Government of Maharashtra

By Speed Post

No. FLD-3222/C.R.213/F-10 Revenue and Forest Department, Mantralaya, Mumbai- 400 032. Date: 30/07/2025.

To, The Secretary,

Ministry of Environment, Forests and Climate Change, Government of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi.-110003.

Sub.:- Forest Land- Yavatmal

Proposal for Ex-post facto approval for diversion of 0.45 ha. forest land in favour of EHV Project Division MSETCL, Amravati for construction of LILO on 132 KV Yavatmal- Yavatmal MIDC line for 132 KV Darwha Sub-Station Transmission line in Yavatmal District in the State of Maharashtra regarding. (FP/MH/TRANS/37560/2018).

Ref: 1. Your Office Letter No. FC-I/MH-297/2022-NGP, Dt.23.12.2024.

2. APCCF & Nodal Officer Letter No.Desk-17/Nodal/FCA-SI/ID-13183/900, Dt.14.07.2025.

Regional Office, MoEF&CC, Government of India has sought additional information with respect to the Proposal of Ex-post facto approval for diversion of 0.45 ha. forest land in favour of EHV Project Division MSETCL, Amravati for construction of LILO on 132 KV Yavatmal- Yavatmal MIDC line for 132 KV Darwha Sub-Station Transmission line in Yavatmal District in the State of Maharashtra

Additional Principal Chief Conservator of Forests & Nodal Officer, Maharashtra State, 2. Nagpur has submitted compliance report to the Government of Maharashtra vide letter under reference no.2, Compliance Report submitted by the APCCF & Nodal Officer is selfexplanatory and attached herewith for further necessary action in the matter.

the Government of Maharashtra

Under Secretary Revenue and Forests Department Hutatma Rajguru Chowk Madam Cama Road, Mantralaya

Encl: As above.

Copy to:

1. Additional Principal Chief Conservator of Forests and Nodal Officer, Nagpur.

2. Chief Conservator of Forests (T), Yavatmal.

3. Deputy Conservator of Forests (T), Yavatmal.



Office of the Principal Conservator of Forests (Head of Forests Force), Maharashtra State

Additional Principal Conservator of Forests & Nodal Officer, Van Bhavan, D wing 1st floor, Ramgiri Road, Civil Lines, Nagpur- 440 001

Tel.No.: 0712-2556916,

E-mail: apccfnodal@mahaforest.gov.in

No.Desk-17/Nodal/FCA-SI/ID-13183/2024-25/900 Nagpur - 440 001, Date: |4/07/2025

To,

Addl. Chief Secretary (Forests), Revenue & Forests Department, Mantralaya, Mumbai-32.

Sub:- Proposal seeking Ex-post facto approval under Section 2(1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 180 for diversion of 0.45 ha forest land in favour of EHV Project Division M.S.E.T.C.L. Amravati for construction of LILO on 132 KV Yavatmal- Yavatmal MIDC line for 132 KV Darwha Sub-station Transmission Line in Yavatmal District in the State of Maharashtra. - regarding. (Online No.- FP/MH/TRANS/37560/2018).

Ref:- 1. Government of India, Ministry of Environment, Forests and Climate Change, RO, Nagpur letter no Dated-23.12.2024

2. Chief Conservator of Forests (T), Yavatmal vide letter No. CF(T)/Desk-10/FCA/264/2025-26 dated 04.07.2025.

Sir,

The Government of India asked for compliance of queries vide letter under reference No.1 Accordingly, the Conservator of Forests (T), Yavatmal vide letter under reference No.2 has submitted the compliance to the queries to this office which is being submitted as under:-

S.No.	Query	Compliance
i	Complete KML file showing the 'To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project shall be uploaded/ submitted along with layout map.	As per the Compliance submitted by Dy. Conservator, Yavatmal Division, Yavatmal and by the Conservator of Forests (T) Yavatmal submitted that the user agency Complete KML file showing the 'To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project shall be uploaded/ submitted along with layout map Annexure-I (Page No. 10 & 11)
ii	As per Chapter-9 in the consolidated handbook of guidelines under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 the Width of Right of Way prescribed for 132 KV line is 27 meter whereas the Width of Right of Way of KML file of proposed transmission line on forest land proposed for diversion is found to be 26 meter. Therefore, correct KML file of the proposed transmission line over forest land shall be uploaded online.	As per the Compliance submitted by Dy. Conservator, Yavatmal Division, Yavatmal and by the Conservator of Forests (T) Yavatmal submitted that the user agency Attached corrected KML file of the proposed transmission line over forest land is uploaded online and also given in the soft copy uploaded on a CD. Annexure-II (CD Attached)

As reported 132 KV Darwha substation is iii technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is near completion in 2018. During this period some of the Government land is converted into forest passes. land through which route Therefore, the State Govt. shall re-examine and confirm that a consolidated proposal for the complete section of transmission line falling in the State has been included in the instant forest diversion proposal.

As per the Compliance submitted by Dy. Conservator, Yavatmal Division, Yavatmal and by the Conservator of Forests (T) Yavatmal submitted that the user agency answered 132 KV Darwha substation is technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is neat completion in 2018. During this period some of the Government land is converted into forest land through which route passes. The User agency has confirmed that consolidated proposal for the complete section of the transmission line is included In the instant proposal.

The statement of Gut no. Survey no. of privet agricultural land where the transmission line route passes including tower location is enclosed as Annexure- III (Page No.13 to 19)

iv As depicted through satellite imagery, transmission line has already been established and passing through the proposed forest land. Therefore, it needs clarification along with relevant details whether the project has been completed and services have been resumed or otherwise.

As per the Compliance submitted by Dy. Conservator, Yavatmal Division, Yavatmal and by the Conservator of Forests (T) Yavatmal submitted that according to the user agency the work of LILO line of 132 KV Yavatmal-Yavatmal MIDC DCDC line for 132 KV Darwha S/Stn is completed in all respect and the line is in charged condition since dated 31.12.2019 (Page No.20 to 26)

V Keeping in view of the Chapter 10, Para 10.1 of the consolidated handbook 1980, the Minimum clearance between conductor and Trees has been prescribed as 4 meters whereas it has been reported that overhead conductors at a height of 7 meter above the ground. Therefore, it needs clarification whether the minimum clearance between conductor and trees have been maintained or otherwise.

As per the Compliance submitted by Dy. Conservator, Yavatmal Division, Yavatmal and by the Conservator of Forests (T) Yavatmal submitted that that according to the user agency the Minimum clearance required between 132 KV line conductor and any object as per IE rules 1956 is 3.05 meter. All the tree falling under the transmission belt of 132 KV line viz. 27 meter have been cut to maintain the minimum clearance required between overhead conductor and ground is required 6.1 m as per IE rules 1956, which is maintained. (Page No. 27 & 28)

vi	Keeping in view of the Chapter 10. Para	As per the Compliance submitted by Dy.
	10.5 of the consolidated handbook of	Conservator, Yavatmal Division, Yavatmal and
1	guidelines issued under Van (Sanrakshan	by the Chief Conservator of Forests (T) Yavatmal
	evam Samvardhan) Adhiniyam 1980, the	submitted that the user agency answered no
	KML file of identified degraded forest	separate degraded forest area over one hector has
	areas of not less than one ha for carrying	been identified for carrying out plantation of
	out plantation of dwarf species (preferably	dwarf species as area of patch is more than 0.10
	medicinal plants) shall be uploaded.	ha.
	medicinal plants) shall be aploaded.	According to the user agency plantation of dwarf
		species (preferably medicinal plants) on forest
		area of 0.45 ha accommodated in single patch,
		within ROW below the transmission line
		conductors will be carried out at the cost of User
	It has been senseted that the Forter II'd	Agency.
vii	It has been reported that the Extra High Voltage electricity transmission line	As per the Compliance submitted by Dy.
		Conservator, Yavatmal Division, Yavatmal and
	project transmitting power in Yavatmal district from 132KV Yavatmal substation	by the Conservator of Forests (T) Yavatmal
		submitted that according to the user agency extra
	to 132KV Darwha substation was approved	High Voltage electricity transmission line project
	in the year 2008. However, the detail of the	transmitting power in Yavatmal district from 132
	scheme along with technical approval of	KV Yavatmal substation to 132 KV Darwha
	the project has not been submitted with the	substation survey was approved in the year 2008.
	proposal. The same needs submission.	However, the project scheme was approved by
		the Board of Directors Board resolution MBR
		119/12 in the year 05.08.2017. The copy of MBR
		No 119/12 is enclosed as Annexure-IV
viii	As most of work has already be completed	(Page No. 30 to 48)
VIII		As per the Compliance submitted by Dy.
	in the proposed forest land but it needs clarification whether the user agency had	Conservator, Yavatmal Division, Yavatmal and
3 1	identified three alternative sites before	by the Conservator of Forests (T) Yavatmal
		submitted that for the above said line, three
	starting the work on the proposed forest	alternative routes were identified by the user
	land. The justification along with the KML	agency during survey of the line in the year 2008.
	file in this regard needs submission.	In all three routes, forest lands were involved.
		But user agency was approved the most feasible
		route having minimum area of forest land for
	The State Coast submitted the inch.	lying of the line.
ix	The State Govt. submitted the instant proposal as diversion of 0.45 ha forest land	As per the Compliance submitted by Dy.
124	whereas the proposal involves violation.	Conservator, Yavatmal Division, Yavatmal and
	Therefore, it needs clarification whether	by the Conservator of Forests (T) Yavatmal
	the proposal is of regularization of	submitted that the instant proposal is for ex-post
	encroachment or ex-post facto approval	facto approval under the Adhiniyam, 1980.
	under the Adhiniyam, 1980.	

Х	Satellite imagery dated 03.01.2024 shows	As per the Compliance submitted by Dy.
	that the Pre-plantation work within the	Conservator, Yavatmal Division, Yavatmal and
	proposed CA land is completed. This needs	by the Conservator of Forests (T) Yavatmal
	justification	submitted that the Range Forest Officer visited
		the proposed CA land with his staff on dated
		07.03.2025 and submitted spot verification report
	The state of the s	stating that the land is reserve forest land in
		Comptt no 112 and that no pre-plantation work
		have been carried out till date. (Page No. 60)
xi	The State Govt. shall ensure that the user	As per the Compliance submitted by Dy.
	agency has proposed to establish the	Conservator Yavatmal Division Vavatmal and

transmission lines in the forest land as per the Chapter 10, Para 10.1 of the Consolidated Handbook of the Guidelines issued by the Ministry on dated 29.12.2023 under the Van (Sanrakshan Samvardhan) Rules 2023.

by Dy. Conservator, Yavatmal Division, Yavatmal and by the Conservator of Forests (T) Yavatmal submitted that the User Agency has return that it will ensure to establish the transmission line in the forest land as per the Chapter 10, Para 10.1 of the Consolidated Handbook of the Guidelines issued by the Ministry on dated 29.12.2023 under the Van (Sanrakshan Evam Samvardhan) rules, 2023.

This is for your information and further necessary action.

Encl: As above

(Naresh Zurmure) **Additional Principal Conservator of Forests** & Nodal Officer

I MAYOS

Copy forwarded for information:-

- 1. The Conservator of Forests (T), Yavatmal.
- 2. Divisional Forest Officer, Yavatmal Division, Yavatmal.
- 3. Executive Engineer, EHV Project Division, MSETCL, Amravati, Dist. Amravati.



Government of Maharashtra Office of the Conservator of Forest (T) Yavatmal "Van Bhavan" 2nd Floor, Matru Charch Road, Yavatmal -445001

महाराष्ट्र वन विमाग Telephone No. 07232-242894 / 242194 E-Mail id --conytlyvt@gmail.com/ccftyavatmal@mahaforest.gov.in

No. CF(T)/Desk-10/FCA/ 264

Yavatmal,

Dated- 04 Jun, 2025.

July

To,

The Additional Principal Chief Conservator of Forest, & Nodal Officer, M.S. Nagpur.

Subject: Diversion of 0.45 ha. Forest land in favour of EHV Project Division MSETCL,
Amravati for construction of LILO on 132 KV Yavatmal- Yavatmal MIDC line for
132 KV Darwha sub-station Transmission line in District Yavatmal in the State of
Maharashtra regarding.

/2025-26

Reference:- 1. Your Office letter No.Desk-17/FCA-SI/P.I.D-37560/Yavatmal/2152 Date 24/12/2024.

2. Dy. Conservator of Forest (T) Yavatmal office letter No./Survey/194, Date-14.05.2025

Sir,

Vide reference letter No. 1 query was raised on the Proposal for Diversion of 0.45 ha. forest land in favour of EHV Project Division MSETCL, Amravati for construction of LILO on 132 KV Yavatmal-Yavatmal MIDC line for 132 KV Darwha sub-station Transmission line in Taluka- Darwha, District Yavatmal.

Vide reference letter no. 2 Dy. Conservator of Forest (T) Yavatmal has submitted compliance for the queries as follows-

Sr. No.	Query	Compliance
i.	Complete KML file showing the To' and 'Fro'	The complete KML file showing the To'
	passage including 98.0991 ha Non-Forest land	and 'Fro' passage including 98.0991 ha
	involved in the project shall be uploaded/	Non-Forest land involved in the project is
	submitted along with layout map.	uploaded /submitted along with layout map
		as Annexure I.
ii.	As per Chapter-9 in the consolidated handbook of	Corrected KML file of the proposed
	guidelines under Van (Sanrakshan Evam	transmission line over forest land is
	Samvardhan) Adhiniyam, 1980 the Width of	uploaded online and also given in the soft
	Right of Way prescribed for 132 KV line is 27	copy uploaded on a CD.
	meter whereas the Width of Right of Way of	Annexure -II.
	KML file of proposed transmission line on forest	
	land proposed for diversion is found to be 26	
	meter. Therefore, correct KML file of the	
	proposed transmission line over forest land shall	
	be uploaded online.	

11107/25

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Sr. No.	Query	Compliance
iii.	As reported 132 KV Darwha substation is	132 KV Darwha substation is technically
	technically surveyed and approved in year 2008	surveyed and approved in year 2008
	avoiding any forest interception that time. But the	avoiding any forest interception that time.
	project is near completion in 2018. During this	But the project is near completion in 2018.
	period some of the Government land is converted	During this period some of the Government
	into forest land through which route passes.	land is converted into forest land through
	Therefore, the State Govt. shall re-examine and	which route passes. The user agency has
	confirm that a consolidated proposal for the	confirmed that consolidated proposal for
	complete section of the transmission line falling	the complete section of the transmission
	in the State has been included in the instant forest	line is included in the instant proposal.
	diversion proposal.	Encl.:- The Statement of Gut no./Survey
		nos. of private agricultural land where the
		transmission line route passes including
		tower location is enclosed as. Annexure
		-m.
iv.	As depicted through satellite imagery,	According to the user agency the work of
	transmission line has already been established	LILO line of 132 kV Yavatmal-Yavatmal
	and passing through the proposed forest land.	MIDC DCDC line for 132 kV Darwha
	Therefore, it needs clarification along with	S/Stn is completed in all respect and the line
	relevant details whether the project has been	is in charged condition since dt: 31.12.2019
	completed and services have been resumed or	
	otherwise.	
V.	Keeping in view of the Chapter 10, Para 10.1 of	According to the user agency the Minimum
	the consolidated handbook of guidelines issued	clearance required between 132 KV line
4	under Van (Sanrakshan Evam Samvardhan)	conductor and any object as per IE rules
	Adhiniyam- 1980, the Minimum clearance	1956 is 3.05 meter. All the Trees falling
	between conductor and Trees has been prescribed	under the transmission belt of 132 kV line
	as 4 meters whereas it has been reported that	viz. 27 meters have been cut to maintain
331 8	overhead conductors at a height of 7 meter above	the minimum clearance between conductor
	the ground. Therefore, it needs clarification	& trees throughout the route of 132 kV
1	whether the minimum clearance between	line. Also, the minimum clearance required
	conductor and trees have been maintained or	between overhead conductor and ground is
	otherwise	required 6.1 m as per IE rules 1956, which

Sr. No.	Query	Compliance
vi	Keeping in view of the Chapter 10, Para 10.5 of	No separate degraded forest area over one
	the consolidated handbook of guidelines issued	hector has been identified for carrying out
	under Van (Sanrakshan Evam Samvardhan)	plantation of dwarf species as area of patch
	Adhiniyam- 1980, the KML file of identified	is more than 0.10 ha.
	degraded forest areas of not less than one ha for	According to the user agency plantation of
	carrying out plantation of dwarf species	dwarf species (preferably medicinal plants)
	(preferably medicinal plants) shall be uploaded.	on forest area of 0.45 Ha. accomodated in
		single patch, within ROW below the
		transmission line conductors will be carried
green d		out at the cost of User Agency.
vii.	It has been reported that the Extra High Voltage	According to the user agency extra High
71	electricity transmission line project transmitting	Voltage electricity transmission line project
	power in Yavatmal district from 132KV	transmitting power in Yavatmal district
	Yavatmal substation to 132KV Darwha	from 132KV Yavatmal substation to
. T 32 4	substation was approved in the year 2008.	132KV Darwha substation survey was
	However, the detail of the scheme along with	approved in the year 2008.
	technical approval of the project has not been	However, the project scheme was
_ ** . **	submitted with the proposal The same needs	approved by the Board of Directors Board
	submission.	Resolution MBR 119/12 in the year
		05/08/2017. The copy of MBR No. 119/12
		is enclosed as Annexure-IV.
viii.	As most of work has already be completed in the	For the above said line, three alternative
	proposed forest land but it needs clarification	routes were identified by the user Agency
	whether the user agency had identified three	during survey of the line in the year 2008.
	alternative sites before starting the work on the	In all three routes, forest lands were
	proposed forest land. The justification along with	involved. But user Agency was approved
	the KML file in this regard needs submission.	the most feasible route having minimum
	11-	area of forest land for laying of the line.
ix.	The State Govt. submitted the instant proposal as	The instant proposal is for ex-post facto
	diversion of 0.45 ha forest land whereas the	approval under the Adhiniyam-1980.
	proposal involves violation. Therefore, it needs	
. 4	clarification whether the proposal is of	
tur I	regularization of encroachment or ex-post facto	
	approval under the Adhiniyam, 1980.	
х.	Satellite imagery dated 03.01.2024 shows that	Dy. Conservator of Forest, Yavatmal
	the Pre-plantation work within the proposed CA	submitted that the Range forest officer
	land is completed. This needs justification.	visited the proposed CA land with his staff

Sr. No.	Query	Compliance
		on dated 7/03/2025 and submitted spot
		verification report stating that the land is
		reserve forest land in Compt No.112 and
		that no pre-plantation work have been
		carried out till date.
xi.	The State Govt. shall ensure that the user agency	The user agency has return that it will
	has proposed to establish the transmission lines in	ensure to establish the transmission line in
	the forest land as per the Chapter 10, Para 10.1 of	the forest land as per the Chapter 10, Para
	the Consolidated Handbook of the Guidelines	10.1 of the Consolidated Handbook of the
	issued by the Ministry on dated 29.12.2023 under	Guidelines issued by the Ministry on dated
A 7	the Van (Sanrakshan Evam Samvardhan) Rules	29.12.2023 under the Van (Sanrakshan
	2023.	Evam Samvardhan) Rules 2023.

Submitted the compliance for kind perusal and necessary action.

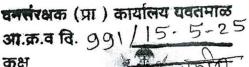
Encl.: As above.

(M. Adarsh Reddy)
Conservator of Forest (T.)
Yavatmal Circle

Copy to :- Deputy Conservator Forest (T) Yavatmal for Information.

Copy to :- Executive Engineer, EHV Project Division, MSETCL, Amravati for Information.





nent of Maharashtra **वनस**रक्षक (प्रा

"वृक्षवस्त्री आन्हा सोवरे वनचरे" ISO 9001:2015 Office of the Deputy Conservator of Forest (T) Yavating
"Vanbhavan" Administrative Building, 1st Floor, Church Road, Civil Line, Yavatma
Email ID: - dycfyavatmal@mahaforest.gov.in; dycfym

Outword No./DCF(Y)/Survey/ 194

/Yavatmal -445001 Dated - 14 /05/2025

15/05/2

Conservator of Forest (T.) Yavatmal.

Sub.: Diversion of 0.45 ha. forest land in favour of EHV Project Division MSETCL, Amravati for construction of LILO on 132 KV Yavatmal- Yavamtl MIDC line for 132 KV Darwha sub station Transmission line in Taluka-Darwha, District Yavatmal in the State of Maharashtra regarding.

Ref.: 1) A.P.C.C.F. & Nodal Officer M.S.Nagpur Letter No. /Desk--17/FCA-S1/PID-37560 Yavata al 2152 Date 24/12/2024.

- 2) Your Office letter no./CF(Y)/desk-10/Conservation/2618/dt 03/01/2025.
- 3) This office letter no./DCF (Y)/Survey/3451 Date05/02/2025.
- 4)Executive Engineer, EHV Project Division, MSETCL Amravati Letter no./ MSETCL/ EE/EHV/ Project Din/Amravati/Tech/No.00271 Date 11/02/2025.

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With reference to the subject cited above, under reference letter no.2 this office has to submit the compliance report about the 11 points raised by the Central Government to your office.

In connection with that the user agency have submitted the compliance report of 11 points raised by Central Government.

So, the copy of compliance in triplicate report is attached herewith for further necessary action please.

Sr. No.	Query	Compliance
i.	Complete KML file showing the To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project shall be uploaded/ submitted along with layout map.	The complete KML file showing the To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project is uploaded /submitted along with layout map as Annexure I.
ii.	As per Chapter-9 in the consolidated handbook of guidelines under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 the Width of Right of Way prescribed for 132 KV line is 27 meter whereas the Width of Right of Way of KML file of proposed transmission line on forest land proposed for diversion is found to be 26 meter. Therefore, correct KML file of the proposed transmission line over forest land shall be uploaded online.	Corrected KML file of the proposed transmission line over forest land is uploaded online and also given in the soft copy uploaded on a CD. Annexure –II.
iii.	As reported 132 KV Darwha substation is technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is near completion in 2018. During this period some of the Government land is converted into forest land through which route passes. Therefore, the State Govt. shall re-examine and confirm that a consolidated proposal for the complete section of the transmission line falling in the State has been included in the instant forest diversion proposal.	132 KV Darwha substation is technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is near completion in 2018. During this period some of the Government land is converted into forest land through which route passes. Therefore, as a user agency it is confirmed that consolidated proposal for the complete section of the transmission line is included in the instant

Sr. No	. Query	Compliance
		proposal. Encl.:- The Statement of Gut no./Surve nos. of private agricultural land where the transmission line route passes including tower placed is enclosed as. Annexure –III
iv.	As depicted through satellite imagery, transmission line has already been established and passing through the proposed forest land. Therefore, it needs clarification along with relevant details whether the project has been completed and services have been resumed or otherwise.	Yavatmal MIDC DCDC line for 132 l Darwha S/Stn is completed in all respect a the line is in charged condition since
v.	Keeping in view of the Chapter 10, Para 10.1 of the consolidated handbook of guidelines issued under Van (Sanrakshan evam Samvardhan) Adhiniyam- 1980, the Minimum clearance between conductor and Trees has been prescribed as 4 meters whereas it has been reported that overhead conductors at a height of 7 meter above the ground. Therefore, it needs clarification whether the minimum clearance between conductor and trees have been maintained or otherwise	132 KV line conductor and any object as p IE rules 1956 is 3.05 meter. All the Tre falling under the transmission belt of 132 k line viz: 27 meters have been cut to mainta the minimum clearance between conduct & trees throughout the route of 132 kV lin Also, the minimum clearance between
vi	Keeping in view of the Chapter 10, Para 10.5 of the consolidated handbook of guidelines issued under Van (Sanrakshan evam Samvardhan) Adhiniyam- 1980, the KML file of identified degraded forest areas of not less than one ha for carrying out plantation of dwarf species (preferably medicinal plants) shall be uploaded.	No separate degraded forest area not let than one hector has been identified to carrying out plantation of dwarf species area of patch is more than 0.10 ha. Plantation of dwarf species (preferance)
vii.	It has been reported that the Extra High Voltage electricity transmission line project transmitting power in Yavatmal district from 132KV Yavatmal substation to 132KV Darwha substation was approved in the year 2008. However, the details of the scheme along with technical approval of the project has not been submitted with the proposal The same needs submission.	Extra High Voltage electricity transmission line project transmitting power in Yavatma district from 132KV Yavatmal substation to 132KV Darwha substation survey was approved in the year 2008. However, the project scheme was approved by the Board of Directors Board Resolution MBR 119/12 in the year 05/08/2017. The copy of MBR No. 110/12
viii.	As most of work has already be completed in the proposed forest land but it needs clarification whether the user agency had identified three alternative sites before starting the work on the proposed forest land. The justification along with the KML file in this regard needs submission.	Annexure-IV. For the above said line, three alternative routes were identified by the user Agency during survey of the line in the year 2008. In all three routes, forest lands were involved. But user Agency was approved the most feasible route having minimum area of forest land for laying of the line.



Sr. No.	Query	Compliance
ix.	The State Govt. submitted the instant proposal as diversion of 0.45 ha forest land whereas the proposal involves violation. Therefore, it needs clarification whether the proposal is of regularization of encroachment or ex-post facto approval under the Adhiniyam, 1980.	The instant proposal is for ex-post facto approval under the Adhiniyam-1980.
х.	Satellite imagery dated 03.01.2024 shows that the Preplantation work within the proposed CA land is completed. This needs justification.	Range forest officer visited the proposed CA land with his staff on dated 7/03/2025 and submitted spot verification report stating that the land is reserve forest land having compt no. 112 and there is no pre-plantation work have been carried out till today.
xi.	The State Govt. shall ensure that the user agency has proposed to establish the transmission lines in the forest land as per the Chapter 10, Para 10.1 of the Consolidated Handbook of the Guidelines issued by the Ministry on dated 29.12.2023 under the Van (Sanrakshan evam Samvardhan) Rules 2023.	The user agency ensure to establish the transmission line in the forest land as per the Chapter 10, Para 10.1 of the Consolidated Handbook of the Guidelines issued by the Ministry on dated 29.12.2023 under the Van (Sanrakshan evam Samvardhan) Rules 2023.

(Dhananja Waybhase I.F.S.) Dy. Conservator of Forest Yavatmal Division, Yavatmal

Copy to: Executive Engineer, EHV Project Division, MSETCL Amravati for information.





Maharashtra State Electricity Transmission Co. Ltd

(CIN No. U40109MH2005SGC153646)

From

Executive Engineer,

EHV Project Division,

Prakash Sarita, Administrative Building, A-Wing, Ground Floor, 220KV substation,

Morshi road, Amravati – 444 603

Email:- ee1620@mahatransco.in

Phone No. 0721 - 2669168

To,

Dy. Conservator of Forests, Yavatmal, Maharashtra State.

> उपवनसंरक्षक यगतमाळ वनिधमाग् यदतमाळ आदश क्र. 1412125

Ref.: MSETCL/EE/EHV/Project Din./Amravati/Tech/

1000271

Date : 1 1 FEB 2025

Sub.: Proposal seeking Ex-post facto approval under Section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of 0.45 ha forest land in favour of EHV Project Division M.S.E.T.C.L. Amravati for construction of LILO on 132 KV Yavatmal - Yavatmal MIDC line for 132 KV Darwha Sub-Station Transmission Line in Yavatmal District in the State of Maharashtra (Online No. FP/MH/TRANS/37560/2018) ----- Sub-mission of forest compliance thereof.

Ref.: 1.Government of India Ministry of Environment, Forests and Climate Change (Forest Conservation Division).dtd.23/12.2024.

- 2. Nodal Nagpur
- 3. Govt. of Maharashtra letter.
- 4. क्रमांक/उवसं. (य)/सर्व्हे/३४५१/२०२४-२५ यवतमाळ दिनांक. ०५/०२/२०२५

With reference to above subject, please find detailed compliance for MoEFCC query letters as per ref. no. (1) & (4) above.

Sr. No.	Query	Compliance
i.	Complete KML file showing the To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project shall be uploaded/ submitted along with layout map.	The complete KML file showing the To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project is uploaded /submitted along with layout map as Annexure I.
ii.	As per Chapter-9 in the consolidated handbook of guidelines under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 the Width of Right of Way prescribed for 132 KV line is 27 meter whereas the Width of Right of Way of KML file of proposed transmission line on forest land proposed for diversion is found to be 26 meter. Therefore, correct KML file of the proposed transmission line over forest land shall be uploaded online.	Corrected KML file of the proposed transmission line over forest land is uploaded online and also given in the soft copy uploaded on a CD. Annexure –II.
iii.	As reported 132 KV Darwha substation is technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is near completion in 2018. During this period some of the Government land is converted into forest land through which route passes. Therefore, the State Govt. shall reexamine and confirm that a consolidated proposal for the complete section of the transmission line falling in the State has been included in the instant forest diversion proposal.	132 KV Darwha substation is technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is near completion in 2018. During this period some of the Government land is converted into forest land through which route passes. Therefore, as a user agency it is confirmed that consolidated proposal for the complete section of the transmission line is included in the instant proposal. Encl.:- The Statement of Gut no./Survey nos. of private agricultural land where the

		transmission line route passes including tower placed is enclosed as. Annexure –III.
iv.	As depicted through satellite imagery, transmission line has already been established and passing through the proposed forest land. Therefore, it needs clarification along with relevant details whether the project has been completed and services have been resumed or otherwise.	The work of LILO line of 132 kV Yavatmal-Yavatmal MIDC DCDC line for 132 kV Darwha S/Stn is completed in all respect and the line is in charged condition since dt: 31.12.2019
V.	Keeping in view of the Chapter 10, Para 10.1 of the consolidated handbook of guidelines issued under Van (Sanrakshan evam Samvardhan) Adhiniyam- 1980, the Minimum clearance between conductor and Trees has been prescribed as 4 meters whereas it has been reported that overhead conductors at a height of 7 meter above the ground. Therefore, it needs clarification whether the minimum clearance between conductor and trees have been maintained or otherwise	The Minimum clearance required between 132 KV line conductor and any object as per IE rules 1956 is 3.05 meter. All the Trees falling under the transmission belt of 132 kV line viz. 27 meters have been cut to maintain the minimum clearance between conductor & trees throughout the route of 132 kV line. Also, the minimum clearance between overhead conductor and ground is required as 6.1 m as per IE rules 1956, which is maintained.
vi	Keeping in view of the Chapter 10, Para 10.5 of the consolidated handbook of guidelines issued under Van (Sanrakshan evam Samvardhan) Adhiniyam- 1980, the KML file of identified degraded forest areas of not less than one ha for carrying out plantation of dwarf species (preferably medicinal plants) shall be uploaded.	No separate degraded forest area not less than one hector has been identified for carrying out plantation of dwarf species as area of patch is more than 0.10 ha. Plantation of dwarf species (preferably medicinal plants) on forest area of 0.45 Ha. Accommodated in single patch, within ROW below the transmission line conductors will be carried out at the cost of User Agency.
vii.	It has been reported that the Extra High Voltage electricity transmission line project transmitting power in Yavatmal district from 132KV Yavatmal substation to 132KV Darwha substation was approved in the year 2008. However, the details of the scheme along with technical approval of the project has not been submitted with the proposal The same needs submission.	Extra High Voltage electricity transmission line project transmitting power in Yavatmal district from 132KV Yavatmal substation to 132KV Darwha substation survey was approved in the year 2008. However, the project scheme was approved by the Board of Directors Board Resolution MBR 119/12 in the year 05/08/2017. The copy of MBR No. 119/12 is enclosed as Annexure-IV.
viii	As most of work has already be completed in the proposed forest land but it needs clarification whether the user agency had identified three alternative sites before starting the work on the proposed forest land. The justification along with the KML file in this regard needs submission.	For the above said line, three alternative routes were identified by the user Agency during survey of the line in the year 2008. In all three routes, forest lands were involved. But user Agency was approved the most feasible route having minimum area of forest land for laying of the line.
ix.	The State Govt. submitted the instant proposal as diversion of 0.45 ha forest land whereas the proposal involves violation. Therefore, it needs clarification whether the proposal is of regularization of encroachment or ex-post facto approval under the Adhiniyam, 1980.	The instant proposal is for ex-post facto approval under the Adhiniyam-1980.
х.	Satellite imagery dated 03.01.2024 shows that the Preplantation work within the proposed CA land is completed. This needs justification.	A joint visit of MSETCL and forest Authorities is required at proposed CA Land.

xi. The State Govt. shall ensure that the user agency has proposed to establish the transmission lines in the forest land as per the Chapter 10, Para 10.1 of the Consolidated Handbook of the Guidelines issued by the Ministry on dated 29.12.2023 under the Van (Sanrakshan evam Samvardhan) Rules 2023.

The user agency ensure to establish the transmission line in the forest land as per the Chapter 10, Para 10.1 of the Consolidated Handbook of the Guidelines issued by the Ministry on dated 29.12.2023 under the Van (Sanrakshan evam Samvardhan) Rules 2023.

Submitted for information and necessary action please.

Encl.: As above.

Yours Faithfully

(Jayant Waghmare)
Executive Engineer,
EHV Project Division, MSETCL,
Amravati.

Copy to s. w. r to:

1. Superintending Engineer, EHV Project Circle, Amravati.

Copy to:-

1. The Addl. Ex. Engineer, S & I Sub Division, Amravati.

Government of India Ministry of Environment, Forest and Climate Change (Forest Conservation Division)

Indira Paryavaran Bhawan, Jor Bag Road, Aliganj, New Delhi – 110003 Dated: As per E-sign

To,

The Principal Secretary (Forests), Government of Maharashtra, Mumbai.

Subject: Proposal seeking Ex-post facto approval under Section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of 0.45 ha forest land in favour of EHV Project Division M.S.E.T.C.L. Amravati for construction of LILO on 132 KV Yavatmal - Yavatmal MIDC line for 132 KV Darwha Sub-Station Transmission Line in Yavatmal District in the State of Maharashtra (Online No. FP/MH/TRANS/37560/2018) - regarding.

Madam/Sir,

I am directed to refer to the Government of Maharashtra letter no. FLD 3222/CR-213/F-10 dated 14.09.2022 which has been forwarded by the Regional Office, Nagpur as per Sub Rule 2 (v) of Rule 10 of the Van (Sanrakshan Evam Samvardhan) Rules 2023. After examining the proposal, the following shortcomings have been observed:

- i. Complete KML file showing the 'To' and 'Fro' passage including 98.0991 ha Non-Forest land involved in the project shall be uploaded/ submitted along with layout map.
- ii. As per Chapter-9 in the consolidated handbook of guidelines under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 the Width of Right of Way prescribed for 132 KV line is 27 meter whereas the Width of Right of Way of KML file of proposed transmission line on forest land proposed for diversion is found to be 26 meter. Therefore, correct KML file of the proposed transmission line over forest land shall be uploaded online.
- iii. As reported 132 KV Darwha substation is technically surveyed and approved in year 2008 avoiding any forest interception that time. But the project is near completion in 2018. During this period some of the Government land is converted into forest land through which route passes. Therefore, the State Govt. shall re-examine and confirm that a consolidated proposal for the complete section of the transmission line falling in the State has been included in the instant forest diversion proposal.
- iv. As depicted through satellite imagery, transmission line has already been established and passing through the proposed forest land. Therefore, it needs clarification along with relevant details whether the project has been completed and services have been resumed or otherwise.



- Nagpur;
 4. User Agency;
 5. Monitoring Cell, FC Division, MoEF&CC, New Delhi for uploading on PARIVESH portal.





अहाराष्ट्र जायन उपवनसंरक्षक, यवतमाळ वनविभाग, ययतमाळ यांचे कार्यालय 'वनभवन्धं प्रजामांक्ष अमान, परिसा मजगा, पर्य गर, संस्कृत नाज, प्रात्माञ्च Email ID :- वर्षाप्रस्थाताविक्षाविकार्यक्षा क्षर्याः, वर्षाः नाज्य व्याप्त, प्रात्माञ्च



ਧੁਰਿ

क्रमांक/उवसं.(य)/सर्वे / 3451

/२०२४-२५ यवतमाळ दिनांक:- 🕻 /०२/२०२५

कार्यकारी अभियंता, अ.उ.दा. प्रकल्प विभाग, म.रा.वि.पा.कं.मर्या,अमरावती.

विषय:- Diversion of ०.४५ ha. forest land in favour of EHV Project Division MSETCL, American for construction of LH.O on १३२ KV Yavannal- Yavannil MIDC line for १३२ KV Darwha sab station Transmission line in Taluka-Darwha, District Yavannal in the State of Maharashtra regarding.

संदर्भ:- 1)मा.अपर प्रधान मुख्य वनसंरक्षक व केंद्रस्य अधिकारी. म.रा. नागपुर यांचे कार्यातयोन पत्र के. /कथ-17/ FCA-S1/PID-37560/Yavatmal/2152, दिनांक 24/12/2024.

2) मा.वनसंरक्षक (प्रादे.), यवतमाळ यांचे पत्र क्र./वसं(य)/कक्ष-10/वसं/2618 दि,03/01/2025.

उपरोक्त संदर्भीय पत्राचे अनुषंगाने आपणांस कळिषण्यात येते की. संदर्भीय पत्र क्र. १ अन्वये, केंद्र शासनाने उपरिधन केलेल्या ११ मुद्यांची माहिती आंग्ल (इंग्रजी) भाषेत या कार्यालयास सादर करणेवावत कळिष्ठेल आहे. सोवत केंद्र शासनाच संदर्भीय पत्राची प्रत पृढील कार्यवाहीसाठी यासोवत पाठिषण्यांत येत आहे.

त्याअनुषंगानें 11 मुद्यांची पुर्तता करून अहवाल 5 प्रतीत या कार्यालयास सादर करावा. जेणेकरून पुढील कार्यवाल करीता वरीष्ठ कार्यालयास अहवाल सादर करणे सोईचे होईल.

सहपत्र :- वरील प्रमाणे संदर्भीय पत्र क्र. १ ची छायांकीत प्रत

(घनंज्य व्यवभासे,भा व से) उपवनसंरक्षक यवतमाळ वनविभाग यवतमाळ

प्रतिलिपी :- मा.वनसंरक्षक (प्रा.) यवतमाळ वांना माहितीस सविनय सादर.

(10)

ANNEXURE-I

THE COMPLETE KML FILE SHOWING 'TO' & 'FRO' PASSAGE WITH LAYOUT MAP IS ENCLOSED IN CD

	Contruction of LILO on	of LILO o		avatma	al-Yavatmal	MIDCI	ine for	132 kV Yavatmal-Yavatmal MIDC line for 132 kV Darwha Sub-Station	ha Sub-St	ation
			Satem	ent of \	Satement of Villagewise Non-Forest Area	on-Fore	est Area			
r. No.	Name of Village	Tahsil	Dist	Length	Length of Line in (m) Width	Width	Ar	Area in (sqm)	Are	Area in (Ha)
				Forest	Forest Non-Forest		Forest	Non-Forest	Forest	Non-Forest
1	Kasbe Darwah	Darwha	Yavatmal		1920.32	27		51848 64		F 19/96/
2	Bagewadi	Darwha	Yavatmal		2432.74	27		65683.98		6 568398
3	Kinhiwalgi	Darwha	Yavatmal		3653.3	27		98639.1		9.86391
4	Waghul .	Darwha	Yavatmal		665.21	27		17960.67		1.796067
5	Dudhgaon	Darwha	Yavatmal		3135.61	27		84661.47		8,466147
9	Ujona	Darwha	Yavatmal		396	27	4	10692		1.0692
7	Pandhurna	Darwha	Yavatmal	167	1716.47	27	4509	46344.69	0.4509	4.634469
∞	Morgyhan	Darwha	Yavatmal		1194	27		32238		3.2238
6	Ladkhed	Darwha	Yavatmal		1593.35	27		43020.45		4.302045
10	Ganeshpur	Darwha	Yavatmal		442.44	27		11945.88		1.194588
11	Ladkhed	Darwha	Yavatmal		1032.44	27		27875.88		2.787588
12	Nandgavhan	Darwha	Yavatmal		2172.65	27		58661.55		5.866155
13	Kamathwada	Darwha	Yavatmal		1309.39	27		35353.53		3.535353
14	Linga	Ner	Yavatmal		1310.3	27		35378.1		3.53781
15	Tiwasa	Yavatmal	Yavatmal		1879	27		50733		5.0733

Executive Engineer E.H.V. Projects Division, M.S.E.T.C.L. Amravati.

12.555

94.745673

Total

55971

5.0733 4.566942 4.922937

> 45669.42 49229.37 125550

27 27 27 27 27

Yavatmal Yavatmal Yavatmal Yavatmal

Yavatmal Yavatmal Yavatmal Yavatmal

Jamwadi

Varjai

16 17 Echori

18

Kinhi

19

1823.31 1691.46

4550

2373

Dy. Conservator of Forest Yavatmal

ANNEXURE-II

THE CORRECT KML FILE HAVING 27 M WIDTH OF ROW IS ENCLOSED IN CD



ANNEXURE-III

THE KML FILE SHOWING TOWER POINTS IS ENCLOSED IN CD



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD

CIN NO.U40109MH2005SGC153646

THE STATEMENT OF GUT NO/SURVEY NO.OF PRIVATE AGRICULTURAL LAND WHEAR THE TRANSMISSION LINE ROUTE PASSES

Sr. No.	Tower No.	Type of Tower	Name of cultivators With A.I.I	Sy No.	Tq	Village
1	1	MS+0	Sanjay Radheshyam Tiwari	156/2/A	Darwha	D .
2	2	MR+3	Sadhana Sohanraj Kothari	169/1/B/2	Darwha	Darwha
3	3	MS+0	Vandana Uttam Rathod	171/2	Darwha	Darwha
4	3-4		Hasin Ahmad Khan Ebrahim Khan	171/1	Darwha-Kha 2	Darwha
5	4	MS+3	Juned Pashakhan Mustak Ahmad Khan	167/1/B	Darwha	Darwha
6	5	MS+3	Mehamud Khan Gulab Khan Mu	170/3	Darwha	Darwha
7			Mosinkhan Mohemudkhan	170/3	Darwha	Darwha
8	5-6		Owaisikarni Abdul Kadar	170/3	Darwha	Darwha
9			Nanda Brahmadev Bansode	162/1	Darwha	Darwha
10	6	S+3	Ashok Laxman Nimkar	162/3	Darwha	Darwha
11	6-7		Ashok Laxman Nimkar (Road)	162/2	Darwha	Darwha
12	0-7		Abhijit Singh Zod	163/2/B	Darwha	Darwha
13	7	Q+3	Vimal Bhaskar Badukale	163/2/A	Darwha	Darwha Darwha
14			Pawan Shivcharan Jaiswal	208/5	Darwha	The second secon
15			Ashok Shivcharan Jaiswal	208/2	Darwha	Bagwadi
16	7-8		Nayan Shivcharan Jaiswal	208/4	Darwha	Bagwadi Bagwadi
17			Shivcharan Mohanlal Jaiswal	208/1	Darwha	
18			Chandan Shivcharan Jaiswal	208/4	Darwha	Bagwadi
19	8		Abdul Gaffar Abdul Sattar	207	Darwha	Bagwadi
20	8-9		Bhaiyalal Ramjan Chaudhari	171	Darwha	Bagwadi
21	6-3		Abdul Kadar Hazi Abdul Sattar	204	Darwha	Bagwadi
22	9		Sunita Suresh Chafekar	168	Darwha	Bagwadi
23	9-10		Pramila Tukaram Chafekar	166	Darwha	Bagwadi
24	3-10		Duragaprasad Wasudevrao Pande	160	Darwha	Bagwadi
25	10		Tarabai Duragaprasad Pande	173	Darwha	Darwha Darwha
26			Minabai Bhaupendra Popat	176	Darwha	
27	10-11	Ī	Nilkanth Mahadevrao Chavare	175	Darwha	Bagwadi
8			Gajanan Shyamrav Bambal	176	Darwha	Bagwadi Bagwadi
9	11		Prakash M jirapure	177	Bagwadi	Darwha
0	11-12		Chotibai Ramjaan Luche	156/2	Bagwadi	
1	12		Rajabhau M jirapure	151/1	Bagwadi	Darwha Darwha
2			Nohan Laxman Kale	152	Bagwadi	Darwha
3	12.12	<u> </u>	Dasrath jayram Jire	148/4	Saikhed	200 0000
4	12-13		Shimaro Govinda Kale	147	Bagwadi	Darwha Darwha
5			Shitabai Babarao Shelake	149	Bagwadi	
5	13		ishor Dattatray Bagal	144/1	Darwha	Darwha
7	4 = 1		nant A Akhare	134	Darwha	Bagwadi
3	13-14		anardan Gopal Wankhade		Darwha	Bagwadi
9			anpatrao Goapl Wankhade	131	Darwha	Bagwadi
	14		lanikrao Gopal Wankhade	131	Darwha	Bagwadi
			rabhkar Sitaram Kale	128	Darwha	Saykheda
2	14.15		andanbai Ashok Kale	129	Darwha	Bagwadi
3	14-15	_	mesh Namdevrao Dhembe	127	Darwha	Bagwadi
		_	sha Namdevrao Dhembe	130	Darwha	Bagwadi
	15		shor Babarao Jire	226	Darwha	Bagwadi Saykheda

Executive Engineer E.H.V. Projects Division, M.S.E.T.C.L. Amravati.

Sr. No.	No.	Type of Tower	Name of cultivators With Add.	Sy No.	Тq	Village
46	15-16		Madhukar Mahadu Jadhav	227/1	Darwha	Kinhiwalgi
47	13-10		Akash Shankar Devkar	225	Darwha	Kinhiwalgi
48	16	P+0	Vishnu b Jadhao		Darwha	Kinhiwalgi
49			Manik Balaji Jadhao	277/2	Darwha	Kinhiwalgi
50	16-17		Panjab Balaji Jadhao		Darwha	Kinhiwalgi
51			Ravindra S Mate	220/1	Darwha	Kinhiwalgi
52			Rahul S Mate	219	Darwha	Kinhiwalgi
53	17	P+0	Ravindra Mahadeo Ughade	216	Drawha	Kinhiwalgi
54	1/-18		Aatik Ahmad M Sadik	217	Drawha .	Kınhiwalgi
55			Ukandrao Vyankat Chavhan	212	Darwha	Kinhiwalgi
56	18	P+0	Kavdu Thavraoji Ade	213/2	Darwha	Kinhiwalgi
57	18-19		Vilas Thavara Ade	237	Darwha	Kinhiwalgi
58	19	P+0	Tukaram Kisan Tuljapure /Vimalbai	210	Drawha	Kinhiwalgi
59	19-20		Dnyandev Pandit Ughade	258/1	Darwha	Kinhiwalgi
60	22	0.0	Pandurang Balaji Ughade	209	Darwha	Kinhiwalgi
61	20	Q+3	Amol Manikrao Ughade	208	Drawha	Kinhiwalgi
62	21	P+3	Mangla Sukhdev Dube	199	Drawha	Kinhiwalgi
63	24.22		Dilip Sitaram Jadhao	197	Darwha	Kinhiwalgi
64	21-22	7	Vijay Pundalik Harane	198	Darwha	Kinhiwalgi
65			Ramdas Nathuji Kamble	198/A	Darwha	Kinhiwalgi
66	22	P+3	Surekha S Dawedar	260	Drawha	Kinhiwalgi
67	22-23	0.2	Sagarbai Dilip Jadhao	192	Darwha Drawha	Kinhiwalgi
68	. 23	P+3	Sanjay Devrao Wankhade	189	Drawha	Kinhiwalgi Kinhiwalgi
69	23-24		Manoj Devrao Wankhade	187	Drawha	Kinhiwalgi
70 71	25-24	P+3	Sanjay Janardhan Naikwad Dilip Pandurang Patil	183	Darwha	Kinhiwalgi
-	244	P+3	Dattatray Manhor Puri	314	Drawha	Kinhiwalgi
72 73	24A	P+0	Prakash Kisan Raut	176/1/C	Drawha	Kinhiwalgi
74	24 A-24	1+0	Raju Pandurang Patil	314	Darwha	Kinhiwalgi
75	24	P+3	Gaurav Arun Mirase	182	Drawha	Kinhiwalgi
76	24-25	113	Sukhdev Barkaji Dayedar	176/2	Drawlia	Kinhiwalgi
77	25	O+0	Prakash Kisan Raut (Road)	176/1/C	Drawha	Kinhiwalgi
78	25-26	Q.0	Santosh Bapurao Rodge	173	Drawha	Kinhiwalgi
79	26	P+6	Vasnta M Jadhao	172	Darwha	Kinhiwalgi
80	27		Santosh Namdev Jadhao Manju Santosh	2	Darwha	Waghod,
81	27.20		Hitesh Udaysingh Rathod	8/1	Darwha	Waghol
82	27-28		Devidas Ganpat Punase	7	Darwha	Waghul
83	28	P+3	Lalsing M Rathod	6	Darwha	Waghul
84	28-29		Afsar Khan Niyamat Khan	11	Darwha	Waghol
85	29		Vakil Khan Nyamt Khan Pathan	10	Darwha	Waghol
86	29-30		Shravan Panjabrao Gayakwad	10	Darwha	Waghol
87	30	Q+0	Gulab Shkharam Ingale	183	Darwha	Dudhgaon
88	30-31`		Kiran Gulabrao Ingale	176	Darwha	Dudhgaon
89	30-31		Chotekhan Ashudaullakhan Pathan	177	Darwha	Dudhgaon
90	31	P+3	Chotekhan Ashudaullakhan Pathan	178	Darwha	Dudhgaon
91	32	P+3	Govindrao Bhikaji Gaikwad	172/3	Darwha	Dudhgaon
92	32-33		Dipak Manik Gawali	172/2	Darwha	Dudhgaon
93			Sukhdev Devrao Gaikwad	169/1	Darwha	Dudhgaon
94	33	P+6	Khurshidbano Khalil Ahemad Patel	169/1	Darwha	Dudhgaon
95			Tara Duraga Ganhalewar	169/1	Darwha	Dudhgaon



Sr. No.	Tower No.	Type of Tower	Name of cultivators With Add.	Sy No.	Tq	Village
97			Gajanan Tulshiram Dadhe	139	Darwha	Dudhgaon
98	34	P+6	Gajanan Tulshiram Dadhe	140	Darwha	Dudhgaon
99			Raju Aatmaram Dadhe	141	Darwha	Nadgavanla
100	34-35	h U-14	Ramrao Dhumaji Nagpure	112/2	Darwha	Dudhgaon
101			Sitabai Pandit Gaikwad	113	Darwha	Dudhgaon
102			Bhojraj Haribhau Kambale	112	Darwha	Dudhgaon
103	35	Q+3	Raju Aatmaram Dadhe	111/1	Darwha	Dudhgaon
104			Praibha Raju Dadhe	106	Darwha	Dudhgaon
105	35-36		Shaheb Khan Ajis Khan	108/1	Darwha	Dudhgaon
106		- L-X	Dhyaneshwar Kasinath More	108/2	Darwha	Dudhgaon
107	36	P+3	Raju Sambhaji Kathale	89	Darwha	Dudhgaon
108	37	P+3	Maroti Narayan Kathale	89	Darwha	Dudhgaon
109	38	P+3	Vimalabai Vashvanath Meshram	69/1	Darwha	Dudhgaon
110			Laxmibai Raghoji Khaire	65		
111	38-39		Manoj Kisanrao Kathale	88	Darwha	Ujona
112			Mohamad Rafiq Mohamad Fayyaj		Darwha	Dudhgaon
13	39		Lavesh Ramhari Rathod	87 86	Darwha	Dudhgaon
14	39-40		Datta Keshavrav Jadhav (Road)		Darwha	Pandhurna
15	40		Nandkishor Shankar Chavhan	81/1	Darwha	Ujona
16	40-41		Mangesh Ramhari Rathod	91/1	Darwha	Ujona
17			Subhash Vitthal Shelke	85	Darwha	Ujona
18		_	Kush Ramhari Rathod	91/1	Darwha	Ujona
19			Kishor Ramhari Rathod	87	Darwha	Ujona
20	40-41	ARCHITECTURE CONTRACTOR OF THE PARTY OF THE	C Class Forest	88	Darwha	Ujona
21	41		/ijay Pirchand Rathod	31	Darwha	Pandhurna
22			Bramhadev Fulsingh Rathod	108/2	Darwha	Pandhurna
23	41-42		Abhishek Bramhdev Rathod	113	Darwha	Pandhurna
24	42		Subhash Fulsingh Rathod	111	Darwha	Pandhurna
25			Subhash Fulsingh Rathod	112	Darwha	Pandhurna
26	42-43		ash Bramhadev Rathod	113	Darwha	Pandhurna
27	43		indian ci i a	111	Darwha	Pandhurna
28	43-44			115	Darwha	Pandurna
29	44		Bharti Gunwant Kale	3	Darwha	Pandurna
0	44		Sajanan Shankar Kale	1	Darwha	Pandurna
1	44-45	_	atan Dhansingh Rathod (Road)	18	Darwha	Pandurna
2	44-43	_	laresh Panjab Kale	48/1	Darwha	Pandhurna
_	AE .		amkrushna Babarao Kale		Darwha	Pandhurna
3	45		ijay Uttam Rathod (Road)	57	Darwha	Pandurna
4	45-46		jay Uttam Rathod (Road)	56	Darwha	Pandurna
5	46		emchand Vasram Rathod	53/2	Darwha	Pandhurna,
6	46-47		lhas vasram Rathod	53/3	Darwha	Pandurna
7	47		y Ramesh Jadhao	22/1/A	Dawha	Morgavhan
8	47		aribai Tarachand Rathod	22/2	Darwha	Morgavhan
	47-48		labai Charansingh Rathod	21/1	Darwha	Morgavhan
0	48		am Area		Darwha	Morgavhan
	49	NTU -	ajanan Shankar kale (E+R)	.1/2	Darwha	Morgavhan
2		Sa	njaykumar Shankar Kale (Road)	3	Darwha	Morgavhan
3	50		san Pratap Rathod	10/1	Darwha	Morgavhan
4	51		njay Shankarrao Kale	74/1	Darwha	Ladkhed
_	51-52		ay Homsingh Rathod	76/2	Darwha	Morgavhan
,	52	P+3 H	omsing Parasram Rathod	77	D	
	53		ankar Ganpatsa Gulhane	77	Darwha	Ladkhed



148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168	53-54 53-54 53-54 54 54-55 55 56 56-57 57-58 58 58-59	P+0 P+3 P+3	Lateefa Anjum Sher Afzal Khan Sher Afzal Khan Sattar khan Sher Afjal Khan Sattar Khan Sher Afjal Khan Sattar Khan Sher Afjal Khan Sattar Khan Vijay Vishwasrao Thakre(Road) Mohasin Ahemad Khan Yaseen Khan Inayat Khan Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	64 63 63 65 66 66 82 62 37/1	Darwha	Ladkhed Ladkhed Ladkhed Ladkhed Ladkhed Ladkhed Ladkhed Ladkhed Ladkhed
150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168	53-54 54 54-55 55 56 56-57 57 57-58 58 58-59 59	P+0 P+3	Sher Afjal Khan Sattar Khan Sher Afjal Khan Sattar Khan Vijay Vishwasrao Thakre(Road) Mohasin Ahemad Khan Yaseen Khan Inayat Khan Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	63 65 66 66 82 62 37/1	Darwha Darwha Darwha Darwha Darwha Darwha	Ladkhed Ladkhed Ladkhed Ladkhed Ladkhed
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	54 54-55 55 56 56-57 57 57-58 58 58-59	P+0 P+3	Sher Afjal Khan Sattar Khan Vijay Vishwasrao Thakre(Road) Mohasin Ahemad Khan Yaseen Khan Inayat Khan Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	65 66 66 82 62 37/1	Darwha Darwha Darwha Darwha Darwha	Ladkhed Ladkhed Ladkhed Ladkhed
152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	54-55 55 56 56-57 57 57-58 58 58-59 59	P+0 P+3	Vijay Vishwasrao Thakre(Road) Mohasin Ahemad Khan Yaseen Khan Inayat Khan Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	66 66 82 62 37/1	Darwha Darwha Darwha Darwha	Ladkhed Ladkhed Ladkhed
153 154 155 156 157 158 159 160 161 162 163 164 165 166 167	55 56 56-57 57 57-58 58 58-59	P+3	Mohasin Ahemad Khan Yaseen Khan Inayat Khan Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	66 82 62 37/1	Darwha Darwha Darwha	Ladkhed Ladkhed
154 155 156 157 158 159 160 161 162 163 164 165 166 167	55 56 56-57 57 57-58 58 58-59	P+3	Yaseen Khan Inayat Khan Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	82 62 37/1	Darwha Darwha	Ladkhed
155 156 157 158 159 160 161 162 163 164 165 166 167	56 56-57 57 57-58 58 58-59	P+3	Kamlakar Daulatrao Kelkar Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	62 37/1	Darwha	
156 157 158 159 160 161 162 163 164 165 166 167	56 56-57 57 57-58 58 58-59	P+3	Gajanan Chandrabhanji Dudhe Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe	37/1		Ladkhed
157 158 159 160 161 162 163 164 165 166 167	56-57 57 57-58 58 58-59	P+3	Uttam Chandrabhan Dudhe Kisanrao Vithobaji Dudhe		Darwha	
158 159 160 161 162 163 164 165 166 167	57 57-58 58 58-59		Kisanrao Vithobaji Dudhe	27/2		Ganeshpur
159 160 161 162 163 164 165 166 167	57-58 58 58-59 59			37/2	Darwha	Ganeshpur
160 161 162 163 164 165 166 167	58 58-59 59	P+0		45	Darwha	Ganeshpur
161 162 163 164 165 166 167	58-59 59	P+0	Sunil Kisan Dudhe	45	Darwha	Ganeshpur
161 162 163 164 165 166 167	58-59 59		Shaligram Vithoba Dudhe	44/4	Darwha	Ganeshpur
162 163 164 165 166 167	59		Shushila Shaligram Dudhe	44/3	Darwha	Ganeshpur
163 164 165 166 167		D.C	Raju Maroti Dhote Anil Marotrao Dhote (3leg)	563	Darwha	Ladkhed
164 165 166 167 168		P+6	Ramrao Raghoji Kasambe (1 Leg)	564	Darwha	Ladkhed
165 166 167 168	59-60		Parvatabai Maroti Dhote	563	Darwha	Ladkhed
167 168	60	P+0	Krushnaji Ravji Tayade	548	Darwha	Ladkhed
167 168	60-61		Eknath Janardan Domale	122/2	Darwha	Nadgavanlad
	61	Q+0	Raju Janardan Domale	122/1	Darwha	Nadgavanla
			Sachin Ghansham Dudhe	129	Darwha	Nadgavhan
169	61-62		Devrao Chandhuji Dudhe	120	Darwha	Nadgavhan
170	62	S+6	Indirabai Vithobaji Tayade	128	Darwha	Nadgavanla
171			Indirabai Vithobaji Tayade	128	Darwha	Nadgavanla
172	62-63		Chadrakant Vasntrao Deyulkar	7/2	Darwha	Nandgavan
173			Ramesh Laxman Tayade	130	Darwha	Nandgavan
174	63	5+6	Sanjay Natthu Shirsat	7/1	Darwha	Nadgavanla
1/5	G3-G4		Parasram Laxman Tayade (R+S)	14	Darwha	Nandgavan
176	64	P+3	Rajendra Motiramji Dudhe	13	Darwha	Banayat
177			Ramesh Vithobaji Gulhane	15/1	Yavatmal	Tiwasa
178	64-65		Devanand Ramlal Rathod	18	Darwha	Nadgagaon
179			Kalpana Devanand Rathod	18	Darwha	Kamathwada
180	65	P+6	Suresh Ramchandra Gulhane	45	Darwha	Nadgavan
181			Vinayak Bajirao Mote	47	Darwha	Nadgaon
182			Ramesh Pandurang Mode	48	Darwha	Nadgagaon
183	65-66		Aniket Pralhad Pandit	73/2	Darwha	Nadgagaon
184			Pralhad Maroti Pandit	73/1	Darwha	Nadgagaon
185	66	Q+0	Sujata Pralhad Pandit	73	Darwha	Nadgavan
186	66-67		Shrikrishna Nandkishor Chavhan	72/1	Darwha	Nadgaon
187	67		Santosh Subhash Chavhan	71	Darwha	Nandgavan
188			Vishnu Vitthalrao Maighane	47	Darwha	Kamathwada
189			Vishnu Vitthalrao Maighane	48	Darwha	Kamathwada
190	68-69		Rayvanti Ramchandra Ramteke	70	Darwha	Nandgavan
191			Avinash A Mahindre	50/2	Darwha	Kamathwada
192			Shital A Mahinde	50/4	Darwha	Kamathwada
193			Shital A Mahinde	50/3	Darwha	Kamathwada
194	69	,	Vitthal Ganpat Maighane	45	Darwha	Kamathwada
195			Makhanlal Dasarthlal Jaiswal	51/1	Darwha	Kamathwada
196	69-70		Pratibhatai Makhanlal Jaiswal	51/2	Darwha	Kamathwada
197			Ramesh Namdeo Bhagawat	67	Darwha	Kamathwada



Sr. No.	Tower No.	Type of Tower	Name of cultivators With Add.	Sy No.	Tq	Village
199	70-71		Kailas r Borakar	65/2	Darwha	Kamathwada
200	71A		Lilabai Sukhdev Waghmare	66	Darwha	Kamathwada
201	71 A-71		Vijit Sukhdev Waghmare	46/2/B	Darwha	Kamathwada
202	/1 A-/1		Mrunal R Bharne	52	Darwha	Kamathwada
203	71	P+6	Kamlabai Sukhadev Deshpande	65/1	Darwha	Kamathwada
204	71-72	1	Gangabai Uttamrao Meshram	65/1	Darwha	Kamathwada
205			Vijit Sukhdev Waghmare	46/2/B	Darwha	Kamathwada
206	72	P+3	Shivnandan jagannath Mor	77	Darwha	Kamathwada
207	72-73		Gunvant Divakar Thokal	43	Ner	Linga
208	73	S+0	Samdurabai Sudhakar Thokal	43	Ner	Linga
209	72.74		Narendra Gopal Ghule	44	Darwha	Linga
210	73-74		Sanjykumar Shankar Kale	51	Darwha	Ladkhead
11	74	R+0	Arvind Gopal Ghule	44	Ner	Linga
212	74.75		Shardabai Gopal Ghule	44/1	Ner	Linga
13	74-75		Shardabai Gopal Ghule	39	Ner	Linga
14	75	Dia	Narendra Gopal Ghule	39	Ner	Linga
15	75	P+3	Sanjay Gopal Ghule	41/2	Ner	Linga
216	76	0.12	Shobha Shankar Rathod	322	Yavatmal	Tiwasa
17	76	Q+3	Shardabai Gopal Ghule	41/1	Ner	Linga
18	77	P+6	Ashok Namdev Rathod	330	Yavatmal	Tiwasa
19	70	P+0	Gajanan Kisan Ingle	319	Yavatmal	Tiwasa
20	78	PTU	Sachin Gajanan Ingle	318	Yavatmal	Tiwasa
21	78-79		Vasant Ratansingh Rathod	392	Yavatmal	Tiwasa
22	79	Q+0	Ramlal Desa Rathod	385	Yavatmal	Tiwasa
223			Devidas Desa Rathod	200	D	-
224	80	R+0	Ram Rajaram Rathod	386 126	Darwha Darwha	Tiwasa Tiwasa
225	81 82	P+3	Lalsingh C Chavhan	383	Yavatmal	Tiwasa
226	82 A	S+6	Lata Ashok Ayyar Surendrakumar Uditnarayan Mishra	3	Darwha	varjai
1	02 A	310	Vijay Ravindra Mishra	2	Darwha	varjai
228	82-83					
229		10-	Sarkar E Class	94	Darwha	varjai
30	83	P+0	Vasuda Vasantrao Jiwane	95	Darwha	Warjai
31	84	Q+0	Shashank Vasantrao Jiwane	93	Darwha	Warjai
232	85	P+0	Subhadra Khanduji Shende	92/2	Darwha	Warjai
233	05.00		Santosh Narayan Umate	91/1	Darwha	Warjai
34	85-86		Narendra N Umate	91/2	Darwha	Warjai
35	86	P+0	Ghanshyam Narayan Umate	91/3,91/3	Darwha .	Warjai
36			Bharat Madhavrao Pane	30/1/C	Yavatmal	Jamwadi
37			Suresh Parashram Kawane	90	Darwha	Warjai
38	86-87		Ganesh P Kawane	89	Darwha	Warjai
39			Mangesh N Kawane	90	Darwha	Warjai
40	F 94 5		Ramesh Parashram Kawane	88	Darwha	Warjai
41	87		Bahalchandra Kawane	87	Darwha	varjai
42			Subhash U Kawane	85	Darwha	Warjai
43	87-88		Jitendra U Kawane	86	Darwha	Warjai
44	88		Baban Hirabaji Chavare	30/2	Yavatmal	Jamwadi
45	88-89		Gopalrao Zhunbaji Kalokar	31/1	Yavatmal	Jamwadi
46	89		Dashrath Zhunbaji kalokar	32/2	Yavatmal	Jamwadi
	89-90		Dipak Zunbaji Kalokar	32/1	Yavatmal	Jamwadi
47 48	90		Dipak Zunbaji Kalokar	30/3	Yavatmal	Jamwadi
48	91		Digamber Nathuji Shelke	26/2	Yavatmal	Jamwadi

Executive Engineer E.H.V. Projects Division, M.S.E.T.C.L. Amravati

Sr. No		.,,,,	Name of cultiveters taril a tr	Sy No.	Тq	Village
250	92	D.O	Ganpat Behalf Mainabai Tanbaji Dole	25/2		
251	. 92	R+0	Vandana Vijay Thakare	25/2	Yavatmal	Jamwadi
252	93	P+3	Mainabai Tanbaji Dole	26/1	Yavatmal	Jamwadi
253	94	P+0	Ganpat Tanbaji Dole	25/2	Yavatmal	Jamwadi
254	95	P+3	Prakash Ganpatrao Dole	.20/1	Yavatmal	Jamwadi
255		Q+0	Ashak Damasa A. III	204/2	Yavatmal Yavatmal	Echori
256			Kamala Rambhau Ghulhane	182/1	Yavatmal	Echori
257			Mahadev Parasram Katore	183	Yavatmal	Echori Echori
258		P+3	Maroti Kanhu Nagmote	184	Yavatmal	Echori
259			Sushant Subhash Katore	186	Yavatmal	Echori
260		P+0	Vishwanath Gomaji Katore	187	Yavatmal	Echori
261	98-99		Bhimrao Pandurang Shinde	189	Yavatmal	Echori
262	99	Q+3	Radhabai Maroti Pardhi	190	Yavatmal	Echori
263	100	P+3	Samudaik Sahakari Sheti Sanstha Echori	164	Yavatmal	Echori
264	100-10		Vishnu Parashram Murmure	157	Yavatmal	Echori
265	101	P+3	Rekha Omkar Dhare ,	156	Yavatmal	Echori
266	101-10		Shankar Vitthalrao Dhare	155	Yavatmal	Echori
267	102	P+0	Yogendra Pundalik Aalone	154	Yavatmal	Echori
268			Mahadev Govindrao Katore	183	Yavatmal	Echori
269	102-103	3	Suresh Ramchandra Katore	147	Yavatmal	Echori
270			Mahadeo Govindrao Katore	150	Yavatmal	Echori
271	122		Gajanan Sadashiv Ningurkar	98	Yavatmal	Echori
272	103	P+3	Govardhan Shankar Wankhade	97	Yavatmal	Echori
273			Lata Gajanan Arsod	135	Yavatmal	Echori
74	103-104		Sandip Yashvant Dole	140	Yavatmal	Echori
75			Girdhar Gunwant Dole	138	Yavatmal	Echori
76	101		Datta n Yelankar	133	Yavatmal	Echori
77	104	P+3	Subhash Gunvant Dole	139	Yavatmal	Echori
78			Amit Gunvant Dole	137	Yavatmal	Echori
79	104-105		Pushpabai Wasudev Chandure	134	Yavatmal	Echori
80			Ushabai Pandurang Chavan	136	Yavatmal	Echori
81			Shantabi Gunvant Dole	138	Yavatmal	Echori
82	105		Pravin Bhaurao Bhoyar	127	Yavatmal	Echori
83	105		Latabai Bhaurao Bhoyar	127	Yavatmal	Echori
84			Bharat Bhaurao Bhoyar	127	Yavatmal	Echori
35	106		Pravin Bhaurao Bhoyar	123	Yavatmal	Echori
36	107		Bharat Bapurao Bhoyar	127	Yavatmal	Echori
37	107	S+25	Kamlabai Pandurang Shende	122	Yavatmal	Echori
8	108		adesh Shamrao Yalankar	32	Yavatmal	Echori
9	100	0.0	Ravindra Ambadas Samarth (2 Leg)	34	Yavatmal	Echori
0	109		Pravin Mithalal Gandhi	30/2	Yavatmal	Echori
1	110	Q+0 1	Namdev Harisa Rajgure	132/1	Yavatmal	Khinhi
2 3 1	111		Namdev Harisa Rajgure	132/1	Yavatmal	Khinhi
4	11-112		/ina Shankar Chakule	120	Yavatmal	Khinhi
	112	R+0 J	awaharlal Narayandas Chattani	118	Yavatmal	Khinhi
_			Rutuja s Lachake	148/1	Yavatmal	- Khinhi
6 1			leela Sumant Patange	149	Yavatmal	Khinhi
7 1		R+3 N	leela Sumant Patange	149	Yavatmal	Khinhi
3 11	19	S+0 S	unanda Nivrutti Bongale	181	Yavatmal	Khinhi

Executive Engineer E.H.V. Projects Division, M.S.E.T.C.L. Amravati.





MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD. CIN No. U40109MH2005SGC153646

From:

Additional Executive Engineer, EHV Line Project. Sub-Division 1 C/o Purshottam Jirapure Plot No.63-64, Sattyanarayan Layout, Arni Road Yayatmal

Mob no: 8554993862

E-mail- adee 1624@mahatransco.in

Add. EE/EHV/LINES/PROJ/S/DN-1/YTL/36

To:

The Executive Engineer
EHV Project Division,
A Wing Ground Floor, Prakash sarita
220kV S/Stn Campus Morshi Road,
Amrayati 444 601.

Dt.:-09.02.2023

Subject:- Submission of WCR of LILO on 132KV Yavatmal-Yavatmal MIDC line for 132 KV Darwha S/s.

Ref: No claim certificate from M/s Shreem Electric vide Ltr.No.5394/23 Dt.08.02.2023

With the reference to above subject please find enclosed herewith the WCR in r/o LILO on 132KV Yavatmal-Yavatmal MIDC line for 132 KV Darwha S/s.The line is successfully commissioned & put to use on dtd. 28.11.2022 at 21:46 & 23:15 Hrs respectively from 132KV Darwha S/Stn. & stood Ok. Total line length is 34.6 Km.

Addl. Executive Engineer
EHV Line Proj. Sub-Dn-I
MSETCL, Yavatmal

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LIMITED EHV PROJECT DIVISION, Yavatmal.

WORK COMPLETION REPORT of LILO on 132kV Vavatmal Vavatmal MIDC Line for 132kV Darwha S/Stn.

-	Traine of Sub - Division	LO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/S EHV S/Stn Project Sub-Division, Yavatmal.
	Name of Division	EHV Project Division, Amravati.
(C	Name of Agency	M/s Shreem Electric Ltd ,Jaisingpur
(D)	LOA No. & Date & Amount	MSETCL/CO/DCM/D&T/TKC-L/T-1797/Supply&ETC/ No.2502 & 2503 dated.07.03.2018
NE S	(i) Supply	Rs. 8,53,31,057,77
54	(ii) Erection	Rs. 2,96,12,565.72
1	Name of Scheme	LILO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn
	Name of Sub - Scheme	
1b	Scope of Work	LILO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn
	T.S.Estimate No. & Date	Not Known
3	Amount of Sanctioned Estimate Rs.	Not Known
4	Amount of Work Order	
	(i) Supply	Rs. 8,53,31,057.77
	(ii) Erection	Rs. 2,96,12,565.72
	TOTAL	Rs. 11,49,43,623.49
5 4	Actual Expenditure incurred	
	i) Supply	Rs. 10,96,11,101.90
(i	ii) Erection	Rs. 4,03,92,310.47
T	OTAL	Rs. 15,00,03,412.37
6 5	avings (4-5) in Rs.	Nil
7 %	of Savings (6 x 100) / 4	Nil
8 Ex	ccess if any (5 - 4) in	Rs. 3,50,59,788.88
	Excess over Estimate (8 x 100)/4	30.50%
	ate of Commencement of Work	31.12.2019
11 Da	ate of Scheduled Completion	11.09.2019
11 Da	ate of Actual Completion of Work	31,12,2019
12 Da	te of Asset Commissioned & put to use	28.11.2022.
	tification for excess/savings	
	marks if any	

Prepared By

Checked By

Assistant Engineer EHVLine Project S/Dn.1 Yavatmal Addl. Exe. Engineer EHVLine Project S/Dn.1 Yavatmal

EXECUTIVE ENGINEER EHV PROJECT DIVISION, MSETCL, AMRAVATI

Dy Conservator of Forests Yavamal Division

LILO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn. Name of EHV project. LILO on 123kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn. LILO on 123kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn. Scope of the work: Work order No & Date: MS Shreem Electic Lid Jasinnpur Ms Shreem Electic Lid Jasinnpur

Name of Contractor-Start Date of Project (Ze Target Date of Complet

									-	
		LOA Quantity & Rate	1	-				1		Amount
Item S Code BOM	SAP material No.	Description of Material	Juits	Units LOA Q19	Unit Rate	Amount	Final QV Qty	Operato		
	800000038	including including inks etc.	ξ	378	88424.15	33424328.70	601	599.711	7,0	53028935.42
		approved design and drawing provided by the purchaser.	1	5	125862 09	1762069.26	22	21.578	-	2715852.178
2	800000003	Supply at site store of galvanised botts or nuis with a printy more plain washers for 132 KV line towers/structures/accessories.	2	20.4	120002.00		c			0
		Supply of Tower Accessories			20000	34139 76	127	123	1	35580.30
-	500000009	a) Danger Board	SON	118	244.04	28545.38	127	123	1	25,54,50
4	500003465	b) Number Plate	SON	911	390.21	92089.56	254	246	1	27.0000
5	500000712	c) Phase plates (Set of RYB)	Noe	118	402.38	47480.84	127	123	1	575514.54
9	500003466	d) Circuit plates	Set	118	4678.98	552119.64	127	123	1	38123.12
7	500003467	e) Anti-climbing devices with Barbed wire	Set	83	680.77	56503.91	63	8	1	0
8	500000713	f) Bird guard			A STATE OF THE STA	A STATE OF THE STA			-	0
	Control of the second	Insulators and Hardwares					1007	4004		3528536.72
1		DISC Insulators I not man	Nos	5,600	861.88	4826528.00	+	8881		9079490.35
0	500000324	a) Disc Insulator - 120 KN	Nos	4,600	1022.35	4/02010.00	-		-	0
2	500000353	U) DISC III SUITANE SUITABLE for 0.2 ACSR Panther conductor			11.000	1003716 66	321	321		824138.61
1	50000000	-	Set	426	15,000	AA 535954	-	72		358768.08
- :	50000000		Set	88	4902.03	11/88128 QG	-	636		1901919.84
7	00000000		Sel	384	2990.44	22401008	-	120		783063.6
2 :	50000000		Set	8	652333	201010	-			0
-	1	Supply of Conductor & Accessories								0
T		conductor				-	216	214 139	30	33170649 32
15	500000790	b) 0.2 Panther ACSR, copper equivalent conductor incurring 1.%	Kms	216	154902.42	33458922.12	1	1	+	
		Acressorles for 0.2 ACSR Panther conductor		1	00000	00 00002	1	-	65	42603.31
0.	500000813	-	3	1	122.03	42764 00	-	-	19	4850 32
0 1	500000814	b) Repair sleeves	Nos	1	203.20	660051 56		-	404	432675 92
- 5	500000	c) P.A. rods	Set	1	+	200000	+	-	1506	030156 66
0	5000000		Nos	1,416	023.01	000001	-	-	-	00.00
2	200005		1		-				1	
		Earth wire	1			+	100		25 94R	
20	500000785		Kms	S	40007.00	1631266.00		+		000000000000000000000000000000000000000
	THE REAL PROPERTY.	Accessories for Earth wire (7/3.15 mm)	00		652 70	52223 20		146	146	95307 34
21	500000192	a) Tension Clamps	100	00 00	627.26	+		63	63	39517 38
22	500000791		No		161 68	-	-	5	5	808 4
23	500000793	c) Mid span Joints	Nos	L	+	-	-	210	210	164915.1
	-	TOUGH HOUSE								-



M



Name of EHV project: Scope of the work: Work order No & Date.: Name of Contrctor-Start Date of Project (2

132 KV Darwah - Yavatmal line

LILO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn.

LILO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn.

MSETCL/CO/DCM/D&T/TKC-L/T-1797/Supply&ETC/ No.2502&2503

M/s Shreem Electnc Ltd Jaisingpur

te): 12-03-2018

ar	get Date of Co					Date of Actual Co	fig. Cate Size		PERSONAL PROPERTY.
Sr io.	SAP material No.	LOA Quantity & Rate of Darwah- Yava Description of Material		LOA Qiy	Unit Rate	Amount	Final QV Qty	Operatd Qty	Amount
-	1.0.						35	0	0
_	200000000	Survey	Km	35	3851.90	134816.50	35	0	0
1		Preliminary Survey	Km	35	13240.90	463431.50 189585.55	35.5	35.433	191930.9941
2		Detail survey	Km	35	5416.73	189585.55			
3	300002036	Check survey Excavation of pits for tower footing in earthsoil of all including removing of excavated matrial beyond tower limits up to 50 mtrs. Lead and all lifts, shoring, shuttering, dewatering, preparation of bed for foundation and back filling after casting and curing of foundations with ramming etc.				2407.20	0	0	0
_		a) Normal soil	CuM	10	240.72	126570.00	755.02	755.015	318540.8285
4		b) Hard Murrum/Soft Rock	CuM	300	421.90	3791760.00	8012.27	8012.044	2893309.329
5	300002038	c) B C soil/submerged soil	CuM	10500	361.12	975015.00	2090.75	2090.748	2265011.846
6	300002039	c) B C solipsadinerged som	CuM	900	1083.35		413.978	413.978	647805.1937
7	300002040	d) Dry fissured rock e) Hard rock by chiseling	CuM	150	1564.83	234724.50	410.010	7 1-42-4	
8	300002041	132 KV D/C Tower stub setting in all types of soil					0		0
			33				-		
		with the help of template	Per				63	63	151666.2
9	300001896	2 Deg.	Loc.	83	2407.40	199814.20	03		
_	1100000000		Per				25	25	90253.75
10	300001901	15 Deg	Loc.	21	3610.15	75813.15	25	25	
,,	300001001		Per	A EXPENSE			0	9	37917.09
11	300001907	30 Deg	Loc.	6	4213.01	25278.06	9		at the second of
1	00000.007		Per		Tey (D.L.)			21	101112.27
12	300001913	60 Deg	Loc.	8	4814.87	38518.96	21	- 41	
. 4	000001010	84 186 185 185 185 185 185 185 185 185 185 185	Per	THE PARTY OF			2.27	4	28889.24
		Special Tower Special Towers(exceeding +9 mtr. Extension)	Loc.	0	7222.31	0.00	4	-	Latin to be desired.
			Per				_	0	0
		Horizontal tower	Loc.	0	3611.15	0.00	0	0	
		of soils with the help of templete/ PROP including transportation if required to the desired location, fixing the stubs in position as per the alignment, fixing and leveling the templete and the stub as directed.	Per						0
13	300001896	2 Deg.	Loc.	0	4213.01	0.00	0		U
	100000000000000000000000000000000000000		Per						0
14	300001901	15 Deg	Loc.	0	4814.87	0.00	0		0
			Per				1	1	6018.59
15	300001907	30 Deg	Loc.	. 0	6018.59	0.00	-		0010.00
1			Per			0.00		1	6620 45
16	300001913	60 Deg	Loc.	0	6620.45	0.00	4	1	0020.43
ľ	300001210		Per	500		THE REAL PROPERTY.			
		Special Tower Special Towers(exceeding +9 mtr. Extension)	Loc.		7824.17		0		0
堻	HERE THE		Per						
1		Horizontal tower	Loc.	THE PARTY	4213.01		0		0
Commission of the Control of the Con		Providing and casting in-situ cement concrete of trap metal of size 20 to 40 mm as aplicable, including fixing of stub units with bolts & nuts with fixing of stub setting templates, form boxes, fishing, coping and curing for 21 days complete	CuM	125	6620.45	827556.25	140.821	140.821	932298 3895
F	200002042	a) 1:3:6 (M-10)	CuM	1200	7824.17	9389004.00	1878.725	1878.725	14699463 78
7	300002042	b) 1:1.5:3(M-20)	Cuivi	1200	1024.17	3303004.00	10,0,123	1070.725	1,000,0010
8	300002043	b) 1:1.5:3(M-20) Providing and fixing of steel rainfourcement in concrete	MT	40	80840 44	3225054 40	02.002	93.003	7419960 067
9	3/3/00/2044 [4.41-		40	80649.11	3225964.40	92.003	92 003	216669.24
		the with nine type earthing	Nos.	60	6018.59	361115.40	36	36	
20			Nos.	58	13240.90	767972.20	91	91	1204921 9
21	300002046	Complete erection of DC/MC towers (including special	МТ			3 4 7 1			The second second
22		towers) with its extensions for 132 KV lines		373	6620.45	2469427.85	593	581.68	3850983.356
22			137.00	7000			0		0
1		Benching	CuM	10	193.07	1930.70	0	0	0
23	300002053	a) Normal soil/B C soil	CuM	100	325.36	32536.00	0	0	0
24	300002054	b) H M/S R/ F R	CuM	200	325.36	65072.00	216.19	216.19	70339.5784
15	300002055	c) FR/HR	CuM	100	962.97	96297.00	0		0
6	300002055	d) F R/ H R Protection of tower footing by uncoursed rubble stone: Excavation of foundation for revetment wall							
			CUM	100	240.72	24072.00	0		0
27	300008641	Normal soil/sand/gravel/soit Hidrum	CUM	100	361.12	36112.00	0		0
28	2000008642	R C Soil/Submurged soil	CUM	100	421.90	42190.00	0		0
		Soft Rock/Hard Murum	CUM	600	1083.35	650010.00	389.83	389.83	422322.3305
29	2000000644	Day Fissured rock	CUM	300	1564.83	469449.00	0	363.63	0
	300000044	Hard rock by chiseling.	COM		,004.00	100170,00	"		
30	300008645	Hard rock by clinical including							
30 31 32		Hard rock by chiseling. Random rubble stone masonary for retaining wall including excavation base padding	CuM	400	2166.69	866676.00	0	A STATE OF THE STA	0

Sr No.	SAP material No.	Description of Material	Units	LOA Qty	Unit Rate	Amount	Final QV Qty	Operatd Qty	Amount
33	300008648	Providing & constructing of UCR masonry of trap stone in cement mortar 1:6 in super structure including racking out joints on the inside as no plastering to be done from inside, scaffolding, dewatering, compacting, curing etc. complete in all respects as per the drawings to be furnished by the MSETCL.	CuM	0	2936.60	0.00	375.44	375.44	1102517 104
34	300008646	Providing & casting in situ cement concrete of 1:2:4 of trap metal for copping of retaining wall including cost of the cement, sand, metal, water, dewatering, form work, compaction & curing etc. complete in all respect	CuM	0	7463.05	0.00	8.55	8.55	63809 0775
35	300008647	Providing & casting in situ cement concrete of 1:3:6 of trap metal for copping of retaining wall including cost of the cement, sand, metal, water and form work, compaction & curing etc. complete in all respect.	CuM	0	6620.45	0.00	34.41	34.41	227809 6845 0
36	FOR BRIDE	Stringing		C STEEL			0		
37	300002057	Stringing of three phases of both the circuits on D/C, D/C lowers with 0.2 ACSR Panther conductor	kms	35	72223.08	2527807.80	34.63	34.563	2496245.314
		Stringing of three phases of both the circuits on D/C, M/C lowers with 0.2 ACSR Panther conductor	kms	0	87871.41	0.00	0.87	0.87 35.432	76448.1267 533126.8794
38	300000654	Stringing of of earth wire for 132 KV	Kms	35	15046.48	526626.80	36	33.432	000120
39	300007351	Electric Tack welding to GI Nut Bolt to D/C Tower	Per Tower	118	2648.18	312485.24	127	127	336318.86
40		Dismantling/De stringing of existing 66KV lines	101101	110			0		0
40	300000656	a) Single circuit line	Kms	3	44296.82	132890.46	3	0	0
	THE RESERVE	C)Removal of stubs upto 1.5 mtr.	Per Tower	0	8426.03	0.00	100	0	0
-	300000661	Dismantling of all types of existing towers and all its	MT	100	5296.36	529636.00	0	0	0

Addl. Exe. Engineer EHVLine Project S/Dn.1 Yavatmal



MAHA!

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD. CIN No. U40109MH2005SGC153646

From:

Additional Executive Engineer, EHV Line Project. Sub-Division 1 C/o Purshottam Jirapure Plot No.63-64, Sattyanarayan Layout, Arni Road

Yavatmal

Mob no: 8554993862

E-mail- adee1624@mahatransco.in

Add. EE/EHV/LINES/PROJ/S/DN-1/YTL/36

To:

The Executive Engineer
EHV Project Division,
A Wing Ground Floor, Prakash sarita
220kV S/Stn Campus Morshi Road,
Amrayati 444 601.

Dt.:-09.02.2023

Subject:- Submission of WCR of LILO on 132KV Yavatmal-Yavatmal MIDC line for 132 KV Darwha S/s.

Ref: No claim certificate from M/s Shreem Electric vide Ltr.No.5394/23 Dt.08.02.2023

With the reference to above subject please find enclosed herewith the WCR in r/o LILO on 132KV Yavatmal-Yavatmal MIDC line for 132 KV Darwha S/s.The line is successfully commissioned & put to use on dtd. 28.11.2022 at 21:46 & 23:15 Hrs respectively from 132KV Darwha S/Stn. & stood Ok. Total line length is 34.6 Km.

Addl. Executive Engineer
EHV Line Proj. Sub-Dn-I
MSETCL, Yavatmal



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LIMITED EHV PROJECT DIVISION, Yavatmal.

WORK COMPLETION REPORT of LILO on 132kV, Voyatmal Voyatmal MIDC Line for 132kV Darwha S/Stn

		LO on 132kV Yavatmal-Yavatmal MIDC Line for 132kV Darwha S/S EHV S/Stn Project Sub-Division, Yavatmal.
	Name of Division	EHV Project Division, Amravati.
(0	Name of Agency	M/s Shreem Electric Ltd ,Jaisingpur
(0	O) LOA No. & Date & Amount	MSETCL/CO/DCM/D&T/TKC-L/T-1797/Supply&ETC/ No: 2502 & 2503 dated 07.03.2018
	(i) Supply	Rs. 8,53,31,057,77
	(ii) Erection	Rs. 2,96,12,565.72
	1 Name of Scheme	LILO on 132kV Yayatmal-Yayatmal MIDC Line for 132kV Darwha S/Stn
1:	Name of Sub - Scheme	
11	Scope of Work	LILO on 132kV Yayatmal-Yavatmal MIDC Line for 132kV Darwha S/Stn
	T.S.Estimate No. & Date	Not Known
	Amount of Sanctioned Estimate Rs.	Not Known
	Amount of Work Order	
	(i) Supply	Rs. 8,53,31,057.77
_	(ii) Erection	Rs. 2,96,12,565.72
	TOTAL	Rs. 11,49,43,623.49
5	Actual Expenditure incurred	100.22,40,40,000.40
	(i) Supply	Rs. 10,96,11,101,90
110	(ii) Erection	Rs. 4,03,92,310.47
1	TOTAL	Rs. 15,00,03,412.37
5 5	avings (4-5) in Rs.	Nil
7 9	6 of Savings (6 x 100) / 4	Nil ·
	xcess if any (5 - 4) in	Rs. 3,50,59,788.88
	Excess over Estimate (8 x 100)/4	30.50%
	ate of Commencement of Work	31.12.2019
	ate of Scheduled Completion	11.09.2019
	ate of Actual Completion of Work	31,12,2019
	ate of Asset Commissioned & put to use	28.11.2022
	stification for excess/savings	
	marks if any	

Prepared By

Checked By

Assistant Engineer EHVLine Project S/Dn.1 Yavatmal Addl. Exe. Engineer EHVLine Project S/Dn.1 Yavatmal

EXECUTIVE ENGINEER EHV PROJECT DIVISION, MSETCL, AMRAVATI





2.7 A typical 'Sag Template' drawing is shown in Appendix – B.

3.0 TOWER SPOTTING

- 3.1 The Sag Template is applied to the profile by moving the same horizontally while always ensuring that the vertical axis is held vertical, i.e., in line with the vertical lines on the profile sheet.
- 3.2 The following clearances shall be provided between the lowest conductor of the line and the ground as per clause 58 of CEA (Measure relating to safety and Electric supply).

Sl. No. Nominal System Voltage		Minimum Ground Clearance (Metres)	
1.	132 kV 1	6.10	
2.	220 kV	7.00	
3.	400 kV	8.84 .	
4.	800 kV	12.40	

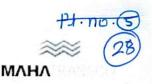
For High Voltage Direct Current(HVDC) lines, the clearance above ground shall not be less than:

l. No.	DC Voltage (KV)	Minimum Ground Clearance (Metres
1.	400	9.4
2.	500	10.6
3.	600	11.8
4.	800	13.9=

3.3 The left hand side of the tower footing curve is placed at the starting point of each section.

Initially, the template is shifted to the right, ensuring at all times that the tower footing curve is touching the starting point, to a position where the ground clearance curve is just above the ground profile, i.e., the ground clearance curve should not touch or cross the ground line plotted on the profile. The second tower location is then marked at the point where the tower footing curve on the right hand side cuts the ground profile.

- 3.4 The second tower location is then used as the reference and the third tower location is marked in a similar manner as above. This is continued till the end of the section is reached.
- 3.5 It may be possible that a very short or very long span remains at the end of the section. In such cases, depending on the economics of the options, the span can be distributed evenly or other spans in the section can be increased (not normally exceeding the basic span) by using tower extensions wherever possible.
- 3.6 The ground clearance curve shall not only clear the route centre line profile but also the profile to the left or right of the centre line upto a distance equal to maximum cross arm spread on either side.
- 3.7 Besides normal ground clearance, the clearance-between power conductor and objects like other power or telecommunication lines, houses, trolley wires, roads, railway tracks, canal embankments etc., is also to be checked. In these cases, the clearance of the conductor from these objects is to be maintained.



4.2 For lines upto 220 kV, IS 5613 (Part 2 / Sec 2) recommends the following right of way widths taking into consideration the theoretical requirement of right of way and transport requirements of maintenance:

Transmission Voltage Recommended Width of Right of Way		
132 kV	27 meters	
220 kV	35 meters	

4.3 For 400 kV lines, the following right of way width, as per present MSETCL practice, shall be maintained taking into consideration the theoretical requirement of right of way and transport requirements of maintenance:

Transmission Voltage	Recommended Width of Right of Way
400 kV	52 meters

5.0 MAINTAINING STATUTORY CLEARANCES

- 5.1 Clause 61, of CEA(Measure relating to safety and Electric supply) prescribes the horizontal clearance which is to be maintained from buildings / parts of buildings.
- 5.2 The horizontal clearance, on the basis of maximum deflection due to wind pressure, which should be maintained from buildings / parts of buildings, shall not be less than the values given below.

T	ransmission Voltage	Minimum Horizontal Clearance
	132 KV	2.9 meters
现的数数要数。 State 2000年	220 KV	3.8 meters
	400 KV	5.6 meters
	800 KV	9.2 meters

5.3 The maximum deflection of the conductors shall be calculated on the basis of the wind pressure as per Clause 57, of CEA(Measure relating to safety and Electric supply).

6.0 ROUTE MARKING

At the starting point of the commencement of route survey, at all angle / section points, at every 1.25 km. or part thereof, and at the end point of the route survey, concrete pillars 200 x200 mm square and height 300 mm shall be buried firmly in the ground for easy identification. The concrete pillars shall have 'MSETCL' marked on them. The top of these pillars shall be 50 mm below ground level and should not normally project above the ground level. A wooden peg of size 50 x 50 mm and length 150 mm is embedded in the center of the concrete pillars when they are casted. Nails of 25 mm length shall be fixed on the top of these pegs to indicate the location of the center of the survey instrument.



ANNEXURE. W

SACTIONED MBR COPY IS ENCLOSED HEREWITH



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.

(CIN No. U40109MH2005SGC153646)

From,

Name of Office: Chief Engineer (Project Scheme)

Office Address: 'Prakashganga', MSETCL, Plot no. C-19, E-Block, Bandra Kurla complex, Bandra (E), Mumbai - 400051

Contact No:

(O) 26595131 / (P) 26595130

FAX:

022-26598587

Email Id:

cepd@mahatransco.in

To,

The Chief Engineer

EHV Project cum O&M Zone

MSETCL

Amravati Ref. No:- MSETCL/CO/Project Scheme/Scheme-III/ 132 kV Linkline/ 9229

Date: 18/68/17

Sub.: "Construction of LILO on 132 kV Yavatmal – Yavatmal MIDC line at 132 kV Darwha s/s

Dist-Yavatmal"

Ref.: Board Resolution no. 119/12 dtd. 05.08.2017.

The scheme mentioned above has been approved by the Board of Directors vide Board Resolution no. 119/12 dtd. 05.08.2017 at an estimated cost of Rs. 2654.00 Lakhs. The copy of the sanctioned scheme* is enclosed herewith for further needful action.

It is to inform that Executive Engineer of respective EHV Project Division is the nodal officer for monitoring total execution of work for the scheme. The brief description of activities to be monitored by nodal officer is enclosed herewith.

It is requested to provide needful manpower and machinery to the officer, so that the project activities are monitored efficiently and timely.

* Detailed scan copy of scheme report will be mailed separately. (*Email Id*: prjscheme@gmail.com) Encl: As above.

Mrs. C. N. Bendre

W15-

Chief Engineer (Project Schemes)

Copy s. w. rs to:

1) The Dy. Secretary (Energy), Govt. of Maharashtra, Mantralaya, Mumbai – 32

Copy s.w.rs.to:

- 1) The Chief Engineer (STU), MSETCL, Prakashganga, Mumbai.
- 2) The Chief Engineer (O&M), MSETCL, Prakashganga, Mumbai.

10.ATR_Field_LILO at Darwha.doc Page 1 of 3

- 3) The Chief Engineer (D C&M), MSETCL, Prakashganga, Mumbai.
- 4) The Chief Engineer (PAC), MSETCL, Airoli, Mumbai.
- 5) The Chief Engineer (Civil), MSETCL, Prakashganga, Mumbai.
- 6) The Chief Engineer (Infra), MSEDCL, Prakashgad, Mumbai.
- 7) The C.G.M. (F&A), MSETCL, Prakashganga, Mumbai.

Copy f.w.cs to:-

- 1) The Supt. Engineer, Pre-Tendering/Post Tendering, MSETCL, Mumbai.
- 2) The Supt. Engineer, Transmission (O & M) Circle, MSETCL, Amravati.
- 3) The Supt. Engineer, EHV Project Circle, MSETCL, Amravati.
- 4) The Supt. Engineer, Civil Construction cum Maintenance Circle, MSETCL, Amravati.
- 5) The Supt. Engineer, O& M circle, MSEDCL, Yavatmal.
- 6) The Sr. Manager (HR-tech establishment), MSETCL, Prakashganga, Mumbai.
- 7) A.G.M.(C.F.), MSETCL, Prakashganga, Mumbai.
 - For issue of BCN, financial tie up and budget provision for sanctioned scheme.

Copy to:

- 1) The Executive Engineer, EHV Project Division/Civil Division, MSETCL, Amravati.
- 2) The Executive Engineer Trans O & M Division, MSETCL, Yavatmal.
- 3) The Executive Engineer, (Design & Engg –I/Admin/MERC/FTU) MSETCL, Prakashganga, Mumbai.





Activities to be monitored by the Officer

- To co-ordinate with Civil Division for land development such as plot fencing, leveling, approach road, water availability drainage, soil strata and soil resistivity data compilation & information to Head Office and monitoring weekly progress of work.
- 2) To co-ordinate with MSEDCL Authorities for power connection.
- 3) To report the handing over of site to turnkey contractor.
- 4) To keep watch on the activities of turnkey contractor regarding timely receipt of substation layout, Estimate design, Material specification and drawing finalization. Timely inspection of material both at pre-dispatch and pre-commissioning stage. To inform Circle office/Zone as well as C.E.(Project-Scheme) in case of bottlenecks in the proceedings.
- 5) To monitor the receipt of material at site of sub-station.
- 6) To monitor the activities of erection of sub-station for weekly respect to Circle office.
- To monitor the receipt of material and progress of work for lines for weekly report to Circle Office.
- 8) To submit the claims to REC/PFC as per receipt of material & progress of work.
- 9) Timely recording of contractors' bill and submission to higher office.
- 10) To monitor the expenditure incurred and capitalization of assets of the scheme.
- 11) To inform the interruptions in work due to ROW problem and the decided course of action to Circle office.
- 12) To co-ordinate with MSEDCL authorities regarding outages, shifting of HT/LT lines and reorientation of HT lines from new sub-station.
- 13) To arrange for testing & commissioning work at sub-station.
- 14) To finalize the work completion reports.
- P.S. The action applicable for the relevant project may please be considered for implementation.

Mrs. C. N. Bendre

Chief Engineer (Project Schemes)

C.E. (Prej. : Schemes)...



MAHARASHTRA STATE ELECTRICITY TRANSMISSION COLLTD (CIN No. U40109MH2005SGC153646) COMPANY SECRETARY DEPARTMENT

Phone No. (022) 26595301

Prakashganga, Plot No. C-19, "E" Block,

Fax:- (022)26592316

1st Floor, Bandra-Kurla Complex, Email: cs@mahatransco.in Bandra (E), Mumbai-400 051.

Website: www.mahatransco.in

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED AT THE 119th MEETING OF THE BOARD OF DIRECTORS OF MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMTED HELD ON SATURDAY, AUGUST 5, 2017 AT 10.00 A.M. AT HSBC, FORT, MUMBAI-400001

ITEM NO. 12: To consider and approve the proposal for Construction of LILO on 132 kV Yayatmal-Yayatlmal MIDC line at 132 kV Darwha s/s/, Dist.-Yayatmal

Resolution No.119/12

C.E. (PS) placed before the Board proposal to consider and approve the proposal for Construction of LILO on 132 kV Yavatmal-Yavatlmal MIDC line at 132 kV Darwha s/s/, Dist.-Yavatmal.

After deliberations, the Board approved the proposal and passed the following resolutions:

"RESOLVED THAT the consent of the Board of Director be and is hereby accorded administrative approval for the scheme report of "Construction of LILO on 132 kV Yavatmal-Yavatmal MIDC line at 132 kV Darwha s/s Dist.-Yavatmal ", at an estimated cost of Rs. 2654.00lakhs (including IDC of Rs.167.82 lakhs) covering the following scope of work:

- Construction of 132 kV DC line by making LILO on 220 kV Yavatmal 132 kV Yavatmal MIDC line at 132 kV Darwha s/s - 34 kms with following scope of work-
 - 132 kV DC line on MC tower at 132 kV Darwha s/s end 03 kms.
 - 132 kV DC line on DC tower between 132 kV Darwha s/s & LILO point -31 kms.
- 132 kV line bay-2 nos. (At 132 kV Darwha s/s)

RESOLVED FURTHER THAT the Board of Directors be and hereby directed that the scheme will be processed for MERC approval and financial assistance from REC / PFC or any other financial institute/ bank and turnkey contracting procedures will be started after sanction of the scheme;

RESOLVED FURTHER THAT the Board of Directors be and hereby directed that the budget provisions will be mapped appropriately in ERP system preferably LOA wise and similarly loan processing be done LOA wise;

RESOLVED FURTHER THAT the Board of Directors be and hereby directed that that the time period for issue of LoA under this administrative approval is 18 months from the date of



issue of Board Resolution and thereafter fresh administrative approval will be required to be taken from Board;

RESOLVED FURTHER THAT the C.M.D. of MSETCL be and is hereby empowered to do all such acts, deeds and things necessary to give effect to the above resolution."

For Maharashtra State Electricity Transmission Co. Ltd.

Date:08.08.2017 Place: Mumbai

Vinceta Shriwani CS, MSETCL



MAHARASHTRA STA'I'E ELECTRICITY TRANSMISSION COMPANY LIMITED

CIN No.: U40109MH2005SGC153646

Name of Office: Office of the Chief Engineer (Project Schemes)

Office Address: 'Prakashganga', MSETCL, Plot no. C-19, E-Block, Bandra Kurla Complex,

Bandra (E), Mumbai-400051

Contact No.:

(O) 022 2659 5131, (P) 022-2659 5130, Fax.: 022-26598587

E-Mail Id:

cepd@mahatransco.in, prjscheme@gmail.com

Website:

www.mahatransco.in

Ref: MSETCL/CO/P S/Sch-III/132kV Link Line/

Date:

DOCKET - SHEET

Subject: "Construction of LILO on 132 kV Yavatmal - Yavatmal MIDC line at 132 kV Darwha s/s Dist-Yavatmal"

INWARD/ OUTWARD DETAILS			S		
TO WHOM	INV	VARD	OUTWA	OUTWARD	
CASE IS SUBMITTED	NO.	DATE	TO WHOM CASE FORWARDED	DATE	REMARKS IF ANY
Director (Projects)	MSETCL/Danie Inward Dt: Outward Dt:	(Prof Va 15 210711 2210712	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Director (Finance)	DictF Date:	10.827 2717 117			
C.M.D., M.S.E.T.C.L.	CMD/MSET Date of Inw Date of Outy	ard 22171	12		



Note To The Board:

MSETCL/CO/Proj. Schemes/Schemes-III/Link line/ Project Schemes

1. Name of the Sponsoring Section

Project Schemes

2. Subject

"Construction of LILO on 132 kV Yavatmal – Yavatmal MIDC line at

132 kV Darwha s/s Dist-Yavatmal"

3. Estimated cost

Rs.2654.00 lakhs.

(as per SOR 2014-15)

(including IDC component Rs. 167.82 lakhs)

4. MVA added

Nil

5. Ckt. kms added

68 ckt. kms

6. Proposal type (Fresh/Revalidation/ Modification)

Fresh

7. Scope of work

Sr. No.	Scope of work	Amount in Rs. Lakhs
1	Construction of LILO on 132 kV Yavatmal - Yavatmal MIDC line at 132 kV Darwha s/s with end line bays & contingencies	1886.45
2	Compensation, Statutory& price variation.	396 94
3	Centages	202.79
7	IDC component:	167.82
	Total	2654.00

08. Space availability

Space for line bays at 132 kV Darwha s/s will be made available after dismantling of existing old 66 kV yard.

09. Area to be served

Western part of Yavatmal District.

10. Objective of the scheme

- 1) Second source to 132 kV Darwha s/s.
- 2) Redundancy of supply.

11. Preamble:

Background of scheme-

- > 132 kV Darwha s/s is fed from 220 kV Ghatodi s/s via 132 kV Digras s/s & 132 kV Arni s/s.
- ➤ In case if 220 kV Ghatodi s/s goes in dark or it will have major fault then 3 nos. of 132 kV substation will go in dark.
- ➤ 132 kV Darwha has installed capacity of 2X25 MVA, 132/33 kV T/f's and maximum load reached 32 MVA.
- ➤ Hence to provide alternate source to these three substations CE EHV PC O&M, Amravati has proposed construction of 132 kV LILO on Yavatmal Yavatmal MIDC line at 132 kV Darwha s/s & proposal submitted to CE (D.C&M., CO Mumbai) vide letter dtd.16.02.2017. Salient points of the proposal are mentioned below-
 - Construction of 132 kV SCDC line from 132 kV Yavatmal MIDC to 132 kV Darwha was included in previous STU plan.
 - The work of 132 kV Yavatmal Yavatmal MIDC line was under construction and route for the same was modified due to new byepass road, MIDC development, forest land & NA activities.
 - The modified route of 132 kV Yavatmal- Yavatmal MIDC line was critically finalized.
 - The proposal for inclusion of MC towers during finalization of modified route was already discussed with higher authorities & said issue in r/o incorporation of MC towers was not accepted.
 - Now in this scenario, the said line cannot be terminated at Yavatmal MIDC s/s. However by
 making LILO on 132 kV Yavatmal- Yavatmal MIDC line for 132 kV Darwha s/s, the
 purpose of construction of 132 kV Yavatmal MIDC Darwha SCDC line can be achieved &
 there will be minor reduction in route length of line & line will be DCDC instead of SCDC.
 - The space for 2 X 132 kV end bays at 132 kV Darwha s/s will be made available only after dismantling of existing old 66 kV yard at 132 kV Darwha s/s.
- The same proposal received to this section vide Office note dtd. 24.04.2017 from CE (D, C&M).
- This section has submitted the proposal for load flow study to CE (STU). Accordingly CE (STU) vide O.N. dtd.31.05.2017 has recommended the same proposal & informed that the scheme for construction of 132 kV LILO on Yavatmal Yavatmal MIDC line at 132 kV Darwha s/s will be included in STU Plan of 2016-17 to 2021-22.

Need & justification -

- ➤ At present 132 kV Darwha s/s and nearby area is facing low voltage issues as the s/s is fed through 132 kV Digras & Arni s/s.
- > The low voltage data of 132 kV Darwha s/s for 2015-16 & 2016-17 is as follows-

2015-16	Minimum Voltage (kV)	2016-17	Minimum Voltage (kV)
Apr-15	121	Apr-16	121
May-15	125	May-16	122
Jun-15	119	Jun-16	124
Jul-15	109	Jul-16	128
Aug-15	114	Aug-16	121
Sep-15	111	Sep-16	125.1
Oct-15	104	Oct-16	· 125
Nov-15	106	Nov-16	101.9
Dec-15	111	Dec-16	101.5
Jan-16	121	Jan-17	122.
Feb-16	120	Feb-17	122
Mar-16	121	Mar-17	122.5

> The maximum loading of 132 kV Darwha, 132 kV Digras & 132 kV Arni s/s are as follows-

Name of s/s	Installed Capacity Details	Load in MVA
		April 17
132 kV Darwha	132/33 kV,2X25 MVA T/F	32.20
132 kV Digras	132/33 kV,2X25 MVA T/F	31.97
132 kV Arni	132/33 kV,2X25 MVA T/F	24.40
220 kV Ghatodi	220/132 kV, 2X100 MVA ICT	110.92
	220/33 kV, 2X50 MVA TF	5.04
132 kV Yavatmal MIDC	132/33 kV,2X25 MVA T/F	24.40
220 kV Yavatmal	220/132 kV, 100 MVA ICT	70.71
	220/33 kV, 2X50 MVA TF	47.59

- At present 220 kV Yavatmal s/s has 1X100 MVA,220/132 ICT & 2nd 100 MVA,220/132 kV is being commissioned.
- After construction of the said line, load of 132 kV Darwha s/s will be shared by 220 kV Yavatmal s/s which will act as strong and direct 2nd source.
- > Hence to avail uninterrupted and good quality of power supply as well as to strengthen EHV network, this line is proposed.
- As per circular no. 10275 dtd. 22.09.2016, it is directed to prepare an estimate of lines by considering Narrow Base M/C Tower for 3 kms from s/s at both the ends. However, during internal review meeting Hon'ble CMD has directed to consider132 KV and 220 KV Narrow Base Multi circuit Towers for urban area, Metro city & wherever necessary. Hence," Being rural area, M/C regular Base towers are considered and the estimates are prepared accordingly.

> Least cost option -

132 kV Yavatmal – Yavatmal MIDC line is the nearest line of radially fed 132 kV Darwha s/s. Hence, proposed scope of work is the least cost option to support the 132 kV Darwha and nearby EHV substations.

- 12. Implementation hurdles- No EHV line crossing, No river crossing, No forest involved. However, RoW issues may arise.
- 13. (a) The total cost of scheme for the works now to be carried out is Rs.2654.00 lakhs.

(Including IDC component Rs.167.82 lakhs)

The IDC is worked out on borrowing as per guidelines of MERC.

Cost of scheme is worked out on the basis of revised SOR 2014-15.

(b) Cash flow:

Sr.No.	No. Particulars Budget provision for the year in Rs. lakhs		Total in Rs. lakhs		
		2017-18	2018-19		
1	Base cost	994.47	1491.71	2486.18	
2	IDC	37.29	130.53	167.82	
3	Total	1031.76	1622.24	2654.00	
4	Debt	773.82	1216.68	1990.50	
5	Equity	257.94	405.56	663.50	
6	Budget provision	1031.76	1622.24	2654.00	



Budget provision of Rs.1031.76 lakhs will be made in the budget provision of EHV programme 2017-18. Balance amount of the estimated cost will be provided for in the ensuing year.

- (c) The scheme will be presented to REC/ PFC or any other financial institution/ bank for financial assistance (loan).
- 13. The available and usable material at site will be reviewed before preparation of estimate for tendering. Optimum utilization of available material will be ensured to minimize huge quantity lying idle at site account.
- 14. MERC Approval- Since the estimated cost of the scheme exceeds Rs 1000.00 lakhs, the approval of MERC is necessary.
- 15. Impact on tariff sheets are enclosed at 'Annexure-A'. (-2)

(Rs. Per unit)

2019-20	2020-21	2021-22	2022-23	2023-24
0.0003273	0.0003117	0.0002969	0.0002827	0.0002693

- 16. Block diagram of the proposed works is shown at 'Annexure-B'. N- \
- 17. Single diagram of the proposed works is shown at 'Annexure-C'. N-17
- 18. Scheme is included in STU Plan 2016-17 to 2021-22. The load flow study is enclosed in' Annexure-D'. C 33
- 19. The MSETCL shall exercise all the powers conferred by G.O.M. vide order No. 06/CR-312/NRG 14 to MSETCL under Indian Telegraph Act 1885 for the execution of works covered in the scheme.

20. APPROVAL OF COMPETENT AUTHORITY:

As the scheme cost is more than Rs. 10 crores the scheme proposal is to be submitted to the Board of Directors, MSETCL for administrative approval/sanction as per GO 1 (F&A) Dt. 02.04.2007.If approved by CMD in consultation with Dir(Proj) & Dir(Fin), the scheme proposal will be put up to the Board of Directors.

DRAFT RESOLUTION OF MSETCL BOARD OF DIRECTORS:

The Board of Directors, MSETCL considered the note submitted by The Chief Engineer (Project Schemes) and for the reasons mentioned therein RESOLVED THAT the consent of the Board of Director be and is hereby accorded administrative approval for the scheme report of "Construction of LILO on 132 kV Yavatmal – Yavatmal MIDC line at 132 kV Darwha s/s Dist-Yavatmal", at an estimated cost of Rs. 2654.00 lakhs (including IDC of Rs.167.82 lakhs) covering the following scope of work:

- Construction of 132 kV DC line by making LILO on 220 kV Yavatmal 132 kV Yavatmal MIDC line at 132 kV Darwha s/s – 34 kms with following scope of work
 - i) 132 kV DC line on MC tower at 132 kV Darwha s/s end 03 kms.
 - ii) 132 kV DC line on DC tower between 132 kV Darwha s/s & LILO point -31 kms.
- 2) 132 kV line bay- 2 nos. (At 132 kV Darwha s/s)

RESOLVED FURTHER THAT The scheme will be processed for MERC approval, financial assistance from REC / PFC or any other financial institute/bank and turnkey contracting procedures after sanction of the scheme.

RESOLVED FURTHER THAT The Budget provisions will be mapped appropriately in ERP system preferably LoA wise and similarly loan processing be done LoA wise.

RESOLVED FURTHER THAT Board of Directors directed that the time period for issue of LoA under this administrative approval is 18/24 months from the date of issue of Board Resolution and thereafter fresh administrative approval will be required to be taken from Board.

AND RESOLVED FURTHER THAT the C.M.D. of MSETCL be and is hereby empowered to do all such acts, deeds and things necessary to give effect to the above RESOLUTION."

Chief Engineer

(Project Schemes)

Director (Projects)

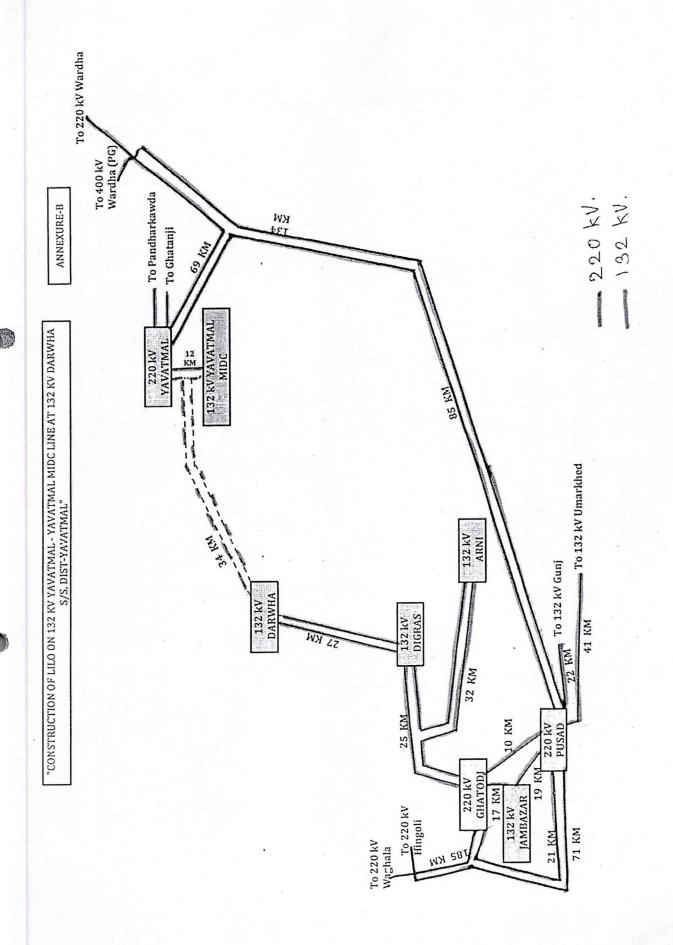
Director (Finance) 2 7 7 1 7

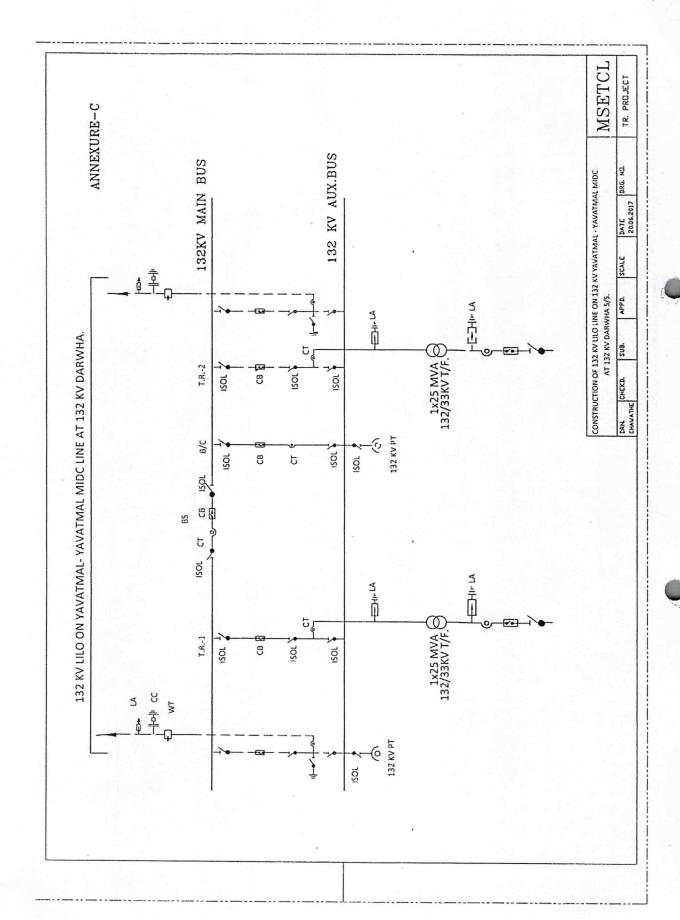
C.M.D., MSETCL

(2) (2) SETECHENS-III)

02 NOTE TO BOARD- LILO at Darwha

Page 7 of 7





Feasibility report for Transmission Project scheme IN PRINCIPLE CLEARANCE STAGE

Particulars in the scheme report

1)	Title	(Name	of sc	heme)
----	--------------	-------	-------	-------

: "Construction of LILO on 132 kV Yavatmal - Yavatmal MIDC line at 132 kV Darwha s/s Dist-Yavatmal"

Estimated cost

Rs. 2654.00 lakhs

(including IDC component Rs. 167.82 lakhs)

3) Brief scope of work

- 1) Construction of LILO on 132 kV Yavatmal Yavatmal MIDC line at 132 kV Darwha s/s- 34 kms with following scope of work
 - i) 132 kV DC line on MC tower at 132 kV Darwha s/s- 03 kms.
 - ii) 132 kV DC line on DC tower between 132 kV Darwha & LILO point. - 31 kms.
 - 2) 132 kV line bay-2 nos. (at 132 kV Darwha s/s)

4) Load flow study

Enclosed separately.

2

5) Objective / justification

- 1) Second source to 132 kV Darwha s/s.
- 2) Redundancy of supply.

6) Proposed funding arrangement

: The scheme will be presented to REC/ PFC or any other financial institution/ bank for financial assistance (loan).

7) Timeframe/Phasing of expenditure : 2017 - 2018

: Rs. 1031.76 Lakhs

2018 - 2019

: Rs. 1622.24 Lakhs

Superintending Engineer (Scheme - III)

COST ESTIMATE OF "CONSTRUCTION OF LILO ON 132 KV YAVATMAL - YAVATMAL MIDC LINE AT 132 KV DARWHA S/S, DIST-YAVATMAL"

	ABSTRACT		
		AMOU	NT IN RS.LAKHS
SR.NO.	PARTICULARS	TOTAL	REMARKS
1	CIVIL WORK	90.54	SCHEDULĖ-I
2	SUBSTATION WORK	272.27	SCHEDULE-II
3	TRANSMISSION LINE WORK	2123.37	SCHEDULE-III
Includin	TOTAL g overall Centages against this scheme in Rs.Lakhs 202.79	2486.18	
4	IDC	167.82	CALCULATED
	GRAND TOTAL	2654.00	
4.			
	SAY RS.	2654	LAKHS

THE ESTIMATES ARE PREPARED BY APPLYING RATES OF LATEST SOR & CALCULATIONS ARE CORRECT.

SUPERINTENDING ENGINEER (SCHEME - III)



			SCHEDULE-
	CIVIL WORK		
		AMO	OUNT IN RS.LAKHS
SR. NO.	PARTICULARS	AMOUNT	REMARKS
1 .	FOUNDATION WORK OF LINE BAYS	76.04	ANNEXURE-I
	SUB TOTAL-I	76.04	
2	CONTINGENCIES 3% ON SUB TOTAL I (Quantity Variation)	2.28	
	SUB TOTAL-II	78.32	
4	ADD. CENTAGES 10.75% ON SUB TOTAL-II (General Establishment Charges etc)	8.42	
5	ADD. PROVISION FOR PRICE VARIATION 5 % ON SUB TOTAL I	3.80	
	TOTAL	90.54	

						ANNEXURE-
	FOUNDATION	work o	F LINE	BAYS		
					AMOUN	T IN RS.LAKHS
SR. NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
1	Concrete for foundation for line bays					0.0.N. 492 dtd.11.11.14
	A) 132 kV Line Bay	BAY	2	35.00	70.00	
	Sub Total I				70.00	
2	Erection Charges @ 7.5% On Sub Total-1				5.25	
3	Service tax @ 15% on erection charges				0.79	
	Total				76.04	



			SCHEDULE-
	SUBSTATION WORK		
		AM	OUNT IN RS.LAKH
SR. NO.	PARTICULARS	AMOUNT	REMARKS
1	132KV LINE BAY - 2 Nos. @ Rs.91.81 lakh/bay	183.62	ANNEXURE-II
2	PLCC EQUIPMENTS	42.44	ANNEXURE-III
3	ABT METER	2.60	ANNEXURE-IV
	SUB TOTAL-I	228.66	
4	CONTINGENCIES 3% ON SUB TOTAL I (Quantity Variation)	6.86	
	SUB TOTAL-II	235.52	
5	ADD. CENTAGES 10.75% ON SUB TOTAL-II (General Establishment Charges etc)	25.32	
6	ADD. PROVISION FOR PRICE VARIATION 5 % ON SUB TOTAL I	11.43	
	TOTAL	272.27	

ANNEXURE-II

COST ESTIMATE FOR 132 KV LINE BAYS (132 KV TWO BUS)

AMOUNT IN RS LAKHS

SR.NO.	PARTICULARS	UNIT	QTY.	RATE/ UNIT	AMOUNT	REMARK
1	Circuit Breaker	SET	1	6.98	6.98	SOR 2014-15, S-5, SR.NO.19
2	Isolator without ES	SET	2	2.23	4.46	SOR 2014-15, S-5, SR.NO.21
3	Isolator with ES	SET	1	. 2.39	2.39	SOR 2014-15, S-5, SR.NO.20
4	Current Transformer	NO	3	1.37	4.11	SOR 2014-15, S-5, SR.NO.23
5	Lightening Arrestor	NO	3	0.39	1.17	SOR 2014-15, S-5, SR.NO.26
6	C & R Panel for line	SET	11_	8.06	8.06	SOR 2014-15, S-5, SR.NO.58
7	Control Cable	BAY	1	3.03	3.03	
8	Structure	BAY	1	12.69	12.69	ELECTRICAL CALCULATION
9	Earthing & Lighting	BAY	1	4.88	4.88	
10	Fire Fighting Equipment	SET	1	1.70	1.70	S-6, SR.NO.21
11	Bus Bar And Insulator	BAY	2	14.23	28.46	ELECTRICAL CALCULATION
	Sub Total	I			77.93	
12	Spares for LA, CT, PT Etc. @ 3% on Sub Total I				2.34	
	Sub Total I	1			80.27	
13	Transportation to site 5%, Insurance 1% Total 6% on Sub Total-II				4.82	
14	Erection charges @ 7.5% on Sub Total-I				5.84	
15	Service tax @15 % on Erection charges				0.88	
	Total				91.81	



						ANNEXURE-III
		PLCC EQ	UIPME	NTS		
					AM	OUNT IN RS.LAKHS
SR.NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
1	PLCC Line Equipments at 132 kV Darwha s/s	NO	2	21.22	42.44	ANNEXURE-III A
	Total	ETH			42.44	

EXECUTIVE ENGINEER

(SCHEMES - III)

ANNEXURE-III A

COST ESTIMATE OF PLCC LINE EQUIPMENTS ON ONE END OF 132 KV OR 100 KV TRANSMISSION LINE

AMOUNT IN RS.LAKHS

SR.NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
1	Wave trap 630 A/0.5 mH with three connecting clamps	NOS.	2	2.93	5.86	SOR 2014-15, S-5, SR.NO.31
2	Coupling Capacitors for 132 KV	NOS.	2	1.87	3.74	19-5 SR NO 30
3	Co-axial cable 75 ohms unbalanced	RMT	0.5	1.49	0.75	SOR 2014-15, S-6, SR.NO.20
4	Twin channel carrier set		1	. 6.95	6.95	SOR 2014-15
	Protection Coupler Double Circuit		-	, 6.75		S-7, SR.NO.7
5	Coupling Device for phase to phase coupling (200W)	SET	1	0.57	0.57	SOR 2014-15, S-6, SR.NO.01
6	Cost of civil works	L.S.			0.15	CIVIL CALCULATIO
	Sub Total- I				18.02	
7	Cost of spares @ 3% on Sub Total I				0.54	
	Sub Total-II				18.56	
8.	Transportation, Insurance @ 6 % on Sub Total-II				1.11	
9	Cost of installation testing and commissioning @ 7.5% on Sub Total-				1.35	
10	Service Tax @ 15 % on item no 9		35		0.20	
	Total				21.22	



						ANNEXURE - IV
	ABT ME	TERIN	IG EQI	JIPMENTS		
					(AMO	UNT IN RS. LAKHS
SR. NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARKS
1	ABT metering at 132 kV Darwha s/s	NO.	2	1.30	2.60	ANNEXURE- IV A
	TOTAL				2.60	

ANNEXURE - IV A

BREAK UP OF ABT METERING SYSTEM AT 220 /132 kV s/s ON ONE END OF 132 KV OR 100 KV TRANSMISSION LINE

AMOUNT IN LAKHS

SR. NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
	INFRASTRUCTURE FOR ABT METERING SYSTEM					
1	ABT Meter (with Modbus Protocol)	NO.	1	0.40	0.40	COST DATA 2011-12& 2012 13 PAGE NO.41 SR.NO.01
2	Cable, Connector and accessories thereof.	SET	1	0.30	0.30	COST DATA 2011-12& 2012 13 PAGE NO.41 SR.NO.09
3	Energy Management & Monitoring Software at Sub-Station	· NO.	1	0.40	0.40	COST DATA 2011-12& 201; 13 PAGE NO.41 SR.NO.10
4	Installation charges of ABT Metering System	NO.	1	0.20	0.20	LUMPSUM
	TOTAL				1.30	

EXECUTIVE ENGINEER

(SCHEMES-III)



			SCHEDULE II
	TRANSMISSION LINE WOR	RK	
		AN	10UNT IN RS.LAKH
SR. NO.	PARTICULARS	AMOUNT	REMARKS
1	TRANSMISSION LINE	1526.81	ANNEXURE-V
	SUB TOTAL-I	1526.81	
2	CONTINGENCIES 3% ON SUB TOTAL - I (Quantity Variation)	45.80	
	SUB TOTAL-II	1572.61	
3	ADD. CENTAGES 10.75% ON SUB TOTAL-II (General Establishment Charges etc)	169.06	
4.	COMPENSATION @ 15% ON SUB TOTAL I (Right of Way etc)	229.02	
5	STATUTORY REQUIREMENT@ 5% ON SUB TOTAL I (Forest Clearances etc)	76.34	
6	ADD. PROVISION FOR PRICE VARIATION 5 % ON SUB TOTAL I	76.34	
	TOTAL	2123.37	

EXECUTIVE ENGINEER

(SCHEMES - III)

						ANNEXURE-V
	132 KV TR.	ANSMIS:	SION L	INE		
					AMC	UNT IN RS. LAKHS
SR.NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
1	Construction of LILO on 132 kV Yavatmal - Yavatmal MIDC line by using DC line on MC tower at 132 kV Darwha s/s end Using 0.2 Sq.Inch ACSR (Panther)	КМ	3	78.43	235.29	ANNEXURE-V A
2	Construction of LILO on 132 kV Yavatmal - Yavatmal MIDC line by using DC line on DC tower at 132 kV Darwha s/s Using 0.2 Sq.Inch ACSR (Panther)	КМ	31	41.66	1291.52	ANNEXURE-V B
	Total			51313	1526.81	

EXECUTIVE ENGINEER

(SCHEMES - III)

(-244)

ANNEXURE- V-A

BREAK-UP ESTIMATE FOR 10 KMS. OF 132/110/100 KV D/C LINE ON M/C TOWER.

(i) Conductor Size:

0.2 Sq.inch ACSR (Panther)

(ii) Earthwire Size:

7/3.15 mm

(iii) Span

300 Mtrs ·

AM	OUNT	IN	RSI	AKHS

SR.NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
1	Survey & Tree cutting		L.S.		2.04	SOR 2014-15, E-1, SR.NO.(A+B+C) 8% Inflation
2:	(i) Tower	M.T.	386.35	0.85	328.40	SOR 2014-15, S-3, SR.NO.01
	(ii) Tower Accessories		L.S.		3.50	LUMPSUM
	(iii) Nut Bolts	M.T.	13.60	1.21	16.46	SOR 2014-15, S-3, SR.NO.02
3	Conductor (including 2.5% sag and wastage)	Km	61.50	1.49	01.64	SOR 2014-15, S-1, SR.NO.02
4	Groundwire (including 2.5% sag and wastage)	Km	10.25	0.45	4.61	SOR 2014-15, S-3, SR.NO.23
5	Insulators, Hardwares, Conductor & Groundwire accessories		L.S.		54.16	ELECTRICAL CALCULATION
	Sub Total I				500.80	
6	Spares (@ 3% on item 2 to 5)				14.96	
	Sub Tctal II				515.76	
-/	Transportation to site 5%, Insurance 1% (Total 6 % on Sub Total II)				30.95	
8	Concrete for foundations & excavation and stubsettings		L.S.	L.S.	178.951	ELECTRICAL CALCULATION
0	Erection & stringing charges @ 7.5 % on Sub Total I & Sr. no. 8				50.98	
10	Service Tax 15 % on Erection & stringing charges.				7.65	
10	Total				784.29	

ANNEXURE- V B

BREAK-UP ESTIMATE FOR 10 KMS. OF 132/110/100 KV D/C LINE ON D/C TOWER.

(i) Conductor Size: 0.2 Sq.inch ACSR (Panther)

(ii) Earthwire Size: 7/3.15 mm 320 Mtrs

(iii) Span

AMOUNT IN RS.LAKHS

R.NO.	PARTICULARS	UNIT	QTY.	RATE/UNIT	AMOUNT	REMARK
1	Survey & Tree cutting		L.S.		2.04	SR.NO.(A+B+C) 8% Inflation
	(i) Tower	M.T.	144.93	0.85	123.19	SOR 2014-15, S-3, SR.NO.01
2	(ii) Tower Accessories		L.S.		3.50	LUMPSUM
	(iii) Nut Bolts	M.T.	5.48	1.21	6.63	SOR 2014-15, S-3, SR.NO.02
3,	Conductor (including 2.5% sag and wastage)	Km	61.50	1.49	91.64	S-1, SR.NO.02
4	Groundwire (including 2.5% sag and wastage)	Km	10.25	0.45	4.61	SOR 2014-15, S-3, SR.NO.23
5	Insulators, Hardwares, Conductor & Groundwire accessories	-	L.S.		54.16	ELECTRICAL CALCULATION
	Sub Total I				285.77	
6	Spares (@ 3% on item 2 to 5)				8.51	
	Sub Total II				294.28	
7	Transportation to site 5%, Insurance 1% (Total 6 % on Sub Total II)				17.66	
8	Concrete for foundations & excavation and stubsettings	-	L.S.	L.S.	73.68	ELECTRICAL CALCULATION
9	Erection & stringing charges @ 7.5% on Sub Total I & Sr. no. 8				26.96	The second second
10	Service Tax 15 % on Erection & stringing charges.				4.04	
	Total				416.62	
	Cost of 132/110/100 kV D/C line on	D/C Tov	ver for O	NF km.	41.66	



COST ESTIMATE OF "CONSTRUCTION OF LILO ON 132 KV YAVATMAL - YAVATMAL MIDC LINE AT 132 KV DARWHA S/S, DIST-YAVATMAL"

ABSTRACT FOR IDC

AMOI	INIT	INI	DC	IAI	VU	C
AIVIU	TIVI	111	13.	LH	ΛП.	3

R. NO.	PARTICULARS	AMOUNT	REMARKS
1	FOUNDATION WORK	76.04	Schedule-I CIVILWORK
2	132KV LINE BAY	183.62	Schedule-II
3	PLCC EQUIPMENTS	42.44	SUBSTATION
4	ABT METER	2.60	WORK
5.	TRANSMISSION LINE	1526.81	Schedule-III TR. LINE WORK
	SUB TOTAL-I	1831.51	
6	CONTINGENCIES 3% ON SR. NO. 01 (CIVIL) (Quantity Variation)	2.28	
7	CONTINGENCIES 3% ON SR. NO. 02 TO 04 (SUBSTATION) (Quantity Variation)	6.86	
8	CONTINGENCIES 3% ON SR. NO. 05 (TR. LINE) (Quantity Variation)	45.80	
	SUB TOTAL-II	1886.45	
9	ADD. CENTAGES 10.75% ON SUB TOTAL-II (General Establishment Charges etc)	202.79	
10	COMPENSATION @ 15% ON SR. NO. 05 (TR. LINE) (Right of Way etc)	229.02	
11	STATUTORY REQUIREMENT@ 5% ON SR. NO. 05 (TR. LINE) (Forest Clearances etc)	76.34	
12	ADD. PROVISION FOR PRICE VARIATION 5 % ON SUB TOTAL I	91.58	
	SUB TOTAL- III	2486.18	
13	IDC	167.82	CALCULATED
	GRAND TOTAL	2654.00	

		11	MPACT ON TAI	RIFF				Annexure
Name of the Scheme :	COST ES	TIMATE OF	"CONSTRUCT		N 132 KV YAVATN S, DIST-YAVATMA		L MIDC LINE	AT 132 KV
Commissioning Year- 2018-19								
Interest on borrowing		10.00%						
Debt : Equity Ratio		75%	1	25%				
Equity flowing equally								
В	С	D	E	F	G	н	1	J
					Rs. in Lakhs			
1			Cost of th	e Scheme	2654			
Description.	1	2	3	4	5	6		Total
Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	
Base cost	994.47	1491.71	1 1 1 1 1 1 1					2486.18
Borrowing	745.85	1118,78						1864.64
EQUITY	248.62	372,93						621.55
Total Interest	0.0 K 11 G-22 K W W W W			(62623077322)	Tid Charles	Transfer (F.)	real to salea	167.82
Interest funded by borrowing	37.29	130.52				17 24 27 44 1 7 7 2 2 3	្រៃការ៉ាម៉ា មិនទៅ។ សូម្រីប្រភពមានក្រុមគ្នេ	107.02
interest funded by borrowing	27,97	97.89					1.1.20126	125.86
Interest funded by equity	9.32	32.63	leanath of		No. 1 1 Pkg a sin	renewatielis.		41.95
Total borrowing	773.82	1216,67	2.3.75. / 4.9.4.0.5	7.2 7 5.4.4 VO 3.4.2	The second state of the se	747-37, 70 S. 70 A. Rog.)		1990.50
Total equity	257.94	405.56						663.50
Total cash flow	1031.76	1622.23						2654.00
Base cost	2486.18		Borrowing	1990.50	0.75			
IDC	167.82		EQUITY	663.50	0.25			
Total Project Cost	2654.00	Total B	ase Cost	2654.00	0.20			
Expenses	2004.00	70.01.0	1	2004.00				
Return on equity @ 15.5 % per			102.84	102.84	102.84	102.84	102,84	
Interest on Loan (10.00 %)		-,	102.04	102.04	102.04	702.04	102,04	
745.85			74.59	74,59	74.59	74.59	74.59	
1118.78			111.88	111.88	111.88	111.88	111.88	
Depreciation(sheet attached)			140.13	140.13	140.13	140.13	140.13	
O & M Expenses @ 3% on			140.10	140.10	140,10	140,10	110.10	
Asset Commissioned.			79.62	79.62	79.62	79.62	79.62	
Income Tax (on Return on equity) @30%			30.85	30.85	30.85	30.85	30.85	
Contribution to contingency (Reserves 0.5 % of Gross Fixed Asset at the beginning of the year			13.27	13.27	13.27	13.27	13.27	
Sub Total			553.18	553.18	553.18	553.18	553.18	
a)One month of the amount of O&M expense			6.63	6.63	6.63	6.63	6.63	
7 1/12th of book value of stores, (materials and supplies at the b end of financial year	·		2,21	2,21	2.21	2.21	2.21	
b)One and a half months of the expected revenue from transmission charges at the prevailing tariffs			70.69	70.69	70.69	70.69	70.69	
Total working capital			79.54	79.54	79.54	79.54	79.54	
Interest on working capital			12.33	12.33	12.33	12.33	12.33	
Total Expense due to this project			565,51	565.51	565.51	565.51	565.51	
Million Units sent by InSTS in Yr. 2014 -2015 (135372.476) 9 MUs)(accordingly assuming rise of 5% per year)		164546.09	172773.40	181412.06	190482.67	200006.80	210007.14	t.
	I			i				

COST ESTIMATE OF "CONSTRUCTION OF LILO ON 132 KV YAVATMAL - YAVATMAL MIDC LINE AT 132 KV DARWEA S/S, DIST-YAVATMAL"

TITLE	% DEPRICIATIO N	Base value	14.0725 % loading for Cent. (& Contin.	15 % Loading for Compensation & 5 % loading for statutory clearances on Tr. Line cost	5% Loading for price variation on base cost	Total cost 3+4+5+6	Cost of the assets to commissioned by 2017-18	Cost of the assets to be commissioned by 2017-18	Cost of the assets to be commissioned by 2018-19	assets to soned try 19	81-71	18-19 (8+9)* col.2/100	19-20 (10+11)* col.2/100	20-21 (10+11)* col.2/100	21-22 (10+11)* col.2/100	22-23 (10+11)* col.2/100	23-24 (10+11)* col.2/100
-	2	3	4.00	5	9	7	20	6	10	=	22	13	14	15	91	17	18
							Asset	IDC	Asset	IDC							
Civil works 76.04							1601	Bading	1603	Saum B							
Land + Development		00.00	00.00		0.00	0.00	0.00	0.00	0.00	0.00							
Buildings & Quarters	3.34	00.00	0.00		00.00	0.00	00.0	0.00	0.00	0.00		0.00	00.0	00.00	00.0	0.00	0.00
Foundation & Rail track	5.28	76.04	10.70		3.80	90.54	36.22	1.36	90.54	6.11		1.98	5.10	5.10	5.10	5.10	5.10
Transmission Line 1526.81																	92
Transmission line	5.28	1526 81	214.86	305.36	76.34	2123.37	849.35	31.85	2123.37	143.33		46.53	119.68	119.68	119.68	119.68	119.68
Sub-station works 228.66																	
Electrification	5.28	0.00	0.00		00.00	0.00	0.00	0.00	00'0	0.00		0.00	00.0	00.0	0.00	0.00	0.00
Battery Set	5.28	0.00	00.00		0.00	0.00	0.00	0.00	0.00	00:00		0.00	00.00	00.0	00.00	0.00	0.00
Other equipments.	5.28	228.66	32.18		. 11.43	272.27	16.801	4.08	172.272	18.38		5.97	:5.35	15.35	15.35	15.35	15.35
Total of Column		1831.51	257.74	305.36	91.58	2486.19	994.47	37.29	2486.18	167.82		54.48	140.13	140.13	140.13	140.13	140.13
							994	37.29	2486.18	167.82							-
Cost of the Scheme:	2654					MF	0.4	0.0375	-	2730 0							

Assumption: Depreciation is calculated using Straight line method assuming Salvage value of 10%, as per MERC guidelines

Depreciation =(Equipment cost-salvage value)/Life of equipment

EXECUTIVE ENGINEER (SCHEMES - 111)

C.E. (Proj.) Schemes) 907.

Bato 81.5.17.

C E (STUY 58)
Date: -31/5/13-



STATE TRANSMISSION UTILITY

No: MSETCL/CO/CE-STU/SYS/211A

Office note

Sub.: System study for LILO on 132 kV Yavatmal-Yavatmal MIDC line at 132 kV Darwha s/s under Amravati Zone.

Ref.; O.N. no. 177 dt. 17.05.2017 from C.E. (Proj. & scheme).

At present Darwha is fed from 220 kV kV Ghatodi ss via 132 kV Arni & Digras ss, through radial feeder. Distance between source ss to Darwha ss is @125 kM. Therefore Darwha & nearby area is facing the low voltage problem. In order to address the low volt. problem, 132 kV Yavatmal-Darwha SCDC line (40 kM) is proposed in STU plan (2016-17 to 2021-22).

However, vide office note under ref. it is now requested to carry out the system study for LILO on 132 kV Yavatmal-Yavatmal MIDC line at 132 kV Darwha s/s (68 Ckt kM).

Three case studies are carried out.

Base case: Existing network.

Case 1: 132 kV Yavatmal-Darwha SCDC line 40 kM (as per STU plan) from the study it is observed that there is improvement in voltages.

Case 2: LILO on one circuit of 132 kV Yavatmal-Yavatmal MIDC line at 132 kV Darwha s/s (68 Ckt kM). From study it is observed that there is improvement in bus voltages as compare to Case 1. In this case 132 kV Yavatmal MIDC s/s will get connected to 2nd source, in case of any failure on 132 kV Yavatmal-Yavatnmal MIDC line s/s. Hence it is recommended.

The details of the study is enclosed herewith alongwith the SLD.

Enclosed: as above.

C. E. (STU)

C.E.(Proj &sche.):

Copy to: The EE (STU, Planning)

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Sysstudy/205/20.052017

FEIS Champ-111)

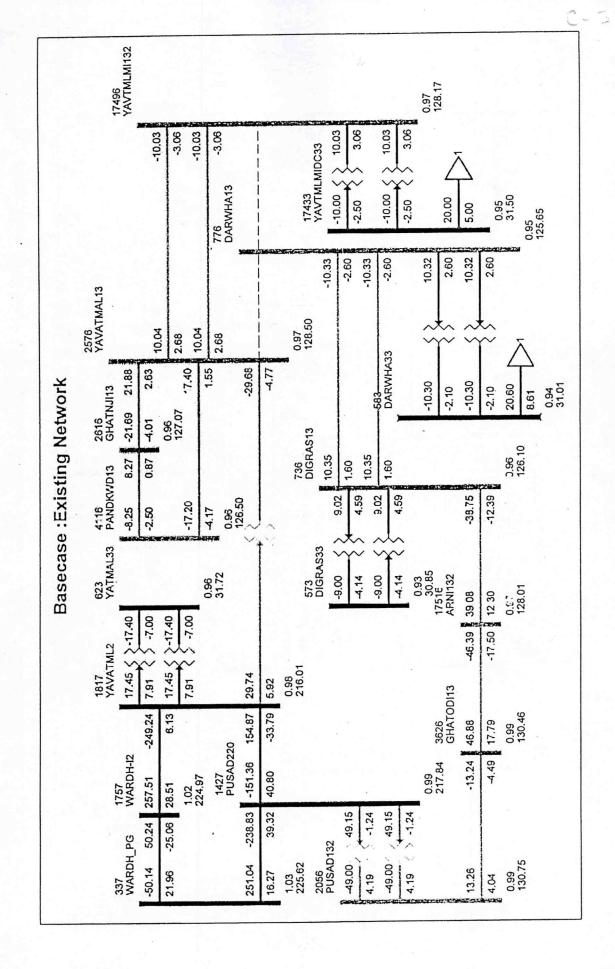
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		17496 YAVTMLMI132							Taken (-				0.97 128.33			
			-10.03	-3.06	776 -3.06 DARWHA13			17433	YAVTMLMIDC33	$\overset{\downarrow}{\sim}$		-10.00 < > 10.03	-2.50 \$ \$ 3.06	20.00	5.00	-	31.54 0.97 127.64
	2576 YAVATMAL13	& 1 C	200	4 10.04	9 2.68	3 51.62 -50.70	9 -9.27 10.06	THE STATE OF	0.97 128.66 15.03	-7.54	15.03	DARWHA33 -7.54		$\frac{-10.30}{2.02}$ $\left. \begin{array}{c} \ \ \ \ \ \ \ \end{array} \right.$ $\left. \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \end{array} \right.$ $\left. \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	-10.30 < > 10.32	-2.02 \$ \$ 2.51	20.60 8.61 0.96 31.52
C line	KWD13	-8.25 8.27 -21.6921.88 -2.50 0.87 -4.00 2.62	-17.20 0.96 127.237.40	1.54	126.66 -55.49	-0.13	-55.49	-0.13 736 DIGRAS13	9.02 1-14.96	4.58 6.59	9.02 -14.96	4.58 6.59 D.		7 7			0.97 127.69 8.61 0.96 31.5
tmal-Darwha S/C line	623 FATMAL33				31.68	^	~>	573 DIGRAS33	^;	4.14 \$ \$ 4.	.e < \$ 00.e-	-4.14 \$ \$ 4.	0.95 31.25	17516 ARNI132	-11.76 11.88	21.63 -22.35	0.98 128.99
kV Yavatma	1817 YAVATML2	7.45 \$ >-17.40	17.45 < >-	7.91	55.68	4.01	55.68	4.01	0.98 215.73						4.45	-26.83 27	
Case 1: 132 kV Yava		1757 PG WARDH-I2 42.47 280.23 -270.43	30.35	1.02 224.92	1427 PUSAD220	-121.85 124.17	37.06 -36.83							0.99 218.43 3626 GHATODI13	2.40 5 4.31	-7.67	0.99
		337 WARDH_PG -42.39 42.47	1.			246.45 -234.72	13.61 39.09	1.03 225.68	2056 PUSAD132	-39.27 > 39.36	2.40 < > -0.52	-39.27 < > 39.36	2.40 < 5 -0.52		-2.40	7.19	0.99 130.98

			1817		623 4116	4116		2616	2576 YAVATMAL13	_		17406	
337 WARDH_PG	1757 WARDH-12		17.45 \$ >-	7.40		-8.25 8	Harr	9 21.88			000	YAVTMLM1132	132
41.58 41.66	282.61	-272.66	7.91	-7.00	жэт	-2.50	0.86 -3.99	2.60	39.30				
22.92 -26.16	29.94	14.29	17.45 \$ }-	-17.40	43046		0.97		0.45		ej	0.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	
	1.02		7.91	-7.00	en en	-17.20	17/	17.40		1		63	
	4407				0.96	4.16		1.53			21.0	sec.	
	PUSAD220	. 0	58.32		60.15	0.96		-58 11			DARWHA13	u zacat	
246.01 -234.32	-118.91	121.12		-	*	À			37.36	-36.88			
13.17 39.23	36.40	-36.81	4.34			, N _e		0.91	-6.39	5.91	0	18.33	
1.03			58.32			~		-58.11			4.49 -5.	-5.94	
225.69			3.34			^	736	0.91			17493	e part	
2056 PLISAD132			0.98		573	573 DICEAC33	-17.63	2	0.98	17.71	YAVTMLMIDC33	23	
2			215.82			222			120.02		-10.00 < > 10.03	03	
					-9.00 	× 9.05				-7.70	1.	3.06	
2.26 -0.47					4.4	< > 4.58	-17.63	583		17.71	,		
-38.28 38.37					-9.00	< > 9.02	6.80	DARWHA33	HA33	-7.70	-10.00 \$ \$ 10.03	03	
2.260.47					4.14	< < 4.58					-2.50 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3.06	
	0.99	3626		1751	0.95		Paris A	-10.30	\$	10.32		news.	
		GHATOD113	113	ARN	ARNI132		****	-2.01	\$ *	2.50	20.00	27	
4.00	4.01	-9.59	9.7	9.75 1 -17.06	9 2	17.22		-10.30	~>	10.32	5.00	128.17	
7.45	-7.94	26.66	-27.32	32 22.12	2	-22.75	yseses	-2.01		2.50	300		
0.99		0.99		0.98	ų.		0.97	20.60	Ż		31.50		
5		20.00		123.	2		16.121	8.61	Ź		0.97		
								31.61			127.98		

LILO on 132 kV Yavatmal-Yavatmal MIDC line at 132 kV Darwha s/s.

					Case 1:	132 kV Y	Case 1 : 132 kV Yavatmal-		Case 2: LILO on 132 kV	132 kV
Name of Line Bus	Bus		Base case		Da	Darwha SC line	ine		Yavatmal- Yavatmal MIDC line at 132 kV Darwha s/s.	wha s/s.
		Volt. In	Volt. In State Zone Volt. In State Zone Volt. In	Zone	Volt. In	State	Zone	Voit. In	State	Zone
		×	losses in losses kV	losses		losses in	losses in losses in kV	k V	losses in	losses in losses in
			MM	MW in MW		MW	MW		MM	MM
1110 cm 132 kV Vavtmal	132 kV Yavtmal	128.5			128.66			128.82		
Vavimed MIDC at Danies 6/2 132 kV Yavatmal MIDC 128.17		128.17	1213	80.1	80.1 128.33 1210.8	1210.8	79.8	128.17	79.8 128.17 1210.9	79.9
132 kV Darwha	132 kV Darwha	125.65			127.64		pr	127.98		