

Owner: Karnataka Power Transmission Corporation Limited.

Client: M/s. Resources Concentrates Private Limited, Somalapura.  
(Formerly known as M/s. Karnataka Ferro Concentrates Private Limited, Sandur),

Surveyors: M/s. B R Associates, Bengaluru.

Project Title: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay at Existing 220 / 66 / 11 kV KPTCL Kudligi S/S situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220 / 11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**COMPARISON STATEMENT :**

Bee-Line Length : 24.452 km

Sl. No.	Descriptions	Route-1	Route-2	Route-3
1	Route Particulars			
1-a	Line Length	27.900 km	28.605 km	28.267 km
1-b	i) Plain Terrain	More	Less	Less
	ii) Hilly Terrain	Less	More	More
2	Environmental Impact			
2-a	Habitats	The Line is Routed avoiding Habitats.	The Line is Routed Close to Habitats	The Line is Routed avoiding Habitats.
2-b	Houses/ Building within R-O-W.	ROW is free from Houses & other Obligatory Points.	Major R-O-W Problems	Major R-O-W Problems



2-c	Tree/Crop and its extent of Damage	Damage to Crops in Wet/Dry Cultivation Area is unavoidable during Cultivation Season. The Scattered Trees of different variety (Fruit & Non-fruit Bearing) lie in Private Land in this Alignment. Some Jungle Bushes encountered along the Route which are unavoidable. Commercial Crops and Tree damages shall be less in this alignment - Less	Damage to Crops in Wet/Dry Cultivation Area is unavoidable during Cultivation Season. The Scattered Trees of different variety (Fruit & Non-fruit Bearing) lie in Private Land in this Alignment. Some Jungle Bushes encountered along the Route which are unavoidable. Commercial Crops and Tree damages shall be less in this alignment - More	Damage to Crops in Wet/Dry Cultivation Area is unavoidable during Cultivation Season. The Scattered Trees of different variety (Fruit & Non-fruit Bearing) lie in Private Land in this Alignment. Jungle Bushes encountered along the Route which are unavoidable. Commercial Crops and Tree damages shall be less in this Alignment. - More
2-d	Endangered Species if any	-Nil-	-Nil-	-Nil-
2-e	Historical / Cultural Monuments	-Nil-	-Nil-	-Nil-
2-f	Tribal Areas if any	-Nil-	-Nil-	-Nil-
2-g	Major River Crossing	-Nil-	-Nil-	-Nil-
3	Compensation Cost	Crop Compensation is required to be paid during Cultivation Season. The Tree Compensation would be required where Tree Cutting is envisaged involving some fruit bearing Trees, etc. - Less	Crop Compensation is required to be paid during Cultivation Season. The Tree Compensation would be required where Tree Cutting is envisaged involving some fruit bearing Trees, etc. - More	Crop Compensation is required to be paid during Cultivation Season. The Tree Compensation would be required where Tree Cutting is envisaged involving some fruit bearing Trees, etc. - More



4	Construction Problems	Minimum	Medium	Maximum
5	O & M Problems	Minimum	Medium	Maximum
6	Angle Points	40	28	27
7	Forest (RF)	5.1835 Hectare	9.681 Hectare	9.681 Hectare
8	Transportation & Maintenance	Easy	Difficult	Strenuous
9	Power Line Crossing	1 No. 765 kV Line, 5 No. 66 kV Line.	1 No. 765 kV Line, 1 No. 220 kV Line, 5 No. 66 kV Line.	1 No. 765 kV Line, 1 No. 220 kV Line, 3 No. 66 kV Line.
10	Major Road Crossings	Less	High	More
11	Railway Crossings	1 No SWR BG Railway Track	1 No SWR BG Railway Track	1 No SWR BG Railway Track
12	Pollution	Least	More	More
13	Marshy Areas	Less	High	More
14	Special Towers (FDN)	Medium	Medium	Maximum
15	Major Cities	Unavoidable - Less	Unavoidable - Less	Unavoidable - More
16	Densely Populated Areas	Minimum	Medium	Minimum
17	Proximity to Air Ports (Nearest)	Vidyanagar Airport : 28 km (Aerial Distance - 21.961 km)	Vidyanagar Airport : 28 km (Aerial Distance - 21.961 km)	Vidyanagar Airport : 28 km (Aerial Distance - 21.961 km)
18	Proximity of Bird Sanctuary Areas	Nil	Nil	Nil
19	Defence Areas (Military Areas)	Nil	Nil	Nil



20	NH & SH Crossings	1 No. National Highway 1 No. State Highway	1 No. National Highway 3 No. State Highway	1 No. National Highway 2 No. State Highway
21	Wild Life Sanctuaries	Nil	Nil	Nil
22	Coal Belt Areas	Nil	Nil	Nil
23	Dismantling of Towers/Gantry Structures	Nil	Nil	Nil

### ADVANTAGES OF ROUTE - 1:

Comparatively Advantage of this Route - 1 as follows

- Lesser Right-Of-Way as Agricultural Land Encountered is More.
- Lesser Route Length Hence Saving in Procurement Cost.
- Line will Pass-away from Habitats.
- Closer to Approach Roads hence Easy to Construction & Maintenance.
- Reserved Forest Encountered is Lesser.

### CONCLUSION:

**\*\*\* As Route-1 is Recommended as Most Techno-Economical & Safe for Construction & Maintenance \*\*\***



K. Ramababu



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 Surveyors: M/s. B.R. Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Route Alignment Schedule for Proposed Route-1.**

Bee Line Length : 24.452 km						Route-1 Length : 27.900 km		
Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
Bay	00°00'00"	GS		0	645903	1643545	Survey Commenced from Proposed-Bay of Existing 220/66/11 kV Kudligi S/S Situated at Badeladaku Village Limits.	Badeladaku
AP-01	90°00'00" L	DD+0	50	50	645854	1643554	KPTCL S/S Yard Area/Security Fencing.	Badeladaku
AP-02	09°24'55" L	DD+0	50	100	645844	1643505	3rd Cross-Arm Tower	Badeladaku
AP-03	53°46'45" L	DD+0	175	275	645830	1643315	-	Badeladaku
AP-04	37°30'59" L	NBT DD+6	101	376	645910	1643254	-	Badeladaku
			195				BMRCCL Type L&T Design Tower.	Badeladaku
AP-05	17°37'53" L	NBT DD+6		571	646101	1643248	Existing (MSD Line) 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL S/S at Ujani. Crossing in between 217 'DD' Type & 218 'DA' Type Towers and at an Angle of Crossing 74°27'12".	Badeladaku
			200				BMRCCL Type L&T Design Tower.	Badeladaku
AP-06	21°52'49" L	DC+3		771	646293	1643305	Tar Road Connecting Badeladaku Village with Tuppanahatti Village.	Badeladaku
AP-07	15°41'42" R	DC+3	586	1357	646752	1643669	Halla Crossing Twice.	Badeladaku
AP-08	14°15'30" R	DC+3	614	1971	647318	1643906	Halla Crossing Twice, Hanuman & Ram Temple on RHS.	Badeladaku
AP-09	37°21'44" L	DD+3	537	2508	647849	1643985	Tamarind Garden on LHS & Coconut Garden on RHS.	Badeladaku
								Badeladaku

Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
			197					
AP-10	25°05'34" L	NBT DD-7.5		2705	647985	1644126	BMRCL Type L&T Design Tower.	Badeladaku
			196				Existing 765 kV D/C Line from Existing 3 X 800 MW Narendra (New) NTPC G/S situated at Kudgi to Existing 765/400 kV PGCIL Maghugiri S/S situated at Vasanthanarasapura Crossing in between 460 'DC' Type & 461 'DA' Type Towers and at an Angle of Crossing 74°27'12".	
AP-11	19°41'37" L	NBT DD-7.5		2901	648050	1644312	BMRCL Type L&T Design Tower.	Badeladaku
			469				Mango & Coconut Garden on RHS.	
AP-12	44°19'35" R	DD+3		3370	648045	1644780		Badeladaku
			474					
AP-13	16°25'51" R	DC+6		3844	648372	1645122		Badeladaku
			523					Badeladaku/ Kudligi
AP-14	16°34'39" R	DC+0		4367	648825	1645382		Kudligi
			375				Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Banivikallu S/S Crossing in between 11 'DA' Type & 12 'DB' Type Towers and at an Angle of Crossing 76°21'11".	
AP-15	20°35'46" L	NBT DD+9		4742	649189	1645468	BMRCL Type L&T Design Tower.	Kudligi
			1580				NH-50 Connecting NH-161 (Nanded) Kudligi Town with NH-48 (Lakshmisagar) Marabanhalli Cross, Crossing at NHAI Chainage 341+511 km and at an Angle of Crossing 87°48'46".	Kudligi/ Ammanakeri
AP-16	27°53'50" L	NBT DD+0		6322	650499	1646350	BMRCL Type L&T Design Tower.	Ammanakeri
			874					Ammanakeri/ Kudligi
AP-17	31°17'31" L	NBT DD+9		7196	650882	1647109	BMRCL Type L&T Design Tower.	Kudligi
			169				Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Gudekote S/S Crossing in between 13 'SA' Type & 14 'SA' Type Towers & at an Angle of Crossing 86°42'58" and Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Chorhanuru S/S Crossing in between 13 'DC' Type & 14 'DC' Type Towers & at an Angle of Crossing 63°51'25".	

Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
AP-18	05°27'11" L	NBT DD+9		7365	650910	1647289	BMRCL Type L&T Design Tower.	Kudligi
			521					
AP-19	20°34'44" R	DC+6		7886	650922	1647809		Kudligi
			612				KA SH-2 Connecting (Ekkambi) Kudligi Town with (Molakalmuru) Gollarahatti Village, And at Angle of Crossing 86°06'16" and Major District Road Connecting Kudligi Town with Amaradevaragudda Village.	
AP-20	32°30'34" R	DD+3		8498	651155	1648371		Kudligi/ Amaradevaragudda
			865					
AP-21	03°43'46" R	DB+0		9363	651867	1648862		Amaradevaragudda
			435					
AP-22	13°22'24" R	DB+0		9798	652240	1649085		Amaradevaragudda
			1588					Amaradevaragudda/ Gundinahole
AP-23	10°05'00" R	DB+3		11386	653754	1649563		Gundinahole
			1207					
AP-24	15°50'30" L	DC+0		12593	654950	1649714		Gundinahole
			420				Tank Bund with Tank.	
AP-25	41°30'52" L	DD+0		13013	655338	1649882		Gundinahole
			929				Seed Farm on RHS.	
AP-26	44°48'39" R	DD+0		13942	655733	1650726		Gundinahole
			788				Tar Road Connecting Huchchanayyanahalli Village with Amaradevaragudda-Sovenahalli Village Main Road.	Gundinahole/ Hire Kereyaginahalli
AP-27	12°16'30" R	DB+0		14730	656476	1650993		Hire Kereyaginahalli
			1370				Tar Road Connecting Huchchanayyanahalli Village with Amaradevaragudda-Sovenahalli Village Main Road.	
AP-28	24°49'18" L	DC+3		16100	657829	1651178		Hire Kereyaginahalli
			619					Hire Kereyaginahalli/ Sovenahalli
AP-29	19°42'58" L	DC+3		16719	658349	1651514		Sovenahalli
			1592				Tar Road Connecting Hire Kereyaginahalli Village with Amaradevaragudda-Sovenahalli Village Main Road and Tar Road Connecting Hire Kereyaginahalli Village with Kalingeri Village.	Sovenahalli/ Kalingeri

Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
AP-30	10°05'05" R	DB+3		18311	659317	1652778		Kalingeri
			1680				Existing 66 kV S/C Line on D/C Towers from Existing 20 MW M/a. ACME Sandur Solar Energy Pvt. Ltd.'s 66/11 kV Switchyard S/S at Hire Kereyaginahalli to Existing 66/11 kV KPTCL Chorannuru S/S Crossing in between 24 'DA' Type & 25 'DB' Type Towers & at an Angle of Crossing 65°50'28" and Tar Road Connecting Bandri Village with Kalingeri Village.	
AP-31	19°46'29" R	DC+3		19991	660557	1653913		Kalingeri
			256				Quarry and Crushing Plants on LHS.	
AP-32	25°56'25" L	DC+0		20247	660793	1654012		Kalingeri
			130				Quarry and Crushing Plants on LHS.	
AP-33	31°31'46" L	DD+3		20377	660879	1654109		Kalingeri
			2428				Quarry and Crushing Plants on LHS.	
AP-34	01°02'13" R	DB+0		22805	661293	1656501		Kalingeri
			1775				Tar Road Connecting Bandri-Somalapura SH-40 with Ankamanahalu Village.	Kalingeri/ Ankamanahalu
AP-35	11°39'51" R	DB+0		24580	661625	1658233		Ankamanahalu
			1346				Parallel to Existing South Western Railway's Hosapete-Swamihalli Section Broad-Gauge Single Track on RHS, Nari Halla.	
AP-36	11°16'57" R	DB+0		25926	662140	1659475		Ankamanahalu
			239					
AP-37	40°48'54" R	NBT DD+6		26165	662276	1659682	BMRCCL Type L&T Design	Ankamanahalu
			130				Existing South Western Railway's Hosapete-Swamihalli Section Broad-Gauge Single Track, Crossing at SWR Chainage 24.621 km & at an Angle of Crossing 90°00'00".	
AP-38	21°33'42" L	NBT DD+6		26295	662401	1659716	BMRCCL Type L&T Design	Ankamanahalu
			161				Tar Road Connecting Yeshvantnagara Village with Ankamanahalu Village, Somalapura Reserved Forest Start. [93 m Route Length & 3255 m <sup>2</sup> = 0 Acre 32 Gunta]	
AP-39	42°29'44" L	DD+0		26456	662533	1659807		Ankamanahalu



Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
			1412				Earthen Road Connecting Yeshvantnagara-Ankamanahalu Tar Road with Iron Ore/Manganese Mines, <b>Somalapura Reserved Forest End.</b> [1388 m Route Length & 48580 m <sup>2</sup> = 12 Acre 0 Gunta] M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant Premises Boundary Compound Wall Cum 220/11 kV Switchyard S/S Area Fence.	Ankamanahalu/ Somalapura
AP-40	15°19'53" L	DD+0		27868	662795	1661194		Somalapura
			32				M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant Internal Road, 220/11 kV Switchyard S/S Security Fence.	
Gantry	00°00'00"	GS		27900	662795	1661224	Survey Concluded to Proposed Gantry at M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant 220/11 kV Switchyard S/S.	Somalapura

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**Major Forest Crossing Details for Proposed Route-1.**

Serial No.	Crossing in Between AP	Name of the Forest	Type of Forest Reserved / Social	Length of Forest Stretch in m	Total Area Encountered	Name of Forest Division	Nearest Village/Town
1	AP-38 to AP-39	Somalapura Reseved Forest	Reserved	93	3255 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.
2	AP-39 to AP-40	Somalapura Reseved Forest	Reserved	1388	48580 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.
Total RF Area Encountered in Words = 12 Acre 81 Cents   12 Acre 32 Guntas   5.1835 Hectares =					51835 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.

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**River Crossing Details for Proposed Route-1.**

Serial No.	Crossing in Between AP	River Name	Perennial / Non-Perennial	Tributory / Sub-Tributory	Rapid / Stagnant	Navigable / Non- Navigable	Easting	Northing	Nearest Village/Town
Nil.									

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**Railway Crossing Details for Proposed Route-1.**

Serial No.	Crossing in between AP No.	Zone of Railway	Narrow / Meter / Broad Gauge	Name of Crossing Railway Station / Junction	Railway Crossing Chainage	Railway Crossing Angle	Single Track/ Multiple Track	Electrified/ Non-Electrified.	Crossing in Between		Nearest Village/Town
									Easting	Northing	
1	AP-37 and AP-38	South Western Railway	Broad Gauge	Hosapete-Swamihalli Section	24.621 km	90°00'00".	Single Track	Non-Electrified	662336	1659720	Ankamanahalu
									662356	1659622	

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**Major Power Line Crossing Details for Proposed Route-1.**

Serial No.	Crossing in between AP No.	Name of Transmission Line	Voltage Ratings in kV	Tower No. & Type.	Easting	Northing	Nearest Village/Town
1	AP-04 and AP-05	Existing (MSD Line) 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL S/S at Ujjini. Crossing in between 217 'DD' Type & 218 'DA' Type Towers and at an Angle of Crossing 74°27'12".	66 kV	TN-217 "DD"	646067	1643370	Badeladaku
				TN-218 "DA"	646004	1643170	
2	AP-10 and AP-11	Existing 765 kV D/C Line from Existing 3 X 800 MW Narendra (New) NTPC G/S situated at Kudgi to Existing 765/400 kV PGCIL Maghugiri S/S situated at Vasanthanarasapura Crossing in between 460 'DC' Type & 461 'DA' Type Towers and at an Angle of Crossing 72°21'52".	765 kV	TN-460 "DC"	647772	1644430	Badeladaku
				TN-461 "DA"	648076	1644204	
3	AP-14 and AP-15	Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Banivikallu S/S Crossing in between 11 'DA' Type & 12 'DB' Type Towers and at an Angle of Crossing 76°21'11".	66 kV	TN-11 "DA"	649088	1645566	Kudligi
				TN-12 "DB"	649200	1645349	
4	AP-17 and AP-18	Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Gudekote S/S Crossing in between 13 'SA' Type & 14 'SA' Type Towers & at an Angle of Crossing 86°42'58"	66 kV	TN-13 "SA"	650862	1647149	Kudligi
				TN-14 "SA"	651106	1647177	
5	AP-17 and AP-18	Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Choranuru S/S Crossing in between 13 'DC' Type & 14 'DC' Type Towers & at an Angle of Crossing 63°51'25".	66 kV	TN-13 "DC"	650870	1647228	Kudligi
				TN-14 "DC"	651113	1647368	
6	AP-30 and AP-31	Existing 66 kV S/C Line on D/C Towers from Existing 20 MW M/s. ACME Sandur Solar Energy Pvt. Ltd.'s 66/11 kV Switchyard S/S at Hire Kereyaginahalli to Existing 66/11 kV KPTCL Choranuru S/S Crossing in between 24 'DA' Type & 25 'DB' Type Towers & at an Angle of Crossing 65°50'28".	66 kV	TN-24 "DA"	659416	1653015	Kalingeri
				TN-25 "DB"	659649	1652915	

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Owner: Karnataka Power Transmission Corporation Limited.  
Client: M/s. Resources Concentrates Private Limited, Somalapura.  
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Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Major Road/Highway Crossing Details for Proposed Route-1.**

Serial No.	Crossing in between AP No.	Name of The Road	Type of Road & No.	Easting	Northing	Nearest Village/Town
1	AP-15and AP-16	NH-50 Connecting NH-161 (Nanded) Kudligi Town with NH-48 (Lakshmisagar) Marabanhalli Cross, Crossing at NHAI Chainage 341+511 km and at an Angle of Crossing 87°48'46".	NH-50	650399	1646398	Kudligi
				650489	1646285	
2	AP-19 and AP-20	KA SH-2 Connecting (Ekkambi) Kudligi Town with (Molakalmuru) Gollarahatti Village, And at Angle of Crossing 86°06'16".	KA SH-02	650846	1647883	Kudligi
				651010	1647826	

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Owner: Karnataka Power Transmission Corporation Limited.  
Client: M/s. Resources Concentrates Private Limited. Somalapura.  
Surveyors: M/s. B R Associates. Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited. Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District. under Self-Execution-Basis.

**Route Allignment Schedule for Proposed Route-2.**

Bee Line Length : 24.452 km						Route-1 Length : 28.605 km		
Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
Bay	00°00'00"	GS		0	645903	1643545	Survey Commenced from Proposed-Bay of Existing 220/66/11 kV Kudligi S/S Situated at Badeladaku Village Limits.	Badeladaku
			195				KPTCL S/S Yard Area/Security Fencing.	
AP-01	31°02'55" R	DD+0		195	645710	1643572		Badeladaku
			687				Halla.	
AP-02	66°53'53" R	DD+0		882	645176	1644004	3rd Cross-Arm Tower.	Badeladaku
			696				Existing 220 kV D/C Line from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 220/66/11 kV Itgi S/S Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°58'27", Existing 66 kV S/C Line on D/C Towers from Existing 20 MW M/s. ACME Kudligi Solar Energy Pvt. Ltd.'s 66/11 kV Switchyard S/S at Gajapura to Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°11'19" and Tar Road Connecting Badeladaku Village with Akkapura Village.	
AP-03	50°47'39" R	DD+0		1578	645366	1644673		Badeladaku
			1187				Tar Road Connecting Badeladaku Village with Gollaranaduvalahatti Village.	Badeladaku/ Kuppanakeri
AP-04	24°18'05" R	NBT DD+25		2765	646456	1645142	BMRCCL Type L&T Design Tower.	Kuppanakeri

Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
			896				Existing (MSD Line) 66 kV M/C Line from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL S/S at Choranuru (LHS BC-1), Existing 66/11 kV KPTCL S/S at Kudligi (LHS UC-2), Existing 66/11 kV KPTCL S/S at Banivikallu (RHS LC-3), Existing 66/11 kV KPTCL S/S at Gudekote (RHS UC-4). Crossing in between 10 'MA' Type & 11 'MA' Type Towers and at an Angle of Crossing 70°26'56" and Tar Road Connecting Badeladaku Village with Kudligi Town.	Kuppanakeri/ Badeladaku
AP-05	27°48'58" L	DD+0		3661	647351	1645127		Badeladaku
			120				Existing 765 kV D/C Line from Existing 3 X 800 MW Narendra (New) NTPC G/S situated at Kudgi to Existing 765/400 kV PGCIL Maghugiri S/S situated at Vasanthanarasapura Crossing in between 458 'DA' Type & 459 'DA' Type Towers and at an Angle of Crossing 90°27'12".	
AP-06	02°46'11" R	DD+0		3781	647458	1645181		Badeladaku
			1555					Badeladaku/ Kudligi
AP-07	03°07'53" L	NBT DD+25		5336	648877	1645615	BMRCCL Type L&T Design Tower.	Kudligi
			150				Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Banivikallu S/S Crossing in between 09 'DA' Type & 10 'DA' Type Towers and at an Angle of Crossing 90°00'00".	
AP-08	09°47'04" R	NBT DD+25		5486	649010	1645883	BMRCCL Type L&T Design Tower.	Kudligi
			1561				NH-50 Connecting NH-161 (Nanded) Kudligi Town with NH-48 (Lakshmisagar) Marabhanalli Cross, Crossing at NHAI Chainage 341+488 km and at an Angle of Crossing 68°05'38".	Kudligi/ Ammanakeri
AP-09	45°49'05" L	NBT DD+9		7047	650499	1646350	BMRCCL Type L&T Design Tower.	Ammanakeri
			874				-	Ammanakeri/ Kudligi.
AP-10	31°17'31" L	NBT DD+9		7921	650882	1647109	BMRCCL Type L&T Design Tower.	Kudligi
			169				Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Gudekote S/S Crossing in between 13 'SA' Type & 14 'SA' Type Towers & at an Angle of Crossing 86°42'58" and Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Choranuru S/S Crossing in between 13 'DC' Type & 14 'DC' Type Towers & at an Angle of Crossing 63°51'25".	



Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
AP-11	05°27'11" L	NBT DD+9		8090	650910	1647289	BMREL Type L&T Design Tower.	Kudligi
			521					
AP-12	20°34'44" R	DC+6		8611	650922	1647809		Kudligi
			612				KA SH-2 Connecting (Ekkambi) Kudligi Town with (Molakalmuru) Gollarahatti Village, And at Angle of Crossing 86°06'16" and Major District Road Connecting Kudligi Town with Amaradevaragudda Village.	
AP-13	18°49'14" L	DC+3		9223	651155	1648371		Kudligi/ Amaradevaragudda
			2096				2 No. Halla.	
AP-14	29°49'26" L	DD+6		11319	651290	1650462		Amaradevaragudda
			161				KA SH-40 Connecting (Mylara) Govindagiri Village with (Thoranagalli) Sriramachettihalli Village, And at Angle of Crossing 86°11'44".	
AP-15	40°04'06" R	DD+6		11480	651220	1650606		Amaradevaragudda
			1174				Hilly Undulated Boulderred & Sheet Rock Area.	Amaradevaragudda / Chikka Kereyaginahalli
AP-16	11°03'22" R	DD+3		12654	651502	1651745		Chikka Kereyaginahalli
			1042					
AP-17	06°50'03" R	DB+0		13696	651942	1652689		Chikka Kereyaginahalli
			2358				Earthen Road Connecting Sriramachettihalli Village with Chikka Kereyaginahalli-Sivapura Villages Main Tar Road, Tar Road Connecting KA SH-40 with Chikka Kereyaginahalli Village and Hilly Undulated Boulderred & Sheet Rock Area.	
AP-18	23°29'42" R	DC+0		16054	653186	1654691		Chikka Kereyaginahalli
			320				Tar Road Connecting Hire Kereyaginahalli Village with Chikka Kereyaginahalli Village, Halla.	
AP-19	54°21'12" R	DD+6		16374	653449	1654874		Chikka Kereyaginahalli
			258				Halla, KA SH-40 Connecting (Mylara) Kereyaginahalli Cross with (Thoranagalli) Jogikallu Cross, And at Angle of Crossing 70°42'06".	
AP-20	40°49'06" L	DD+6		16632	653692	1654787		Chikka Kereyaginahalli
			2176				Kereyaginahalli Reserved Forest [1285 m Route Length & 44975 m <sup>2</sup> -11 Acre 5 Gunta] and Tar Road Connecting KA SH-40 at Jogikallu Cross with Jogikallu Village.	Chikka Kereyaginahalli/ Hire Kereyaginahalli
AP-21	01°23'21" L	DB+0		18808	653722	1655572		Hire Kereyaginahalli
			1798				Tar Road Connecting Bandri Village with Kalingeri Village, Hilly Undulated Boulderred & Sheet Rock Area.	Hire Kereyaginahalli/ Bandri
AP-22	02°24'37" L	DB+0		20606	657383	1656261		Bandri
			4679				2 No. Halla, Hilly Undulated Boulderred & Sheet Rock Area.	Bandri/ Ankamanahalu

Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
AP-23	42°32'30" L	DD+0		25285	661625	1658233		Ankamanahalu
			1346				Parallel to Existing South Western Railway's Hosapete-Swamihalli Section Broad-Guage Single Track on RHS, Nari Halla.	
AP-24	11°16'57" R	DB+0		26631	662140	1659475		Ankamanahalu
			239					
AP-25	40°48'54" R	NBT DD+6		26870	662276	1659682	BMRCCL Type L&T Design	Ankamanahalu
			130				Existing South Western Railway's Hosapete-Swamihalli Section Broad-Guage Single Track, Crossing at SWR Chainage 24.621 km & at an Angle of Crossing 90°00'00".	
AP-26	21°33'42" L	NBT DD+6		27000	662401	1659716	BMRCCL Type L&T Design	Ankamanahalu
			161				Tar Road Connecting Yeshvantnagara Village with Ankamanahalu Village, Somalapura Reserved Forest Start.	
AP-27	42°29'44" L	DD+0		27161	662533	1659807	[93 m Route Length & 3255 m <sup>2</sup> = 0 Acre 32 Gunta]	Ankamanahalu
			1412				Earthen Road Connecting Yeshvantnagara-Ankamanahalu Tar Road with Iron Ore/Manganese Mines, Somalapura Reserved Forest End.	Ankamanahalu/ Somalapura.
							[1388 m Route Length & 48580 m <sup>2</sup> = 12 Acre 0 Gunta] M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant Premises Boundary Compound Wall Cum 220/11 kV Switchyard S/S Area Fence.	
AP-28	15°19'53" L	DD+0		28573	662795	1661194		Somalapura
			32				M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant Internal Road, 220/11 kV Switchyard S/S Security Fence.	
Gantry	00°00'00"	GS		28605	662795	1661224	Survey Concluded to Proposed Gantry at M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant 220/11 kV Switchyard S/S.	Somalapura.

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Owner: Karnataka Power Transmission Corporation Limited.  
 Client: M/s. Resources Concentrates Private Limited, Somalapura.  
 Surveyors: M/s. B R Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Major Forest Crossing Details for Proposed Route-2.**

Serial No.	Crossing in Between AP	Name of the Forest	Type of Forest Reserved / Social	Length of Forest Stretch in m	Total Area Encountered	Name of Forest Division	Nearest Village/Town
1	AP-20 to AP-21	Kereyaginahalli Reseved Forest	Reserved	1285	44975 m <sup>2</sup>	Kudligi Division	Chikka Kereyaginahalli, Jogikallu, Hire Kereyaginahalli.
2	AP-26 to AP-27	Somalapura Reseved Forest	Reserved	93	3255 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.
3	AP-27 to AP-28	Somalapura Reseved Forest	Reserved	1388	48580 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.
Total RF Area Encountered in Words = 23 Acre 92 Cents   23 Acre 37 Guntas   9.681 Hectares =					96810 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.

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Client: M/s. Resources Concentrates Private Limited, Somalapura.  
Surveyors: M/s. B R Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**River Crossing Details for Proposed Route-2.**

Serial No.	Crossing in Between AP	River Name	Perennial / Non-Perennial	Tributary / Sub-Tributary	Rapid / Stagnant	Navigable / Non-Navigable	Easting	Northing	Nearest Village/Town
Nil.									

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Owner: Karnataka Power Transmission Corporation Limited.  
 Client: M/s. Resources Concentrates Private Limited, Somalapura.  
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Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District. under Self-Execution-Basis.

**Railway Crossing Details for Proposed Route-2.**

Serial No.	Crossing in between AP No.	Zone of Railway	Narrow / Meter / Broad Gauge	Name of Crossing Railway Station / Junction	Railway Crossing Chainage	Railway Crossing Angle	Single Track/ Multiple Track	Electrified/ Non-Electrified.	Crossing in Between		Nearest Village/Town
									Easting	Northing	
1	AP-25 and AP-26	South Western Railway	Broad Gauge	Hosapete-Swamihalli Section	25.612 km	90°00'00".	Single Track	Non-Electrified	662336	1659720	Ankamanahalu
									662356	1659622	

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Owner: Karnataka Power Transmission Corporation Limited.  
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Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Major Power Line Crossing Details for Proposed Route-2.**

Serial No.	Crossing in between AP No.	Name of Transmission Line	Voltage Ratings in kV	Tower No. & Type.	Easting	Northing	Nearest Village/Town
1	AP-02 and AP-03	Existing 220 kV D/C Line from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 220/66/11 kV Itgi S/S Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°58'27".	220 kV	TN-04 "DA"	645074	1644306	Badeladaku
				TN-05 "DA"	645233	1644183	
2	AP-02 and AP-03	Existing 66 kV S/C Line on D/C Towers from Existing 20 MW M/s. ACME Kudligi Solar Energy Pvt. Ltd.'s 66/11 kV Switchyard S/S at Gajapura to Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°11'19".	66 kV	TN-04 "DA"	645102	1644339	Badeladaku
				TN-05 "DA"	645360	1644132	
3	AP-05 and AP-06	Existing 765 kV D/C Line from Existing 3 X 800 MW Narendra (New) NTPC G/S situated at Kudgi to Existing 765/400 kV PGCIL Maghugiri S/S situated at Vasanthanarasapura Crossing in between 460 'DC' Type & 461 'DA' Type Towers and at an Angle of Crossing 90°27'12".	765 kV	TN-458 "DA"	647379	1645186	Badeladaku
				TN-459 "DA"	647591	1644773	
4	AP-07 and AP-08	Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Banivikallu S/S Crossing in between 09 'DA' Type & 10 'DA' Type Towers and at an Angle of Crossing 90°00'00".	66 kV	TN-09 "DA"	648894	1645945	Kudligi
				TN-10 "DA"	648993	1645753	
5	AP-10 and AP-11	Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Gudekote S/S Crossing in between 13 'SA' Type & 14 'SA' Type Towers & at an Angle of Crossing 86°42'58" and	66 kV	TN-13 "SA"	650862	1647149	Kudligi
				TN-14 "SA"	651106	1647177	
6	AP-10 and AP-11	Existing 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 66/11 kV KPTCL Choranuru S/S Crossing in between 13 'DC' Type & 14 'DC' Type Towers & at an Angle of Crossing 63°51'25".	66 kV	TN-24 "DC"	650870	1647228	Kudligi
				TN-25 "DC"	651113	1647368	

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Owner: Karnataka Power Transmission Corporation Limited.  
 Client: M/s. Resources Concentrates Private Limited, Somalapura.  
 Surveyors: M/s. B R Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Major Road/Highway Crossing Details for Proposed Route-2.**

Serial No.	Crossing in between AP No.	Name of The Road	Type of Road & No.	Easting	Northing	Nearest Village/Town
1	AP-08 and AP-09	NH-50 Connecting NH-161 (Nanded) Kudligi Town with NH-48 (Lakshmisagar) Marabanhalli Cross, Crossing at NHA1 Chainage 341+488 km and at an Angle of Crossing 68°05'38".	NH-50	650399	1646398	Kudligi
				650489	1646285	
2	AP-12 and AP-13	KA SH-2 Connecting (Ekkambli) Kudligi Town with (Molakalmuru) Gollarahatti Village, And at Angle of Crossing 86°06'16".	KA SH-02	650846	1647883	Kudligi
				651010	1647826	
3	AP-14 and AP-15	KA SH-40 Connecting (Mylara) Govindagiri Village with (Thoranagallu) Sriramachettihalli Village, And at Angle of Crossing 86°11'44".	KA SH-40	651160	1650501	Amaradevara-gudda
				651330	1650602	
4	AP-19 and AP-20	KA SH-40 Connecting (Mylara) Kereyaginahalli Cross with (Thoranagallu) Jogikallu Cross, And at Angle of Crossing 70°42'06".	KA SH-40	653537	1654736	Chikka Kereyaginahalli
				653676	1654899	

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Owner: Karnataka Power Transmission Corporation Limited.  
 Client: M/s. Resources Concentrates Private Limited, Somalapura.  
 Surveyors: M/s. B.R. Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Route Alignment Schedule for Proposed Route-3.**

Bee Line Length : 24.452 km						Route-1 Length : 28.267 km		
Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
Bay	00°00'00"	GS		0	645903	1643545	Survey Commenced from Proposed-Bay of Existing 220/66/11 kV Kudligi S/S Situated at Badeladaku Village Limits.	Badeladaku
			195					
AP-01	31°02'53" R	DD+0		195	645710	1643572	KPTCL S/S Yard Area/Security Fencing.	Badeladaku
			687					
AP-02	66°53'53" R	DD+0		882	645176	1644004	Halla.	
							3rd Cross-Arm Tower.	Badeladaku
			696				Existing 220 kV D/C Line from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 220/66/11 kV Itgi S/S Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°58'27", Existing 66 kV S/C Line on D/C Towers from Existing 20 MW M/s. ACME Kudligi Solar Energy Pvt. Ltd.'s 66/11 kV Switchyard S/S at Gajapura to Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°11'19" and Tar Road Connecting Badeladaku Village with Akkapura Village.	
AP-03	31°26'10" L	DD+0		1578	645366	1644673		Badeladaku
			2401					Badeladaku/
AP-04	37°58'01" R	DD+0		3979	644723	1646986		Kuppanakeri
			809				KA SH-2 Connecting (Ekkambi) Bommanahalli Village with (Molakalmuru) Korcharahatti (Battinahalli) Cross And at Angle of Crossing 66°16'45".	
AP-05	29°12'52" R	DC+0		4788	645031	1647734		Kuppanakeri
			888				Tar Road Connecting Bommanahalli Village with Sasalavade Village & Tar Road Connecting Bommanahalli Village with Kuppanakeri Village.	



Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
AP-06	12°14'29" R	DD+0		5676	645727	1648285		Kuppanakeri
			121				Existing 765 kV D/C Line from Existing 3 X 800 MW Narendra (New) NTPC G/S situated at Kudgi to Existing 765/400 kV PGCIL Maghugiri S/S situated at Vasanthanarasapura Crossing in between 450 'DA' Type & 451 'DA' Type Towers and at an Angle of Crossing 74°27'12".	
AP-07	10°15'33" L	DD+0		5797	645835	1648338		Kuppanakeri
			455					
AP-08	51°05'21" L	DD+0		6252	646201	1648607		Kuppanakeri
			151				Existing 66 kV D/C Line from Existing 220/66/11 kV KPTCL Itgi S/S to Existing 66/11 kV KPTCL KPTCL Kudligi S/S Crossing in between 10 'DA' Type & 11 'DA' Type Towers and at an Angle of Crossing 70°00'00".	
AP-09	42°51'42" R	DD+0		6403	646208	1648757		Kuppanakeri
			1360					
AP-10	23°39'58" R	NBT DD+12		7763	647635	1649888	BMRCCL Type L&T Design Tower.	Kuppanakeri
			492				Existing (MSD Line) 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Munirabad PH S/S to Existing 66/11 kV KPTCL Kudligi S/S Crossing in between 11 'DA' Type & 12 'DA' Type Towers and at an Angle of Crossing 80°30'07".	Kuppanakeri/ Kudligi
AP-11	08°29'40" L	NBT DD+6		8255	647635	1649888	BMRCCL Type L&T Design Tower.	Kudligi
			202				NH-50 Connecting NH-161 (Nanded) Kaivalyapura Village with NH-48 (Lakshmisagar) Kudligi Town, Crossing at NHAI Chainage 336+250 km and at an Angle of Crossing 88°07'22".	
AP-12	35°02'01" L	NBT DD+6		8457	647810	1649987	BMRCCL Type L&T Design Tower.	Kudligi
			814					
AP-13	34°39'04" R	DD+0		9271	648161	1650721		Kudligi
			505					
AP-14	12°17'34" R	DC+0		9776	648599	1650972		Kudligi
			448				Tar Road Connecting Kudligi Town with Bandi Basapura Village.	
AP-15	23°35'23" L	DC+0		10224	649026	1651107		Kudligi
			3295				Hilly Undulated Boulderred & Sheet Rock Area.	
AP-16	00°54'18" R	DB+0		13519	651508	1653273		Kudligi
			2197				Earthen Road Connecting Sriramachettihalli Village with Chikka Kereyaginahalli-Sivapura Villages Main Tar Road, Tar Road Connecting KA SH-40 with Chikka Kereyaginahalli Village and Hilly Undulated Boulderred & Sheet Rock Area.	Kudligi/ Sivapura/ Chikka Kereyaginahalli

Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
AP-17	05°32'20" R	DB+0		15716	653186	1654691		Chikka Kereyaginahalli
			320				Tar Road Connecting Hire Kereyaginahalli Village with Chikka Kereyaginahalli Village, Halla.	
AP-18	54°21'12" R	DD+6		16036	653449	1654874		Chikka Kereyaginahalli
			258				Halla, KA 5H-40 Connecting (Mylara) Kereyaginahalli Cross with (Thoranagallu) Jogikallu Cross, And at Angle of Crossing 70°42'06".	
AP-19	40°49'06" L	DD+6		16294	653692	1654787		Chikka Kereyaginahalli
			2176				Kereyaginahalli Reserved Forest [1285 m Route Length & 44975 m <sup>2</sup> = 11 Acre 5 Gunta] and Tar Road Connecting KA 5H-40 at Jogikallu Cross with Jogikallu Village.	Chikka Kereyaginahalli/ Hire Kereyaginahalli
AP-20	01°23'21" L	DB+0		18470	655722	1655572		Hire Kereyaginahalli
			1798				Tar Road Connecting Bandri Village with Kalingeri Village, Hilly Undulated Boulderred & Sheet Rock Area.	Hire Kereyaginahalli/ Bandri
AP-21	02°24'37" R	DB+0		20268	657383	1656261		Bandri
			4679				2 No. Halla, Hilly Undulated Boulderred & Sheet Rock Area.	Bandri/ Ankamanahalu
AP-22	42°32'30" L	DD+0		24947	661625	1658233		Ankamanahalu
			1346				Parallel to Existing South Western Railway's Hosapete-Swamihalli Section Broad-Guage Single Track on RHS, Nari Halla.	
AP-23	11°16'57" R	DB+0		26293	662140	1659475		Ankamanahalu
			239				-	
AP-24	40°48'54" R	NBT DD+6		26532	662276	1659682	BMRCCL Type L&T Design	Ankamanahalu
			130				Existing South Western Railway's Hosapete-Swamihalli Section Broad-Guage Single Track, Crossing at SWR Chainage 24.621 km & at an Angle of Crossing 90°00'00".	
AP-25	21°33'42" L	NBT DD+6		26662	662401	1659716	BMRCCL Type L&T Design	Ankamanahalu
			161				Tar Road Connecting Yeshvantnagara Village with Ankamanahalu Village, Somalapura Reserved Forest Start. [93 m Route Length & 3255 m <sup>2</sup> = 0 Acre 32 Gunta]	
AP-26	42°29'44" L	DD+0		26823	662533	1659807		Ankamanahalu



Anchor Point No.	Angle of Deviation & Direction	Tower Type	Section Length in m	Cumulative Chainage in m	Easting	Northing	Remarks / Crossing Details	Village Limits
			1412				Earthen Road Connecting Yeshvanthnagara-Ankamanahalu Tar Road with Iron Ore/Manganese Mines, <b>Somalapura Reserved Forest End.</b> [1388 m Route Length & 48580 m <sup>2</sup> = 12 Acre 0 Gunta] M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant Premises Boundary Compound Wall Cum 220/11 kV Switchyard S/S Area Fence.	Ankamanahalu/ Somalapura.
AP-27	15°19'53" L	DD+0		28235	662795	1661194		Somalapura
			32				M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant Internal Road, 220/11 kV Switchyard S/S Security Fence.	
Gantry	00°00'00"	GS		28267	662795	1661224	Survey Concluded to Proposed Gantry at M/s. Resources Concentrates Private Limited, Somalapura's Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant 220/11 kV Switchyard S/S.	Somalapura.

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Owner: Karnataka Power Transmission Corporation Limited.  
Client: M/s. Resources Concentrates Private Limited, Somalapura.  
Surveyors: M/s. B R Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Major Forest Crossing Details for Proposed Route-3.**

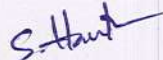
Serial No.	Crossing in Between AP	Name of the Forest	Type of Forest Reserved / Social	Length of Forest Stretch in m	Total Area Encountered	Name of Forest Division	Nearest Village/Town
1	AP-19 to AP-20	Kereyaginahalli Reseved Forest	Reserved	1285	44975 m <sup>2</sup>	Kudligi Division	Chikka Kereyaginahalli, Jogikallu, Hire Kereyaginahalli.
2	AP-25 to AP-26	Somalapura Reseved Forest	Reserved	93	3255 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.
3	AP-26 to AP-27	Somalapura Reseved Forest	Reserved	1388	48580 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.
Total RF Area Encountered in Words = 23 Acre 92 Cents   23 Acre 37 Guntas   9.681 Hectares =					96810 m <sup>2</sup>	Sandur South Division	Yeshvantnagara, Ankamanahalu.

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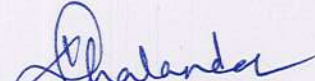
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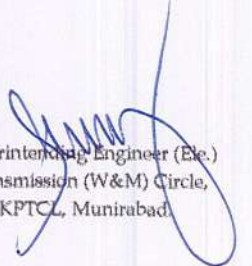
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Surveyors: M/s. B R Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**River Crossing Details for Proposed Route-3.**

Serial No.	Crossing in Between AP	River Name	Perennial / Non-Perennial	Tributary / Sub-Tributary	Rapid / Stagnant	Navigable / Non-Navigable	Easting	Northing	Nearest Village/Town
Nil.									

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**Railway Crossing Details for Proposed Route-3.**

Serial No.	Crossing in between AP No.	Zone of Railway	Narrow / Meter / Broad Gauge	Name of Crossing Railway Station / Junction	Railway Crossing Chainage	Railway Crossing Angle	Single Track/ Multiple Track	Electrified/ Non-Electrified.	Crossing in Between		Nearest Village/Town
									Easting	Northing	
1	AP-24 and AP-25	South Western Railway	Broad Gauge	Hosapete-Swamihalli Section	25.274 km	90°00'00".	Single Track	Non-Electrified	662336	1659720	Ankamanahalu
									662356	1659622	

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Owner: Karnataka Power Transmission Corporation Limited.  
 Client: M/s. Resources Concentrates Private Limited, Somalapura.  
 Surveyors: M/s. B R Associates, Bengaluru.

Name of Work: Conducting Preliminary Survey for the Proposed Construction of 220 kV S/C Line on D/C Towers from the Proposed Bay of Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Village Limits in Kudligi Taluk of Vijayanagara District to Proposed 3.2 MTPA Pellet Plant with 3.6 MTPA Pellet Feed Cum Beneficiation Plant of M/s. Resources Concentrates Private Limited, Somalapura's 220/11 kV Switchyard S/S in Sandur Taluk of Ballari District, under Self-Execution-Basis.

**Major Power Line Crossing Details for Proposed Route-3.**

Serial No.	Crossing in between AP No.	Name of Transmission Line	Voltage Ratings in kV	Tower No. & Type.	Easting	Northing	Nearest Village/Town
1	AP-02 and AP-03	Existing 220 kV D/C Line from Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku to Existing 220/66/11 kV Itgi S/S Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°58'27".	220 kV	TN-04 "DA"	645074	1644306	Badeladaku
				TN-05 "DA"	645233	1644183	
2	AP-02 and AP-03	Existing 66 kV S/C Line on D/C Towers from Existing 20 MW M/s. ACME Kudligi Solar Energy Pvt. Ltd.'s 66/11 kV Switchyard S/S at Gajapura to Existing 220/66/11 kV KPTCL Kudligi S/S Situated at Badeladaku Crossing in between 04 'DA' Type & 05 'DA' Type Towers & at an Angle of Crossing 67°11'19"	66 kV	TN-04 "DA"	645102	1644339	Badeladaku
				TN-05 "DA"	645360	1644132	
3	AP-06 and AP-07	Existing 765 kV D/C Line from Existing 3 X 800 MW Narendra (New) NTPC G/S situated at Kudgi to Existing 765/400 kV PGCIL Maghugiri S/S situated at Vasanthanarasapura Crossing in between 460 'DC' Type & 461 'DA' Type Towers and at an Angle of Crossing 74°27'12".	765 kV	TN-450 "DA"	645746	1648383	Kuppanakeri
				TN-451 "DA"	645945	1647972	
4	AP-08 and AP-09	Existing 66 kV D/C Line from Existing 220/66/11 kV KPTCL Itgi S/S to Existing 66/11 kV KPTCL KPTCL Kudligi S/S Crossing in between 10 'DA' Type & 11 'DA' Type Towers and at an Angle of Crossing 70°00'00".	66 kV	TN-10 "DA"	646069	1648638	Kuppanakeri
				TN-11 "DA"	646342	1648722	
5	AP-10 and AP-11	Existing (MSD Line) 66 kV S/C Line on D/C Towers from Existing 220/66/11 kV KPTCL Munirabad PH S/S to Existing 66/11 kV KPTCL Kudligi S/S Crossing in between 11 'DA' Type & 12 'DA' Type Towers and at an Angle of Crossing 80°30'07".	66 kV	TN-11 "DA"	647303	1649895	Kudligi
				TN-12 "DA"	647347	1649652	

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**Major Road/Highway Crossing Details for Proposed Route-3.**

Serial No.	Crossing in between AP No.	Name of The Road	Type of Road & No.	Easting	Northing	Nearest Village/Town
1	AP-04 and AP-05	KA SH-2 Connecting (Ekkambi) Bommanahalli Village with (Molakalmuru) Korcharahatti (Battanahalli) Cross And at Angle of Crossing 66°16'45".	KA SH-02	644635	1647037	Kuppanakeri
				644853	1647040	
2	AP-11 and AP-12	NH-50 Connecting NH-161 (Nanded) Kaivalyapura Village with NH-48 (Lakshmisagar) Kudligi Town, Crossing at NHAI Chainage 336+250 km and at an Angle of Crossing 88°07'22".	NH-50	647770	1649849	Kudligi
				647679	1650027	
3	AP-18 and AP-19	KA SH-40 Connecting (Mylara) Kereyaginahalli Cross with (Thoranagallu) Jogikallu Cross, And at Angle of Crossing 70°42'06".	KA SH-40	653537	1654736	Chikka Kereyaginahalli
				653676	1654899	

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