.
- 6. All roads passing through the proposed CA area to be closed before handing over the areas.
- 7. If any boundary disputes are exists, they should be settled before handing over the areas to the Forest Department.
- 8. The maintenance cost of the recently raised plantations and to be raised plantations in the proposed CA areas, shall be borne by the User Agency.
- Habitat improvement activities like SMC works, Check walls, RFDs and Solar bore wells and other works shall be taken up in the proposed CA areas with the cost of User Agency.

- vii. Further, the Conservator of Forests, Karimnagar Circle, Karimnagar has submitted that he has inspected the OB dump area on 09.02.2022 along the District Forest Officer, Peddapally and SCCL Officials observed that the area is having good vegetation growth covered with native & exotic species. But it observed that majority of the plants area exotic species like Leuacaena leucocaphala and Prosopis juliflora. Further, the Conservator of Forests, Karimnagar Circle, Karimnagar agrees with the recommendation of DFO, Peddapally and has recommended for acceptance of Nonforest CA land proposed to an extent of 650.59 Ha over the rehabilitated overburden dump areas falling in Peddapally forest division in lieu of proposed mining area of VK OCP project I Kothagudem district subject to the conditions mentioned above.
- 4. In view of the above, the State Government is requested to forward the information to the GoI, MoEF & CC, New Delhi and also recommended for inspection of the Medipally rehabilitated Overburden dumps to an extent of 650.59 Ha identified for the CA purpose for the said project, for consideration and according the necessary approval duly imposing the conditions as submitted above. The map showing the Medipally OB dump area and kml file is enclosed in CD for reference. The Scheme for identified OB Dump for CA NFL along with CA in degraded forest land will be submitted later after assessing the area to be planted.

Encl: KML file in CD

Yours faithfully,

Signed by Rakesh Mohan Dobriyal Date: 16-05-2022 17:57:53

Reason: Approved

Prl. Chief Conservator of Forests & (Head of Forest Force)(FAC)

Advance Copy submitted to the Director General of Forests & Special Secretary to the Govt, MoEF& CC, Gol, Indira Paryawarana Bhawan, Jorbagh Road, New Delhi – 110003 for information and necessary action.

Advance Copy submitted to the Inspector General of Forests (FC), MoEF& CC, Gol, Indira Paryawarana Bhawan, Jorbagh Road, New Delhi – 110003 for information and necessary action.

Copy to Sri Surendra pandey, IFS (Retd.), Advisor (Forestry), The SCCL, Singareni Bhavan, Red Hills, PB.No.18, Khairatabad(Post), Hyderabad – 500004.

Copy to the Chairman and Managing director, SCCL, Red Hills, PB.No.18, Khairatabad

PO, Hyderabad -500004 for information.

Copy to the Conservator of Forests, Karimnagar Circle, Karimnagar, Conservator of Forests, Kothagudem and the District Forest Officer, Peddapally, the District Forest Officer, Bhadradri Kothagudem for information and necessary action.

#20.b.a.11

Superintendent

12/6/20 av

# GOVERNMENT OF TELANGANA FOREST DEPARTMENT

From
Sri B.SAIDULU, I.F.S.,
Conservator of Forests,
Karimnagar Circle,
Karimnagar.

The Principal Chief Conservator of Forests (Head of Forest Force), Aranya Bhavan, Saifabad, Hyderabad, TELANGANA STATE.

## Rc.No. 167/2022/M2, Dated: - 06-05-2022.

Sir,

Mrs On

Sub:- TSFD - Forest (Conservation) Act, 1980 - Handing over of Rehabilitated Overburden dumps (in non-forest land) of mines as Compensatory land towards new proposals of SCCL for diversion of forest land for coal mining, request to accept these lands as CA - Report submitted - Reg.

Ref:-

- 1) Prl CCF (HoFF) TS Hyd Rc No 10088/2021/FCA-4, dt 10.01,2022.
- 2) C.F., Karimnagar Rc.No. 167/2022/M2, dt. 24-01-2022.
  - 3) D.F.O., Peddapally Rc.No. 94/S4/2022, dt. 12-02-2022.
  - 4) General Manager, Ramagundam Area-I The SCCL Ref. RG.I/EST/CA/K-474/2022/189, dt. 14-02-2022.
  - 5) Director (Operations) The SCCL., Kothagudem Ref.CRP/EST/C-005/257, dt. 14-02-2022.
  - 6) C.F., Karimnagar Rc.No. 167/2022/M2, dt. 19-02-2022.
  - 7) D.F.O., Peddapally Rc.No. 94/S4/2022, dt. 21-02-2022.
  - 8) C.F., Karimnagar Rc.No. 167/2022/M2, dt. 23-02-2022.
  - 9) D.F.O., Peddapally Rc.No. 94/S4/2022, dt. 05-05-2022.

With reference to the orthical aited

With reference to the subject cited above, it is submitted that the District Forest Officer, Peddapally vide reference 9th cited, has submitted a report that the General Manager, Singareni Collieries Company Limited, RG-I, Ramagundam vide Ref. RG.I/EST/CA/K- 474/2022/189, dt. 14-02-2022 has submitted a report that as per the guidelines issued by the MoEF& CC, Government of India, the Singareni Collieries Company Limited has identified the non-forest land to the extent of 650.59 Ha. available in the form of settled rehabilitated dumps of the closed mines at Medipally in Ramagundam to provide C.A. land for the Venkatesh Khani OCP project at Kothagudem. The details of proposed non-forest land of 650.59 Ha. are as follows.

Sl.	Details of the Land Parameter	Extent (Ha.)	Extent (Ha.) (Area
No.	·	(Plan area)	including slopes)
I.	Status of land proposed for CA (Area in Ha.)		·
1.	Plantation completed as per norms (1000 plants/Ha.)	495.51	521.19
	in External Dump - I, II, III, internal roads, earthern		
	bund against Godavari river along mine barrier, base		
	workshop and site office.	,	
	(Shown in plan – from S.No. 1 to 6)		
2.	Plantation completed 1000 plants / Ha. (less than 2	90.00	164.33
	years of age and less than 10cm girth) in internal dump		
	phase I & II (Shown in plan – from S.No. 7 to 8)		·
3.	Plantation yet to be taken up (Internal dump phase I &	65.08	
	II) (Shown in plan from S.No. 7 to 8)		
	Total area in Ha.	650.59	685.52
4.	Perimeter of the land proposed for CA (in KM)		23.15

# 1531257/2022/PRINCIPAL CHIEF CONSERVATOR OF FORESTS TELANGANA

The District Forest Officer, Peddapally has submitted that the General Manager, SCCL, Ramagundam-I has submitted that these areas were planted with native species namely bamboo, Ficus benghalensis, Ficus religiosa, Terminalia billarica, T.arjuna, Tamarindus indica, Emblica officinalis, Madhuca latifolia, Inga dulci, Pterocarpus marsupium etc., from 2004 to 2021. The details of saplings planted and their survival is as follows.

Sl.No.	Parameter	Number
1.	Saplings planted	1067828
2.	Survival .	81 <i>7</i> 952
3.	Survival percentage	76%

The District Forest Officer, Peddapally has submitted that the General Manager, SCCL, Ramagundam-I has requested to recommend to the MoEF& CC, GoI to accept these lands as C.A. towards diversion of forest land for Venkatesh Khani Coal Mine by taking 649.3014 Ha. of area. Out of which 495.51 Ha. of area having trees more than 1000/Ha. and in 90.00 Ha. of area, more than 1000 trees/ Ha. but less than 2 years of age and less than 10 cm dia. In the remaining area of 65.08 Ha. plantation is yet to be taken up as these dumps are reclaimed recently and SCCL wants to complete the planting during 2022 planting season.

The District Forest Officer, Peddapally has submitted that, while communicating the list of sample plots to the General Manager, SCCL, Ramagundam-I it was requested to enumerate and submit the enumeration data. The General Manager, SCCL, Ramagundam-I has submitted abstract details of the enumeration data of the sample plots of each 0.1 Ha for (37) plots, spread across OB dump area of 495.51 Ha. The details of enumeration data of sample plots submitted by the SCCL is shown in Annexure-I(enclosed).

The District Forest Officer, Peddapally has submitted that the plot wise details of no.of plants, no.of native species and no.of exotic species are shown in Annexure-II (enclosed). The analysis of enumeration data is as below.

No. of Sample		No.	of plants with a	bove 10 cmsdia	
plots of 0.1 Ha	Total No. of plants in 37 plots	No. of Native species plants	Percentage of Native Species plants	No. of Exotic species plants	Percentage of exotic species plants
37	4114	1061	26 %	3053	74 %

Further the District Forest Officer, Peddapally has submitted that, he alongwith Conservator of Forests, Karimnagar Circle, Karimnagar and SCCL Officials have inspected the above OB dump area on 09.02.2022 and also inspected the said area

on 05.04.2022 along with Forest Range Officer, Peddapally and with SCCL officials and observed that the vegetation covered with nativé & exotic species and it is mostly with exotic species like *Leuacaena leucocaphala* and *Prosopis juliflora*.

The District Forest Officer, Peddapally has submitted that, as per the MoEF& CC, GoI guidelines "Non forest land reclaimed by any User Agency by planting native species of a minimum of 1000 trees per Ha and of minimum 10 Cms diameter at breast height can be considered as CA in lieu of Forest land to be diverted without levying planting cost". As per enumeration data of sample plots it is observed that on average there are 1111 number of plants with above 10 Cms dia per Ha., are present in the OB dump areas but the native species are around 26% only, remaining are exotic species like Leuacaena leucocaphala, Prosopis juliflora.

The District Forest Officer, Peddapally has submitted that, due to availability of large extant of the area at a single location, having good growth, the above OB dumped areas may be considered as CA lands subject to the following conditions.

- 1) As most of the species are exotic in the OB dumped area, some of these species to be removed wherever feasible and native species to be planted.
- 2) As per MoEF & CC guidelines there should be native species of minimum 1000 trees per Ha, but as per sample plot data there is less than 1000 trees of native species. Hence after replacing some of the native species in feasible areas, the balance plants to be planted in DFL areas.
- 3) Pathways to be formed to approach the higher slopes of the OB dump areas.
- 4) The entire area shall be fenced with Chain link fencing/See through wall by the User Agency before handing over of the area.
- 5) Apart from the above CA costs, for taking up Boundary pillars around the proposed CA area, the cost shall be borne by the User Agency.
- 6) All roads passing through the proposed CA area to be closed before handing over the areas.
- 7) If any boundary disputes are exists, they should be settled before handing over the areas to the Forest Department.
- 8) The maintenance cost of the recently raised plantations and to be raised plantations in the proposed CA areas, shall be borne by the User Agency.
- 9) Habitat improvement activities like SMC works, Check walls, RFDs and Solar bore wells and other works shall be taken up in the proposed CA areas with the cost of User Agency.

In view of the above, it is submitted that I have inspected the above OB dump area on 09.02.2022 alongwith District Forest Officer, Peddapally and SCCL Officials and observed that the area is having good vegetation growth covered with native and exotic

### 1531257/2022/PRINCIPAL CHIEF CONSERVATOR OF FORESTS TELANGANA

species. But it is observed that majority of the plants are exotic species like *Leuacaena* leucocaphala and *Prosopis juliflora*. Further I submit that I agree with the proposals of the District Forest Officer, Peddapally and it is recommended for acceptance of non-forest land proposed to an extent of 650.59 Ha. over the rehabilitated overburden dump areas falling in Peddapally forest division, in lieu of diversion of RF areas for proposed for mining at Venkatesh Khani OCP project in Kothagudem Circle, subject to the conditions as mentioned by the District Forest Officer, Peddapally.

This is submitted for favour of kind information and necessary action.

Encl:- 1) Ref. 9th cited,

2) Annexure-I & II,

3) Map & KML file.

Yours faithfully,

Conservator of Forests,

Karimnagar Circle, Karimnagar

			Geo	graphic Co or	dinate	System WGS	84 Datum (U	ΓM 44N)					2	
Sl.No	LATITUDE DECIMAL DEG	LONGITUDE DECIMAL DEG	EASTING (m)	NORTHING (m)	SI.No	LATITUDE DECIMAL DEG	LONGITUDE DECIMAL DEG	EASTING (m)	NORTHING (m)	SI.No	LATITUDE DECIMAL DEG	LONGITUDE DECIMAL DEG	EASTING (m)	NORTHING (m)
1	18.81249691667		339552.5700	2080768.4510	46	18.81055584167		336827.5451	2080577.1570	91	18.80970803611		340133.6127	2080454.7940
2	18.80949344167	79.47431967500	339225.3016	2080438.8200	47	18.80932245833	79.45101454444	336768.7912	2080441.1510	92	18.80887553611	79.48385366667	340229.5883	2080361.8300
3	18.80697587778	79.47257460000	339038.9772	2080161.7640	48	18.80845045278	79.45093272222	336759.3256	2080344.7150	93	18.80822871111	79.48465651111	340313.5967	2080289.5200
4	18.80730808889	79.47115730000	338889.9094	2080199.8170	49	18.80666021111	79.45027373056	336688.1394	2080147.1800	94	18.80757803333	79.48513251944	340363.1536	2080217.0770
5	18.80821923611	79.47026249167	338796.4644	2080301.4720	50	18.80749228056	79.44814005278	336464.0506	2080241.2350	95	18.80698783333	79.48554877778	340406.4703	2080151.3820
6	18.80793956111	79.46925891389	338690.4208	2080271.4290	51	18.80870082222	79.44850625000	336503.8162	2080374.6570	96	18.80326490556	79.48753790556	340612.6174	2079737.5570
7	18.80521193056	79.47035431389	338803.2772	2079968.5490	52	18.80923023889	79.44690802500	336335.8748	2080434.7230	97	18.79884126667	79.49025946667	340895.3173	2079245.5270
8	18.80357109722	79.47290026667	339070.0643	2079784.6390	53	18.81014538333	79.44713125000	336360.2881	2080535.8040	98	18.79653682500	79.49217743333	341095.3170	2078988.7640
9	18.80160057778	79.47112540833	338881.1133	2079568.1560	54	18.81189648611	79.44767802222	336419.6112	2080729.1090	99	18.79610149167	79.49289215556	341170.2448	2078939.9450
10	18.79752239722	79.47406059167	339186.6183	2079114.1380	55	18.81141159722	79.44898266944	336556.6503	2080674.2410	100	18.79447479444	79.49420068889	341306.6479	2078758.7400
11	18.78707876667	79.46272357222	337981.6290	2077968.5630	56	18.81299561111	79.44958671111	336621.8457	2080849.0000	101	18.79311445000	79.49499728889	341389.3411	2078607.4720
12	18.78949986111	79.46006495556	337703.6954	2078238.9470	57	18.81224143056	79.45140076389	336812.3149	2080763.8620	102	18.79235971944	79.49510911944	341400.4220	2078523.8420
13	18.79118843056	79.46103678889	337807.7555	2078424.9460	58	18.81216523056	79.45192917500	336867.9349	2080754.9420	103	18.79204363333	79.49552629444	341444.0999	2078488.4860
14	18.79197933333	79.45985132500	337683.5529	2078513.5630	59	18.81282890278	79.45204147500	336880.4112	2080828.2930	104	18.79159526944	79.49584872500	341477.6672	2078438.5760
15	18.79256631944	79.46003145000	337703.1025	2078578.3650	60	18.81378237222	79.45196996389	336873.7938	2080933.8870	105	18.79093054722	79.49595885000	341488.6532	2078364.9090
16	18.79311482222	79.45991772778	337691.6409	2078639.1750	61	18.81369533333	79.45264359722	336944.7088	2080923.6350	106	18.78972152500	79.49644041667	341538.2836	2078230.6700
17	18.79349386944	79.46000428056	337701.1277	2078681.0480	62	18.81376810000	79.45320567222	337004.0201	2080931.1720	107	18.78851795000	79.49697738056	341593.7594	2078096.9850
18	18.79558558333	79.46104772778	337813.1207	2078911.6010	63	18.81422218056	79.45334437500	337019.0765	2080981.3020	108	18.78796003889	79.49719109167	341615.7652	2078035.0480
19	18.79567078056	79.46088432500	337795.9784	2078921.1790	64	18.81662964444	79.45549273056	337247.8233	2081245.7840	109	18.78724026667	79.49747214167	341644.7181	2077955.1360
20	18.79758555278	79.46195022222	337910.1659	2079132.1290	65	18.81728456111	79.45657025000	337362.0186	2081317.2810	110	18.78628846944	79.49636289167	341526.8995	2077850.7840
21	18.79807940833	79.46146041111	337859.0095	2079187.2340	66	18.81829515556	79.45897660556	337616.6062	2081426.9290	111	18.78650374722	79.49593780278	341482.2913	2077874.9890
22	18.79866189444	79.46215980833	337933.2883	2079251.0640	67	18.81753924167	79.46031045833	337756.4609	2081342.0470	112	18.78651379722	79.49593059722	341481.5411	2077876.1070
23	18.80058222500	79.46332727500	338058.1838	2079462.5370	68	18.81845884167	79.46075124444	337803.7995	2081443.4230	113	18.78705605833	79.49543691944	341430.0091	2077936.5630
24	18.80157949167	79.46258289722	337980.6774	2079573.5900	69	18.81940782778	79.45983872778	337708.5368	2081549.2880	114	18.78599604444	79.49393419722	341270.6106	2077820.5850
25	18.80350380000	79.45969060278	337677.6629	2079789.2070	70	18.82037293333	79.45950301944	337674.0821	2081656.4110	115	18.78525966389	79.49316033333	341188.3451	2077739.7770
26	18.80378967222	79.45863646389	337566.8277	2079821.8100	71	18.82204315278	79.46052459167	337783.3511	2081840.3330	116	18.78640423333	79.49086421111	340947.3780	2077868.5050
27	18.80500740556	79.45913261111	337620.2918	2079956.1320	72	18.82111962222	79.46192159722	337929.6983	2081736.8430	117	18.78803902222	79.48778892778	340624.7424	2078052.1900
28	18.80502166944	79.45880018333	337585.2668	2079958.0140	73	18.82068517222	79.46123998889	337857.4454	2081689.3810	118	18.78937280000	79.48957887222	340814.6771	2078198.2040
29	18.80530963056	79.45826587222	337529.2257	2079990.3730	74	18.81970402222	79.46258816667	337998.5929	2081579.5590	119	18.79072881667	79.49029849444	340891.8071	2078347.6380
30	18.80530251667	79.45777339722	337477.3109	2079990.0370	75	18.81929263611	79.46391629444	338138.1743	2081532.8170	120	18.79132500278	79.48988120556	340848.3810	2078413.9950
31	18.80592884444	79.45662925556	337357.3180	2080060.4040	76	18.81902478611	79.46556500556	338311.6810	2081501.6690	121	18.79171412500	79.48941525000	340799.6307	2078457.4790
32	18.80513441389	79.45576860556	337265.8398	2079973.2660	77	18.81944274167	79.46594418889	338352.0440	2081547.5820	122	18.79261772222	79.48969463333	340829.9297	2078557.2350
33	18.80562086667	79.45495462778	337180.5128	2080027.8520	78	18.81890453333	79.46798318333	338566.4258	2081486.1600	123	18.79338300833	79.48861502222	340716.8491	2078642.9010
34	18.80599420000	79.45381196944	337060.4338	2080070.2190	79	18.81889016389	79.46965631111	338742.7484	2081483.0490	124	18.79469165833	79.48895371667	340753.7812	2078787.4340
35	18.80664652500	79.45263668056	336937.1848	2080143.4950	80	18.81854268333	79.47137775000	338923.8452	2081443.0280	125	18.79595186111	79.49084830278	340954.6687	2078925.2120
36	18.80642204167	79.45187918611	336857.1272	2080119.3450	81	18.81764159444	79.47303581111	339097.7363	2081341.7950	126	18.79795269722	79.48916206111	340778.8095	2079148.1660
37	18.80701555000	79.45182307778	336851.7857	2080185.0850	82	18.81674015278	79.47394245833	339192.4340	2081241.2050	127	18.80012382778	79.48760359167	340616.5826	2079389.8550
38	18.80697354167	79.45242891389	336915.6011	2080179.8790	83	18.81638595278	79.47465555556	339267.2537	2081201.3570	128	18.80205136389	79.48656510556	340508.9383	2079604.1190
39	18.80762968333	79.45308066389	336984.9286	2080251.9010	84	18.81591095278	79.47506513333	339309.9696	2081148.4150	129	18.80427905278	79.48547967222	340396.6314	2079851.6460
40	18.80911617500	79.45325989444	337005.2520	2080416.2580	85	18.81558715556	79.47549762778	339355.2447	2081112.1870	130	18.80701070833	79.48385218333	340227.6708	2080155.4390
41	18.80915239167	79.45333630000	337013.3400	2080420.1960	86	18.81451531944	79.47683519167	339495.1999	2080992.3500	131	18.80835335833	79.48245093611	340081.2484	2080305.2990
42	18.80941892778	79.45331090000	337010.9197	2080449.7190	87	18.81369824167	79.47820796389	339639.1093	2080900.6780	132	18.80994671944	79.48057605278	339885.1451	2080483.3360
43	18.80952556667	79.45314591944	336993.6335	2080461.6730	88	18.81285896389	79.47936906111	339760.6892	2080806.7420	133	18.81114699722	79.47906205833	339726.7099	2080617.5440
44	18.81078574167	79.45321388611	337002.0115	2080601.0840	89	18.81120330556	79.48116752222	339948.6741	2080621.8780	134	18.81249691667	79.47739769167	339552.5700	2080768.4510
45	18.81075811389	79.45176351944	336849.1178	2080599.3580	90	18.80993423333	79.48291090000	340131.2223	2080479.8510					

