

# PUNJAB STATE TRANSMISSION CORPORATION LIMITED Regd. Office: PSEB Head Office, The Mall Patiala-147001, Punjab, India. Corporate Identity Number: U40109PB2010SGC033814 (www.pstcl.org) (O/o CAO/Finance & Audit(Commercial & Regulatory Cell, 3<sup>rd</sup> Floor, Shakti Sadan, Patiala) Fax/Ph.No. 0175-2970183 Email: fa@pstcl.org

To

Registrar,
Punjab State Electricity Regulatory Commission,
Site No. 3, Sector 18-A, Madhya Marg,
Chandigarh. Pincode-160018.
Tel No. 0172-2861800

Memo No. 842 / CAO/F&A/Comml./CIP- 3<sup>rd</sup>
Dated: 21/09/2022

Subject:

Interim Order in Petition No. 50 of 2022 (Approval of PSTCL's Business Plan including Capital Investment Plan for MYT Control Period (FY 2023-24 TO FY 2025-26) under Regulation 9 of PSERC (Terms and Conditions of Determination of Generation, Transmission, Wheeling and Retail Supply Tariff) Regulations, 2019).

Please refer to your office email dated 09.09.2022 vide which Interim Order dated 06.09.2022 on above cited subject was sent.

In this regard, additional information/clarifications as desired by the Commission are attached herewith for the kind consideration of the Hon'ble PSERC.

DA/As above(12 copies)

CAO/Einance & Audit, PSTCL, Patiala.

## PSTCL Business Plan and Capital Investment Plan for 3rd Control Period- Additional information/clarification

1. PSTCL to submit the scheme wise data in excel format

PSTCL Reply: Scheme wise data is enclosed in CD attached, moreover the same has also been sent via email dated 22.09.2022.

- 2. Regulation 9.4 of the MYT Tariff Regulations, 2019 specifies that the business plan of the transmission business should include the following:
  - "a) Future plans of the company including efficiency improvement measures proposed to be introduced and technical requirement such as meeting reactive power requirements;
  - (b) Plan for reduction in transmission losses;
  - (c) Plan for improvement in quality of transmission service and reliability, metering arrangements and any other new measure to be initiated by the Licensee, e.g. automation, IT initiatives etc.;
  - (d) Capital Investment Plan based on the above;
  - (e) Man Power Plan."

It is observed that the Business Plan submitted by PSTCL for its Transmission and SLDC business does not contain Future plans, Loss Reduction Plan, Man Power Plan etc. PSTCL is required to submit the details of various components of the business plan in line with the above Regulation.

PSTCL Reply: It is only after consideration of all the points above, that PSTCL has framed its extensive capital expenditure requirements. The said CIP gives timelines for completion of spill-over schemes. Apart from the above, PSTCL has given its entire philosophy/considerations of future load growth in the state, intrastate generation capacity and requirement of power to be procured from interstate generating stations. Keeping the above in mind, PSTCL has undertaken load flow identified been have constraints system wherein augmentation/strengthening/upgradation has been proposed appropriately in due consideration of technical standards prescribed by CEA/Honourable PSERC. The load flow simulation results had already been enclosed as the part of main submission.

So far, as some of the specific elements are concerned, PSTCL submits the following:

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- a. Future plans of the company including efficiency improvement measure proposed to be introduced and technical requirement such as meeting reactive power requirements: In line with the CPRI report on assessment of capacitor requirement in Northern region for year 2019-20 issued in March 2022, PSTCL is studying to install capacitor banks at its various substations detailed out in the report. The work has been included as under study in the proposed CIP plan 2023-26. Upon finalizing the install locations, PSTCL will propose the schemes and submit the same for kind consideration by the honourable commission. The CPRI report is enclosed as Annexure 1.
- b. <u>Plan for reduction in transmission losses</u>: Transmission losses of PSTCL are 2.31% against all India average of 2.31%. In case pursuant to development of the proposed network in case the need for undertaking such measures, PSTCL shall submit such schemes in its subsequent petitions.
- c. Plan for improvement in quality of transmission service and reliability, metering arrangements and any other new measure to be initiated by the Licensee e.g. automation, IT initiatives etc.: PSTCL has already employed substation automation technology and RHMI (Remote Human Machine Interface) at two of its 400 kV substations (Dhuri and Rajpura), wherein the operation and control of 400 kV substation Dhuri is being carried out at Rajpura and the staff in shift duty at 400 kV substation has been reduced. RHMI of 3 Nos. PSTCL substations Nakodar, Makhu and Muktsar is proposed in the MYT (Annexure-B, Sr. No. 3). Automation of two substations (namely 220 kV Budhlada and Gurdaspur) is in tendering stage and automation of remaining 220 kV substations is already in the spill-over works list (Appendix-B (Spill Over), Sr. No. 72 (90 Nos. PSTCL grids (220 kV) to be provided with SAS. Report already sent for PSDF funding, if approved, these stations will be upgraded.)). However, these capital plans have been linked with PSDF funding at this moment. In addition, improvement in metering arrangement for all interface points is being carried out under SAMAST project through which existing energy meters will be replaced with Advanced Metering Infrastructure (AMI) for remote metering of all interface points. The project is expected to be completed in 2023-24. The major ongoing projects of SLDC are related to Implementation of SAMAST scheme and installation of RTUs

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which are covered under spillover of 2nd MYT Control Period. Major future projects of SLDC are related to upgradation of SCADA system under ULDC Phase-III, the modalities of which are under discussion stage being held with MoP/FOLD with all Northern States. This project is to be implemented by CTU through PGCIL and will be covered under Capital works only if proposal of execution through Tariff mode is rejected. Other future projects are related to improving Cyber Security posture of SLDC, which may involve purchase of IT Hardware/Software for Cyber Security and/or establishment of complete Security Operation Centre(SOC), which are tentative works that may have to be carried out as per specific instructions of central agencies like NLDC, NCIIPC, CERT-IN etc. As Cyber security guidelines are still in nascent stage, the plan for the same shall be devised based on projects undertaken by central agencies like NLDC, NRLDC etc. However, Capital provisioning for the same has been kept in proposed MYT plan for 3rd Control Period.

- d. Capital Investment Plan based on the above: Appendix-C (New Works), Sr. No. 25 (Requirement of Capacitor bank at various S/Stns as per CPRI report.). Appendix-B (Spill Over), Sr. No. 72 (90 Nos. PSTCL grids (220 kV) to be provided with SAS. DPR is under submission for PSDF funding). Appendix-D (SLDC List).
- e. <u>Man Power Plan</u>: PSTCL submits that it has provided detailed submission on its manpower requirements in section 5.3.7 (Human Resource Development) in its original submission. In the said section, PSTCL has elaborated on the future manpower requirement together with envisaged retirements. The same may kindly be referred by the Hon'ble Commission.
- 3. PSTCL has not submitted the Detailed Project Reports (DPRs) of the various schemes/ works included in the CIP as per Regulation 9.8 of the MYT Tariff Regulations, 2019 which specifies as under:

"9.8 The Applicant shall submit the Detailed Project Reports (DPRs) for all the schemes as per Part (a) and (b) above which shall include:

(a) Purpose of investment;

(b) Broad Technical Specifications of the proposed investment and supporting details;

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- (c) Capital Structure;
- (d) Capitalization Schedule;
- (e) Financing Plan, including identified sources of investment:
- (f) Physical targets;
- (g) Cost-benefit analysis;
- (h) Prioritization of proposed Investments:

Provided that DPRs will not be necessary for schemes under Rs 10 Crore for Generation and Transmission Businesses. Rs 5 Crore for Distribution Business and Rs. 1 Crore for SLDC:

Provided further that the total capital expenditure on non-DPR schemes in any year should not exceed 20% of that for DPR schemes during that year."

### PSTCL Reply:

PSTCL submits that the envisaged capital expenditure is proposed to be funded through borrowings from financial institutions. Such institution mandatorily requires submission of DPR for the proposed schemes.

3 Nos. DPRs for the new transmission works are enclosed as Annexure-2 to 4.

2 No. DPRs for SLDC works are enclosed as Annexure- 4A and 4B.

1 No. DPR for PSDF funding works (for SAS) is enclosed as Annexure - 5.

DPRs for remaining works shall be submitted subsequently.

Note:- DPR for Extension of control-room building at SLDC cannot be created at this stage as it is linked with ULDC Phase-III, as such DPR will be drafted after modalities of ULDC Phase-III are finalized by PGCIL.DPR for new work i.e. "Purchase of IT equipment/software as per instructions of central agencies like NLDC, NCIIPC, CERT-IN, for cyber security etc. or any other unforeseen SLDC related works (i.e. for RTU, IT, SAMAST, etc.)"shall be formulated based on instructions of central agencies. As adoption of Cyber security guidelines at Central & State level are still in nascent stage, the DPR for this project shall be drafted based on projects undertaken by central agencies like NLDC, NRLDC etc. in the near future. DPRs for other SLDC works have already been submitted.

4. Regulation 9.18 of the MYT Tariff Regulations, 2019 provides as under-

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"The STU shall also provide a copy of its capital investment plan to the Distribution Licensee, at the time of filing of this plan with the Commission. The copy of approved capital investment plan shall also be sent to the Distribution Licensee by the STU, immediately after approval by the Commission"

PSTCL to submit the documentary evidence of compliance of the above Regulation.

PSTCL Reply: The Business plan has been shared with PSPCL vide Memo No.813 dated 09.09.2022 copy of the same is enclosed as Annexure-12.

5. PSTCL has submitted that its actual transmission loss was 2.31% in FY 2021-22. However, a higher transmission loss i.e. 2.50% has been projected for all the years of the 3<sup>rd</sup> Control Period despite the substantial capital expenditure being proposed during the same period. This needs to be explained.

**PSTCL Reply:** The actual PSTCL Transmission losses for FY 2021-2022 are calculated as 2.31%. Presently, the PSTCL transmission losses are being calculated based upon manual/downloaded data of energy meters.

SLDC is in process of implementation of SAMAST project. In SAMAST project, all the existing energy meters are to be replaced with new energy meters. The meter data will be received from all grid/substations through AMR system. Further, this data will be integrated in the software being developed by the firm and software-based calculation/checking of data will be done leading to reduced manual intervention. There will also be some minor variation in calculations after SAMAST implementation.

Apart from above, additional transmission elements i.e. transmission lines/transformers and other elements will be added in coming years thereby increasing the installed MVA capacity of PSTCL system which may add in transmission losses during lean period. The direction of power flow in PSTCL system along with the outage elements/ loaded elements/lightly loaded transmission elements of future years cannot be ascertained presently so there can be some deviations in PSTCL transmission losses. Keeping in view of the above, proposed transmission loss trajectory is detailed as under:

Particulars	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
Transmission losses (%)	2.50%	2.50%	2.50%	2.50%

 PSTCL to submit a Transmission Map updated for 2022 along with single line diagram, having distinct colour coded representation for existing. overloaded and proposed transmission network

**PSTCL Reply:** Transmission Map with distinct colour coding for different voltage level elements and updated till May 2022 is enclosed as **Annexure - 6**. Transmission map for proposed network is under preparation and will be submitted subsequently.

7. PSTCL in its Petition has submitted CIP of Rs. 1274.26 Crore (new works Rs. 308.29 Crore+ spillover Rs. 965.97 Crore), Rs. 1140.61 Crore (new works Rs. 580.57 Crore+ spillover Rs 560.04 Crore) and Rs. 850.47 Crore (new works Rs.681.41 Crore+ spillover Rs.169.06 Crore) for FY 2023-24, FY2024-25 and FY2025-26 respectively for its transmission & SLDC business which is not commensurate with its CIP for the 2<sup>nd</sup> Control Period. Substantial capital expenditure proposed under new schemes during the 3<sup>rd</sup> Control Period while the spillover and deferred schemes from the 1<sup>st</sup> & 2<sup>nd</sup> Control Period are still pending; PSTCL to provide justification for the same along with year wise capital expenditure made during last 5 years.

PSTCL Reply: PSTCL submits that in the current CIP the spillover schemes from previous CIP are getting implemented across the MYT period i.e. FY 23 to FY 26. The cumulative outlay on such schemes is around Rs. 1,695.07 crores. For new schemes the capital investment is Rs. 1570.27 crores during the Control period. Besides the rationale for proposed capital expenditure, the works have been planned to increase the MVA capacity which will further enhance the ATC/TTC limits and load growth/load projections and the resultant capital outlay has been balanced in 3 years. The increase in capital outlay is due to the fact that the transmission system which was created at 400 kV level has been fully utilized to the installed capacity in the past years due to unprecedented increase in demand of the state post COVID-19

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and now there is hardly any margin in the transmission system. The details of the year wise capital expenditure made during last 5 years are enclosed as **Annexure-7**.

8. PSTCL to submit detailed technical justification along with cost benefit analysis for capital expenditure proposed in respect of network addition, system strengthening and system augmentation, with details of existing network capacity (as on March 2022) and network capacity projected to be achieved by the end of 3<sup>rd</sup> Control Period.

PSTCL Reply: Technical justification for the spill-over works has already been provided to PSERC during the submission of Capital Investment Plan for MYT 2020–23. Similarly, technical justification for the new works included in the Capital Investment Plan for the MYT 2023–26 has also been provided during its submission. The details of the existing network capacity are as follows:

Voltage level	MVA capacity (ending March 2022)	Circuit km (ending March 2022)		
400 kV	5390	1599.754		
220 kV	29981.5	7880.135		
132 kV	4335.67	3098.039		

The details of the network capacity projected to be achieved by the end of 3<sup>rd</sup> Control Period (2023 - 26) are as follows:

Voltage level	MVA capacity (by the end of 3 <sup>rd</sup> CP)	Circuit km (by the end of 3rd CP)		
400 kV	9390	1701.754		
220 kV	36729	9184.215		
132 kV	4757.67	3307.539		

9. For spillover schemes, PSTCL has projected an expenditure higher than the scheme costs. PSTCL to provide details scheme wise with respect to actual project cost, actual cost incurred during 1<sup>st</sup> & 2<sup>nd</sup> control period and projected expenditure during 3<sup>rd</sup> control period. Scheme-wise justifications for delay and spillover be provided along with reasons/ bottlenecks for consistent delay of schemes started from 1<sup>st</sup> Control Period onwards along with rationale for excess expenditure.

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PSTCL Reply: PSTCL submits that MYT plan for FY 2017-20 did not include the IDC and EC attributed to Capital works. The CIP proposed in this petition includes the envisaged outlay on IDC and EC. For transmission schemes, besides the technical studies and approvals for implementation the major issue is towards acquiring the right-of-way for development of transmission lines. Delay in development of such lines is therefore a known phenomenon to all the developers including PGCIL which has the largest network in the country. Besides the above, selection of suppliers and establishment of reasonability of their quotes increase the lead time in initialization of the projects. The scheme-wise justifications for delay and spillover has already been provided and the reason for excess expenditure is attached as Annexure-8.

10. PSTCL to provide scheme-wise technical and financial justification for each new scheme proposed along with schemes completion dates and any spillover expenditure for proposed new schemes beyond 3<sup>rd</sup> Control period.

<u>PSTCL Reply:</u> Technical justifications for all the works have already been provided. Financial justification (Cost Benefit Analysis) has been included in the submitted DPRs for the new transmission works. The spillover expenditure for proposed new schemes beyond 3<sup>rd</sup> control period is approx. Rs. 527.33 Crore (CWIP).

11. PSTCL has considered EC @15% and IDC @ 4% in the 3<sup>rd</sup> Control Period. PSTCL to submit the rationale and detailed calculation along with documentary evidence to substantiate its claim.

<u>PSTCL Reply:</u> The estimated amount of EC &IDC during the 3rd control period is tentative. The actual EC & IDC incurred will be submitted subsequently at the time of True up submission.

12. PSTCL to submit bifurcation of spillover works and new works for the capital investment plan proposed for its SLDC business, in line with Regulation 9.7 of the MYT Tariff Regulations, 2019.

<u>PSTCL Reply</u>: Bifurcation of spillover works and new works for SLDC is already submitted and is again enclosed as Annexure-9.

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13. PSTCL to submit actual scheme-wise capital expenditure from FY 2020-21 to FY 2021-22 and projected capital expenditure for FY 2022-23 for Transmission & SLDC works, Further, PSTCL to also provide the proportion of Govt. grants and consumer contribution received.

PSTCL Reply: Actual scheme wise Capital expenditure for FY 2020-21, 2021-22 and projected expenditure for FY 2022-23 are enclosed as Annexure-10. PSTCL submits that no contributory work is included in the 3rd Control Period. The works being carried out with central grant under PSDF are listed at CIP nos. 172 – 175 and 180 of Table-11; 71, 72, 74 and 87 of Table-17; 7 of Table-22. As and when central funds are received and works are completed, complete details of funds and capitalization shall be submitted to the Hon'ble commission with the True-up. Likewise the details of contributory works shall also be submitted with the True-up.

14. PSTCL is required to intimate the strategy for utilization of the dismantled transformers etc. where it has proposed augmentation along with details when installed & now proposed to be dismantled and cost of transformers so dismantled.

PSTCL Reply: Transformer augmentation is purely based on the maximum demand recorded at any substation or as per requirement on real time basis. Augmentation is also undertaken in case a new connection is applied requiring augmentation of the system. All transformers which are dismantled shall be used within the system. The transformer to be dismantled is identified on case to case basis at the time of actual augmentation of the transformer. The depreciated value of the transformer so identified to be dismantled shall be calculated at the time of dismantlement and details of all such transformers shall be submitted subsequently at the time of True up submission.

15. For schemes over Rs. 50 Crore, PSTCL has sought exemption from execution of project through TBCB (Tariff based Competitive Bidding) by quoting reference of MoP letter dated 15.03.2021 However, the letter strongly recommends to adopt TBCB for development of intra state transmission system in larger interest of consumers. PSTCL is required to clarify.

PSTCL Reply: All the new works of tentative cost more than Rs 50 Crore involve upgradation of 66kV/132/220kV substations to 220/400 kV level within the pre-

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owned land of existing networks of PSPCL/PSTCL and the transmission lines connecting these new substations are LILO of existing transmission lines and hence are only technical upgradations specific to the need of the areas of Punjab State and are Brown Field projects. Therefore, all these projects do not fall under the ambit of TBCB mode as per exemption stated in clause 7.1(7) of revised tariff policy issued by Govt. of India in January 2016 read with Govt. of India, Ministry of Power memo no. 15/2/2017-Trans-Pt(1) dated 15.03.2021 (Annexure-11).

### 16. PSTCL to submit the following:

- Annual Audited accounts from FY 2021-22.
   PSTCL Reply: Annual Audited accounts from FY 2021-22 are placed in the enclosed CD.
- A breakup of scheme-wise financing plan i.e., the breakup between debt, equity, Govt. grants and consumer contribution for each of the ongoing/spillover/deferred and new schemes;
  - <u>PSTCL Reply</u>: PSTCL submits that no contributory work is included in the 3rd Control Period. Complete details of funds and capitalization of the works to be carried out with central grant under PSDF shall be submitted to the Hon'ble commission with the true-up.
  - c. Actual Government grants received (if any) for the ongoing/ spillover schemes (as on March 2022) and an estimate of Government grants expected to be received from FY 2023-24 to FY 2025-26;
    - **PSTCL Reply:** PSTCL submits that no contributory work is included in the 3rd Control Period. Complete details of funds and capitalization of the works to be carried out with central grant under PSDF shall be submitted to the Hon'ble commission with the true-up.
  - d. Summary sheet of capital expenditure and capitalization showing the cost, employee cost, IDC.

<u>PSTCL Reply</u>: Summary of capital expenditure and capitalization showing the cost, employee cost, IDC is as under:

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	CIP propose	d for 3rd Co	ontrol Perio	d (Total So	themes)		(Rs. Crore)
St No.	Particulars	FY 2023- 24	FY 2024- 25	FY 2025- 26	FY 2023- 24	FY 2024- 25	FY 2025- 26
		Capit	al Expendit	ure	C	apitalizati	on
	Transmission					404.04	072.14
1	Works Cost	1045.64	944.95	716.58	1012.24	694.06	873.14
2	Employee Cost	169.28	147.99	105.06	176.34	114.96	129.80
3	IDC	59.34	47.68	28.83	69.29	42.57	36.87
4	Total	1274.26	1140.62	850.47	1257.87	851.59	1039.81
-	SLDC						
1	Works Cost	8.28	2.13	0.93	24.79	5.96	0.93
2	Employee Cost	0.00	0.00	0.00	0.00	0.00	0.00
3	IDC	0.00	0.00	0.00	0.00	0.03	0.00
4	Total	8.28	2.13	0.93	24.79	5.99	0.93
•	PSTCL		MALDE				
1	Works Cost	1053.92	947.08	717.51	1037.03	700.02	874.07
2	Employee Cost	169.28	147.99	105.06	176.34	114.96	129.80
3	IDC	59.34	47.68	28.83	69.29	42.60	36.87
4	Total	1282.54	1142.75	851.40	1282.66	857.58	1040.74

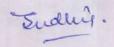
Transmission and SLDC business does not contain consumer contribution/Govt. grants if any, towards capital expenditure. PSTCL has projected the capital expenditure for Rs.1282.54 crore, Rs.1142.74 crore and 851.40 crore during the year FY 2023-24, FY 2024-25 and FY 2025-26 respectively, for Transmission and SLDC Business (Table-26). However, equity to be infused has been shown as Rs.133.80 crore, Rs 153.36 crore and Rs.175.61 crore for FY 2023-24, FY 2024-25 and FY 2025-26 respectively (Table No-27) and loan requirement shown is Rs.947.07 crore. Rs.738.77 crore and Rs.783.7 crore for FY 2023-24, FY 2024-25 and FY 2025-26 respectively (Transmission and SLDC business). The financing amount of equity and Loan does not tally with the projected capital expenditure. Hence,

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PSTCL to clarify how the equity amount has been derived clearly stating the receivable amount of consumer contribution/Govt grants.

PSTCL Reply: As per clause 4.5.8 of MYT Order for FY 2020-21dated 01.06.2020, the Hon'ble Commission has decided to fund the new schemes on Capitalization basis (schemes started after 01.04.2020) and fund the spill over schemes (i.e. schemes before 01.04.2020) on Capital expenditure basis. Therefore, although the Capital Expenditure for 3<sup>rd</sup> Control Period is Rs. 1282.54 crore, Rs. 1142.74 crore and Rs. 851.40 during FY 2023-24, 2024-25 & FY 2025-26 respectively, however, funding required is Rs. 1057.57 crore, Rs. 886.14 crore and Rs. 958.38 crore respectively considering Capital Expenditure for Spill over schemes and Capitalisation of New Schemes. Detailed Funding is shown as below:-

Funding	Requirement for Capital Investment for	or 3rd Control	(Rs. Crore)		
Sr. No.	Particulars	FY 2023-24	FY 2024-25	FY 2025-26	
A	Transmission				
1	CAPEX of Spill over Schemes from 1st Control Period (Excluding Contributory & PSDF)	196.31	80.96	61.57	
2	Capitalization of New Schemes from 2nd Control Period and New Works for 3rd Control Period (Excluding Contributory & PSDF)	861.26	805.18	896.81	
3	Directly Capitalised	0.00	0.00	0.00	
4	Total funding for CAPEX	1057.57	886.14	958.38	
4a	Funding through Equity (New Schemes) (As per Table - 27)	133.80	153.36	175.61	
4b	Funding through Loan	923.77	732.78	782.77	
5	Total Capital Expenditure	1274.26	1140.61	850.47	
6	Total funding for CAPEX	1057.57	886.14	958.38	
7(5-6)	Balance CAPEX of New Schemes (Not Capitalized yet/ Capitalized balance of previous years)	216.69	254.47	-107.91	



В	SLDC			
1	CAPEX of Spill over Schemes from 1st Control Period (Excluding Contributory & PSDF)	0.78	0.40	0.00
2	Capitalization of New Schemes from 2nd Control Period and New Works for 3rd Control Period (Excluding Contributory & PSDF)	22.52	5.59	0.93
3	Directly Capitalised	0.00	0.00	0.00
4	Total funding for CAPEX	23.30	5.99	0.93
4a	Funding through Equity	0.00	0.00	0.00
4b	Funding through Loan	23.30	5.99	0.93
5	Total Capital Expenditure	8.28	2.13	0.93
6	Total funding for CAPEX	23.30	5.99	0.93
7(5-6)	CAPEX of New Schemes (Capitalized balance of previous years)	-15.02	-3.86	0

Further, during 3<sup>rd</sup> Control Period, Out of total fund requirement of Rs. 1057.87 crore, Rs. 886.14 crore and Rs. 958.38 crore respectively, funding through equity is the amount of ROE of previous year, which can be invested in current year e.g. ROE of FY 2022-23 is the equity invested/funding from equity during FY 2023-24. Calculation of ROE is as below:-

Calculation of Return on Equity (Rs Crore)

	Culculati	on or recta	THE OIL ENGINE	(		
Sr. No.	Particulars	2021-22	2022-23	2023-24	2024-25	2025-26
1	Opening Equity for the year	726.36	803.92	922.52	1056.32	1209.68
2	Addition of Equity during the year	77.56	118.60	133.80	153.36	175.61
3	Closing Equity for the year	803.92	922.52	1056.32	1209.68	1385.29
4	Rate of RoE	15.50%	15.50%	15.50%	15.50%	15.50%
5	Return on Equity	118.60	133.80	153.36	175.61	201.11

18. It has also been observed that Rs.7.17 crore, Rs.2.96 crore and Rs 2.24 crore have been shown as the interest capitalization for FY 2023-24, FY 2024-25 and FY2025-26 respectively. PSTCL to clarify the basis on which interest capitalization has been worked out towards capital works.

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<u>PSTCL Reply</u>: Capitalization of Interest during 3<sup>rd</sup> Control Period is based on actual figures of interest capitalized for FY 2021-22. During the FY 2021-22, total Capitalization of Interest amounting Rs. 11.70 crore is against Total Capital Expenditure of Rs. 321.40 crore. Relation between Interest Capitalized & Capital expenditure is 3.64% (11.70/321.40) for FY 2021-22.

During 3<sup>rd</sup> Control Period Capitalization of interest is considered only on Spill over works only, as Hon'ble Commission considers capital expenditure on Spill over schemes and Capitalization for new schemes for funding purpose. Therefore, Same 3.64% has been applied to the Capital Expenditure on Spill over works during 3<sup>rd</sup> Control Period to derive the figure of Interest Capitalized.

19. PSTCL in table No. 33 has shown the payment of arrear of Pay to employees and Pensioners to the tune of Rs.202.02 crore and Rs 115.34 crore respectively during FY 2022-23. However, PSTCL in petition No.67 of 2021 has claimed Rs.55.72 crores (FY 2021-22) and Rs. 25.43 crore (FY 2022-23) (Table-89 & 90 page-76 of the Tariff Order dated 31.03 2022) towards Pay revision impact for PSTCL and SLDC. PSTCL to intimate the reasons/basis for such rise in pay revision arrears amounting to Rs.317.36 (202.02+115.34) crore payable in FY 2022-23 from Rs.25.43 crore.

PSTCL Reply: Impact of Pay Revision claimed in petition no. 67 of 2021 amounting to Rs. 55.72 crore (FY 2021-22) and Rs. 25.43 crore (FY 2022-23) is on the account of Pay revision impact w.e.f 01.07.2021 i.e. from the date of implementation of Pay Commission report by GOP. However, in CIP & BP Petition for 3<sup>rd</sup> Control Period payment of arrear of Pay to employee and Pensioners amounting to Rs. 202.02 crore and Rs 115.34 crore respectively on account of Arrears of Pay Commission w.e.f 01.01.2016 to 30.06.2021. However will be paid only as per notification issued by the Government of Punjab regarding it.

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#### **Detail of works**

		Transmission								
		TS	8		P&M		Total		SLDC	
Sr. No.	Particulars	No. of Works	Total Cost as per previous CIP (In Cr.)	No. of Works	Total Cost as per Previous CIP (In Cr.) *	No. of Works	Total Cost as per Previous CIP (In Cr.) *	No. of Works	Total Cost as per Previous CIP (In Cr.)	
1	Works Envisaged in Previous CIP						157.636			
	Works completed	42	140.116	8	17.52	50				Appendix-A
	Works to be completed by 31.03.2023	29	322.901	1	0.28	30	323.181			
	Works dropped/deleted/shifted	19	132.319	4	34.62	23	166,939			(Transmission Works)
	Total	90	595.336	13	52.42	103	647.756		-	Appendix-D
2	Detail of works approved outside 2nd CIP								0.28	(SLDC Works)
	Works completed	1	12.09	0	0	1	12.09	1	0.28	(SEE THORID)
	Works to be completed by 31.03.2023	3	95.773	1	0.45	4	96.223	0	0	
	Works dropped/deleted/shifted	1	6.3	0	0	1	6.3	0	0	
	Total	5	114.163	1	0.45	6	114.613	1	0.28	

	Abstract o	Total Cost (In Cr.)					
Sr. No.	Particulars	No. of Works	FY 2023-24	FY 2024-25	FY 2025-26	Total cost (iii ci.)	
1	Spill over works approved from previous CIP & Spill over works approved from previous control period approved outside CIP	101	965.97	560.04	169.06	1,695.07	Appendix-B (Transmission Works)
2	New Works for 3rd Control Period	98	308.29	580.57	681.41	1,570.27	Appendix-C
	Total	199	1274.26	1140.61	850.47	3,265.34	(New Works)

	Abstrac	Total Cost (In Cr.)					
Sr. No.	Particulars	No. of Works	FY 2023-24	FY 2024-25	FY 2025-26	Total cost (iii si.)	
	Spill over works approved from previous CIP & Spill over works approved from previous control	6	7.78	1.63	0.43	9.84	
	New Works for 3rd Control Period	2	0.50	0.50	0.50	1.50	Appendix-D
	Total	8	8.28	2.13	0.93	11.34	.55



#### Appendix-A

Sr.No.	Sr No. as per CIP Order	List of works of Cir Zild V	Name of Project	•	Project cost as per CIP		Start Date	Date of completion	Remarks (if any)	
Table-1	1 of 2nd CIP Order- Works	r- Works of 1st Control Period								
1	Α	Unforeseen Expenditure on works on 2018-19			6.88		2020-21	2020-21	Work is completed. Not spillover.	
2	39 :	Bus Bar Protection scheme for 45 no S/Stns. (90% funding Under Power System Development Fund (PSDF), 10% amount accounted for in FY 2017-18		-	1.11	1.82	12-2019	2021-22	Work is completed. Not spillover.	
3	60	220 kV S/S Derabassi		Addl. 100MVA, 220/66 kV T/F	1.11	9	14.12.2015	2018-19	Work is completed. Not spillover.	
4	62 ,	400 kV S/Stn. Makhu		Addl 500MVA 400/220 kV	30.39	29.6	21.11.2019		Work is completed. Not spillover.	
5	89	220 kV S/S Dhandhari Kalan 1 and 2	Provision of 220 kV Double bus bar arrangement	No.	5.01	9.23	Project shifted		Scope of work revised at Sr. No. of 10 of MYT 2020-23. So, this work will not spillover. CWIP for 2020-21 has also been shifted to Sr. No. 10.	
6	90	220 kV S/S Sahnewal		Provision of making 66 kV double bus arrangement including dismantlement & erection of new towers-	0.2	2.2	28/4/2017		As 220 kV S/S Sahnewal caters mainly Industrial area s very few shutdowns are being approved but multiple shutdowns are required to complete this work which causes delay in completion of work. The scope of work also needs to be revised. So, the work is proposed to b foreclosed and new work with revised scope of work habeen added in new MYT 2023-26.	
7	102	New Civil Works in respect of 5 no. stores such as sheds, plinths and Boundry walls etc.		HR, IT, S&D Organization work	4.23		2022-23		Work is completed. Not spillover.	
8	104	Procurement of Hardwares, Server, Furniture, IT Space renovation (Civil Works) & Unforeseen Capital Investment		HR, IT, S&D Organization work	2.58		01-2022		Work is completed. Not spillover.	
9	107	220 kV S/Stn Sadiq		Repl. of 100 MVA with 160 MVA, 220/66 kV T/F	0.35	8.81	07-2020	2021-22	Work is completed. Not spillover.	
10	108	220 kV S/Stn Bajakhana		Repl. of 100 MVA with 160 MVA, 220/66 kV T/F	0.35	8.81	20/03/2020	06-2022	Work is completed. Not spillover.	
11	110	220 kV S/Stn Ghubaya	M	Repl. of 100 MVA with 160 MVA, 220/66 kV T/F	0.35	8.81	07.10.2019	2022-23	Work is completed. Not spillover.	



116  220 kV S/StnBanga (U/G from 132 kV)  119  220 kV Line bays at 220 kV S/StnBanga (Proposed)  129  LILO of one ckt. of 400 kVJalandhar-Kurukshetra D/C line f at 400 kV Dhanansu(Quad Moose)  131  220 kV Bayur Mahali (CMDA) 80	LILO length = 5	1x100 MVA, 220/132 kV T/F as spared from 220 kV S/StnMahilpur 2 Nos. (cost of 1no. Line bay already included in s/stn.	2.79	Project Cost 8.19	Start Date 01-2019	Date of completion Dec 2022	Remarks (if any)  Work is completed. Not spillover.	
S/StnBanga (U/G from 132 kV)  220 kV Line bays at 220 kV S/StnBanga (Proposed)  LILO of one ckt. of 400 kVJalandhar-Kurukshetra D/C line f at 400 kV Dhanansu(Quad Moose)	=5	220/132 kV T/F as spared from 220 kV S/StnMahilpur 2 Nos. (cost of 1no. Line bay already included in		8.19	01-2019	Dec 2022	Work is completed. Not spillover.	
(Proposed)  LILO of one ckt. of 400 kVJalandhar-Kurukshetra D/C line f at 400 kV Dhanansu(Quad Moose)	=5	2 Nos. (cost of 1no. Line bay already included in	0.33	1.3			II.	
LILO of one ckt. of 400 kVJalandhar- Kurukshetra D/C line f at 400 kV Dhanansu(Quad Moose)	=5	already included in	0.33	1.3				
Kurukshetra D/C line f at 400 kV Dhanansu(Quad Moose)	=5				01-2019	May 2022	Work is completed. Not spillover.	
Nurukshetra D/C line f at 400 kV Dhanansu(Quad Moose)	=5						×	
131	km(approx)		12.04	17.00(appr ox.)	10-2021	3.2023	Erection of towers got completed except one tower. Work will be completed by 3/23.	
131 220 kV Banur- Mohali (GMADA) DC line	4 km Line Length ACSR ZEBRA				- 1			
	Conductor		3.48		Work dro	pped	Work to be dropped due to non availability/hand over o	
	W	6					land from GMADA and non deposit of requisite funds.	
134 400 kV Grid Dhanansu (near Doraha)	220 kV DC line from 400 kV Grid near Doraha to 220 kV lkolaha 12				Droppe	d v	Nork draws duid	
	km (approx.)/ 420 sq mm DC ACSR Zebra						Work dropped vide Amendment No.16/2021-22 Dated 27.07.2021	
137- 1 Aug/Strengthoning of him has								
Extension in Switchyard buildings,     Provision for AC etc.     Provision for Reactive Compensation     Addition of bays/system strengthening required on	O .	a.	3.41	3.275	2020-21	2022-23 W	Vork completed. Not spillover.	
account of RE generation			er en					
	2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening	220 kV DC line from 400 kV Grid near Doraha to 220 kV lkolaha 12 km (approx.)/ 420 sq mm DC ACSR Zebra  1. Aug/Strengthening of bus bars 2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening required on	220 kV DC line from 400 kV Grid near Doraha)  220 kV Dc line from 400 kV Grid near Doraha to 220 kV lkolaha 12 km (approx.)/ 420 sq mm DC ACSR  22bra  1. Aug/Strengthening of bus bars 2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening required on	220 kV DC line from 400 kV Grid near Doraha lo 220 kV lkolaha 12 km (approx.)/ 420 sq mm DC ACSR Zebra  1. Aug/Strengthening of bus bars 2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening required on	220 kV DC line from 400 kV Grid near Doraha 122 km (approx.)/ 420 sq mm DC ACSR  250 kV lkolaha 12 km (approx.)/ 420 sq mm DC ACSR  26bra  1. Aug/Strengthening of bus bars 2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening required on	220 kV DC line from 400 kV Grid near Doraha to 220 kV lkolaha 12 km (approx.)/ 420 sq mm DC ACSR Zebra  1. Aug/Strengthening of bus bars 2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening required on	134 400 kV Grid Dhanansu (near Doraha)  220 kV DC line from 400 kV Grid near Doraha to 220 kV lkolaha 12 km (approx.)/ 420 sq mm DC ACSR  Zebra  1. Aug/Strengthening of bus bars 2. Extension in Switchyard buildings, Provision for AC etc. 3. Provision for Reactive Compensation 4. Addition of bays/system strengthening required on	

0-11-	6.44	List of works of CIP 2nd	Control Period Which I	iave been completed,	to be comp	leted by	/ 31.03.202	3/Droppe	ed/Shifted
Sr.No.	Sr No. as per CIP Order		Name of Project		Project cost as per CIP	Actual Project Cost	Start Date	Date of completion	Remarks (if any)
21	142	Replacement of Disc Insulators of 400 kV PSTCL lines with Polymer Insulators			105.45		4.21		Due to tripping of 400 kV lines in foggy season with porcelain insulators, PSTCL started washing of porcelai discs before foggy season which reduced tripping of 40t kV lines. After considering results of washing, BODs decided that all existing strings may not be replaced witl polymer insulators and washing of discs be carried out twice a year. As per BODs decision washing is being done twice a year, once before foggy season and once after the wheat harvesting. Further it was decided to replace porcelain disc insulators with Polymer disc insulators at strategic locations for which 1000 polymer disc insulators have been replaced during this Control Period and 1000 polymer discs are under procurement for replacement in 2nd CP. Depending upon needs of th future, porcelain disc insulators will be replaced with Polymer Long Rod for which provision of Rs. 10 Cr. has been made in the MYT of 3rd CP.
22		220 kV DC line from 220 kV S/Stn Gaunsgarh to 220 kV S/StnLadhowal.	2.50 To 10 T		1.11	13.92	05-2018	12-22	Work is completed. Not spillover.
23 to26	155	Aug/Strengthening of bus bars     Extension in Switchyard buildings, Provision for AC etc.     Provision for Reactive Compensation     Addition of bays/system strengthening required on     account of RE generation	E 18		4.87	15	2020-21	2022-23	Work is completed. Not spillover.
27	163	132 kV Samadh Bhai		Construction of a new Switch House Building at a new raised level	0.67		04.08.2019	2021-22	Work is completed. Not spillover.

28	164	132 kV Pathankot	Name of Project	h have been completed,	per CIP	Actual Project Cost	Start Date	Date of completion	Remarks (if any)
		The state of the s	ā	Construction of a new control- room building by replacing old control - room building	0.22	COST	02-11-2018	22/11/2019	Work is completed. Not spillover.
29	166	220 kV	0	Add 0-4 too to 4					
		S/Stn Bhawanigarh		Addl. 2nd 100 MVA, 220/66 kV T/F	6.69	7.44	04.03.2020	Sep 22	Work under progress, will be completed by 31.08.20
30	167	220 kV S/Stn Jadla	0						
				Addl. 2nd 100MVA, 220/66 kV T/F	6.69	7.44	03.02.2020	Dec 22	Work is completed. Not spillover.
31	168	220 kV S/Stn Botianwala (Thatha Sahib)	0	Addl. 3rd 160 MVA, 220/66	9.03				
32	169	120 kV		kV T/F	3.03	10.1	01.11.2021	March 23	Work will be completed by 03/23. Not spillover.
		zo kv S/Stn Majitha	0	Addl. 2nd 100 MVA, 220/66 kV T/F	6.69	7.44	13.10.2020	March 23	Work under progress, will be completed by 31/03/2023 Not spillover.
33	170 1	E:							
	110	32 kV S/Stn Pathankot	0	Repl. of 1x12.5/16 MVA, 132/66- 33 kV T/F with 1x20/25 MVA, 132/66 kV T/F	0.23	0.21	26.02.2018	Dec 19	Work is completed. Not spillover.
4	171 13	32 kV IGC,	0						
		athinda	•	Repl. of 1x25 MVA, 132/66 kV T/F with 1x50 MVA,132/66 kV T/F		0.18	11.05.2022	06-2022 V	Vork is completed. Not spillover.

35		Replacement of Existing conductor of 220	Name of Project		Project cost as per CIP	Actual Project	Start Date	Date of	Remarks (if any)
35						Cost		completion	
		kV Mohali-II		O Service Control of the Control of	31.14		Drop	ped	Mohali1-Mohali 2 circuit was having high loading. So, in order to reduce the loading and to balance out the pown flows between Mohali-1, Mohali-2, Lalru and Dera Bass LILO of 220 kV Mohali-1 - Lalru at 220 kV Mohali-2 has been planned vide amendment no. 27/2021-22 dated 09.12.21, this effectively creating double circuit connectivity between Mohali-1 and Mohali-2. Therefore Mohali-1 - Mohali-2 HTLS is not required now.
36		220 kV DC line from 400 kV Jalandhar (PGCIL) to 220 kV Kartarpur	Augmentation of existing conductor of both circuits with HTLS conductor of min 1200 A capacity	0	41.83		05-2022	03-2023	Work under progress. 1st circuit completed and 2nd circuit to be completed by 3/23.
		Total	<u> </u>		289.23	-			
	16	pproved outside lst CIP	a v				9		
37	2b	132 kV Sihora-132 kV Seh SC line		2 no. 132 kV line bays (one at each end)	1.11	1	01-2020	01-21	Work is completed. Not spillover
38	4	400 kV S/StnNakodar (2x315 MVA, 400/220 kV) (Amendment no. 43 /2018-19)			16.17	14.5	Dropp		This work has been revised and approved vide PSERC Petition No. 37 of 2020 and the revised work is in the Work approved by Petition list So, hence work is deleted from here.
39	4	Cost of dismantlement of 1x315 MVA, 400/220 kV ICT at 400 kV Nakodar			0.58	0.5			
	N.								

List of works of CIP 2nd Control Pariod which have been

Sr.No.	Sr No. as per CIP Order	List of works of CIP 2nd	Name of Project	•	Project cost as per CIP	Actual Project Cost	Start Date	Date of completion	Remarks (if any)
40	5	400 kV Rajpura–220 kV Bassi Pathana DC Link. (Amendment no. 13 /2019-20)	220kV DC Line from 400 kV Rajpura to 220 kV Bassi- Pathana (Line length 2 X 20 km)		17.06	COST	Work di	ropped	This work is deleted from here as new work is planned vide Amendment No. 16/2022-23 and The expenditure for Amend 16/22-23 shall be adjusted to the cost allocated for the work listed at Sr. No. 5 of Table 13 of MYT 2020-23 (which is to be deleted). Further it is
		4no. 220 kV Bays			5.89				submitted that work of replacement of existing conduct of 220 kV Gobindgarh-400kV Rajpura (D/C) line with HTLS conductor of suitable capacity was intended to be
		220 kV Side bus extension arrangement to be made at 400 kV Rajpura for providing suitable space for 2 Nos 220 kV Bays			0.1			Ñ	carried out under PSDF scheme and the work of 400kV Rajpura-Bassi Pathana (D/C) link was planned as an atternate in case PSDF grant is not obtained for the 220kV Gobindgarh-400kV Rajpura (D/C) HTLS work. PSDF grant has been approved for the 220kV Gobindgarh-400kV Rajpura (D/C) HTLS work & thus work of 400kV Rajpura-Bassi Pathana (D/C) link is no longer needed.
41	8	220 kV Patti		Replacement of 1x100 MVA, 220/66 kV to 1x160 MVA, 220/66 kV T/F.	8.44	8.54	25.08.2021	06-2022	Work is completed. Not spillover.
40				LEGISORY III.					
42	9	220 kV Ferozepur road Ludhaiana		Replacement of 1x100 MVA, 220/66 kV to 1x160 MVA, 220/66 kV T/F.	8.44	8.54	11-2019	Jul-21	Work is completed. Not spillover.
able 15	of 2nd CIP Order-Works al	ready planned for 2020-23							
43	1	1 No. 400kV ICT bay, 1 No. 400 kV Tie bay, 1 No. 400 kV Future bay, 1 No. 220 kV ICT bay at 400 kV Rajpura. Amendment No. 20/ 2018-19	0	0	32.27	28	01-2022	08-2022	Work is under progress .Minor Civil Works pending. Will be completed by 15.08.2022. Not spillover.
44	1.0	Jumpering arrangement on tower no. T.L 290 for Termination of direct link 220 kV between Lalton Kalan Sahnewal (Amendment no. 04 / 2021-22)	0	In order to have PGCIL Ludhiana-220 kV Sahnewal as D/C (so as to avoid direct link between 220 kV Lalton Kalan-	0.06		sept 21	Dec 21	Work completed on 31.10.2021. Not spillover
		e e	B)	Sahnewal), termination shall be done at terminal tower at 220 kV LAlton Kalan end.	2			2	

Sr.No.	Sr No. as per CIP Order	List of works of CIP 2nd	Name of Project		Project cost as	Actual Project	Start Date	Date of completion	Remarks (if any)
45	3	400kV, 200MW		(* 1117) (* 1227) (*	a ta natikasia	Cost			
		Permanent Power to Guru Gobind Singh Polymer Addition Project- HPCL Mittal Energy Limited. (Amendment no. 21 (ii,iii& iv) / 2018-19)			1	29		2020-21	As this is Contributory work and is present at contributory work list and the work is completed on March 21.
able 17	: New Works planned for t	the 2nd Control Period from FY 2020-21 t	0 2022 22						
46	11	220 kV Kharar	7 2022-23	10 :				V	
				Replacement of 2x20MVA, 132/11 kV with 2x20MVA, 66/11kV T/F	3.65	3.28	26/12/2017	31/07/2021	Work completed. Not spillover.
47	12	220 kV Banga		-> 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	La Harrison				
			4	a) Addl. 1x100 MVA, 220/66 kV T/F.			work de	eleted	Scope revised vide Amendment No. 09/21-22 dated 28.06.21 and ratified by BOD.
48	13	220 kV Banga	= 070	b) Replacement of 2x20MVA, 132/11 kV T/F with 2x20 MVA, 66/11kV T/F.			Work de	eleted	
49		220 kV Nawanpind (new grid in the premises of 66 kV S/s Nawanpind)Includind SAS for RS 1cr.	220 kV Bays= 4 Nos	L 2 2 2		5.28	To be de		Scope revised on basis of request from PSPCL and Amendment No. 17/21-22 dated 24,08,21 issued and
50	26	Amedment No. 17/21-22	400 1345						ratified by BOD. Right to use from PSPCL is pending
51		Additional link	132 kV Bays= 2 Nos			0.96	To be de	eleted	
52				220 kV double bus bar at 220 kV Ghubaya	0.17	0.15	Delet		For double bus bar extension of yard is required and railway has also asked for connectivity of their RTSS at Bahmaniwala from 220kV Gubhaya for which additiona 220 kV bay is is being constructed. Extension of the yar has also been planned at the cost of railways vide Amendment No. 18/2022-23. So this work is to be deleted.
32	31	÷	LILO of 220 kV Sadiq- Talwandi Bhai line at 220 kV Jhoke Harihar (New) (LILO length 13 km approx, 0.4 sq inch DC on DC)		16.794		6.2022	3.2023	Work completed by 03/23. Not spillover
53	34 2	220 kV Dhaleke (GIS) including SAS of RS	III O of both citie of 220 kV	Tabadila II. B. II.					
		1 cr	Talwandi Bhai Dharmkot, conductor size 0.4sq", LILO length 10	To be deleted from Sr No. 34 to 36	13.17		Droppe		Work was planned with 220/132kV T/Fs. PSPCL has demanded 220/66kV T/F. Since 100MVA 220/66kV T/F at Singhawala has been planned as such this work is to
54	35	i l	0	2x100 MVA, 220/132 kV	33.27	20.47			pe dropped.
	35			T/F. including 4 no. 220 kV bays	55.21	39.47		-	#I 9
	28								

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55	Sr No. as per CIP Order		Name of Project		Project cost as per CIP	Actual Project Cost	Start Date	Date of completion	Remarks (if any)
		132 kVSwadi Kalan		L+LO of 132kV SC on DC line from Jamalpur to Moga at 132 kVswadi kalan ,conductor size 0.2sq", LILO length 4.5 km(approx)	2.33	Cost	4-2022	03-2023	Work will be completed by 03/23.
56	38	y.		2 no. 132 kV bays	1.11		10-11-2021	31/03/2023	1
57	40 ii) 2:			41	*	:#:			
	,	ii) 220 kV Abohar	0	Addl. 12.5 MVA, 66/11 kV T/F.			2022-23	2022-23	Work will be completed by 31.10.2022.
-									and the second
58	41	iii) 220 kV Passiana	0	Addl. 12.5 MVA, 66/11 kV T/F.	2.269	0.83	18.06.2020	2022-23	Work is completed. Not spillover.
		1			2.269		10.00.2020	2022-23	vvork is completed. Not spillover.
59	42	iv) 220 kV Dhuri	0	Aug. of 12.5 MVA, 66/11 kV to 20 MVA, 66/11 kV T/F.			11.05.2022	2022-23	Not spillover.
60	43	v) 220 kV Mohali - I	0	Deal	2.02				
				Replacement of 1x100 MVA, 220/66 kV to 1x160 MVA, 220/66 kV T/F.	9.84		09-2020	31/08/2022	Work is completed. Not spillover.
31	44	vi) 220 kV Banur	0	Addl. 20 MVA, 66/11 kV T/F.		-	07-2021	31/03/2023	Not politours
				6 2	2.28			0110012020	Not spirover.
51	47	x) 220 kV Mahilpur	0	Addl. 12.5 MVA, 66/11 kV T/F.	2.269	1	07.09.2020	2021-22	Work is completed. Not spillover.
33	48	220 kV Kartarpur	0	Addl. 12.5 MVA, 66/11 kV T/F.					
	7.			AGUI. 12.3 MVA, 66/11 KV T/F.	2.269		30.04.2021	2021-22	Work under progress, target date 30.09.2022

64	40	xi) 220 kV Badeahpur	P 2nd Control Period whi		Project cost as per CIP	Project		Date of completion	Pomoske (if )
			ľ	Addl. 1x100 MVA, 220/66		Cost			
65				kV T/F.	8.56		07-2022	2022-23	Work to be completed by 03/23
00	50	xii) 220 kV Butari	0		1 1		(A)	I .	
				Addl. 12.5 MVA, 66/11 kV T/F.			30.04.2021		The second secon
			1		2.269		30.04.2021	2022-23	Work under progress, target date 30.11.2022. No spillover.
66	51	xiii) 220 kV Udhoke	0		1 1			1	
			0	Addl. 1x100 MVA, 220/66 kV					\$2555 \$
*				T/F	8.56		05-2019	2022-23	Work under progress, target date 30.11.2022. Not spillover.
67	52	xiv) 220 kV Pakhowal					1 1		
			0	Replacement of 1x100 MVA,	-				
			-	220/66 kV to 1x160 MVA, 220/66 kV T/F.	9.84		01-2022	27/06/2022	Work is completed. Not spillover.
88	53	xv) 220 kV Jagraon		1			1		
		, === Art dagradii	0	Aug. of 12.5 MVA, 66/11 kV to					
		,		20 MVA, 66/11 kV T/F		1.71	12-2020	2021-22	Work is completed. Not spillover.
9	55	xvii) 220 kV Kohara				1		- 1	
	1000	AVII) 220 KV Kollara		Addl. 12.5 MVA, 66/11 kV T/F.	2.02				
				The state of the s			Work dele	eted	Vork dropped as work of any control
			1		2.269	1		1	Nork dropped as work of aug. of 20 MVA to 31.5 M as been planned.
0	56	xviii) 220 kV Doraha				- 1		4	
1	1000	XVIII) 220 KV Doraha	0	Addl. 12.5 MVA, 66/11 kV T/F.					
	78 - 17			MVA, 00/11 KV 1/F.			07-2021	2021-22 V	Vork is completed. Not spillover,
			1	1	2.269	- 1	- 1		on is completed. Not spillover,
	57	#1 A O O O O O O O O O O O O O O O O O O	=	1	2.203		1		£.
	,	cix) 220 kV Baghapurana	0	Add 42 5 th /4 co			1-	- 1	
	1			Addl. 12.5 MVA, 66/11 kV T/F.		2.26	01-2021	2021-22 W	
2	1		10 Hz	1	2.250				ork is completed. Not spillover.
+	58 ×		1		2.269				
	30 X	x) 132kV SmadhBhai	0	Add 40 5 km is			ŀ		
1		6	1	Addl. 12.5 MVA, 132/11 kV			08.06.2021	2022-23 W	
								2022-23 W	ork is completed. Not spillover.
	\$K			T A	3.81	- 1	- 1		

Sr.No.	Sr No. as per CIP Order		Name of Project	h have been completed/	Project cost as per CIP	Actual Project Cost	Start Date	Date of completion	Remarks (if any)
,,	28	xxi) 132kV Faridkot	0	Aug. of 12.5 MVA, 132/11 kV to 20 MVA, 132/11 kV T/F.		Just	2022-23	2022-23	Not spillover.
74	64	xxvii) 132kV Bhikhiwind	0		2.82		-		
		3. 1. 2. 3.	a	Aug. of 12.5 MVA, 132/11 kV to 20 MVA, 132/11 kV T/F.	2.82		02-2022	2022-23	Work is completed. Not spillover.
75	65	xxviii) 132kV Shri Hargobindpur	0	Addl. 20 MVA, 132/11 kV T/F.			10.02.2022	2022-23	Not spillover.
		Francisco de la companya del companya de la companya del companya de la companya			3.81		10.02.2022	2022-23	Not spinover.
76	66	xxx) 132kV Phillour		Aug. of 12.5 MVA, 132/11 kV to 20 MVA, 132/11 kV T/F	2.82		01-2022	2021-22	Work is completed. Not spillover.
77	67	xxxi) 132kV Bilaspur		Aug. of 12.5 MVA, 132/11 kV to 20 MVA, 132/11 kV T/F.			2022-23	2022-23	Not spillover.
		1.2		1921110 11.	2,82	r I	a Med		
78	68	xxxii) 132kV Tangra		Addl. 12.5 MVA, 132/11 kV T/F		-	04 0000		
				125 117, 10211 KV 17	3.81		01-2022	2022-23	Work under progress, target date 31.12.2022
79	73	Digitization of existing 220 kV S/s		Case already approved. PSDF	1.07				16
		Passiana.	e	funding have been applied.  Total cost = 11 Crs, out of which 90% PSDF funding & remaining 10% through capital investment.	1.21		Dropp		As per BODs 61st meeting dated 14.08.2020, work habeen dropped.
80	76	132 kV S/s Kotkapura-I		Addl. 1x20 MVA, 132/11kV T/F	3.69	3.31	16/12/2021	2022-23	Work is completed. Not spillover.
81			Y.	9				6	P 81
	79	132 kV Kapurthala,	0	Addl. 1x20 MVA, 132/11 kV	3.69	3.31	01-2022	2022-23	Work is completed. Not spillover.

Sr.No.	Sr No. as per CIP Order	ENTO WORN OR CIPATO	Name of Project		Project cost as per CIP		Start Date	Date of completion	Remarks (if any)
82	80	132 kV Sosan.		Replacement of 1x12.5 MVA, 132/11 kV with 1x20 MVA, 132/11 kV T/F	2.74	2.46	Dele	eted	Being single T/F, augumentation will affect supply, so work dropped as discussed in TPC and work of additional 20 MVA is being planned in 3rd MYT.
83	81	132 kV Panjgralan.	o	Replacement of 1x12.5 MVA, 132/11 kV with 1x20 MVA, 132/11 kV T/F	2.74	2.46	12-2021	2021-22	Work is completed. Not spillover.
84	83	IGC Bathinda (Aug)	0	Replacement of 2x12.5 MVA, 132/11 kV with 2x20 MVA, 132/11 kV	5.48	4.92	11.05.2022	2022-23	No. T/F augmentation work complete, for 2nd 20MVA 132/11KV T/F under procurement.
85	84	132 kV Gholian Kalan.	0	Addl. 1x20 MVA, 132/11 kV T/F	3.69	3.31	07-2021	2022-23	To be completed by 03/23
86	85	at 220 kV S/s Nawanpind (132 kV bus) LILO length = 1 KM appx. DC on DC.	Replacement of existing conductor of 0.25sq" with equivalent HTLS conductor (on the same supporting structure), having a minimum capacity of at least 800A.			IS N	Work d	eleted	Work deleted vide Amendment No. 17/21-22 dated 24.08.21 issued and ratified by BOD. Reason for deletic of work is that PSPCL requested for 66 kV system at 220 kV Nawanpind due to which scope has been revise vide Amend No. 17/21-22 dated 24.08.21 and due to 66 kV sysytem, 132 kV lines were not needed now, hence this work deleted.
87		Augmentation of 132 kV Nawanpind - Verka, 5 KM (0.2sq") and 132 kV Nawanpind - Malmandi (5KM 0.2sq") with suitable HTLS conductor.	0	*	25		Work de	eleted	a e
88	89	132 kV GT Road Amritsar & 132 kV Sakatari Bagh Asr	132 kV link between 132 kV Gt Road- 132 kV Sakatri Bagh through 132 kV underground cable		18.68	16.56	08-2021	31/07/2022	WORK completed.
89	90		132 kV Bays= 2 Nos.	132 kV Bays= 2 Nos.	1.15	1	12-2021	31/07/2022	
90	92	Unforeseen emergency works		3	17.38	15	2021-22	2022-23	Work will be completed by 22-23

Sr.No.	Sr No. as per CIP Order		Name of Project	 Project cost as per CIP	Actual Project	Start Date	Date of completion	Remarks (if any)
-		Works approved outside 2nd MYT 2020	-23 by Petition/BOD approval		Cost			
91	Amendment No. 22/2021-22	2 39 No. substation and one SLDC building	Installation of roof top solar power plant on roofs of control room of various 400/220/132 kV substations of PSTCL.		6.3	Dele	ited	CAPEX scheme is dropped. Now installation of rooflog will be explored in RESCO model.
92	Amendment No. 27/2021-22	220 kV S/S Mohali-2.	LILO of 220 KV Mohali-1-Lalru at			10-22	12-22	Tendering work in progress
	0, 8100		220 KV Mohali-2(Line length- 1 KM,0.4sq* conductor)-Stringing of LILO line.		0.317	10,000		Tendening work in progress
		220 KV S/S Sahnewal	Augmentation of 1 no. 100 MVA Transformer at 220 kV Sahnewal Sub- station to 160 MVA			2022-23	2022-23	Not spillover
93	Amend 03/22-23	220KVS/S Bajakhana Amend 03/22-23	Augmentation of 1 no. 100 MVA Transformer at 220 KV Bajakhana Sub- station to 160 MVA		35.596	2022-23	2022-23	Not spillover
		220KVS/S Ghulal Amend 03/22-23	Augmentation of 1 no. 100 MVA Transformer at 220 KV Ghulal Sub- station to 160 MVA			2022-23	2022-23	Not spillover
94	Amendment 08/22-23	132kv Power Colony Amritsar	1 No. 3rd Additional 132/11kV, 10/12.5 MVA T/F (spare T/f from system to be used).		59.86	2022-23	2022-23	Not spillover
		220 KV Sahnewal	Aug. of 1 no. 20 MVA with 31.5 MVA, 66/11 KV			2022-23	2022-23	
05								
95	Amendment 11/22-23		Augmentation of 220/66 kV 100 MVA TF to 160 MVA		12.09	2022-23	2022-23	Work is complete. Not spillover.
	4,			- 1				

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List of works of CIP 2nd Control Period which have been completed/

Sr.No.		The state of the s	Name of Project	
	P&M Works whi	ch have been completed or to be co	npleted by 31.03.2023/Dro	pped or shifted
r No.	Sr. No. as per CIP Order	Name of Project	Total Project Cost as per CIP	Remarks
		Works of First Control Pe	riod(2017-20)	
1	1	To modernise the hotline work by use of Diagnostic techniques to decrease the outage in transmission system of PSTCL.	11.14	Work completed and will be capitalized in 2nd CP of MYT
2	2	To provide SAS based DRs and ELs at six 220kV S/S as per requirements of IEGC and SGC and comply with 3rd party protection audit by CPRI.	4.05	Not started and should be dropped as TS organization is automating all 220 KV S/Ss and this work will be par of that larger work
3	3	To provide DRs and ELs in 220 kV 5/S of PSTCL to comply with IEGC, SGC and 3rd party protection audit by CPRI.	19.41	Not started and should be dropped as TS organization is automating all 220 KV S/Ss and this work will be par of that larger work
4	4	To procure testing equipment to check healthiness of OPGW channels and Ethernet Switch Network in Substation automation.	0.28	Work in progress; work will be completed in 2022-23.
5	5	Tan-Delta Measurement Set (7 No.)	2.51	Work completed
6	9	Insulation Tester for new Substations	1.47	Work completed
7	12	Upgrading of 2 No. 3 Phase Relay testing kits of 400kV protection Hub and SAP Hub	0	Work has been completed
8	13	Loader cum Crane for Amritsar Circle	0.56	Work completed
9	14	Mobile oil filtration sets under P&M Circle (4 No., 6KL/H)	1.11	Work completed
10	15	Construction of Security Huts at 220/132kV Sub stations	3.09	Not approved by BOD's of PSTCL. So work will not be done.
11	16	Re-fixing of UC Fencing at top toe wall to safeguard yard area from fire.	8.07	Not approved by BOD's of PSTCL. So work will not be done.
12	17	Providing Plinths for 2 sets (20 No.) of ERS-Towers at 400kV S/S Rajpura, Nakodar and 220kV Muktsar		Work completed and capitalised
13	20	Providing AC and Furniture at Kangra Rest House	0.17	Work Completed
Worl	s approved by BOD	outside 2nd MYT		
1		To provide dry air generators for P&M and Grid Construction organisation	0.45	Work in progress; work will be completed in 2022-23.



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-	No. so per	Particulars	Heliver's Address	Sample of Steph	Freque Start Code	Action	5004	-	Total Good of Proper		APRI ANI	and .	6.	atalianian .	- ng 1001 -			NOCS-11			mmg 202		CAPE	2 maring 302	134	Ce	pitalization	during 2003	34	- c	APEX custo			Capitalite	Min Aring	2024-21	c	APEX days				allian sharing	
1			N COWE			100		See Commer Feetbal (Se Set			EAPER 1	Total	MI I	THE STATE		1	CAPER	-		Captarte	allen Total		•	APER Total		i i	Capitalica	gion Total	===		CAPEX	feetad	- 63	Cep	phatestee Te	•		CAPEX	Testas		Capit	Atplication To	
+	.201									Works	80	60	-		SC TH	-		oc fe	-	T	ecc	-	orte D	e ec	Total	Work	EC	ec	Total	Worts	EC I	oc ,	-	North I	EC   EC	Total	Works	EC E	C Tetal	-		ex.	
Wo	ns of tal Co	unpoi Paris d (From FY 2017-18 to FY	2015-209 E		27/11/2000	2025-24	David and an information to suffice of 11 VV landon	479	10.3	14.00	1.70	6.H	ин о	BO 0.00	0,00 0.0	0 0,00	0.90	134 75	14 0		0	0	16 2	7 0.72	21.42	e1,13	5.84	1,31	4.00		0		0	0	0 0	D	٠.				1.		-
	120	220 kV 5/2m Sheeper (Focal Point) (US tops 88 kV pid with 220 kV side GHS and 80 kV side Commissional)			Januaria	2057	Start of week got delayed due to chilling of 11 bV fuedom and delayedement of all buildings under that by PSPC. The sits was deemed by PSPC. In Means, 2021 and was handed over to the contractor for association of week. Now work of control report and years in a progress.	-	1000																																		
1	181	ULO of leak-clea of 220 kV Stillin Jameshow - 220 kV Stillin Dhanded Kelson 1 Stee at 220 3V Stillin Sheeper (Focal Projekt Anaendroom 25 2018-19)			1,3621	25.34	Price his operand on Entirel 10.07 2022, Week adistressed to be done		1,64	0,67	016	0.19	0.83	0.00	200 20	0 035	014	0.00			0		uso é:		1,12	218		13	3.01	•	0	•		•						·	°		
+	123	220 NV S/Seducitoda (US) Iron 68 NV		Tuniti MYA. 22086 kw Tif	1709/2020	23-24	Work under progress, likely to be completed by \$1.6.25	27,84	23.78	"	0.10	8.27	2.0 0	an e an	5.00 61	0 10.00	1.50	16.	so 0	9.00	6.00	0	13 03	NS 0.212	6.307	16.4	2915	0.002	22.267	0	•	•	0	•						1			
+	134	220 IV STSt. Manes - 220 IV STSt. Durbles CC Line			2,3601	08-23	MOW have. Work in progress	16.00	21.00	450	100	0.07	em 0	80 0.00	0.00 0	0 1476	2,60	1.91 14				•	27 0	67 0.30	175	18.03		256	200	0	•	•	•	•			•	0		•	0		
	128	430 SV Siftin Duraha (Neve at Village Oten mose)	•	Sull's MVA, MINTERNA SITE	05-11-2000	3025-24	The lead was allocated by PSEC and handed over to PSTO, during 19/2019. The uses was arranged on Ten- leack in 19/20. Work to be considered by 60/20. The work involved major page (Illing which get during disk)	37.36 hony	36.62	21 60	177	0.45	26.94 . 0	60 0:00	0.00 0	95.00	125	0.00 17	285 0		0	•	15 2	25 28	17.45	51.93	8.3656	1.00	61.6756		•		•	5		•	•	•	0 0	+	•		0
	130	(8 400 kV Baye 60 220 kV Baye at 400 kV 545a	0	(i) 4 Hos. I (i) 0 Hos.	86-11-3039		work involved region earth filling which get delityed due to making between.  Work under progresse, Mody in the completed by \$0.05.20		22.97	900	6.00	0.00	0.00	00 0.00	000 0	D 11.00	1,85	E# 13	0	0	0		33 L	ES 044	13.00	10	11	0.4	19.9		0	0		12	18 54	14.28	+.	•	0	+.	•	-	_
		County								200	0.00				100 A	0.00	9.00	0.00 &	00 0				6				0					0	0						0 0	٠.			_
1	132		LEC of 220 KV Sehara- sehmentel (SFC) line at 45 XV Dhenames	1			Scape resistant on brails of resistant of motorplan et 220 intramerosation force from 400 kV Characters and Amendments (No. 1921-12 deser 27,97.7) research and notified by 600,000 whose works to be taken up offer clearance of 900 flacs. Donder work splicits.	***	-		0.2770				000		0.46	0.30 2		0.46	0.3	276	836 O.	30 624	236	1405	130	0.34	236	0										1.			_
			220 NV DIC line on DIC towers (1.857 km) line length (with Charanter- Sahasanal conductor of Moose, D.5 ref and Disposal Hathers combustor of MTLS of Moose and conductors		422	324		1016		0.00	6.00	0.00	0.00	ao   500	0.00	100	-													89													
			of HTLS of Misses implications of the County		42	324		13,973		8100	0.00	8.50	200 0	(40 0.00	0.00 0	5.00	130	Q75 E		•	۰	0	1,06	28 0.75	7,06	10.06	249	1.5	14.01	•	•	•		•		0	В	0	0	0	,	,	
			of HTLS of Moone against only Registernest of entaling conductor of Kohen with LLC point section with HTLS conductor of Moon equivalent (0.567 km)		425	124		0.200		0.00	600	0.00	0.00	000 000	0.90 0	0,00	0.00	5.00 0	100 0	0	0		1290 6	.07 0.04	0.400	0.299	0.07	2 DA	0.400	•	0	0	•		8 0	•		0	0 0	•	0	0	-
		1	220 av DC See on Mall det bowers (enly alleging for changing moter of U.S. of CD: 9877 Achan See (E.3 of) at Generages, a leging towers (E.22 for agreed) the length (Abou 0.5 of) const)		439	324		2.837		900	0.00	0.00	0.00	1.00 0.00	830 6	00 00	5.00	6.60 6	100 6	0	٠	•	211 0	62 6.31	294	211	0.80	0.31	294	0	•	•	0	•		0	,	•			•		
	130		220 NV DIC See on DIC towers (21.857 km appears) five length 450 m appears) five length 450 m are ACSS Zubes (see all the length of 25 m appears (25 m appears and 25 m appears		94-3022	35-3724		28-00		0.00	6.00	6.00	600	100 10	0 000 0	1200	280	1.80			•	•		1.30		210	5.16	700	29.41		٠	•	•	•	•		0		6 0	6			
	134 (a)		(J.C of 1 closels of 220 ki Jameston (SGA40) Gangared fore et 220 kV logs af 400 kV Chanaran Sprear, LE, O longth Simo St, 4 auf 1, DIC on DIC		64-36-22			10.384		900	0.00				0 030 0		1.13		199	0	9			0.85 G.54 875 G.16	1966	1,46	1.85	0.46	10.37	0	0				0 0	0		•					_
10	136		220 kV Rays (2 Hos. III Ocraho, 2Hos. at Ashara including double time evaluated of 220 kV and 2 so. ICT large at Chanana		2008/807	May 24					-		77						2																								_



1				1		1000						_	-	Spil	Ov	er Wo	orks	List							Dayler of the		S- S- STV			7000	782e			Clean				ppe	
Sr No	Order	Pattoriers	Homer's Addition	Scape of Work	Project Sta	Actual Anticipated Year of comparison	Remarks	cap approved for 2nd Octobal Purities (in Or)	Total Cost of Project	CA	CAPER Total		Capitali	A April 1860 Total	21-22		ring 2023-23 X Feter	C		during 2023-23 atlan Tyles		CAPEX BATTE			Capitalization	e during 2020 Kathon Total	34	.890	CAPEX Ter	***	Cas	telkuller der	g 2094-25 Total		APEX during		Cap	dutestion o	during artism T
T			3.			T				Merts	EC 10	C Total	Werks	EC   EC	Total W	ww. 65	ec 1	Cotal Woo	- EC	CC Teta	Work		DC Yotal	Works	ec	KOC T	Total	Werte	6C   6C	Total	Works	EC   60	C Tetal	Worts	EC EX	C fetal	Werts	ec	юс
,	=	UAD of 220 kV Srifts Manay - Senture (SC) of 400 kV Srifts Fatous (220 kV bass).	40 lans (separate ) Union 40 lans (separate ) Union 40 lans (separate ) 40 lans (separate ) 50 lans (separ	•	09-2019	50.6.29	All towers arested. Week delayed five to ROW leaves. You to be conspiciled by 30.6.23.	29.4	27.86	9.00	220 13	12.64	400	0.00 0.00	0.00 2	25 0.54	0.30	312 0	•		0.75	0.18	12 1.06	20.26	120	2.41	3.00	0	0 0		0		•	0	0   0	+	•	•	٠.
*	72 178	1. Amy Elementh unity of last last 2. Estimator in Substitute behildings, Provision for AC etc. 2. Provision for Reseates Compensation 4. Addition of Impulsations strengtuning respected on account of RE generation		a	202-21	2023-24	Work of installation of maximum of 400 NV Sub-Station Charles and Makesbor station of a July Aug 2020. Work is Mady to be comprised in April 23.	11.64	59.2301	L13	014 01	1,40	3.50	1.20 0.60	5.00 1	100 E40	612	157 6.8	0.92	0.00 2.30	•	0		1	16	0.12	197	•	9 0		•	•	•	•	• •		9	•	0
•	n	235 W Stille Feelber (SIC from 88 405)	220 kV SYSte Facilità (LAC from SE AV)	•	2023-ju	3025-26	PSPCA, devended again this not-station in TPC receiving scale on 1867 22 but the dark base has not been featured. Noticity for micrograms again 220 by stational receiving scale station has been proposed as deposit work of subverge, it band in our feedbased by PSPC, was in Adaptive and experience of communities good-distinct of Androda and the engagement of communities good-distinct of Androda and	25.39	17,8	0.00	0.00	0 600	2.00	0.00	0.00 0.	.00 0,00	0.00	0.80 0				49 (	29 7.14	3	63	0.00	239	3	675 62	186		615 6.0		12	1.8 0.4	4 1439	20	+	0.0
200	•		400 NV SPSn Makabar - 220 NV SPSn Pasika 220 NV SC See	o.	2021-34 -	1	be endowed	1 1	20	0.00	100 80	0 000	0.00	200 0.00	0.00	00 000	6.00	1.80 0	0		6.25	1.49 0	D 847	9	۰	•	•	426	1.49 6.53	LET	0	0 0	0	6.5	1.00 0.00	A 87	14.5	40 :	279
17	,		220 by Bays	•	2023-24	202425		146	538	0.00	100 0.0	0 0.00	6.00	0.00	9.00 1/	40 0.15	0.04	.78 0	•	0 0	2	83 0	OR 1.50	0	0		•	2	0.3 006	29		875 62	365	•		•	D	•	٠
- 14		Tentr (4) I Over Wheeler approved by the Stewa	h N 2013 salana ha	rest seri Approval				200,00	221.30	34.13	30 13	1.00	1.00	138 EE	5.80 90	A1 16.92	7.91 11	454 28	1,40	0.90 5.14	H.M	17.17	110.30	221.63	42.56	14.57	200.71	13.25	2.54 1.21	17,00	18.00	2.70 6.71	21.42	1935	229 141	12.95	жл	7.47	3,50
**		132 BV Paddid - Kalkaper 2 (C. han Avendrant no. 16 / 2018-19)	20 Km		31/10/2019	33034	When have been deleyed due to court case A legal aginion is being sought for further course of action as. Price hid has already loser operand	11.76	13.03	-204	100 400	0.04	680	0.00 0.00	0,00 A.S	00 1.20	675 6	166 5	12	0.75 6.80		182	2 11.12	•	1.82	13	11,12		•		0	0 0	0	•	0 0			0	0
**	d			2 no 132 kV the bays of each end)	(pres Apr 20	Dec 23	Work in progress to be consisted by 12/23.	1,89	1	0.00	0.00	600	6.00	0.00 0.00	5.00 G 6	00 0.60	0.00 0	00 s			0	0.255 (5)	86 1000	,,	0.256	0.000	2.023	0							• •		0		0
21	+	32 kV (Mises 132 kV Seit SC Sea	31 Kma		Q1 -2021	06-2023	ROM source	1216	1216	216 4	N RE	100	6.00	200 0.00	200 5.2	D 1.25	0.76	25 0		0 0	346	0.800 6	N2 4832	11.17	273	1,84	15.54								0 0	-		•	0
•	- 12	22 NV 575 Beez (pend)	BUT DO HAVA ZOOM SQ NY Audio 135		2025-34	3025-28	Project cost is more than 10 or but feet in to be given from it cost by Rindha Devers Corn Boss as such TECE guidelines par par TeM Pully 7016 and with PERIDC confidence. In 2 crists of 511.2016 (powerse-4) and MECP CO butter no. 12 crists of 511.2016 (powerse-4) and MECP CO butter no.		121.376	6.00	00 0.00	0.00	0.00	han 0.00	1.00 0.0	00 0.00	8.00 Q	00 0			10.2	1.53 0.4	08 12136	10,2	150	348	12130	21 2	k.15 0.84	24.99	21	215 GM	34.00	128	1.82 0.54	15.292	12.8	1.82 Q.	1507
	1		del Silv des bars				TX desir do 11 201 Specimen A) and MCP GO begin no. 122 Serie do 11 201 Specimen A) and MCP GO begin no. 122 Serie do 11 201 Specimen A) are not applicable.																																
			Bri 12kV fine bays Existing 3 soci addisonal S																		٠	•		٥	3	•	•	•	0 0	0	0	0 0	0	•	0 0		•	•	0
	2	SOLV SES system at But and will be broaded.	ULO of Butes - BDMB Johnston et POCE Johnston 2 SVm 0, 65g* and makesyung LLO of POCE, Johnston Butes at Bosn 22 SVm 0,45g*							0.00	ao   0 se	0.00	0.90	100 600	100 10	00 6.00	\$60 D	50 b	0	0 0	121	156 0	15 56		0		•	32.75 4	LDN 1.31	36.97	0	0 0	0	19.85	286 679	ns ns	623	1 1	2.60
		Systemby 132 Vs State Sina to Yangus Chilume dissertitates to Chalgesta No LLO of Chilume distant of State and			-					0.00 0	90 0.00	6.00	0.00	0.00 6.00	1.06 6.0	00 600	250 6					0 1		0	0	0	0	•		0		• •	0	•	• •		•	0	9

Dr Ma, an pa CIP Great	Patholune	Retourn Adminis	Souge of mark	Free No.	Name of	Party Control of the	1 4	Type	mar from	los ele	1000000	Family	apili	Over	Wor	ks Li	st	setten during S				96 (	1000						-					-	A	ppe
					197		1			-	•		Salar You		EXPERT.			retter during 3 phastaglian You			during Stiffs Se	N.	Capitalia	enin darug 10 Introduc Tata	BH	1250	GAPES for		Gay	restration du	mg 3054-26	67	APEX daring		Cap	-
En		DISDV break							Make		-	WORL 1		-		No.	Weres	E   60	Total W		-	7anu   Wa	~   *	T 600	Yell	SELECTION I	ec   100		Works	EC 6	n Total	Works	CAPEX TO	Total	Works	Captuda
	He Ch	2rt 32rt towers de conflored & July Towers to be employ	Mary 1						100		- "		* 100	•		84 6.66	1		•	• •	1.	•	+	•	٠	•			0		9 0	0	0 0		1.	•
-		Commission of 1336V Yare town distinct Chalgards T of as LE-O 15Km 0,2 Ser		4			e a se per	P	0.00		50 8.00	e 800 00																								
		of to LEO 15Km 0.2 Ser							"				0 000 0	80 6.00	800 60	0.00			0	0		0 1	•		0	•	0 0	•	•	0 0	+.	1.	0 0	0		•
		133NV OC Bass - Bhalpaths Line 30 Kmg 9.2 Sq*		-					0.00	2.60 0.0	M 0.00	400 00	0.00 0	0 0.00	000	0 800																				
																"		$ \cdot $					1.	0	٠	•		•	۰		1.	0	0 0	•	1	•
,	CINGW			21-32	25-24	Wide water progress. SCS handing Under Prover Spat Development Faul (PGDF) is the 33.05 Cr, and base PSTCL, where IS OC - PL 23.05 or - No. 33.15 Cc a PSTCL, where.	37.05	30	438	1.04 0.6	4 5.90	0.00 0.00	0.00 6.0	0 25.00	125 179	35.00			0 12	١,			10.29		57.76											
					ľ	PRICE street (DPR cost + Rs Mt 19 Ce)																			37,74	•			۰			•	0 0	0	0 0	
	220 kV (President Kallen - 2		20160 MVA, 22006 MV TIP all were focusion to be added from complete serviCT buys	2022-25	Meet 24 T	This sub-station eaters industrial load and this week re matigie streetower due to which work get dislayed	20 SJ	20.2	0.00	60 011	0.16	8.00 0.00	260 20	10.00	50 0.40	11.50	12.36 22	2 667	15.15 10	1.5	84 1	9 1000	1.50	540	11.90						ļ.					
																																			Ί.	1
			formationned of 20100 NVATIF by eventing specially double has be	2022-25	Month 24		0.8	,	0.00	0.00 0.00	9.80	0.00 0.00	0.00 0.00	100 6	15 0.04	1.19	1 61	5 0.94	1 00	015	0.04 1.		815	0.04	1.59	0 0			0	0 0				0		
2			december # 10	02-3030																П				-					1							
			deconnating 60 sV indictor for of handerkains 1 theories duties 2				u	2	0.40	0.12 0.06	0.86	2.00	8.00 500	280 Q	0.29	386	B2 Q33	037 2	2	03	508 23	1 140	0.57	017	428	B 0	0		•	0 0		0 0	++	•	0	+
-	Total (B)	-	5.2				64.07	201.77	E.BS	1,66 1,10											1						-								1	
Spill co	ner of New Works planned for the 3 400 aV Sin Rope New Grid Ja Sie Prinness of GGSSTP)	nd Control Parted Issai Fr 302		00 00 2021 I	2023-24 We				0.00	100 0.00	9,76	2.00 0.00	0.00 0.00	49.14 10.	6,83	66.M 26	110 3,04	1,40 25	75 61,48	71.46	5.04 77.5	M 34.54	16.26	10,12 1	16.90 6	0.76 0.04	2.15	63,96	21,00 3	15 0.84	24.90	32.46 4.8	7 1.30	38.82 70	11.74	1
1	Princes of GGSSTP)		Establishment of 430 kV G station stong with nation, control soon along, Gostoy structure, control provision dis		Com	ink promised on humber beas in 1925. Scheduled registrion by 93°23. Work is Blody to be completed in 53°24	22		500	2.80 0.80	0.00	5.00	6.00 0.00	0.00 0.0	0.00	0.00	es .			10	٠.		0	6	•		•	•	0		•		+.+	-		0
-			DAY SA will 2000 FA, 400/220 by ICTs				w.s	32	0.00	0.00	900	100 0.00																1					П			
												0.00	100 200	0,00	0.00	6.00	0		30	45	12 367	20	45	1.2	M.7	0 0		0		1		0 0	•	•	• •	,
+		40	DAV Berys = 4 Mas				17.56	15	800 S	00 0.00	200 (	20 0.20	100 0.00	20 00 3.00	0.95	AM C		<u>.</u>		125 1	35 max															
																						2	,	0.4 2	13.4		0	. ,	X.00 5.2	5 1.70	41,89		0	0 0	0 0	0
		220	NV beys - 10 Nus.				71.56	13.2	0.00 Q.I	20 2.00	0.000 6	m 0.00 0	00 0.00	100 640	812	3.57 b		8 0	١,	1.05 &	20 631		1.9	1344 10	234 0				14 02	0.056			Ш			
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	18				_											_								1												

Me.	Srite, as p CP Order	Pathwiers	Heterra Adelson	Scope of Work	Project Start Date	Actual						-		-7-	Spi	I Ov	er W	orks	List					-		_	-									11	7	Арр
					0	Actual Amicipates Year of completion			Approved A 2nd Cover Period (a Cr)	Total Co.	4	APEX during	2021-22	Capitali	retire during 2	021-23	CAPEX &	ring 2022-23	Cape	talization duri	- NAM 20	CAV	EX during 200	23-36	I I	fellette set			CAPEX Output	_	_			-2007/14-1	-			PF
1		-		-					Cil			CAPEX To	rial	Cap	editurbos Tot	-	CAPS	X Yessi	-	Capitally stice	Total		CAPEX Total			2				8705.0	Cay	pitalization du	haring 2034-25	1	CAPEX OUT	ing 2025-26	6	2 pilatium
-											Works	ec	ICC Total	Werke	EC 100	Tatal Wo	rie EC	EDC   Tot	Worte	e le	C   Total	Warte   1				Capitalization 1	-		CAPEXT	Plat		Capitalizatio	on Tetal	+	CAPEX	Tutter	+	Capita
1	250		P	of 400 to Rope with mixing 200 to ten of	-			· ·	CIS .		0.00	0.00	100 100	900	6.00 5.00	0.00 2.3	20 0.35	0.00 27						Tetal	West la	ec ec	Total	Works	ec 10	C Total	Works	EG /	DC You	H Worke	ec	EC Total	Works	=
1				Commediting of 220 hr of 400 for Repair with senting 200 for less of GGSTP Apper with 4 M Twin measure cities (App. Laught 1 hing)	=												"   ""	0.00 27		0 1	1	430 6	85 217	5.12	4.0	C20 020	7,854	0						-	1.1			0
1	_	1		1									1							1									1 1									1
l	15		LEO of own cit of 400 Leofene PGCE,— Kode of proposed 400 kV op Roper, LEO League vi line (appose). I Value Conductor (Decodule)		01.04 2022	31.03.3034			30.04	-	0.00	6.00 a	00 100	5.00	0.00 0.00	900 54		0.61 7.01									1											
l		5	fire (approx.) Yipis Conductor (Discussion)	•					1													18.2 3.8	2.43	22.915	21.5	805 3.24	30.46	1.				0		-	0		0	
L	,	Y										1									- 1								-									
		9-16-20-1	U.C.O of See on of 4001 Lordens PQCE - Robbs of proposed 400 pt Roper, LEO Lough = 1 See (approx.), Triple Commission (Seemable)		PR 04.2025	\$1 03.3025			27 ME	-	8.00	0.00 0.0	90 8.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	-						- 1			1.1	1	P								1
	- }		Dre (ppprox.), Tipin Combucto (Sussable)		1 1					1								-	1	٠.	1.	5.00 1.	0.75	6,50	•			15.04	167 226	20.02	20.00	462 30	D1 27.00		0 0		1.	
									1 1	10								1			11		1					1 1								1	1 1	
		400 av (Samuras) plants addition 400 av but separal	the CLO of land one of 400 a	ACC MV beps = 2 Hos	2023-24	2023-34			1.00	7.5	654 G	154 9.0	2 870	6.00 g	100 0.00	0.00 0.00	6.00	0.00 0.00	054	014 0.00					. 1			1 1						1 1			1 1	
			De See at Changes. Does Money, LLO ten		00-25	Dec 24 Took	tring work under process.		237		0.00 0.	00	0 0.00	600 6	000 0.00	0.00 0.00		0.00 0.00	0	0 0	4.0	7.5 1.13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.37		25 23	6.925	10	0 0	0		0 0	0	1.	0 0	-	-	0
			Store (suppose.)						1 1						11								-	237	1.7	81 0	139			•				0	0 0	0		0
			1000000000		2025-24	202425			1.50	7.5	9.00 81	00 0.00	0.00	9.00 G	00 a 00 c	000 000	0.00	0.00				15 920	0.00											11	-			1
	j					1				- 1												15   225	0.00	1.785	0 0		0	1.5	225 0.00	1 785	2	0.45 612	2 157	10	0 0			
	2(4)	H TY Brage		And Talloo May A, 2007 32 NV Auto Tiff.	87-3022	2023-24 Scope 26 08 2	Amend the Amendment of the control o	No. 09'25-22 dated	12497	$\rightarrow$	500 0.0	0 000	000	5m   0				ion 0.34																				
	-									- 1				-	"		0.03	101 0.34	244	0.01	050	10 15	0,4	11.0	10 1.5	0.0	11,5	0	0 0	0		0 8		-				
	14 2	DAY C. I. Road Ladients Play Co for Laddines area Sections SAGE	2	220 kV SA C T Roof Ludding Page Crit Con a	Under Shady Un	when Sheety Uniter a	thely due to complication o	of NOW, Roads in James	-	31.54	9.00 6.00																											
			-	222 IV Sk G T Road Ludding Plan Gd Get at the provides of entiting 68 IV Sk G.T Road Letters or Sk Luddings area) with 24 State A 22000 kV IC	200	Great to	they doe to complication in by using modern technical arrays. Once the make is to ched through publics show	gy like reperputer/mail: referred, PSERC will be g the course of most MYT.		31.54	8.00 6.00	0.00	0.00	0.00 0.0	0 0.00 D	20 0.00	000 0	00 000	0	0 0	0	0 0	0	0	0 0												A F	1
																																٠١.			0	•		
	5		U.D. of 220 to Latinus - Carragon (EC) from both dis. of 220 by G.T. Speed Lathiums U.O. Laught + 7916 (speed, corolaction size 0.6of (2000 lines)	•					12.61		0.00 0.00	0.00	9.00												1					- 1	1							
	1		NY G.T. Road Landinasa U.S.O Longth - 790M (sepan), constants			- 1						1000	100	0.00 0.00	0.00 0.0	0.00	0.00 0,1	0.00	0		0 0	2 0.03	0.004	0.238 0	1.2 800	0.000	E.294											
			(DICC Bres)											1		-																2000			,			
	•		•	220 kV bays + 4 Nos.				-	12.26	10.56	000 000	800	0.00	0.00 9.00							s.l.								1.1									
	1					1					2750 1159	1	"		0.00 5.0	0.00	800 0.0	0.00		10	•		0	0 0	0 0		0	9 8	0	0					11			
								1												11	- 1	11					- 1			- 1			11.52.0		11			
•			•	80 kV buys = 4 Hos				ŀ		1.56	9.00 0.00	0.00	500	2.00 0.00	6.00 0.00	1	800 00							1														1
																	000 00	0.00		1.	0 6	•	•			0		0 0			0 0	,			1.	-		L
	720	ue								- 1	1					4 1	1			11									11								.   .	
	916 R81	V Gatheperk Sh. Pleas Cad a ser by over of minting 220 KV chindpath (), behaling SAS by cr. Pleasenestical Watershall		20 kV Six Cottody at Seed with 2x100 area, 12000 kV 10	2024-25 202	5-26 Punhas	of land from POEC is prov		150 3	1.54 0	0.50	000	6.00 6	000 000	0.00 0.00	1.00	880 816	1											11			11	. 1		11			1
	-									-							1				9 10	1.5	9.	19 8	12	0.12	9.62	10 24	284	19.04	. 0.6	0 250	439	1) 1.80	6 852	15.47	21 485	-
,	_		10.41										İ				- 1																			70020	100	1
	1		ULD of 220 kV Gaboningson - Securi Poliness of 220 kV Gaboningson ( LEC) insight mps. 5 FM (GC on GC) with Q days' conductor		1200 12	024		0.	18	0	00 6.00	0.00	em o	00 0.00	0.00 0.00	0.00	0.00	800																				
	3		ome (CC = CC)															-		1		0.25	015		0	0	0	1 0.25	0.15	14	2 95	03	28	0 0			0 0	0
1			consocits.	- 1	1			1				1 1		1 1	1	( I		1	1	1 1			1		3 3	- 1	- 1	- 1	1 1		1	1 1		1			~	1 2

Sr Ha. se CIP Ore	a per Per	risoure	Notice A	Allena .	Scope of Work	Project Start	Actual	- Lan	1 60	Vester de-		marine Miles	1 1.	S	oill O	ver W	orks	List		turne ND II	_	CAPEZ during								т			-						
CP On		opethe la		10 17 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Project Start Date	Actual Anticipated Year of completion		garante Australia (Australia (Aus	Your David	Day to the second	APEX Total		Capitalitata	Tetu		Maring 2003-21		Capitally at	100 (100 (100 (100 (100 (100 (100 (100	-	CAPEX TO		-	Capitalia	dering 2023-34 dan Talai	-		Sering 2024-2 PEX Total	В	Capatal	estion duri	ng 20094-25 Total		CAPEX TO		Ca	Captation of	e Total
29	1		CR O of 200 Gathinogram	DIEW GGSSTP - A. H. 220 EV I provid, U.L.O Gospat, D. Gusf COC on DC.	•	1 2021	1.2034		EIR		0.00 6	0 600 0 4.00	Tatal 18	SI 0.50	OC   Yetut	6.00 6.00		Total Wort	· E	3 6	Weste	8C 8	15 1,4	, man	6C	ex:	Total Wes	6C 625	600 Q15	Total	3	8C 8X	S Total	electe 0	6c 00	Total	Warten 0	8C 6	•
			G-bindgen longs 1 to conductor																																				
В					ZZD kV bays v 4 Ms.	3024-25	205.26		3.05	2.64	9.00	0 526	0.00 0	00 0,00	60 6.00	0.30 0.00	6.00	6.00	٥	0 0	•	•		•	0	•	0 6	0	•	٠	٠		•	0	0 0	•	•	•	
н					Strings + 8 Pa	2014-25	2025-26		2.69	234	0.00 0.0	0 6.00	200 0	30 0.30 (	00 0.00	200 200	0.00	0.00	•	0 0		0 (		0	•		0 0		•	0	0	0 0	•	•	•	•			
33	230 provi Haw Area	kV Hammagind June ; mines of 98 kV Sh wayning/hadmad SAS miness No. 1 7727-22	de in the for RS Sat.	ř	2x100 larvi, 220'00 kV Tif inchesing 4 No. 220 kV Tif inchesing 5 Tif begs and 5 Bus coupler hay sed associated 60 kV beyon inchesing SAS.	2022-25	2004-25	Scope revised on hadin of request from PSPS3, and Amendment No. 1970-27 deated 24 08 27 transact and restrict by ECO: Right to use not finalized.	56.000		0.00 0.0	0 0.00	6.00 Q	95 0,60 0	SO 0.50	5.00 8.75	430	18 1	0.75	0.7 5.96	135	2025 91	16,96	10	13	0.4	1.0 15.1	5 2.025	0.54	15.065	17 2	25 4.00	20.23	•	•			•	
2			ULO of 235 Waddagen Veget-Liftic proposed DC proposed	the tree of Care of Care of DAY 27s 200C.		1303	4 2034	19	2714		3.00 0,3	5.00	0.00 81	200 6	00 400	1,00 0.25	030	.55 0	۰	•	,	0.25 0.5	1,55	6	0	•	0 47	0.17	Q1	0.47	27 0	47 9.7	407	0		•	0	0 6	
21			10g6 40.5			4.3023		Work and shaded does to man confinedity of spaces at 220 CO Globalogie.	1.13		0.00 400	0.00	9.00 0.0	0 (0.00 6	0.00	500 600			*		1.600	000 0.6	3598	•	•	•	0 1.67	4 0.55	62	2.304	158 1	20 0.60	111	•	0 0	0	•	• •	
29	- Committee	med dierodolfone d elpenen et 2291 32 kr	S. S. provide		for sugmentation and stilling of 220 kV is well as 132 kV/streeterman, as per the ordings requirements, as questioned production of 5 C. a per year d. a. 3 transferment per year) has been reads.	31-32	3+25	West in progress.	37.53		1.0	8.04	10.57 2.4	1.00 &	1054	5.00 1.50	440 1	190 10	13	44 11,9	"	1.5 0.4		1500	1.50	5.40	\$3. 10	13	0.4	11.9	10	3 44	""	0	• •	•			
*		- 220 SY Ginepum inch S 1 cc.	day 549 0		Index storby	2025-24		Proposed of up-problem has been received from CIDContail and CIPPAM PSPCI, to de dups 220 kV 51% Streets to the lettled entenant of ever connections of Congressive stars and add. Bit XV Street, Corpus, Under size do to complication of 100M. Rooks to being started by selling modern technique than recogniture statistics toward. Once the mode to finding 1705 CV will be proposable from public design for course of seat SPT.	,	2	0.00 8.00	0,00	200 00		0 0 30 1	200 200	5.00	80 6	•	0 0	42	600 600	129	63	0.00 6	006 63	56 1	٠		0	0 0		3	۰	0 0	6	•	•	ŀ
я	Mar.	220 KV Juda Hariba	Phil		Alg of 88 bV Jocke Healther to 220 VV with Installation of 121 100 MVA, 220MB NV IVE producing 2 Mon. Sine hays, 1 Mo. TSF hay and 1 is 84C begin	Kak	2025-28	Earlier Pub project view under shally with seprency CSP of 23.20 enems by their earlier has been fell shall all 23.20 enems by their earlier has been fell shall all Americans No. 11021-32 dated 56.07.21 issueed and outflied by SOO. Right to see and livelined.	19 805	*	2.00 2.00	6.00	2,06 2,0	0.00 0	0 000 0	100 0.00	5.00 5	0	0	0	ti.	14 0.4	1436	12	13 8	148 14	24 7	1.05	4.28	135	7 14	8 0.38	4 50	1	69 634	7.14	•	13	T
22	220 k	NV Gestaapur Inchréin 1 de	SAS of ULO of one of contract of the ULO of one of the ULO of one of the ULO	00 of 220 sV 0		12-3020	05-3024	Gold work was to be taken in travel only after the completion of the Alana ACM's along, no clost work has stated at site.	441	1,37	10 00	256	477 00	0.00 0	0 0.30 4	180 6.12	0.75 1.	57 6	•	• •	**	012 075	1,57	1.8	1.07 2	28 7	B 6		+	0	0 0		3	0	0 0		0	0 0	
53					kilos MYA, 220196 NY IIV. Including 2 no. 220 NY	20.0	20334		23.40	26.17	0.00 0.00	0.90	0.00 0.00	2.00 2.0	6 690 7	80 1.85	13 1	, ,	23 0	1.08 2.56	•	24 0,64	19,04	38	385 6	SI SI	н , о	0	0	•			3	0	•	0	•		

CPO	reter Particulars	Network Addition	Scope of Work	Project I Gala	Action Actions Year o	Reserve	GP.	Total Cost	1	UNI MEN	T			Pill (	Over	Wo	rks l													_	-	-	-					Ap	ope
					Year	=	See Corner Period (or Or)	af Project	-	CAPEXI			Capture at	ering 2009-1		CAPEL OF			Cantalysis	rieg (03)-33		CAPEX AN	mg 2023-34		Ceptaba	the dering )	2023-3H	T	CAPEX ON	N34-25		Capitalis	or during 3034	25	CAPE	during 2025-1	-	Captus	office di
				_	1		+	-	-	ec	IOC TO	rai Ne	- 1 60 1	roc I ten	Waste 1	# T	OC   ten				-	CAPEX			Сара	infertion Tel			CAPE	Total	+	Captail	anthen Total	+	Ġ	APPEX Total	$\rightarrow$	Co	apitale ve
M	Replacement of entering condu- 220 av Gottingun. 400-V R. (DC) with HR.S of materia capacity.	Redsed	C. S. Provision in & Ru Cr. per year	40 4 3022	3.2004	Work in progress. Wast is PSDF hundred 20.97 cross PSDF hundred. Total project cost is 27.67 Cross 50.6 has been subtraced from total cost.	te 68.17		0.00	0.00	0.06 0:	90 40	0 0.00	8.00 G.00	30.00				ec	EC Total	Works	1-1		-		loc	Total	Works	ec	IDC Te	-	** EC	600	Total 's	Huma EC		Tetas v	merks   EC	
																				1.	,	A75	16 4	2 2	5.76	16	32.7	۰	•	•	1.	1.	•	•	0 0	•	•	0 0	+
H	Addition at all the TE on accom- mating (H-1) complaint systems these gains where only one 18 of (Amount of the Complaint of the Com-		A provision of Rs. 25 Co. for 2009-21, Rs. 25 Co. 2021-22 & Rs. 20 Co., Po.	04-3020	3004-25	Processed ander process	PO.90		0.64	030 0	a 05 1.8	1,25	629	16 230	35.80	107 1	11 20.75													1				-					
			A provision of Re. 25 Co., 3001-25 R 20 Co., 1		1															30.04	21.5	165	1.03	es 25	1835	1.02	10345	20.5	1075 0	182 243	N 20.5	3,075	0.62 24	4.365	0 0	•	•		+
77	133 kV works (Mangau		Replacement of 1v125 MVA, 13271 by web 16 MVA, 132711 by 107		3025-24		2.74	246	0.00 0	1,00 4	00 0.00	0.00	8.00 8	un eun	6.00	100 0.0	20 6.00		0 0		204	0.300 0.0										П							1
							1													1			MIN 242	204	0.304	Quesa	2.42%	0	•			1.	•		•		• (	, ,	t
•	132 str Newwoodship	•	Add. 1/20 MVA, 152911 THE	NY 2025-24	3025-24		3.60	331	0.00 0	(M) (A)	0.00	8.60	200 E	0.00	0.00	30 0.00	0 0.00		0 0		27	0.405 0	104 3.212	17	9400					1	1						1		
		2.0	7.			5																		1"	0.405	å108	3,213		0 0				3 0	1.			. 0	1.	
	Augmention of 132 kV GGSSTP Aurori 6 KM G 2kg) and 132 kV GGSSTP - Roper (18 76 KM) G 3a	Registement of existing conductor of line with settette I/TLS conductor (in same brown) having reportly of at least ECOA.		9= 3023	00-3825	All this is PSOF handed work, propert yet senditioned on 20 2 22. Here transferg is under process. Like length is the leadmand of 8 lest, PSOF Sending in 11. 32 crows. DOI cost is 18.80 crows.	, 18.8	-	8,00 0.0	00 00	0 0,00	0.00	500 50	0.00	8.00 S	20 200	0.00		0 0		4.76	1885 14	B 8475	1.	Ц													$\parallel$	
	- 1	BODA,																								##	•	CM I	1.80 1.0	0.4	18.62	139	2.04	1.	1.		•	0	
113	CS/ PSM Agenda No. 149/2017-19 del 20.06.17. Best Practices recommended by Protection Sub- Committee of MRPC in operation & construction of Sub- Stations		Installation of 900 hase. CVTs at values 220 eV Seas for Delence Rates protection	2020-21	302425	Personal promise and the	17,36	-	E10 30	0 4.00	2 0.10	812	E04 E00	0.16	500 0	5 0.20	195		75 02	1.25		0.75 0.2	1.60		475	92	100		175 0.2	586									
											ľ			П												80					1	275	02 186	. 0				1.	
	OPGW Sid Selvens SiGP, RSQ. 220 kV Sens & SiGP, 220 kV Sen Total (C)			202-25	205-26	This work will be executed after execution of \$15 at \$400 by PSPCS.	8.62		100 0.00	1978	0.00		0.00 0.00			- 33	0.00	100		0			0			0		2.00 0	. 04	ļ.,					500 6				
-	Total Spill Over (A-B-C)=0	TT 2000-23 to Postbooding					1104.93	79	1.56 3.01	0.84 6 6.42	22.43 M.09	18.61	2.29 0.60 2.65 1.30	17.89 1	38.92 24.1 78.17 51.6	0 5.68 5 23.12	173.71	79.29 10.	49 276	E3.63	290,50	8.75 17.41	365,76	304.47	61,20	19,18 :	376.86 5	48.30 24.	43 1.00	176,72	191.25	100	31 227.54		-	-	179		
100-21	100 hr 1/5 Rehoder	MAY		2022-29	2023-24 R	erhad stops of wask was approved by PSERC side STO, Pathon No. 17 of 2000, New work is sadar ogness, Wask order stands insceed			00 5.00						1.30 1.34	1 1	100	- 1	1 1		660,10 7	7.37 29.66	962.07	enem.	112.05	4.47	773.46 21	12.30 36.	03 12.34	250.63	230.25	38.96 14.	J87 283.97	102.63	16.33 6.	14 124.20	191,86	5 30,83	10.47
		Cost of discountineous of 1x915 NVA, 400/210 KY KT at 400 KY National			1	ogram, West order describ littled	$\vdash$	8.50 Q	00 0.00	1000		- 1	1.00 0.00			0.57		62 1.3 0.90 0.1				80 0.00		52	1.80	0-	14.26	• •			•	0 0			0 6	+ •	-	1.	
		Construction of 1 to, ET buy and 1 to, 220 by an ell by Nathadar with amortishing link of 220 by						444 01	0.00	0.00	0.00	0.00	100 0.00	600 3	20 640	0.15		0.20 0.0				50 0.13	2.00		2.00	100	0.00		•	0	0	9 0		•	0 0	0	0		
		Replanement of Zaol 315 1490, 400/220 EV ICT wells 2aol 500 1475, 400/220 ICT ICT	*					1872 0.0	20 0.00	800	0.00	8.00	100 100	0.00 6	20 203	0.01	0.34	0.20 0.00	601	0.24	5.30 2	28 SER	18.00	15.20	220 6		16.000				•				, ,		•	۰	0
22	23K 95 Sephanian	Cost of demandraness of 2nd 205 NVA, 000/226 EV ICT or 000 EV habitation 1 No. box consider habitation		2022-25	200425			458 0.0		-	0.00	E00 0	00 600	0.90 B	20 0.05	0.01	034	0.20 0.00	2.01	0.24	170 E	11 6.00	0.65	0.70	Q11 Q	an 4	Les (						L			•		0	•
22		1 Hs. box coapies between 220 box box 1 & bus box 2		200	20425	Wall is progress, will spillower		7.758 0.0	0.00	0.00	0.00	6.00 0	00 0.00	0.00 1	N 0.45	812	150	100	8.12	1.50	5.2 G.	0.204	4100	52	A79 12	S38 6		2.0	0.24	7.54		0.9 0.34	7.54		0 0		•	0	•
	220KV 5/5 Avenir	1 No. Ive coupler halveon 220 hos har-1 & hos-bar-2						0.00	606	5.00	9.00	0.00 5	00 000	0.00 0.0	0 000	930	6.00																						
	220HV SVS Telepard Salso	No but moster but.												300		177					23 40	3 0.006	6.254	63	0.00	on a	34 0		9	•	•	٠.		•	• •				0
1		1 No. best complex butween 230 best bar 4 & best bar 2						9.00	0.00	8.00	0.00	0.00 0.0	0.00	100 0.0	0.00	0.00	400	•	0		2 6.00	0.004	0.236	63 6	105 0.00	× 0.3	34 0	0		0				0	0 0		0		_
1	19.							$\perp$																														1	0
	the said																		-									1				1							

		Material Addition	Scope of Work	Project Ster	Actual	Remarks	CF	Total Cost		NEX ANN	<b>Q 3031-83</b>	Cap	statication du	Wg 3821-22	CA	TEX during 2	3022-73	Capital	priget grup	2023-29	ಿ	APEX during	2023-24	32	Laptacent	n during 2023	.	100	EX during 2	77.	1000			100				tolization de
P Circler	Parlovan			Date	Action Articipation Tour of comparison	0000000	CP approved to 2nd Control Factor (in Cr)	d Project		CAPEL	Total	+	Capitalization	n Total		CAPEKTO	61	Ca	epholication 1	Total		CAPELTO	red	+	Capital	tartion Total		3	CAPEX Tes		-	aplaisation 1	etal		CAPEX TO	otal		Capitalization
				+-					Works	EC	icc 1	was we	100 EC	ECC   Total	Works	EC   60	C Total	Works	E 10	Total	Works	EC K	X Feta	-	BC .	60	Total	Works	ac icc	Total	Merke	EC 800	Total	Works	8C 80	d Total	Works	ec s
	ZODOV SIS Latin Kalen						_		616	0.62	2.00	129 61	0 400	0.00 0.00	0.00	0.00 0.0	0.00	0.19	0.07 0	0.21	9.2	0.01 0.0	0.29	62	0.00	0,000	124	0	0 0	0	•			0	0 0	0	0	•
	ZZOKY SIG Calcun Kalam	1 No. but coupler beliveen 66 by but ber 1 & but ber 2																																		1		
	220KV 9/5 (Demokra)	1 No. has congres believes 80 kV has ber 1 & has be-		-			-	-	0.37	6.04	6.00	D.41 0.0	000	000 000	0.00	0.00 0.0	00 000	0.57	0.04 0	844	63	0.05 0.	004 S.204	0.3	9.00	0.006	634	0	0 0	0	•	0 0	0	0	0 0		0	•
		2.		1											1																							
	2000 SS Hard California G	1 No. but coupler between 86 kV has ben-1 & but-her-		Ŧ				1	0.00	6.00	0.00	0.00 0.0	20 0.00	0.00 0.00	0.00	0.00 0.0	6.00	9			6.3	0.00	0.29	0.2	8.00	0.000	0.24	•			0	0 0	6				0	
		1																											1.				1			1		
	220KV SIS Chapt	1 Min. bios coupler before 65 kV box bar-1 & box ber- 2		1					900	0.00	5.00	0.00	e 9.00	200 100	0.00	0.00 0.0	00 0.00		0 (		6.2	6.03 6	006 0.29	8.2	0.00	8.000	0.34						1					
				i						am	200	3.00			480	000 6	00 0 00				82	0.05 0.	009 6.23	9.2	0.08	0.006	0.34		0 0	0		6 0					-	•
	220KV 5/8 Dww	1 Hg, but couple between 86 kV box box 1 & but box 2							"							32.13																						
	2204'V SIS black of Cultur.	1 He but coupler believes 85 kV has ber 1 & but dar					-	-	0.00	0.00	6.00	6.00 6	00 8.00	E00 000	8.00	200 0	00 0.00				62	0.03 0.	50e 5.29	82	0.60	0.006	524	0	0 0	0	•		•	•	0 0	0		0
		2 November 1 & but don't													П																	1						
	ZXXXV SIS Budshahper	1 No. bus cougher believes 00 kV has bord & bonder		-		*		1	0.01	0.00	0.00	0.02 0	00 0.00	0.00 9.00	0.00	E 00 E	80 0.00	2.01	0.00	D.G2	6.2	0.00 0	BDR 8.29	0.3	549	0.000	634	•				0 0			0 0	0		0
				1																																		0
	1130/V SIS Maga -2 (Challada)	1 Ms. bus coughe believes 16/20 MVA 13/211 KV T-1 8 20 MVA 13/211 KV T-2	×						6.00	0.50	2.00	0.00 0	60 0.00	0 90 0.60	0.04	0.00 Q	DD 0.0N	0.01	0.00 0	00 0.09	6.7	203 0	0.29	43	6.09	9.006	D.3H		1	1			7.					
									0.00	900	5.00	0.00	DD 0.00	am 20	0 0.00	0,00 &	de 000				42	2.03 0	000 0.20	0.2	2.00	0.000	6.34		0 0			0 0	0	-	0 0	0	1.	0
	1 SDKV S/S Surradh Blvd	1 No. has couple below 20 MWA 122/11 NV T-1 & 10/20 MWA 132/11 NV																											1									
	200 kV SVS Kalarovska	1 No has made before		4			-	4	0.00	0.00	0.00	0.00 0	oo 0.00	300 00	0 0.00	0.00 0	100 000		0	0 0	92	303 6	000 1.29	62	0 08	0.000	0.24		0 0	0	0	e a		-	0 0		1	0
		1 No. but coupler believe 20 Nov.A (8811 NVT-2 B 15/12.5 NVA 68/11 NVT-4																		1									1			1						1
	220 kV 5/5 Females	1 No. 11 hV but coupler		$\dashv$			-	+	8.00	0.00	3.00	0.00 0	80 0.00	0.00 0.0	0.00	8.00 0	100 9 00	0	•	0 0	0.2	303 G	00e 0.23	0.2	3.05	0.006	0.24	•			,	• •	1.	•		1	0	•
	220 KY 5/5 Majora	1 No. 11 NV loss complet	-	+				1	340	9.00	0.00	2.00 0	20 0.00	9.00 0.0	0 200	8.00 6	000 000	0.00	200 0	00 0.00	82	000 0	DOS 0.2	6.2	900	0.008	6.34									1.		
						-									0 600		100 0.00				1	104	126 83	,	03	0.06	236	13	1.86 3.6	15.47	1	0.45 - 01	2 157	12	1.8 04	6 1439	29	4.05
7 2025 - I	Upgradulion of SR kV substation 2 Palasta to 220 kV autototion.	OM 2010 NVA, 2000 NV TAF With 2 No. 201 NV No. Serys, 2 No. 10 Serys and 100. Dec complet key		2025-24	2025-26	ACM work is undertaken. Sub-station will be after ROW and right to use by PSPI	constructed CL	61.21	0.00	0.00	2.00	0.00		200 100	"					Ϊ.																		
				4.3022	83-3005			-	000	9.00	0.00	0.00 0	00 0.00	0.00 0.0	p 60	154 0	EM 150			0 0	143	- 14	0.00 0.0	, .	,		300	0			12.86	3.08 10	17.60	0			0	0
		U.O. of one Cit. of 220 to Dahade gade. Dahqadi See CiC on OC 19 km Zabra combusto 620 mm						İ																														
	RS.	b						1	1											-				_	-						1-	-	-	-	-	-	-	

		1		T				-	-		-	5	pili (	Over	Wo	ks L	ist					10-7-51		30.000-10	111000										-	-		App	
CFOO	- Politica	Network Addition Scope of Work	Project Star Come	Activity Articipated Year of completion		CP In Control Participa Cri	Forter Const of Project	ò	CAPE	Mille Jeep 1	64	Capitalisa	oring 2021-2		CAPEX To	120000		-	ng 2013-33		CAPEX GAPEX			Capitalia	on during 30	23-24	-	CAPEX	•		Captains	tion the log 2	N04-25		CAPEZ To		Car		
				-				-	ec	10C 1		- C	ec le	-	ec		Wester		X Total	Wester		OC TW	Wester		lec	Total	Works	EC I		ul Wes	Capt	EC EC	Total		EC CC	Total	Works	Capitati	100
T P DOGS	eth 450 NY State Champana.	1x500 MVA, satisfaced 400 Z20 NV KCT at 400 MV Chemise design and 400 MV KCT Birth 2 cent. 400 NV Size Birth 2 cent. 400 NV Size Birth 2 cent. 400 NV Size Birth 2 cent. 400 NV Size Birth 2 cent. 400 NV Size Birth 2 cent.	2023-34	302+32	Yeshing reduction order programs		733	0.00	0.00	0.00	100 Q	03 0,00	000 80	0.00	0.00	00 4.00	6	•			3.01	224 224		125	2.0	17.85		286 0	179 22	- 2	3 14	5 0.92	27.87	•	• •				•
		U.C.O of 400 for Melandar- Varreleshate line at 400 for Discretization staff Coast Mooser Conductor						0.00	0.00	0.00	0.	00 0.00	0.00 0.00	0.00	200 0	50 5.00		•		8.27	106	11.4	1.	•		0.00	827	200 1	1,14 (1,		SH 41	2 232	22.00	0	• •			3	
	of Bronseline sporters of Shahpar Kend -25 Spike Frejer.	120 kV 8300 to 120 kV Shahper Kanal Pt 4 55C on OC, 65 mg m, lee length 16 hm, U/O length 65 km nepens)	4,2003	3,3025	Hydral work in dataged.		140	0,00	0.00	2.00	100 0	00 5.00	000 00	5.00	0.00 0	00 0.00	0	0		,	1.26	179 7				0.00	,	1.8	a75 ;	10	0 21	1.5	14	•	0 0			•	
		236-b V Shadayer Kandil Fri II on 230 ker Sarne (V. on DC. 1975-5 of 2396 A capacity, have length 10 km app. cod)	4,2001	1,3025			27.81	0.00	4.00	0.00	.00 GJ	00 0.90	0.00 0.00	2.00	0.90	00 0.00	0			5	1.25	175 F			٠	6.00	1	1.25	179	10	0 21	**	14	0	0 0	•	0		
7 BOD-1	to 225 v BS Annier Plant Including 22 September Autorophys System SAS of 1 oc	2x100MVA, 2207MV NF old 2 na, 220V Ne hope and 1 na. But couple larg recluding SA3 and Call walk.	2025-25	20435	Land arquired from panels and Route survey is being carried and drawing work waster progress		4.H	0.00	0.00	200 4	<b>30</b> Q.I	0 0.00	200 200	1.00	Q15 Q	1.10	۰	•		165	265	10.03			0	0.00	14.5	1775 0	174 22.1	NS 30.0	00 54	14	44			0	•	0	•
		U.D. of one cits. Of 220kV Published Mattel Action Proceedings Not (220 cm/2) debte denderation 420 cm/2 of 220kV Abordon (None)	203.34	1225	Tender for route servey is under process.			0.00	6.00	0.00	30 21	0 0.00	0.00	0.90	9.96 Q	0.90		0	•		125	0 420	0	9	0	0.00	,	1.75	.05 E	1 12	,	1.05	16.05	•	0 0	0	9	0	-
		4 and Other bear bays	ans p	3004-25	Land expension work complaint. Deving work under progress.			0.00	900	0.00 B	00 0.1	0.00	8.00 8.00	8.00	0.00 6	0 000	•	1		•	0		•		•	6.00	•	•		•	1.	0		0	0 0		•	۰	-
10 marks	1 400 kV SS Bahman Jacon Singh 22	2000 MVA, subblemant 000/220 V ET of 400 VV Bahrwan, James Stolph strings with 2 no 400 MV CT Blogs, 2 no. 400 MV CT Blogs, 2 no. 400 MV The Blogs, 400/220 No CT Blogs, 220 VV Blogs to CT Blogs, 220 VV Blogs to Law to schedule blog, 5 no. 220 br Blogs blogs, 2 no. 220 br Blogs blogs, 2 no. 220 br Blogs blogs, 2 no. 220 br Blogs blogs.	EBN	205.34	First stope of 400 bV middling yeal last town constraints an depart with by Hellis, and 200 sV/m commission to MINEL, has been related in 400 bV villages in many CC 4000, has been related in 400 bV villages in many CC of which find in 400 bV 500 period to the constraints for which family applications are being finally and which family applications are being finally as	-	294.55	0.00	0,60	8.00 G	DE 0.0	0 000	a.m. a.m	0.00	6.00 B	0.60	5			39	48 1	N N	•	•	•	2.00	8	B.45 2	162 74	•	10	0.00	830	20	3 8.6	ns.	106	150	4
		UK.O of 400 to Tahuand Sales Hadooler line of 400 Nr Bahman Jamas Singhijkes length. 18 km., Turks Moose conductor	4.3022	33025				0.00	6.00	aso a	ao ao	6 0.00	2.00 0.00	26.79	7.19 A	2 40.00	0	•	•	××		03 30	84.76	54.17	8.06	10.00	43.18	1078 G.	104 65	6.1	10.7	8 6.04		•		•	•	•	0
		229 NV OK line (with OPON) have 400 NV Belleman Joseph to 2004 Yellwood Solo (Jee Sough disc, 0.4 oc)						0.00	8.00	2.00 Q	90 80	0 300	0.00	1.00	0.00	0 0 00	9		+		•	0 5	•	•	0	0.00	۰	9	0 0	•	•		•	0	•	•	1.	•	0
	=	LLC of 220 NY Manage Talement Sales at 220 NY Manager Sales at 220 NY Sales insught diver, 0 or only						0.do	0.00	0,00 0.	90 60	0 480	0.00 0.00	0.00	0.00 Q	0.00	٠	0 0	+•		+		0	•		9.00	0	0		1.		•	•	•	•	•	•	•	0
		LLC of both Growte of 14PCL Miles 230 KV Menso at 220 KV has of 400 KV Selvinos Jasse Singlifika 246 DC on DC , 0.4bc/)						0.00	0.00	0.90 0	90 9.0	0 0.80	0.00 0.00	6.60	0.00 0	0.00	•		+		+			,		0.00	0	0				•	•	•	•	•		•	•
		220 NV DC fine on DC Injuries from 400 in Delivers from 400 in Delivers from 500 in ORCITY Standards and read strong from a CARCTY permission (Silvers langth 300 in 0, 4 or)						o ac	0.00	0,00 0.	00 20	0 000	0.00 0.00	6.00	0.00 Q	0.00			•	٠	•			0	•	0.00	0	0	•		+		•	0	•		1.	•	0

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SF CHO	and Parlaction !	MANUAL FAREST	Sea on of Work	- I Mayor	MIT ACRES			l.	PERSONAL PROPERTY.	our al.		-	ab	III O	ver V	Vork	s Lis			part p			**************************************		HIP-STRAINS		adjunia 118	1000000	OPEN STREET	Manual or	on powerous a	ONE BROWN LAND	e establicações de	the property have a	colo si di ini con	15-14-15	AF	ppe
							-			SUPE !		-		W W	-	max lom a series	-		ation during 1			APRIL Total	•	***	tallustin da	BY LEDGIC		0.00	ring Milit M		Captura	arry is	HHH.		EX during 14		000	ta taribe d
	100								-	•1		-		1		T*1	four	Maria 1	e   160	Total	W-res 60	600	Total	Warte	60 6	C Yes	· West	- BC	IX felsi	W	Caph erisa EC	SC SC	Total	Worts 6	CAPEX Tele	Total		Capitalizati
	-	6 nos 350 in bays 3 cual at 220 in Talmand sales, Meer & GACTS	0.112	F						***	10	***	100 100	R56	400 400	0 800	6.66	•	•		0 6	0	•	•	•	400		0.75	0.7	195	5 0.79	62	105	0 0		•		0
20 2021	20 IV 513 10 amp	Approximation of 1 No. 10 MVA TIP of 235kV S/S Rhear to 160 MVA		2023.3	2023-34	Tensor for procurement of TP ender process	-	11.07	0.00	6.00	0.00 6.00	0.00	8.90 0.00	0.00	0.00 0.00	0.00	0.00		0 0		10.2 1.51	0.66	12156	10.7	1,53 2.4	B 1214			0					0 0	Ш			
F2121	ts 200 kV Line Vegel-Patt	Station of 220 kV SAC Path Vegat live from 220 kV Vegat live 50 kV Ameticar (Shin, 0.4 ser)	ļ	A 3007	1304	Tandeling work in progress.		135	0.00	0.00 0	00 0.00	0.00	0.00 0.00	0.00	241 257	0.34																					1	
-																		1					•	241	L57 0.3	19	•	0	0	,		•	•	0 0		0		•
3001	220 HV 555 Model 1	220 NV 2 No. Bays		2023-24	2004-25	Will be completed by 24.25		3.13	0.99	0.00 &	00 0.00	100	0.80 0.00	0.00	100 4.00	0.00	8.00	• •		0	22 039	0.068	2018	2 1	23 00	254	63	0.945	NH2 61	57 A1	5 8,075	600	0.505	0 0	0	0	0 0	+
alian d	220 kV 5/5 W2000 (Could law 22	Additional Sed 2507 53 kV, 100 MVA Auto TR		3023-24	2023-24	Taylor for procurement of TF sever process		11.52	0,00	9.00 a	0.00	100	8.00 0.00	0.00 8	000 0.00	5.00	0.00			0 10	150 1.56	0.41	12.20	10.50 1.	55 G-11	12.26			0 0		0	0					0 0	
2021-2	Mutatation of capacitor banks of Various SYStes			-		Work is programs		1236	0.00	0.00 6.1	0.00	0.00	0.00 0.00	000 4	n an	017		36 0.00	5 017		25 6 80.29																	
	2298 975 Donaha														-				S   QLF		25 0 0 0 0 0	0.84	7.5546	436 0.0	425 0.254	7,54		۰			1	•	0	•	1	•	0 0	1
	35.000	COLDEO MVAR, de NV Capadito Bank al 2201; 875 Doraha		2022-25	2023-24				8.00	100 0.0	0.00	0.00	5.00	0.00 61	0,00	0.00	0,00				0	•	•	0 0		0.00	0	•	• •	9			0	0 0	-		0 0	0
	ZZBCV 5/5 Sandruse	273 280 MVAR, 86 KY Capacitor Bank		2020-20	2023-24				0.00	100 9.0	0 800	0.00	100 0,00	0.00 60	20 0.00	6.00	0.00 0			0 44	M 0.00	2.00	E.09 (	a.os o		201	3					0		0 0	0	0		
	200KV 5/5 Charavast	2000 BEO HVAR, BE KV Capacitor Bank		822-29	3023-34				0.00 0	80 0.00	6.00	0.00	00 000	8.00 6.0	0 0.00	6.00	1.00 0			0 90	0.00	5.00																
	239KV S/S Banay				2023-24																		8.04	201 200	0 0.00	0.01	,	•		0		•	•	0 0	8	0	0 0	0
		2015 BEO MYAR, 66 IOY Capacitor Book		272-25	2003-24				2.00 6	0,00	800	6.00 Q	00 0.00	0.00 0.00	8.00	280 (	100 0	•	0	0.00	0.00	9.80	201 0	LO1 0.00	0.00	6.01			0			•			•	٠.	0 0	
	ZZONY S/S Change	ZXIS.560 MVAR, SE ICY Capacitor Bank		2022-25	203-24			-	400 61	XI 0.00	400	C.00 0	0.00	100 100	2,00	0.00	00 e	0	0 (	0.01	8.00	0.00 0	104 8	01 200	0.00	801	0					6						
	229(v 3rt) Year	ZX10 MO MVAR, 86 XX Capacitor Bank		2020-29	2023-24			-	000 00	E 0.00	600	800 01	0 0.00 0	100 2.00	5.00	0.00 D	ao 6			994	000	900 0	dr D.	gt 0.60	0.00									П				
	228WY 5/5 Chogwan	7000 800 300 40 40 40 40		202																	-			"	0.00	a.m								•	•			0
		DOG 800 MVAA, 60 KV Capacitor Seas			ALS A				0.00	0 0,01	601	0.00 0.0	8.00 6	60 6.00	800	0.00 6	NO 0	0	0.04 0.0	0.01	8.00	0.00	on 50	9.00	0.90	6.01	0	0 0			•	+	٠.	1.	+		++	•
	220KV S/S Chois Sabili	2010 800 MVAR, 95 KV Capacitor Basis		202-25	2023-24			1	0.00	0.00	6.00	0.00 0.0	0.00 0	00 6.00	5.00	0.00 0.0	0 0	.0	0.00 0.0	2 0.01	500	0,00 0.0	D 0.0	9 900	0,00	por	0			0			١.				-	9
	ZZINV SrS Hunge	2010, NGO MYAAA , 132 KV Capacitor Basis		22-25	303-24	-	-		0.00	0.00	0.00	0.00 0.00	2.00 0:	00 0,00	0.00	5.00 0.0	0 0		0 0	0.04	0.00	0.00 0.0	M 6.01	1 0.00	0.00	201								Ш				
	B	1						15																		_		1			•			•	0		1	3

<u>a</u>

Sr No. m p	Particulars	Network Addition Scope of	Maria Protect	Start Activity						-		Spil	Ove	er Wo	orks I	List	J10000000.1						N11		-				-		_				A	ppe	n
			Project Des	Actual Articipal Year or complete	<u> </u>	GP 1 supported for 2nd Comban Period (In Gr)	Total Coat of Project		EX during 30	01-22	Captalizati	m daring 200	71-22	CAPEX Aut	ing 2023-23	Cap	Collection de	wy ND II		CAPEZ during	2023-24	1	aptralization	Auring 2023-24		CAPE	during 20	¥-8	Capi	witness day	Top 2004-25	CM	PEX daring	2 2005-04	T 6.	printerion (s	_
				-		Cr)			CAPEX Total		Capita	Number Total		CAPEX	Yotal	1	Captairmi	n Tetal	$\vdash$	CAPEXTO		-	Capitatica	Rose Testal	-	c	WEX Total		-	Captulation	Total	-	CAPIEX IN			Capitaltrate	
	230KV 9/3 Belant	ZXSEBBOWYAR, 152 KV Capacido Basis	2021	2 2023-24					ec ioc	Teta	Works	E RC	later World		EC Tel	Morte	ec	OC Total	-	ec e	XC Yotal	Works	BC	100 T	-	Murks EC	HDC:	Yorkel	Weeks	80 EX	C Total	Werte	EC   EC	C Total	Works		ióc
		2		1				0.56	108 0.00	0.40	030 0	0.02	246 000	0.00	0.00 0.0	0	0	0 0	0.04	000 G	00 0.01	0.01	630	0.00	101		1.			0 0	0	0	0 0				
	200KY SYS House-par	CECTO BOD MEYAR, do NOV Capacitor Stant	3073	3 2023-24																									1		. 19						Š
		552		in a second			1	0.00	0.00	0.00	200 4	0.00	100 0.00	0.00	6.00 Q.00	0	0		0.01	0.00	10.0	0.01	0.00	0.00 6		0 0				0 0	9	-	D 0	+.	1.1		
	204 EV St Each Jungs	3010.360 sever, 1530V Capacitar Bank	3022.1	3023-24	]							П						1			1										1						73
	137	N. T. C.					ſ	1.0) 0	0.00	0.00	0.00 65	0.00	0.00	6.00	B.00 0.00		0		0.01	800 00	0.01	0.04	0.00	0.00 6	01					0 0		0	0 0	-			0
andread Microscopi es	200 kV Madeshay (LPC flow of E	V UG af H W Helsebyer N	2025-3	20425								11	1	11							ĺ																
		V 1365 of \$4 BV Mehindipur to 129 BV with introduction of 20160 PWA, 238665 (5V meetings (including 2 Mee, the large, 3 Me, BY large and 1 Me. BY large)		-	Right to one scoop's from PSPCI. SS will be commended offer obtaining sight to one and ROW income so SSS will be in competited area of Zinjage?		X-m	0.00	200	0.00	6.00 4.0	2.00	3.00 0.00	0.00	0.90	0			13	195 05	1540	•	0			19 2,85	0.74	22.61	22	48 1,38	34.06		0 0		1.1		
		110.00000000000000000000000000000000000	10-23	2025.34								$\square$								- 1																	
	3	Dambard for at 220 kV Statustipus (SIC Stone 60 kV) (L.S.O.Longtic 3.5 See Suppose, S.F., DFC on DAC)		1000			1400	0,00 0.0	0.60	0.00	8.00 8.00	8.00 0	1.80	038	122	u	0.58 a.	122	1.0	0.50 0.2	-122	10	2.30	21	•	0 0	0			0 0			9 3			0 0	0
		S. Debutelon Automation Symmetric (SAS) for Re. 1 Chara.	2025-34	2023-24			1.29	0.00 6.0	-																			1								1	
		7					3	0.00 0.0	0 900	0.00	400 400	6.00 0	00 0.00	6.00	0.00	0		0	'	Q15 QD4	1.10	1	0.15 0	04 1.1		0 0		•			0			0			,
-dmeni 0/3022-23	794 5-5 Bene	Angenesista of 1 on 186 HVA Theodogous of 220 EV Not distinct flower to 160 HVA	2025-24	3003-34	If prouvered wide process	1.	11,524	0.00 0.0		0.00	600 GD	Ш																									
-		Nob adminstration to 140 MVA							"		0.00	0.00 0.0	20 2.00	000 0	0.00	0	9 0	0	10,7	1.53 0.40	12.130	102	153 8	121			0	•	•			0 0	0				ï
nd 9473	HI KY SCCL, Andrew	Suffring of 1704V-29C Resistant-Verpal live State 1704V-Verpal-to-486EV America (7 S. M., 6 aug.)	K 8922	13024	Sarvey tender wast or process		3.470	000 000	0.00	9.00	100 am				1								1														
1		Ambier (7 E.M., 8.6e))	1			1				-	10	3.00 8.0	0.40	0.04 6	02 0.46			0		0 0	9	0.4	0.06 0.0	E 6.4		•	0						10	•	0 1	0 0	-
10023	THE SIS MINE I	Argumentation of 2 pm, 189 MVA Transference at 270 NV Sub-station MCD-1 to 180	3020-25	3003-24	TF procurement under process	28	1.049 0	0.00 0.00	0.00	000	100 100	600 00	0 1000	150 84	11,50		Ŷ																				
- 1		MYA											-	130	11.20	10	15 44	11,9	10,2	1.53 0.404	12138	102	1.53 0.4	08 121				•			0		0	,		0	1
# DW28- 2	HE DE CHIEFFE SHIP HE KY)	Creation of 220 KV Child with 1 to 160 MVA TAF peed from ULC of 220 KV SC law, Q Strobugs, 1 TAF Say, and 9 MC Says.	2025-34	2004-25	Sight to use not finalized	D.	175 0	1.00 0.00	0.00	8.00	100 100	6.00 B.00	0 000	900	-									1					1								
		and 1 BIC buys. 1 Till buy and 1 BIC buys.													-		.   '		"	25 852	13.47	•	0 0	0.00	30	,	0.8	23.6	33 43	20 1,33	38.27	0 0	0	0			
						1													-												1 1						
1		ULO of one cit. of 400 kV Helicolar – Kartagar DC See at 200 kV Char (ULO longth – 25 km, 0.4ec)	4.2003	3 2024	honey tendar work is princess.	$\neg$	0.	00 6.00	0.00	0.00	m 0.00	0.00 0.00	0.00	500 00	0 9.00	0	0 0		25	10 030	347	25	5.0 0.5	3.47		1											
	EVINA						1																1		1	1			٠١,	1.			0	•		0	
0	KYRAL	Dirt by Tre	Mary N	2023-34			0.0	80 8.00	0.00	6.00 6	00 400	0.00	0.00	0.00 0.00	0 000	0	0 0	0	220 0	33 0.00	242	220 0	30 0.00	2.63		-			Ц.								
	EV 95 hop													- 1																1.1			l°	•		0	25
ſ		Cigis avers	2023-34	303-34			0.0	0.00	2.00	8.00 0	00 0.00	0.00 3.00	0.00	000 Q.W.	0.00			0	220 0	33 0.00	247	2.50 E	23 0.00	260		1.					_						
736	EV Garrys	III MAN TO THE REAL PROPERTY.																						800	100				1						0 0		1
		1 No. 3rd Addisonal 20 MVA. Dispo EVENT	2073-26	MIN. 34			0.0	20 0.00	8.00	2.00 D.	9.00	0.00 0.00	500	0.00 0.00	4.00				120 E	33 0.09	262	220 0	23 0.00	262	0					1.1							
\$		18, "																							1							11			·   ·		

-	WE'S WIN	Metastic Addition	Simps of Work	Proper	Start Assess Augustus Tour of	1000	-	10	Sept.	w/	-	a med	16		Bill	Over	WO	K9 L	101		udan	- protection	ber du	or regional	-			HISTORY		eron with	TOTAL TO			marka (a)	OF T YORK MOON	1 distribution	-		A
					-	•		Part Ace	2 300		100	THE		THOUGH	an Yang		EAPERTS							100000	200	Captularia	m starting (SE	FM	64	PEI dame	MH-H	6	-		1	6440	haring 2005-20	T	Cope
	74E9 (1 - 272 s						ES-SAPERICE:			WOLL		<b>W</b>	-	w]m]	W 166	- Wester		10 Total	Works	10 TR	Total	White	GAPES !	oc ten		Cuptur	lestion Total			CAPEX To	rial		Caphallas	ton Total	+	CUM	El fetel	+	
Soperat.	(max)	I No. 20 MAY SMAILEA	W .	80,85	303.54				8-168 7	1.00	4.00	144 1	60 60	6 6.60	6.60 6.66	8.60	456 B	80 6.00				2.20	1000	00 102		933	0.00	242	Wests	0 0	C Tetal	Works	ec ec	900 T			6 0	Mari	"
18 Map 1	Chalde	1 No. 3nd Additional 28 M IDDN 1 EVENT	/4	2023-0	M 2023-24	-		-	+	8.00	0.00	0.00 6:	00 0.00	0 000	100 000	6.00	0.00 0.0	x 100		0 0		220	0.33 &	00 2.02	120	0.30		240											
IN XV Hop		7 Mr. 2nd Additional 20 Mil USDA's SYSTE	*	30.3	MODE	-				100	9.00	0.00 0.0													-											•	0 0		T
PR KV Good													0.00	0.00	1.00	0.00	100 0.0	0.90	٥	•	0	230	0.33 0	2.42	220	530	6.00	167	•	• •		0	0	+	+	1.	•	0	+
	_	I No. 4th Additional 30 May No. 11 Security		2023-21	3025-34					0.00	0.00	0.00 0.0	0 0.00	0.00	0.00	0.36	0.01	6.40	636	E.05 G.04	9.40	2.00	03 0.0	239	2	43	3.00	2.50								•	0 0		
730 KV Basel	Tables.	No. 3rd Additional 26 MV. MIT EVERY		2023-21	30234					0.00	6.00	0.00 6.00	0.00	0.00 0:	00 0.00	0.30	05 E.DI	14	0.35	205 204	840	3	03 00	2.30	2	0.3	0.06	2.8					0						1
230 EV 10anda	-	No. 3nd Addisonal 30 MeV. UTI RATEA		22.0	2003-34				-	9.00	0.00	0.00	0.00	0.00 0.0	10 0.00	0.36 G.	05 0.6m	0.42	6.35	106 0.01	849	2	Q3 Q00	2.34				236											1
230 K.V. Ajiband		No. 2nd Addit digits (EV 12. VA TVV (speec TV (som store to be used).		3023-34	3023-34					0.90	6.00	100 000	-	0.00 0.0																	•	•	•					1.	
230 XV (Jacks)														300 10	0.00	0.00 0.0	0.00	5.00	0		۰	0	116 605	1.43	1.20	018	108		2.00	0.00		•			6		1.		
	5	SHVA MITEY	*	3003-25	2009-04					2.00	6.00 0	00 0.00	2.00	0.00 0.00	0 0.00	0.20 6.0	3 9.01	0.34	D.20 &	63 QH	634	3 6	1.45 612	3.57	,	0.46 0	(12)	157				0				0 0	0	0	•
EN EV Ambi	12	M AND MYA	4	REEK	3023-54			+		6.00	0.00	00 0.00	0.00	6.00 0.00	200	200 200	0.00	6.00	٠.		0	23 %	20 0.04	2737	23	am a	D 2	74	0 0		0					0 0		0	0
M KV Saidgess	(Om David Aug	of I no. 20 MYA with MYA, 600 II EV		MDB	2023-3H					0.00	0.00 0.1	10 D.00	9.00	0.00 0.00	0.00	0.20 0.01	6.01	0.24	0.20 0.0	8 0.24	0.24	3 0	45 812	357	,	0.46 0.1													
HEY Sheet	13A	M Adding 20 MVA		3072-29	2003-34					000 0	100 0.0	0 800	5.00	0.000 0.000		0.25											1				•	•			•	0 0	•	l l	
N EVO.		MANUAL PROPERTY.		2023-25										-		0.25 0.04	SON	0.30	6.25 0.0-	0.01	E.50	2 0.	3 4.00	238	2	D3 20	. 21		•	0	•	0	• •	0	0		0	0	•
		Sel Additional 30 Nev A EVERP		200	MEEDIN					200 0	200 200	0.00	0.00	0.00 0.00	0.00	20 603	0.04	034	0.20 0.49	0.01	8.54 3	20 8.5	5 0.00	3.02	230	220 00	24	2 0	0	•	0	+			0	0 0	•	0	0
e av Kalan	Ang. 34331 (Add BV TI 23 St	of I as. 30 MVA with 4VA, 46VII XV Riemai IZ 3 MVA, 46VII fphomod in MYT2XIII- No. 35 may be bred on debud )		RD D	2023-34				-	9.00 G	00 600	0.00	0.00 E	E00 900	5.00 &	50 0.06	0.00	260	50 0.04	600	0.00	3 44	612	340	3 0	es 012	35	+.		0							0		0
EV CHELINA		he Add 40/11 EV ES. TOF (aprel 1878-en		2013-23	200-34				+	0.00 0.0	00 6.00	0.00	6.00 0	0.00	800 A	25 0.04	0.01	230 0	25 5.04	201	0.30	2 018	0.06	149	1.30 D	18 0.06	1.40	0.00	2.00	0,00	9.00								
		ξ,																																					
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													3	pill (	Over	Wor	ks L	st		. mm.n		APEX suring	2023-24	-	Capta	Agustion de	rbg 2003-3	H		APEX durin	g 2024-20	T	Capita	elization di	ring 2024-2	-	CAPE	X sturby 20	125-21	Cup	taligation on	wwg 202
ir hip, pa pe CIP Order	Pathylas	Securit Adoption 1	Scorpe of World	Project Start Date	Actual Anticipated Year of	Reserve as	GP 1 pproved for out Control Period (# Cr)	Tetal Cost of Project	0	PEX during		Capa	California or	m; 202-2		CAPEXTO		178	skinder			CAPEXTO		-	0	a pilode oli	on Total		-	CAPEX	Total		-	Capitalizati	on Total	+	-	APEX Total			Capitalizati	an Total
					completion		Cr)			CAPICX To	oveni Hannayan		Capitallisi			C   D	155	-	w 10	C Tetal	West 1	<b>6</b> 0 (	oc   10	way w	toria   I	ic	ec	Total	Meta	EC	ec	Total	Works	EC	EC 1	Total T	Sprint E	g 800	Yotal	Works	EC I	ec
									Works	SC.	icc 1	mer Meri		EC 146	- Works			-				200 0	88A B	16									0		0	0	0 0	0 0	0			
72-23	Rescongenest of suscessivity of Transmission Boar in Public Cords to	s. Translation of 230 bV Sugara - 400 bV Fugara Major densit of 230 bV		422	3023-24	Tender for reads survey to being found		24,683	0.00	9.00	0.00	00 8.00	0.00	0.00 0.0	0.25	0.06 0.0	0.35	,	.		0.25	ace a		-	.	"	-	-														(×
	bearing overlading of school	Displayed									1			1										1																		
		3. Committing 228 NV Designation 228 NV Property		4.22	2023-34	l l	-		5,00	600	0.00	0.00	0.00	0.00 0.0	0 0.37	0.000 0.	00 0.52	4.37	0.00 0.0	86 8615	0.37	0.00	065 0	1915	232		2006	0.00	•	•	•	•	•	•	•							
		Designation 229 NV Program																					- 1			1											1					
	100			+22	124		-		0.00	0.00	800 1	2.00 0.0	0.00	9.00 0.0	0 289	0.63 6	30 166	0	0	0 0	2.63	0.63	0.50	3.05	5.30	38	0,78	7.30		•	•	•	٠		•	•	0	0 6	•			•
		a Commercing 400 (V Regions to 220 (V Regions (Including more lists of agents, 5 km length, DVC on DVC)					1			1										W																						
		1. 1.							100	0.00	8.00	3.00 0.0	n 200	000 B	0 3.00	283 4	56 511			0 0	3.01	0.88	656	5.11	7.30	1.76	13	10.22				•	•		•		0	9 9			•	0
		4. Communiting 60 EV Raigness to 20 EV Motivals I (over eleval direct and over alread via 22 EV Brance, on DAC less, including more list of argume. New Imagel, DAC on DAC)		49	3.34			-	-																	-											-					
	İ	O/C line, including more last of oppose. Her length, D/C on O/C)										0.00 0.0	0.00	0.00 0	m 200	200	0.00	١.		3 0		0.9	0.24	7.14		2.0	0.24	7,54		0	0	0	0		0	0		0 0	0	0	0	0
		e 176m. 230 KV beyn at 400 LV Rajgers		2022	3023-34			Î	0.00	8.00	000	0.00	0.00	200 0			-			(A.O.) 153		100000																				
																					01	0.015		0110	21	3 Drie	0.004	012	8	D	0	0	0	0				0 0	0	1	0	0
		C 778 LV Side has extended	7.01	2025-24	2023-34				0.00	300	0.00	0.00 4	80 8.00	0.00 0	00 000	0.00	0.00		0		a.	440						077764	-			22	8			- 1						
		empagness to be seek at 400 EV Rajpus for providing publisher agree for 2 New 238 EV Store	1	1				14																										47.54		319.24	12.00		3 34.04	133.40	15.57	5.10
22	1	-	Total (D)		-			763.30	Les	0.12	0.05	123 6	32 0.05	0.02	40 HJ1	16.62	A.02 MIS.	13.49	3,36	1.57 40.3	912.88	MB	19.71	344.14	340.94	44.37	10.28	341.98	252.56	4.44	16.31	290.54	251.00	47.34					1			
										130		MAN	-	121	D.79 MAX		H.M	AN 18.	200	CM 15	144 N7.2	10.00	m>	H439	-	B7 80	ми	3477.A	<u> </u>	, aut	267	114.00	***	- 1141	pi.as	100.5	Deat	11.85 6.6		28 100.50	10,00	
									1					1	1	П		_	П	_	1	П		-1	Т				1	П	П							T			П	
TOTAL	•				1 -	Mark in progress, bander order in management of CPCPEM, work and upper course and CP of MIT			+													1.		040	9.45			0.6			8,00	100	**			•••			•	- "	• •-	**
		1		0.5		THE REPORT OF CHAIN			1			-	-	++	-	1	-	+				1.		0.30				0.30											-	- "	-	**
-	Tan Outla and Sanddon M for teating of transferred all PSCNY heating latter COTE.	1		-		Will apid over to 3 of C an exact of the flows any multivational and		1 18	-										-						300.55	-																
	Too Culta and Residen id for busing a transfermer of		-			and the send of the product that is Control to control			-		•				-		-	-	1			1.		176	1.8			1,70					٠.			•••						
	Too Culta and Residen id for busing a transfermer of				7.	distability could not be invested that the COVID to compare begin with he spiff over the Ind CP of JAPP and this work new Sabell with completion of OPCHP such as 400 KY TAPs, Markets meeting, Markets - Marine services and Distably Markets reactions.		- 4	-								1		1	-	1.75		•	1.76	LN	•		1.76	+	-	$\vdash$				-	***		7	-		+	_
-	Ton Outs and fluidates in his training of transformer of or SCCYT suiting befor COTS.  Paramet Control operation of 45000 to					denie to coal on its unregative to CPTU to compar- tive i will be splf our to 3-d CPT at this such true limbed such completion of CPCW on the extra CPTU. Indicate artiflers (ARRELY) - Marine and Marine Landson and CPTU, indicate artiflers (Mort will find our to 3-d CPT as requirements are after specific (Mort will find our to 3-d CPT as requirements are after specific (Mort will find our to 3-d CPT as requirements are after specific artiflers in requirement the project by prospective Morters and an extendition of collection prospective independents and of			-						-	-	-	-	1	+	1.75	+	•	1.78	1.N	•		1.76	+	-		180				 		7				٠
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rks , ,	Ten hale and fluidation is for instance of transparence and FUCYT leading left for COTS.  Remains Coston department of MONE of Management and MONE of Management and MONE of Management and MONE of Management and MONE of Management and MONE of Management and MONE of Management and MONE of Management and MONE of Management and MONE of Management and Management and MONE of Management and Management and MONE of Management and Management and MONE of Management and Money and Management and MONE of Management and MONE of MANAGEMENT AND MANAGEMENT A	n e				where the and on the surveyed one of CVDs in order.  When we have been also of all off in the source was being a surveyed one of the contract	13	-				-						- ·			1.00 1.00 1.00			1.00	130	•		137				 				5.00 5.00	4,34		4,74		+	
rks ,	On tolks and flushing in for husing a flushing and second and an experience of the COTA making in the COTA making in the COTA making control approximate of 4000m 1 Markets, flushing on this later.  Collic product of flushing on experience of the COTA making flushing on experience of the COTA making flushing on experience of the COTA making flushing on experience of the COTA making flushing on experience of the COTA making flushing on experience of the COTA making flushing on experience of the COTA making flushing on the COTA making flushing on the COTA making flushing on the COTA making flushing flushing on the COTA making flushing fl	n				where the and of the investor has been been discussed in the second rate being discussed in the second rate being discussed in the second rate being discussed in the second rate of the			-		-		140 14 140 14 140 14	1 1.00 11 1.00 11 1.00	100 100 100 100 100 100 100 100				100 100 100 100 100 100 100		LS		•	1.00	130	•	•	1,00						-				- ·	. 474			
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lorks ,	The fields and fluidates 18 for training of translations and section 19 for the COTE.  Places a Coultier agreement of ARRIVE of the learners, fluidates on the Cote coultier partials of ARRIVE of the COTE feel of partials of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the COTE of the COTE feel of the CO					where the second of the investor that COVID is stronger. Which will be self-up to 10 of	1.5						1.00 S	1 1.00 11 1.00 11 1.00	100 10 100 10 100 10 100 10			6.00 ·	0 0.00 00 0.00 0.00 0.00		LS			1.00	130	•		130					•					 	474			
lorks	The fields and fluidated 18 for leading of trapstowns all POCYT hashing 18 for COST.  Assessed Cost of agent time of 4000m V. Bargar, Substant and below the Bargar, Substant and below the Bargar and below the Cost of the Bargar and the Bargar and COST of the COST of the Bargar and produced to the polytom of the Post of the Cost of the Bargar and Post of the Cost of the Substant and the Bargar and Post of the Cost of the Substant and the Substant Substant and the Substant Substant and the Substant Substant and Substant Substant and Substant Substant and Substant Substant and Substant Substa					where the soul of the investor to the CVDs to bright.  When will be self-one in 30 of of stiff in this count was beind.  When will be self-one in 30 of of stiff in this count was beind.  When will be self-one out below beinder and self-one out to the self-one out to	1.00 1.00 1.00 1.00 1.00					1.0 1.0 1.1 1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	- t- - t- - t-	200 200 200 200 200 200 200 200			1.00 . 1.00 . 1.00 . 1.00 . 1.00 .	0 0.00 00 0.00 0.00 0.00		10 19 10 10 11 10			1.57 1.00	130 130 13 141			120	30 30 30 30 30 30 30 30 30 30 30 30 30 3							1.00	4,36 - 4,00 - 4,00 - 4,00 - 4,00			1.00 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		

| Scope of work   | Remarks  | Total Cost   | EC0195   | DC049  | Project Cest   
   | T  |  |   |  | - 1011   
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  | p. in 2020-20   | Grand TOTAL   | -  | TOTAL Exp  | in 2023-24   
  |  | Total Exp.   | n 2024-25  |  | TOTAL E  
  | xp. in 2025-26   | Grand TO   |
|   |  |  |  |  |  
   | Cont   |  |   | TOTAL (T1)   | Cost   
   | 10% H   | 0C@  | TOTAL (T2)   | Cost   | 100 I  
  | TOTAL (13   | T1+T2+T3  | Cost   | EC# 100  | TOTAL (T1)   
  | Cost   | EC# IDC<br>15% 49  | R TOTAL (T2)   | Cost   | EC# 1  
  | DCG TOTAL (T3)   | T1+T2+T  |
| Additional 160 MVA, 220/66 kt<br>transformer including 66kV<br>busber extension (2:50MVA<br>132/66KV will be spared)  | The local Buthindle-Gisterbale-Makind area is privaryly fed from 220 kV Mary, Muldess and GNITP substitution with 320 kV sub-festion of this area. In case of fishers of any one source, the start supply laiks, leading to blackcut, 50 they inside the 132 kV system, 65 kV beads are playmed to be shalled from 132 kV system (65 kV beads are playmed to be shalled from 132 kV system to 220 kV system. The unit also alternate one additional steps of 1320fc kV systems to 250 kV systems to 250 kV systems.  | 12.34  | 1.85   | 0.49   | 14.71  
   | 12.36  | 1.85   | 0.49  | 14.71  | 0.00   
   | 0.00  | 6,00   | 0.00   | 0.00   | 0.00 0   
  | 0.00  | 14.71   | 12.36  | 1.85 0.  | 9 14.71  
  |  |  |  |  |  
  |  | 1471   |
| (2 line bays, 2 T/F bays & 1no.<br>Bus Coupler bay)   | 10 1324Y MARSIEF, ONCITE, Markot & ZCINY MARKEY.<br>PSPCI, will connect 66 NV fink from Bhalaisins to Doda<br>and Kasel to debed 3X100 MVA, 220 /132 KV auto<br>transformers at 220 KV Muldsar along with 132 KV fink<br>lines between 220 KV Muldsar and 132 KV Muldsar.<br>At this SS No. 24 (10) MVA TVI will be unstelled aller.   | 26.99  | 4.05   | 1.06   | 32.12  
   | 2.70   | 0.40   | 0.11  | 3.21   | 5.40   
   | 0.81  | 0.22   | 6.42   | 8.10   | 1.21 0   
  | 9.64  | 19.27   | )  |  |  
  |  |  |  |  |  
  |  | 9.00   |
| sahai with 2x100MVA .<br>220/68kV T/F (4 fine beye at<br>Guru Her Sahai, 2beys each at<br>Ghubeya & Jhoke Hari Har, 2   | Arien to 220 KV S/S to deleted 220 KV S/S Ghubeye but<br>as the transfer of land owned by Village Panchayet has<br>not metured for upgradation of 220 KV S/S Jiwan Arien   | 111.26   | 16.69  | 4.45   | 132.40   
   | 11.13  | 1.67   | 0.45  | 13.24  | 22.25  
   | 3.34  | 0.89   | 26.48  | 33.38  | 5.01 1.  
  | 39.72   | 79.44   |  |  |  
  |  |  |  | 0.00   | 0.00   
  | 0.00   | 6.00   | | | |
| DrC line from 220 kV Ghubaya<br>and DrC line from 220 kV<br>Jhoba Hain Har (Line length<br>(30em & 30lem, 0.45q <sup>-</sup> ).   | At the 15 the 2 har 300 JAIN AT First the instincted above agenting 500 JAIN Theoret 15 from sense other such selected the process of the process of the process. The selected theoretical and 100 JAIN As 100 JAIN As 100 JAIN As 100 JAIN As 100 JAIN As 100 JAIN AS 100 JAI |  |  |  |  
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  |   |   |  |  |  
  | 54   |  |  |  |  
  |  |  |
| Crestion of 220kV Semadh<br>Brai with 1x100MVA,<br>200132W 77f (4 Inn bays, 1<br>TIF bay & 1no. Bus Coupler<br>Bay)<br>UILO of both circuits of 220 W<br>Baginspurane - Bajashara line<br>(UILO Langth - 8km, 0.45q*).    | This 5.6 will give relief to 220 KV Himmeligura by shifting of load of 68 KV Deens Stahls and 68 KV Patto Hrs. is addition, I will provide accord anounce of supply to 127 kV Comment of the Comment of Stahls and the Stahls in Comment of the Himmeligue of 132 KV StC line from 220 KV Mega and fine Stahlson in comment tripping of 132 KV StC line from 220 KV Mega.  | 33.76  | 5.08   | 1.35   | 40.17  
   | 6.75   | 1,01   | 0.27  | 8.03   | 10.13  
   | 1.52 0  | 0.41   | 12.05  | 16.66  | 2.53 0.6   
  | 8 20.09   | 40.17   |  |  |  
  |  |  |  | 33.76  | 5.06 1   
  | 1.35 40.17   | 40.17  |
| with 24/100M/NA, 220/96MV Tif-<br>(4 fire bays, 2 Tif- bays & Inc.<br>Bus couplir bay)<br>LILC of 400 kV Nakiodar – 220<br>KV Hoshiarpu sind Nakiodar – 84<br>Refarra Jatan 220 kV Cits at<br>Processed 220/kV SSC Chalmy | to give neide To, Jennahur, Philyparius and Richard Jallies as speaked upon the TOR centraling (Str. no. 40 Tables 15).  All this 5/5 the 2nd 5/0 M/N TF will be installed other spanning 100 M/N Preven TF from some other work where the against of 5/00M/N to 15/04M/N is planned.  | 42.47  | 6.43   | 121  | 51.92  
   | 429  | 0.64   | 0.17  | 5.10   | 8.57   
   | 1.29 0  | 0.34   | 10.20  | 12.86  | 1.80 0.5   
  | 1 15.30   | 38.61   |  | _  | | | | | | | | | | | | | | | | | | | | |
  |  |  |  |  |  
  |  | 6.00   |
|   | Additional 190 MVA, 22056 N Interelibrate Including SSNV Neurology | Additional 160 MAV., 20066 VV Interesting the County of th | Additional 190 MVA, 20066 VV Interestinate Interest Control of Section 190 MVA, 20066 VV Interestinate Interest Control of Section 190 MVA, 20066 VV Interestinate Interest Control of Section 190 MVA, 1 | Additional 190 MVA, 20066 VV Interestinate Indicated area in translational area in translational area in translational area in translational area in the species of the spe | Additional 160 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20060 V Interesting the Control 20 MVA, 20070 V Interesting the Co | Additional 150 MVA, 2006 VV Irrestormer including 68V VV Irrestormer inclu | Additional 150 IMA, 2008 IV Interestinate Project Grief In | Additional 150 MAX, 20060 VV Introduction foliable in the control of Control | Additional 500 MVA, 20040 AV The transformer including SMV Transformer | Additional 150 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 A 100 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 A 100 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 A 100 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 A 100 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 A 100 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-Makind area in 2007 MAX, 20065 VI The total limited-Giotectrials-MAX, 20065 VI The total limited-Giotectrials-MAX, 20065 VI The total li | Acciditude of SSM AV, 20068 by   The total behindus-Distantivo-Dahlad area by travelly response including 950V   Souther extension (2004AM, 12006K within represent)   The total behindus of the total 12006K within represent including 950V   Souther extension (2004AM, 12006K within represent)   Souther total representation of the total 12006K within representation (2004AM, 12006K within representation of the total 12006K within representation of the total 12006K within representation of the total 12006K within representation of the total 12006K within representation to the total 12006K within representation of the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to the total 12006K within representation to | Total Cost   Scale   Total Cost   Scale 155   Miles   Miles   Scale 155   Miles   According of State   Control   Con | Additional State MAY, 2006 of 11  Additional State MAY, 2006 of 11  The National Information of the Information of the Information of the Information of the Information of the Information of the Information of the Information of the Information of the Information of the Information of the Information of the Information of Information | Accessed of seven   Accessed Conference   Accesses Conference | No.   Company   Part of sort   Comment of State   Comment of Stat | Test Case   Ca | The first   State   March   Marc | March   Marc | Manufact of District Conference of District | Marcel   M | Manufacture   Manufacture | March   Marc | March   Marc |

	Name		,	Total Cost	ESSELECT	DC44	Project Cost							CAPEX COST				2				-	CA	PITILISATION C	OST			
									TOTAL	Exp. In 2	2023-24	1	Total Ex	p.in 2024-25		TOTAL EX	. in 2025-26	Grand TOTAL	TOTAL EX	a. In 2023-24	-	To	tal Exp.in		-300	TOTAL E	ip. In 2025-26	
								Cost	ECO15	DCG4	TOTAL (T1)	Cost	15% S	TOTAL (TZ)	Cost	5% d	(ET) JATOT	T1+T2+T3	ECM D				e oce			ECO	CO TOTAL (TS)	Grand TO
•	Upgradation of 65 kV Gill Road Ludhiane to 20 kV level (Under Study)	Ludhisne with 2X160MVA	AV 50 which will give relief to overloaded 65 KV Lake. Yolkin-Gill read UC lives as up-presisted not consider of these issue to HTLS in not possible as fine perseas over way thickly populated areas and the was agreed upon in the TPC meeting (Sr. No. 7 of Table-12) to include the work in 340 C of HTY 23-30 subject to the demolition of the 1912 complete center and offices of DS organisation.	0.20	0,03	9.01	9.24	0.20	0.03	0.01	024	0.00	0.00	0.00	0.00	0.00 0.	0.00	6.24	0.03 G		+		1.4			15%	48	0.24
-		220 kV Fercespur Road Ludhens on multi circuit towers/modern techniques.	Under skely due to complication of PiCAV. Route is being studied by using morenplications incheology like monopolisal-rout- cleuck lowers. Once the route is frinkland, PSE CV will be approached through petition during the course of ned MYT.																									
7	Upgradation of 66 kV Sign/Chave to 220 kV level	Creation of 220kV BijarChawa with 24/100krVA, 22060kV Tir (2 nos. like bijar, 2 Tir bays a 1 no. Bus Coupler bay) LILO of one circuit of upcoming Dhanesu - Donaha 220 kV line at 8(s) (12km, 0.45q <sup>-</sup> )	Proposal of this auditation was received from PSPCL for securing bank in and strong Safetynese Dosaha to cater Londo to be shifted on 200 KV (tips. Bathoneys, Rishon & Apparel Part to give relat to 200V Domine 3 and rate to the succerning looks in 200V Domine 3 and rate to the succerning looks in A this SG the 2-off Safety for the Installation dis- spanning 100 MV (hower 1% for none other works where the againmentation of 100MVA to 100MVA is planned.	40.17	6.03	1.61	47.84	4.02	0.60	0.16	478	8.03	1.21 0.	32 9.96	12.06	1.81 0.4	8 1434	28.68										9.00
10	Upgradation of 66 KV Bhadeon to 220 kV level	at Bredson), 2 T/F beys & Inc. Bus Coupler Bay)	Proposed by PSPCL to give mind to 2000's Architch by shifting of St KV leads from 200 Mr Architch is Winsteam. Upcoming commodition can be enhanced by PSPCL from Archit. It will also provide new source of power execution than 400 Mr PSICL Plants where one 500 Mr AC ET is being installed. Whe will give raided to existing sources of power Architch see, 140 CM Malerhoot and 400 NY Riguera.  All Ris SSR but 300 MAY AT We bit is installed after	64.40	9.67	2.58	78.74	12.90	193	0.52	15.36	19.36	2.90 0.7	77 23.02	32.25	4.84 1.2	38.37	76,74				+			54.49	9.67 2.	58 76.74	76.74
			spering 100 BMA Power IV if immediate allows about spering 100 BMA Power IV if immediate allows and spering the spering in the property of the spering in the property of the spering in the property of the spering in the special in the spering in the specing in the spering in the specing in the spering in the specing in																						,			
06	logradation of kV Chourwals 220 kV level	A A	This sudulation has been proposed by PSPCL to give risk of 220 M substation G-1 to freelitate the release of the 220 M substation G-1 to freelitate the release of the control of the control of the control of the control of the no further expension G-05 for Gapth seen from G-1 as D-10 for the respective G-1 and the control of the control of the release seen see the firm G-10-G-15 disk end to the the control of the control of the control of the to the control of the control of the control of the control of the the control of the control of the control of the SDC, are to be developed from G-10 as from first project in more than GDC, the vote being a throw first only of the control of the control of the project in control of the line with Mishally of Power. God. of relat Latter no. 150/2017-7 mer. P(1) dated 15.5.3017 (presence)	57.18	8.56	2.29	64.54	11.44	1.72	0.46	13.61	17.15	2.57 0.66	9 20.41	28.50	4.29 1.14	34,02	61.04							57.18	1.58 2.2	9 68.04	58.04
		ULO of born circuits of 400 kV Pappur – 220 kV Goberdgerh- 1 inn (HTLS) (6 km, 0.45c) HTLS equivalent)														4												

Sr. No.	Substation	Scope of work	Remarks	Total Cost	EC0159	DERM	Project Cost	9.00				rigated on	en (C)	GA.	PEX COST	46.6	Valle)		line of the		Up a C	Villa.				CAPI	TILIBATION CO	өт			
							1 - 1 1 1	-	TOTA	Esp. in 1	M13-24		Yota	i Exp.in i	1034-25	T	TOTA	L Exp. in	2026-26	Grand TOTAL		TOTAL EX	in 2023-24	T	Total E	Esp.in 20	024-25	1	TOTAL	xp. In 2025-26	Grand TOTAL
								Cost	ECOS	DGM4	TOTAL (TI	0.00	1 SC8	10CM	TOTAL (T2)	Con	ECA:	DC#	TOTAL (TS)	T1+T2+T3	Cost	10% S	TOTAL (T1)	Cost	15%	DCB 4%	TOTAL (T2)	Cost	ECA 15%	OCAL (T3)	T1+T2+T3
10	Upgradation of 66 kV Toot to 220 kV level	Creation of 220kV Toot with 2x100MVA 220/96kV T/F (2 line bays, 2 T/F bay & fino. Bus Coupler Bay)	Proposed by PSPCL is give riske to 200V/ Petil and soldiowelly on open as melline of 220 VV Petil and soldiowelly on open as melline of 220 VV Petil on self-wish a 66 VV bey for second closed to 66 VV Too. from 200 VV Petil SS. The proposal was agreed upon in the in the TPC meeting by both PSPCL and PSPCL (SV. Mo. 1.2 of Tables).  At this S/S the 2nd 100 MVAT/F will be included effect.	34.18	5.13	1.37	40.47	3,42	0.51	0.14	A.07	6.8	4 1.03	0.27	8,13	10.2	8 1.54	0.41	12.20	24.40	-					ď			,		9.00
		UILO of one circuit of 400 kV Maishu – 220 kV Algon line at Proposed 220KV s/s Toot (7km, 0.45q*)	sparing 100 MVA Power TF from some other work where the agumentation of 100MVA to 100MVA is planned.															1													
"	Double bus arrangement at 220 kV Mandi Gobindgarh – 2		Proposed by Chief Engineer/PAII, PSTCL to provide reducibly of supply to industrial consumes by providing a 220 kV ducile bus bere as por the CEA norms as in case of failure of single available bus. there is a complete blacktout.	14.00	2.10	0.56	16,66	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	14.0	0 210	0.56	16.66	16.46				0.00	0.00	0.00	0.00	14.00	2.10	0.56 16.66	16.66
12	Upgradation of 132 kV Jandisla Guru to 220 kV level		To notions the proteoms in the weiled oby of Annibar a committee was consilicated by Director?. As per recommittee to committee to the relation supply to recommend the committee to the relation supply to recommend the committee to the relation supply to recommend the relation supply to recommend to recommend the relation supply to recommend to recommend the relation supply to recommend to recommend the relation supply to recommend to recommend the relation supply to recommend the recommendation of the relation supply to recommend the recommendation of the relation supply to recommendation	35.12	5.27	1.40	41,79	7.02	1.05	0.28	8.36	10.5	4 1.58	0.42	12.54	17.56	6 2.63	0.70	20.90	41.79								35.12	5.27	1.40 41.79	41,79
13	Upgradation of 132 kV Tanda to 220 kV level	Creation of 220kV Tanda with 1s105MA, 220122kV EF and 1s105MA, 220122kV EF and 1s105MA, 220122kV EF and EF and EF and EF and EF and EF and EF and EF an	Proposed by FMM, PSTCL, with one 220°132 KV sale- treachinest, its provide coachinolog effect in the short treachinest, its provide coachinolog effect in the short voltage days continues bank to trigon of inschalars, causing blastout, its soldies to LL, and give made of inschalars, causing blastout, its soldies to LL, and give made in an approximate to the short of the short of the short of the blastout in a short of the short of the short of the short of the short of the short of the short of short of the short of the short of the short of short of the short of the short of the short of fourthast Julian and Kalpragor with be shifted from 132 VM fragors to 152 VM rines, for which one 100 MVA, 20066 W TFF is also required.	34.71	5.51	1.47	43.44	734	1.10	0.29	8.74	11.0	1 1.66	0.44	13.11	18.30	6 2.75	0.73	21.84	43.44								36,71	5.51	43.88	43.55
		, i					(F)																								

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ir, No.	Substation	Scope of work	Remarks	Total Cost	EC@15%	DC@4%	Project Cost							CAPEX CO	ST										C	UPITILISATION (	OST				
	Name	1,3-40134 0.00 5.00 -0.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-			-	TOTAL	Exp. in 2	023-24		Total Exp.	in 2024-25		т	TAL Exp.	In 2025-24	Grand TOTAL		TOTAL EX	, in 2023-24		1	otal Exp.i	2024-25	T	TOTAL	Exp. In	025-26	Grand TOTA
								Cost	ECO15	DC:04	TOTAL (T1)	Cost	ECR IDC 15% 43	TOTA	L (T2)	Cost E	5% 4%	TOTAL (T	) T1+T2+T3	Cost	15% S	N TOTA	L(T1)		C@ DC	TOTAL (T2	Cost	19%	DCG 4%	TOTAL (T3)	¥1+T2+T3
14	Upgradation of 132 kV Sri Hargobindpur to 220 kV level (1X100 MVA 220/132 kV + 1x100 220/66 kV stready planned 3rd 220/132 kV	Creation of 220kV Sri Hargobindpura with 1x100MVA 220/132kV & 1x100MVA 220/98kV TFs (2 lime bays, 2 T/F beys & Ino, Bus Coupler Bay)	address the problems of constraints at MHP when all the machines are shut due to low water or high at sa MHP is a run off the rhen project, PSTCL & PSPCL, agreed on this as per Sr. ros. 2 of Table-5 and Sr. No 5 of exp	67.31	10.10	2.69	80,16	6.73	1.01	0.27	5.01	13.46	2.02 0.5	16	3.02	20.19	3.03 0.61	24.03	44.04												
	Auto transformer at Wadals Granthism be dropped) (132 kV line from WG and 132/66 kV TFs will be spared)	220 KV DYC Line From Proposed 400 KV 5K Wedshig Granthian (26km, 0.45q*)	I scaping in view the ROVI bissues, some bowers niver the Soft with the mid clust interms and the world of substantial and the balant in hand of the finding view of intermediation. The comparison has be compared to the properties of the comparison project configuration project configur																												JO <sub>E 1</sub> I
u.	Re-errangement to provide 2nd connectivity to 220 kV 5/s Naraingerh	Double circuit from 220KV Khessa-Chopewan, 12 Kin, 6.6 Sq <sup>*</sup>	As per report of Committee constituted to provide related supply to the object furnisher, the committee recommended to provide second search of supply 12 committee to provide second search of supply 12 committee to the complete search committee that object to the complete below of the major part of workser city, 5 as an examplement on been proposed to further into Narrainguist to Chapteron Conf. 12 committee to the complete search of the search of the complete search of the	45.44	6.82	1.82	54.97	8.09	1.36	0.36	10.81	13.63	2.04 0.	55 1	6 22	27	3.41 0.9	27.04	54.07	9.00	1.36	0.36	1.81	13.63	2.04 0.5	16.22	22.7	72 3.41	0.91	27.04	54.87
		Disconrecting 220kV Khessa Civil Line ASR circuit and Chogawan-Khessa circuita from Khessa and diverting them to Narainganh					-																			-					
		1 no, circuit between 220kV Chogswen - Nerlangarh end 1 no, circuit between 220kV Civil Line ASR - Narlangarh, Drc line with 12.5 km 0.45q*																								2		00 0.0			19,64
16	220 kV S/S Bajakhere	Double bus arrangement at Bajakhana	Bajethers evacuates power from GHTP and PGCIL Mogs, so to provide reliability of supply, double busber of 220 KV is proposed as per the requirement of Chief Engineer/ P&M, PSTCI.	16.50	2.48	0.66	19,54	8.25	1.24	0.33	9.82	8.25	1.24 0	.33	9.82	0.00	0.00 0.	0.00	19,64					16.50	2.48 0	66 19.64	0.8	0.0	0.00	0.00	13,64
17	220KV \$/8 Goraya (Addl. 22066KV 100MVA T/F for N-1 compliance)	0.45q7)	Business Apart from this when GGSSTP Roper is down, Consys is fed from Janether via Kotta Jungs- Roptopur-PGCR, Jalencher II Rusmahar is connected in		6.00	1.76	82.33	8.79	132	0.36	10.47	21.9	9 330 0	1.86	26.16	13.19	1.96 0.	16.70	52.13								6	.g7 6.6	1,76	62.33	52.33
								,																							

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	Name		Remarks	Total Cost	17.5		Project Cos							un.	PEX GOST							AND SEX			111-4	CAPITILISA	ION COS	-			-
		1			1		CALE			V. Esp. in			Total	Exp.in 30	024-26		TOTAL	Exp. in 2	1028-34	Grand TOTAL		OTAL Exp.	in 3625-24	1	Yotal Ex	n.in 2024-25	-	TO	TAL Exp. I	n 2025-26	Grand TOT
							100	Coef	EGE	S CCAL	101AL (11)	Cost	1676 1676	13	TOTAL (T2)	Cost	8C-81	DC# 13	TOTAL (TB)	T1+72+73	Cont	EC# 500	TOTAL (T	) Cost	ECA 10	CO TOTA	L (T2)	Cost E	CA IDCA	TOTAL (T3)	T1+T2+T
14	400KV Wede Granthian	Is Stage 1: Creation of 400kV Wedsle Granthian with 2d00kWA, 400220MV RCT (2 20x. 400 k) Bire Isays, 2 no. 400 kV ICE Jusys, 2 no. 400 kV ICE Jusys, 2 no. 200 kV ICE	brown field project (land of existing 220KV 8/3 Wedsk Granthian is to be used) and techical upgradation as such exemption may be given from competitive bidding in line with Ministry of Power, Govt. of India Latter no. 15/2/2017-Trans-Pt(1) dated 15.3.2021 (Annexure-8)	363.22	45.48	12.13	360.83		6.00	0.00	0.00*	75.81	11,37	3.03	90.21	75.61	11.37	3.03	90.21	140.42											
		Addl 1X500 M/A, 400/220 M/ ICT (2 line bays, 1 ICT bays & 2 no. Tie Bays) LILO of 2nd clineut of 400 M/ Moga - Kishanpur line (20lim, Quad moose)																					0							l A	
,	400 kV Makhu	To give second ISTS connectivity	Under Study	0.00	0.00	0.00	E.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	9.00	-	-					0	0.00 0.0	0,00	0.00	0.00
	220 kV Sultenpo	LILO of one circuit 220 kV Karaji-Science city at 220 kV Sultanpur with Moose conductor (28 kms, 0.5 Sq*)	To provide 2nd source of supply to 220 kV Science city as now it is fed radially from 220 kV Karjit, in case towers of the existing fire fat, there will be complete track out in some area of Jahandhar.	40.60	6.09	1,62	48.31	0.00	0.00	0.00	0.00	20.30	3.05	0.81	24.16	20.30	3.05	0.81	24.16	48.31	1						*	0.60 6.0	9 1.62	48.31	48.31
1	To provide second source to 220 kV S/S Badhni Kalan		Under study	6.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00		0.00	0.00	0.00	0.00 6.0	0.00	0	0.00	0 0.00	0.00	0.00
2	220 kV Jadla	LILO of MISS Ganguwei- Ohensreu at Jadla (2 km, 6.4°)	When GGSSTP Roper is down Gorsynthangulistia are for from Jameher vis Kotta Jungs-Kestarpus-PCCR. Jakancher, thereby overlooding the system. This will give additional source of power exposity to Jaded Burga SIG's from Genguerel and 400 KV Chanamau.	4.85	0.73	0.19	5.77	0.00	0,00	0.00	0.00	243	0.36	0.10	2.89	2.43	0.36 0	10	2.89	6.77	+						4	85 0.73	0.19	5.77	5.77
3	220KV PGCIL Panchiule (Barwsla) - Derabassi Line	220KV PGCIL Panchkule (Barwala)-Derabassi Line (D/C) (14km, 0.45q*)	To feed upcoming loads in Laisu, Mubarispur, Dars Beast bet, additional source of exppty in required to give relief to 400 KV Rejours-Laisu creates and Helegach-Mohall Schuth. Tripping Mohals 2 Duku chealt will cause constraint on Laisu Gera beast-Mubarispur-Mohali 2 SC line.	21.23	3.33	0.89	28.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.23	3.33 0.	80	26.45	26.45							22	23 3.30	0.89	26.45	26.46
	Strengthening of	(A) Disconnecting 132 KV Verka - Mal Mandi link and 132	Subject to the approval of NRPC.  In case of failure of supply from Vergal, additional source	0.00	0.00	0.00	0.00	000	0.00	000	0.00																				
	Verks-Mail Mand Link and to establish link with Civil Lines ASR	Verka - Mal Mandi link and 132 kV Verka - Jayantipura link	of power from spare annihible capacity at 220 KV Civil Lines Amritiser not only to Mail Marcii but also Kathurangal and Jayantipur to de-load 132 KV Sarana- Gurdaspur Line.				757A				0.00	0.00	0.00 0		0.00	0.00	2.00 0	00	0.00	0.00	0.00 0.	00 0.00	0.00	0.00	0.00 0.00	0.00	0.0	0.00	0.00	0.00	0.00
		(B) Connecting 132 kV Mel Mandi with 132 kV Jeyantipur		16.59	2.49	0.66	19,74	16.59	2.40	0.66	19.74		1	+			1		-+	19.74 1	6.50 2	9 0.66	19.74		+	_	+	+	H	-	19.74
		(C ) Connecting 132 kV Civil lines ASR with 132 kV Verka. (overheed 15 km + 1 km modern techniques)		12.86	1.81	0.48	14.38	12.08	1.81	0.48	14.38		1			1	+			14.34	2.04 1.1	0.48	14.38		+			+	H		14.38
		(D) Connecting 132 kV Civil lines ASR with 132 kV Mai Mandi. (overhead 26 km = 1 km underground)		26.89	4.03	1.08	32.00		1	1		26.89	4.03 1.0	08	32.00	1	Į.		+	32.00	+	H		26.89	4.09 1.08	32.00	-	+			\$2,60

No.	Substation	Scope of work	Remarks	Total Cost	EC@15%	DCQ4%	Project Cost							CAP	EX COST									10				LISATION COS				_
	Name								TOTAL	Exp. in 202	3-24		Total E	xp,in 29	24-25		TOTAL E	хр. in 20	25-26	Grand TOTAL		TOTAL	Exp. In 2	023-24		Total E	xp.in 202	4-25	TO	OTAL Exp.	In 2025-26	Grand TOTAL
								Cost	ECA15	DC-84	TOTAL (T1)	Coet	EC-8 1	DC@	TOTAL (T2)	Coat	EC.01 1		TOTAL (T3)	T1+T2+T3	Cost	15%	1%	TOTAL (T1)	Cost	15%	MAN T	FOTAL (T2)	Cost	15% 43	TOTAL (T3)	T1+T2+T3
9	Requirement of Capacitor bank at various S/Stre as per CPRI report.	Under study as per CPRI report	First CPDI report on system studies of capaciter requirement in Northern region for the year 2019-20 requirement in Northern region for the year 2019-20 requirement with studiestern for operation banks for Purplet of various sub-station in word capacitor banks for Purplet of various sub-station in word operation commendated in vive of the, PSTCL in wording to furdise the not requirement of oppositor banks to make view bits requirement of oppositor banks to recommendations. Further, PSTCL has started the stratabilities of exhibitor 124 M respective banks at various substations of PSTCL PSDF Andrey shall shall be explored.	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00		0.00	0.00	660	0.00	0.60	0.00	0.00	0.00	6.00 6.0	0 6.96	a.eq
	400 kV Rajpura	4th 500 MVA additional T/F	To schieve ATC/TTC limit of 10000/10500 MW	32.00	4.80	1.28	38,68	5.00	0.75	0.20	5.95	27.00	4.05	1.08	32 13		0.00	0.00	0.00	38.08					32.00	4.80	1.26	38.08				31,01
,	To curtail overbading during N-1 conditions of Shenen-Kangra- Patheniot corridor	Under Study	PSOF knoling, if psemissible shall be availed.	0.90	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0,00	0,00	0.00	0.00	0.00	0.00	0.00	9.00												
	S/C on D/C line from 400 kV Dhuri to 220 kV Bhawanigarh. Bay available at 400 kV Dhur (18 km)		To provide 2nd source of supply to 220 IV (Breweilgarh as now it is hid melally from 220 M Naths. To avoid any blackout at Rheweilgarh du Naths. To avoid any blackout at Rheweilgarh du Naths. To avoid any Blackout at Rheweilgarh du Naths or avoid any Blackout at Rheweilgarh du Naths or avoid any Blackout at Rheweilgarh-haldhe crook.	20.07	3,01	0.80	23.54	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	20.07	3.01	080	23.86	23,84								3		3.01 0.1		23.44
***************************************	220 NV Hoshierpur	2nd source connectivity to Honizapur via DPC on DPC time 120 MV Decay—Honizapur (4d Inn., 0.4 sq.) 5. uning existing MCId Towers	To provide 2nd season of supply to Healthirps: as now it is far faulty from AGD W Redder, in case been any supprop on seizing five, these will be complete bucktuch in sees of viceriangus. Easting mold circuit beens will be used of entry point of bioblarges and East W Broguer be used or entry point of bioblarges and East W Broguer be used or entry point of bioblarges and East W Broguer be used or bioblarges and East W Broguer be used or bioblarge and East W Broguer be used on the season of the season o	52.82	7.92	2.11	62.86	10.56	1.58	0.42	12.57	15,85	2.36	0.63	16.95	28.41	3.96	1.06	31.43	62.86								8	52.82	7.92 2.	11 62.86	
0	220 kV Banga (Nawasheher)	Replacement of 2x50MVA 132/66 kV transformers with 2x100MVA 220/66 kV transformers	As per requirement of PSPCL, because 1950 MVA-1960 MVA, 13266 NV Tife are overlassed. So twoft has been spreed upon as per 7s. no. 4 of 7stb=5 of MOM of TPC meeting 65 NV buses will be connected through USP owner Cable.	18.23	2.73	0.73	21.69	0.00	0.00	0.00	0.00	9.12	1.37	0.96	10.85	9.12	1.37	036	10,85	21.69					9.12	1.37	0.36	10.85	9,12	1.37 0	10.85	21.6
31	220 KV S/S Chajji	Augmenation of 66 kV single bus bar from double conductor to quadruple conductor	Proposal received from CEP&M, PSTCL to increase the leading capacity	6.50	0.08	0.02	0,60	0.50	0.08	0.02	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.40	0.1	50 0.0	0.02	0.80								0.8
12	400KV Ohuri to 400KV Petran	To increase ISTS point of draw for ATC/TTC and injection of nuclear Power from Pateriaba via TBCB Patran	GI.	0.00	0.00	0.00	9.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												2.
33	Double bus be arrangement a 220 kV Butan	double and shifting of 220/13	2	1.86	0.27	6.07	2.14	0.90	0.14	0.04	1.07	0.9	0 0.14	0.04	1,07	0.00	0.00	0.00	0.00	2.14					1.0	0 02	7 0.07	2.14				2.14

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	+		Remarks	Total Cost	EC@15%	DC@4%	Project Cost							CAPEX	COST												N COST	TOTA	L Exp. in 2	2025-26	Grand YOTA
, No.	Substation Name	Scope of work							TOTAL E	жр. In 202	23-24		Total Ex	p.in 2024	1-25	7	OTAL EXP	in 2025-26	Grand TO	TAL		L Exp. in 2			Total Exp.k					TOTAL (T3)	T1+T2+T3
71								Cost	ECA 15	DC@4	TOTAL (T1)	Cost	ECA E	1% T	TOTAL (T2)	Cost E	5% 41	TOTAL (			Cost ECA 159	DCA 45	TOTAL (T1)	Cost	15% 4%	TOTAL	(T2) C	15	475	ioix(is)	
34	220 KV D/C fink between 220 KV S/S Butari and 400 KV S/S Wedals Granthian	220 kV D/C Link between 220 kV S/5 Butari and 400 kV S/5 Wadale Granthian, (35 km, 0.4 Sq* conductor)	To provide II-1 missibility in case of tripping of proposed 220 KV Jandisk-Verpal section or 220 KV PCCR. Jelandhar-Gase section and for downstream execution plan of 400 KV substation Woods Grantitian.	4.39	6.06	1.76	\$2.81	0.00	0.00	0.00	0.00		1,66		13.20	22.19												100 0.0	0.00	0.00	9.00
35	Upgradation of 66 kV Ajnala to 220 kV level	Creation of 220 kV Ajnete with 1X160MVA + 1X100 MVA, 220/96 kV T/Fe (2 line beys, 2 T/F beys & Tno, Bus Coupler Bay)	Proposed by PSPCI. for reliable supply to consumers in the books areas of Ameticar District and to de-load 220 KV Federgain Clausian, approximation of 55 KV Ayrasis was great upon by both PSPCIL and PSTCI. as per Table 4, 55. No. 5 of TPC meeting PSTCI, and PSTCI, as per Table 4, 55. No. 5 of TPC meeting PSTCI, and STCI, as per Table 4, 58. Sp. both STCI MVI AT 8 will be traisled after sparking 100 MVIA Power TPF from some other work where the approximation of 100 MVIA 15 200 MVIA 5.	49.46	7.30	1.95	57.86	4.87	0.73	0.19	5.79	9.73	1.46	0.39	11.58	14.80	219 0.	17.35													
	ŧ	LILO of S/C line 220 kV Fatehparh Churlen - 220 kV Civil Lines Amritsar (LILO length 18 km, 0.45q*)	planneri						0.88		7.02	11.79	1.77	0.47	14.03	17.69	2.65 0	71 21.0	42.	10							-	+			0,00
36	Upgradation of 66 kV Bragta Bhei to to 220 kV level	Creation of 220kV Bragta Bhai Ka with 1X160MVA + 1X100MVA, 220/66kV T/Fe (4 line bays, 2 T/F bays & 1no. Bus Coupler Bay)	Up-gradation of Bragdashani Ka to 220 kV proposed by PSPCL to give relef to 273-05 MVA overcloaded power TVFs at GRIFF Lank Mondabel. PSCC plant to shift them GRIFF hen 68 VV 5/5/5 to 16 Margia 68 has and one of kV 35(b) to Significant see per proposal submitted by CE/PSM PSPCL 5 CE/DS (VHost). PSPCL agreed for the searce in the TPC meeting as the wid also give relief to 220 kV Sighishares.		8.85	2.36	70.17	5.90	0.86	024	742																				
		LILO of both circuits of 220 KV Himmstpura - GHTP Line (Line length 24 km, 0.45q*)	As his 6.0 the Jav 100 MA.P. If will be restabled after specing 100 MA.P. How If The man under work where the separate has not the most Thin an amount of the work that separatelation of 100 MA.P. to 190 MA.P. It is separatelation of 100 MA.P. to 190 MA.P. It is separatelation project outling one of the MA.P. It is separatelation project outling one of the MA.P. It is separatelation project outling to the Servic																												
37	Lipgradation of	Under Study	be given from 15.0.5 move is in an evin imme Pi(1) delect Goot, of both 16.3.2021 (Avcessure-8)  Proposed by PSPCL to feed upcoming both in Mohall area as per MOM of TPC Meeting at 5r no. 10 of Table	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	s 6.	84	0.00 0	00 0.00	0.00	0.00	0.00 0	00 0	00	0.00	0.00	0.00	6.00
	66 kV Aerocity to 220 kV level (GI substation)	0	9												0.00	-	0.00	0.00 01		00	0.00	0.00	0.00	0.00	0.00	000 0	00	2.00	0.00 0.00	0.00	0.00
34	Upgradation of 66 kV Kureli to 220 kV level	Under Study	Proposed by PSPCL in TPC Meeting to de-load 220 KV Kharar by shifting Morinda 5/5 to Kurali Table 15	6.00	0.00	0.00	6.00	6.00	0.00	0.00	0,00	0.00	0.00				-														
39	Upgradation of 66 kV Bhabat 1 220 kV level	f Under Study	As proposed by PSPCL in TPC meeting held on 19.7.2022	6.00	+															.00											
•	220 KV MGG-	3 Aug. of 2x100 220/96 kV T/ with 2x160MVA 220/96 kV T	As per Sr. No. 8 of Table-14 of MOM of TPC Meeting or and due to % loading as discussed in PCC meeting or 26,7.2022	21.04	3.16	0.84	25.04	10.5	4 1.58	0.42	12.54					10.54	1.58	0.42 12	54 2	5,04	10.54	1,58 0.42	12.54					10.54	1.58 0.4	12.54	25.
41	1 220 KV Mau	Add, 22096 KV 100 MVA T	//F Proposed by PSPCL as per er. no. 5 of Table-3 of MO of TPC meeting as loading has creased 90% and visuation of M-1 constitle heling a single transformer	9,12	1.37	0.36	10.45		-			9.12	2 1.37	7 0.36	10.85			-	-	0.85		-		9,12	2 1.37	0.36	0.85				10.

Substation Name	Scope of work	Remarks	Total Cost	EC@159	DC&4%	Project Cost	T	-		-			CAP	PEX COST	-									-	APITILISATION	COST		*	
								TOTAL	L Exp. in 2	2023-24	Т	Total E	Exp.in 20	124-25		TOTAL E	p. in 2025	-26	Grand TOTAL	1	TOTAL EXP.	n 2023-24	Т				TOTAL Exp	in 2025-26	Grand TOT
							Cost	ECOS	DCA4	TOTAL (T1)	Cost	ECO 15%	DCa 4%	TOTAL (T2)	Cost	5% E	CR TO	TAL (T3)	T1+T2+T3	Cost	EC@ DC4	TOTAL (T1)	Cost	ECAN IDO	TOTAL (T				
220 KV Kerterp	ur Aug. of 100 MVA, 220/66 ki T/f to 160 MVA	/ As per sr. no. 7 of Table-4 of MOM of TPC Moeting held on 19.07.2022 loading has crossed 80%	eatra:	1.58	0.42	12.53					10.53	1.58	0.42	12.53					12.53						3				12.53
220 kV S/S Jhoke heriter (Amend No. 11/2021-22)	1 No. Additional 220/95 kV 10 MVA T/F	0	9.12	1.37	0.36	10.85									9.12	1.37 0	36	10.85	10.85		-					9.12	1.37 0.3	6 10.85	10.85
220 kV Maur	Addl. 66/11 KV, 20 MVA T/F	Proposed by PSPCL as per or no. 11 of Table-2 of MOM of TPC Meeting as loading has crossed 80%	3.00	0.45	0 12	1.57					300	0.45	0.12	3.57		1			3,57		+		3.00	0.45 0.1	2 3.57				3.57
220 kV Talwand sabo	i Aug. of 66/11 kV, 12.5 MVA T to 20 MVA	Proposed by PSPCL as per sr, no. 3 of Table-2 of MCM of TPC Meeting hald on 19.07.2022 as loading has crossed 80%.	2.73	0.41	Q11	1.25	273	0.41	0.11	3.25			1			-	-		125	2.73	041 0.11	3.25				H	+		1.25
220 KV Bottlerweis	Aug. of 98/11 KV, 12.5 MVA To to 20 MVA	T PEMMPSTCL proposal as leading has crossed 80%	2,73	0.41	0.11	1.25									2.73	0.41 0.		3.25	1.25		-			-		2.73	0.41 0.11	3.25	3.25
220 KV Baghapurana	Aug. of 68/11 kV, 12.5 MVA T/ to 20 MVA	P&MPSTCL proposel as leading has crossed 60%	2.73	0.41	0.11	1.25					2.73	0.41	0.11	3.25			-	-	1.25	-			2.73	0.41 0.11	3.25				3.25
32 kV Bhogpur	Aug. of 132/11 kV, 12.5 MVA to 20 MVA	Proposed by PSPCI, as per sr. no. 8 of Yable-5 of MOM of TPC Meeting as bading has crossed 60%.	2.60	0.39	0.10	1.09					2.60	0.39	0.10	3.09					3.09	+			2.60	0.39 0.10	3.09				3.09
132 KV Sosen	Addt 12.5 MVA, 132/11 V T/F with CR Extension	As per ar. no. 13 of Yabe-2 of MOM of TPC Meeting. Indication of additional 132011 kV, 10172.5 MVA hotises of artisty planned augmentation of steple 12.5 MVA TPC to 20 MVA should be featible to meet with N-1 configure	3.55	0.53	0.14	4.22	3.56	0.53	0.14	4.22								-	422	3.56	0.53 0.14	4.22							4.72
80 kV Devigarh	Addi 69/11 kV, 12.5 MVA T/F with CR Extension	As per sr. no. 1 of Table-10 of MOM of TPC Meeting as leading has crossed 80%	3.00	0.45	0.12	3.57	3.00	0.45	0.12	3.57			+				-		3.57	3.00	0.45 0.12	3.57		+					1.67
132 KV temkaur Sehib	1 No. 12.5 MVA, 66/11 KV T/F with CR extension	As per ar no. 8 of Table-10 of MOM of TPC Meeting as loading has crossed 80%	3.00	0.45	0.12	3,57	3.00	0.45	0.12	3.57		+	-		+		-	-	1.57	3.00	0.45 0.12	3.57		-		$\mathbb{H}$			1.97
	220 kV SrS Jhobs harber 220 kV SrS Jhobs harber 220 kV Maur 220 kV Maur 220 kV Maur 220 kV Maur 220 kV Maur 220 kV Maur 220 kV Maur 220 kV Maur 220 kV Maur 232 kV Sossen	220 NV Kenterpur Aug of 100 MVA 220/95 KV TR to 100 MVA 220/95 KV TR to 100 MVA 220/95 KV TR to 100 MVA 220/95 KV TR to 100 MVA TF MVA	220 NV Kertarpur Aug of 100 MAVA 220/66 NV Trif is 100 MAVA.  220 NV Kertarpur Aug of 100 MAVA. 220/66 NV Trif is 100 MAVA.  220 NV Side	220 NV Kertarpur	220 NV Kenterpur   Aug. of 100 MVA, 220/06 NV   An per sr. no. 7 of Table-4 of MOM of TPC Meeting held on 19.07 -00/22 heading heat creased 80%.   15.65	220 NV Fortisput   Aug. of 100 MVA, 220/66 NV   As per st. no. 7 of Table-4 of MOM of TPC Meeting held   18-53   1.59   0.42	220 NV Refrequer  Aug. of 100 MVA_20068 6V  As per st. no. 7 of Tables of MCNH of TPC, Meriting Table  on. 19.07.2022 loading has crossed 50%  18.13  1.50  0.42  12.43  220 NV Bits  Aug. of 100 MVA_20068 6V 100  John harbits  (Annual Tip  I No. Additional 20068 6V 100  Addit. 69/11 KV, 20 MVA Tip  Proposed by PSPCL as per st. no. 11 of Table-2 of MCNH of TPC Meriting in booking has crossed 50%  220 KV Macro  Aug. of 69/11 KV, 12.5 MVA Tip  10.20 MV Tableson  Aug. of 69/11 KV, 12.5 MVA Tip  Proposed by PSPCL as per st. no. 3 of Table-2 of MCNH of TPC Meriting in booking has crossed 50%  220 KV Tableson  Aug. of 69/11 KV, 12.5 MVA Tip  PSMMPSTCL proposed as loading has crossed 50%  2272  220 KV Bookin  Aug. of 69/11 KV, 12.5 MVA Tip  10.20 MVA  Aug. of 69/11 KV, 12.5 MVA Tip  10.20 MVA  Aug. of 69/11 KV, 12.5 MVA Tip  10.20 MVA  Aug. of 69/11 KV, 12.5 MVA Tip  10.20 MVA  Aug. of 69/11 KV, 12.5 MVA Tip  10.20 MVA  Aug. of 132/11 KV, 12	220 NV Fortierpor   Aug. of 100 MAA, 2006 NV   Apper at no. 7 of Table-1 of NOM of TPC Meeting held on 19.07 3022 tousing heat creased 80%.   18.53   1.59   0.42   12.43	TOTA	TOTAL Exp.	March   Marc	100   100	Solid   Solid   Total   Solid   Total   Solid   Total   Tota	March   Marc	Marie   Mari	March   Marc	March   Marc	Market   M	March   Marc	March   Marc	Market Ma	March   Marc	Marie   Mari	March   Marc	March   Marc	See 1. 1	Marie   Mari	Part	Part

102 PO2

				Total Cont. 11	CONTRA IN	0004%	Project Cost							CAPEX	COST													TOT	TAL Exp. In	2025-26	Grand TOTAL
	ebstation Name	Scope of work	Remarks	Total Cost					TOTAL Ex	p. In 2023	24		Total Exp	in 2024-	26	TC	TAL Exp.	in 2025-26	Grand TOTAL		TOTAL EX					n 2024-25					T1+T2+T3
								Cont. To	cassin	CAN I	OTAL (T1)	Cost	ECA D	CO TO	OTAL (T2)	Cost E	al DCa	TOTAL (T3)	T1+T2+T3	Cost	ECA E	100 T	OTAL (T1)	Cost	15% IDC	TOTAL	L (T2)	Cost ES	5% 13	TOTAL (T3)	
	- 1		25					J. C.	3	×			15%	34		1	23 23						- 1	- 1	0.36 0.1			+	-		3.12
				2.62	0.39	0.10	3,12		+	-		2.62	0.39 0	.10	3.12	-		0	2,12					202			*				
K	132 kV Au Cotskpurs-1 To	ug. of 12.5 MVA, 132/11 KV 7/ to 20 MVA, 98/11 KV T/F	per Sr. No. 8 of Table-2 of MOM of TPC Meeting held on 19.07.2022																			1									
																									-			1	$\perp$		3.57
		AN BONS MY 125 MVA TV	As per Sr. No. 12 of Table-2 of MOM of TPC Meeting held on 19.07.2022	3.00	0.45	0.12	3,57	3.00	0.45	0.12	3.57			1			11		3.57	3.00	0.45	0.12	3.57								
22	10 kV Kotkarov A	including CR Extension	held on 19.07.2022													7							c. I								
-																			3.57	L				3.00	0.45 0	12 3	.57				3.57
1	220 kV Badni	Add. 60/11 KV, 20 MVA T/I	As per Sr. No. 3 of Table-13 of MOM of TPC Meeting	3,00	0.45	0,12	3.57					3.00	0.45	0.12	3.57				4773												
	Kalen	including CR Edension																		1											
																										1					3.67
			THE HARM	3.00	0.45	0.12	3,57	+		+		3.00	0.45	0.12	3.57			1	3.57					3.00	0.45	1.12	3.57				-
1	220 kV Bernale (Handisya)	Addl. 10/12/5MVA, 69/11 kV Y/F	As per Sr. No. 8 of Table-9 of MOM of TPC bleeting				5 5550																								
													0.45	0.12	3.57				3.57	-	1			3.00	0.45	0.12	3.57	H	+	-	3.57
-	220 kV Ohunaula	Add. 10/12.5 MVA, 65/11 kV T/F with CR extension	As per Sr. No. 4 of Table-10 of MOM of TPC Meetin	9 3.00	0.45	0.12	1,57					1				84 45									-					1	
																							100								
	175				-	0.11	3.25	-	10.00	-		2.73	0.41	0.11	3.25	-	+	_	3.25		1			2.73	0.41	0.11	3.25				3.25
7	220 kV Pakhowel	Aug. of 10/12.5 MVA, 66/11 kV with 20 MVA, 66/11 kV T/F	As per Sr. No. 9 of Table-13 of MOM of TPC Meets	ng _ 2.73	Q.A.																										
A			s																				245	- 60	0.00	000	0.00	26	2 0.393 0	105 3.1	178 6.2
		To replace 12.5 MVA and 20	To control leading of 132 Kv Hamirpur- Choru	el 5.24	0.79	0.21	6,24	2.60	0.39	0.10	3.12			$\sqcap$		2.62	0.39	0.10 3.12	6.24	2	0.3	0.10	3.12	4.0	33		5373E				
54	220 KV Hoshiarpur (Hoshiarpur- Chohal Loading)	MVA, 132/11 KV T/6 With 2002 MVA, 98/11 KV T/Fe	o section					-														-		8							
	1 -													-																6	
												_	_																		

S

				Total Cost	FC@15%	DCG4%	Project Cost	1			-			CAPEX	COST												APITILISAT			AL Exp. In	2025.26	Grand TOTA
Na.	Substation Name	Scope of work	Remarks	Total Cost	EGE IEM			_	TOTAL E	rn. in 202	1-24	-	Total Exp.	in 2024-	25	1	TOTAL Exp	. in 2025-26	•	Grand TOTAL	T	OTAL Ex	). In 202	3-24			In 2024-25				ATTROUS	
								Cost	EC@15		TOTAL (T1)	Cost	ECR DO	n To	OTAL (T2)	Cost	CR1 DO	n TOTA	AL (T3)	T1+T2+T3	Cost	15% ID	CO T	OTAL (T1)	Cost	ECA D	TOTA	L (T2)	Cost EC	DCB 45	TOTAL (T3)	T1+T2+T
	1		=					-	*	×	•		15% 4	*			5% 4				0,30	0.05	101	0.36		-	+	-	-	+		0,34
+	132 kV Swedi	extension in Control room	As per Sr. No. 4 of Table-13 of MOM of TPC Meeting	0.30	0.06	0.01	0.34	0.30	0.05	0.01	0.36									0.36								-		1		
	Katen											40										4						1				
															- 1								1									
			9 1	2							0.96			+			$\dashv$	+	-	0.36	0.30	0.05	0.01	0.96	-	$\vdash$	+		$\dashv$	1		0.36
•	220 kV Malerkotta	extension in Control room	As per Sr. No. 9 of Table-8 of MOM of TPC Meeting	0.36	0.05	0.01	0.36	030	6.05	0,01	0.30						-															
1	DC V													1													2.5					
																								±1								
	30.00		Proposal received from Dy. CE/Grid construction circle.	1.52	0.23	0.06	1,81	1.52	0.23	0.06	1.81	-		+						1,81	1,52	0.23	0.06	1.81								1.81
2000	3 No. Truck mounted hydraulic cranes	Loaders are used for Loading/unloading of various equipment of transmission	PSTCL, Luthare.	0.000																						1						
	i.e. Loader 05 Ton Capacity	system, erection of various electrical substation equipment including Power transformers.																								1						
		The same vehicle may also be utilised as truck for shifting of material and T&P etc.														192									1							1.6
			Proposal received from Dy. CE/Grid construction circle.	1.40	0.21	0.06	1,67	140	0.21	0.08	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.40	0.21	0.06	1.67								1.0
	3 No. Filteration set 6000 LPH capacity with	The filtration sets are used for dehydration and filtration of transformer oil, required during erection of all Power	PSTCL, Ludhiana.				(w)								-																	-
	operating voltage of 415V (3 Phase)	transformers.				1	91																									
																			0.00	476	4.00	0.60	0.16	4.76	+	+	-		7	+		4.7
63	1 No. Vacuum drying Plant/	The Vacuum Drying Plant is suitable for drying the active	Proposal received from Dy. CE/Grid construction circle PSTCL, Luthlane.	4.60	0.60	0.16	4.76	4.00	0.60	0.16	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						1							
	Oven For 100MVA P/T/Fs	parts of transformers in an Autoclave by using the classical drying																														
		method.																														
						0.06	1,67	00	0.00	0.00	0.00	1.4	0 0.21	0.06	1.67	0.00	0,00	0.00	0.00	1,67	0.0	0.00	0.00	0,00	1.4	0 0.21	0.06	1.67	0.00	0.00 0	0.00	1/
64	220 KV S/S Setnewel	arrangement (remaining pert eviation 66 kV lines) needs t	The scope of work also needs to be revised. So, the work at Sr. 90 of 2nd MYT shall be foreclosed and new work with revised scope of work has been needed in new MYT 2023-26.	1,40 d	0.21	0.00	1.50																									
		be shifted to newly erected to be erected 66 kV line bays. Due to involvement of shifting	1																													
		of 66 kV fines the expenditus needs to be revised.	•														1															
				h 0.00	0.00	0.00	0.00	0.0	0.0	0 0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	+	+	1									
65	400 kV Dhanes	Sub-station Capacity enhancement	To increase in ATC/TTC limits as per load growt requirement (Under Study)						-						2:																	
			(Giba simi)												-								1									
		2						1		1						1																

Nan	ime			Total Cost	-	Tal'street Title	Project Cost							CAPI	EX COST											LIAD-11 IL	MATION CO	A STATE OF			
	- 1		177.20.00						TOTAL E	Exp. in 20	123-24	1	Total I	Exp. br 86	1431		TOTAL E	sp. in 1016-	ar .	Grand TOTAL		OTAL Exp.	n 3023-24	T	Total E	p.in 1034	H	ŤĊ	TAL Exp. In	2025-26	Grand TOTAL
								Cost	ECO 15	2004	TOTAL (T1)	Cost	ECA 1834	SCA SS	TOTAL (T2)	Cont	ECA1 IO	CA TO	TAL (T3)	T1+T2+T3	Cost	EC# 1004	TOTAL (TI)	Coet	16%	135 Y	OTAL (T2)	Cost	20 DCA	TOTAL (T3)	T1+T2+T3
66 Replacem Disc Insul 400 AV Pt fines with Polymer Insulators	ulators of PSTCL	*		10.00	1.50	0.40	11,90	2,00	0.30	0.08	2.56	4.00	0.60	0.16	4.76	4.00	0.60	2.16	4.76	11.00	2.00	0.30 0,00	2.36	400	0.60	0.16	4.76	4.00	0.60 0.16	4.76	11,90
67 Makhu, R Mukatsari Behman J Singh (Ma and Dham	Jaosa Valkane),	Anos, 400 kV, 125 MVAR Resolans	To Cortrol Over voltages in Horthern region, matter to being deliberated in CALETS Maetings. PSOF Funding shall also be explored.	0.00			-									-				9.50											i e
68 Minches	laneous	Augmentation of bus bers, extension in control room building, providing room for second source for station buttery sto	Michiena	36.06	450	120	35,70	10.00	1.50	0.40	11.90	10.00	1.50	0.40	11.90	10.00	1.50 0	3.40	11.90	35.70	10.00	1.50 0.46	11.90	10.00	1.50	0.40	11.90	10.00	1.50 0.40	11.90	38.76
69 Misclar	bneous	Augmentation/additions of T/fis at 220/132/86 kV kV S/Stre of PSTCL	Maclineous	30.00	450	1.20	35.70	10.00	1.50	0.40	11.90	10.00	1.50	0.40	11.90	10.00	1.50 0	0.40	11.90	35.70	10.00	1.50 0.40	11.90	10,00	1.50	0.40	11.90	10.00	1.50 0.40	11.90	35.76
70 Mischar	taneous	Additional 220/13/2/66 kV line bays related with feesibility cases or as per PSPCL/PSTCL Requirement	Missilaneous	30.00	4.50	1.20	35.70	10.00	1.50	0.40	11.90	10.00	1.50	0.40	11.90	10.00	1.50 0	).40	11.90	35.70	10.00	1.50 0.40	11.90	10,00	1.50	0.40	11.90	10.00	0.40	11.90	35.70
71 Meclar	laneous	Unforeseen emergency works	Miclineous	30.00	4.50	1.20	35.70	10.00	1.50	0.40	11.90	10.00	1,50	0.40	11.90	10.00	1.50 0	0.40	11.90	35.70	10.00	1.50 0.40	11.90	10,00	1.50	0.40	11.90	10.00	1.50 0.40	11.90	35.76
		Total	A)	1621.09	-		1929.09				298.43				565.52			66	66.66	1530.60			153.24				223.32			626.71	1003.27
iota - Attached or 454.D Works	copy of Ti	PC minutes may be considere	d as Annexure-C			F I						1	0.00			I am I	0.00 0	- I	0.00	0.12	Tan 1	0.00   0.00	0.12	Lom	0.00	om I	0.00	om I	0.00   0.00	0.00	0.12
72		Procurement of Fork lifter for Jernaher Store and Procurement of Weighing Machine for PSTCL Stores	HR.IT, S&D Organisation work	0.12	0.00	0,00	0.12	0.12	0.00	6.00	0.12	0.00	4.00	0.00	0.00	0.00			wARK	*12	0.12	0.00		6,00							
73		Procurement of IT related Hardware items, Software Licences, Cyber security related and unforeseen Capital supenditure	Procurement of IT related Herdwere items, Software Licences, Cyber escurity related and unforessen Capital expenditure	3,90	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	3.00	1.00	0.00 0.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	3.00
	(4)	O Total		3.12			3.12	+-		+	1.12		+	-	1.00		+	+	1.00	3.12	1		1.12	+	++		1.00	-	1	1.00	3.12

			8										DEV COM	*	_											ILISATION		TOTAL S	Exp. in 2025	1-26	Grand TOTAL
			Total Cost	ECO15%	DC@4%	Project Cost							PEX COS		202	Al Eva b	2025-26	Gre	and TOTAL		AL Exp. in				Exp.in 200		1				T5+T2+T3
Substati	on Scope of work	Remarks			-		Ť	OTAL EXP	in 2023-24			tal Exp.in		-					T1+T2+T3	Cost E	DCG	TOTAL	(T1) Co	est EC-61	10CM	TOTAL (1	2) Cost	15%	1% T	OTAL (T3)	1111277
					-+	_	Cost E	15 DO	TO	TAL (T1)	cost EC	OCO S SS	TOTAL	(12)	02	n inca	it-turker t	T		1	MA JA							$\perp$		0.5	1.50
	W W									1000			1			0 0	0.5		1.50	0.5	0 0	0	5 0	0.5 0	0	0.5	0.5	0	0	0.0	Colores
			1,50	_		1.50	0.5	0	0	0.5	0.5	0 0	0	.5	0.5		-		11			1									
orks	To provide/replace ACs in existing 220 KV & 400 KV S/5's	To maintain temperatures for numerical relays	1,30		. 1	*****				- 1	1	1	1	- 1												0	0	-	0	0	2.50
	5/5'*										_	0 0	-	0	0	0 0	0		2.50	2.5	0 0	2	5	0 0	°						
		the analysement installed at 400 KV	2.50	-		2.50	2.5	0	0	2.5	0	.   .										1		- 1							
	To provide man litter cum working platform at new 400 KV S/Ss Le Behman Jasea	For doing work on equipment installed at 400 KV sub-stations	1 35.55		-			1	1	. 1	4		1	- 1								_	.	0.4	0 0	0.4	4 0.	4 0	0	0.4	1.20
	Singh, Dharansu and Roper			1				_	-	0.4	0.4	0 0	+	0.4	0.4	0 0	0.	4	1.20	0.4	0 0	1	0.4						1 1		A
	15 KV Insulation Tester for	Insulation Testers for new and up-coming Sub-	1.20			1.20	0.4	0	0				4			-	1					1					- 1				
	15 No.)	stations						9		- 1										0.2	0	0	02	0.2	0 0	0.	2 0	02 0	0	0.2	0.60
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	T&P for new upcoming S/Se	Required to maintain the 400 Ky, 220 Ky sub- stations by manpower	0.60			0.60	1							- 1	1			- 1				1	1							02	0.60
	and existing S/Ss	Sators by III and				1	1.						-		_		0	0.2	0,60	0.2	0	0	0.2	0.2	0 0	0	0.2	0.2 0	0	02	
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-	T&P for new upcoming S/Se and existing lines inc. new	Required to maintain the 400 Kv, 220 Kv transmission lines by the manpower	,																	1			•		0 0		0	0 0	0 0	0	0.25
	HTLS trees										_	0	0	0	0	0	0	0	0.25	0.25	0	0	0.25	0	0 0				A.		
		and the street of provening insulator discs for	0.25	_	+	0.25	0.25	0	0	0.25	0	1"		701			1				1 1										
	Carners for testing porcelair disc insulators (One No.)	Required for testing of porcelain insulator discs for their healthiness in online mode	1		1 .		-	1	1				1									_	0	0.15	0 0	0	0.15	0 1	0 0	0	0.15
							-	1.	0	0	0.15	0	0	0.15	0	0	0	0	0.15	. 0	0	0									
	Tower footing resistance se	ts To measure the transmission line tower footing	0.15			0.15	0	0			110074								1												0.15
0	(5 Nos i.e one per circle)	resistance by AEE/TL						1	1 1			11							0.15	0.1	5 0	0	0.15	0	0	0	0	0	0 0		0.00
1					-	0.15	0.1	5 0	0	0.15	0	0	0	0	0	0	0	0						1				1			1
51	High end Contact resistan	For the measurement of contact resistance of isolators circuit breakers etc at 400 KV sub-static	0.15 ons.			1					1				1	1 1			1										0 0	0	0.2
	meter (1 No.)			1	1									. 0	0	0	0	0	0.20	0.	2 0	0	0.2	0	0	0	0				
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82	High end Earth tester cur resistivity measurement (	soil For use at 400 KV sub-stations ( No.)				s									1	1									-	0	0	0	0 0	0	0.0
- 1									1.	0.06	+	0	0	0	0	0	0	0	0.06	0	06 0	0	0.06	1							1
	a display of minima	Required for Oil & Diagnostic Testing Lab due to	0.0	6		0.06	0	06 0	0										1			1 1				N.		1 1			
83	Kas (2 Nos.) from OEM	Required for Oli & Diagnostic Testing Lab due to specific per change in IS/IEC oil testing standards.									1	1	1 1						0.30	_	03 0	0	0.3	0	0	0	0	0	0	0	0.
9		The second secon	1			0.30	-	0.3	0 0	0.3	+	0 0	0	0	0	0	0	0	1 02			1 1						1			
84	PCB (polychiormated Bi	ohenyl) Required for Oil & Diagnostic Testing Lab due (IEC change in IS/IEC oil testing standards	to 0.3	30		1							11		1		1 1			- 1					1						0 0
-	test kit for oil as per nev standards	AEC CHARGE IN COLUMN	1			*									1	0 0	1.	0	0.1	5	0.15 0	0	0,15	0	0	0	0	0	0	°	8
				15	+	0.1	5	0.15	0 0	0.15		0 0	0	٥		0 0										1 1			11		
85	Up-grading of HPLC bit ODTL from OEM to co	of Required for Oil & Diagnostic Testing Lab due change in IS/IEC oil testing standards		-	1	20		1		1	1					1	1 1								0 0	1.	0	-	0	0	0
1	passivator and DBDS	etal									_		0 0	0	-	0 0	0	0	0.	10	0.1	0 0	0.1		0 0	1.1					
	new IEC standards	For economic testing of distance protection re	lays of C	0.10	-	0.	10	G.1	0 0	0.1		0								1	1	4				11		1	11		
86	Up-gradation of two so ornicron relay test kits advanced distance rel	For accurate testing of distance protection re all makes using OEM setting tools/ files at 40 yr testing level	XO KV		1		1			1																			1		
	turctions	555800	1					1									-														

r. Na. 8	Substation Name	Scope of work	Remarks	Total Cost	EC@15%	DC404%	Project Cost							CAPE	EX COST			11								C	PITILISATION CO	IST			
	Name				-				TOTAL	Exp. in 2	023-24		Total E	xp.in 202	24-25	T	TOTAL	Exp. In 2	2025-26	Grand TOTAL		TOTAL E	xp. in 25	023-24	- 3	Total Exp.li	2024-25		TOTAL EX	), In 2025-26	Grand TOTA
								Cost	ECO 15	DC@4	TOTAL (T1)	Cost	ECA 12%	DCA 13	TOTAL (12)	Cost	ECM1 5%	1% 1%	TOTAL (T3)	T1+T2+T3	Cost	EC. 8	1%	TOTAL (T1)	Coet	EC & DC	TOTAL (T2)	Cost	15% S	TOTAL (T	3) 11+12+13
87		OTDR (1) for T&C Call under Communication circle	For testing of OPGW	0.28	+0		0.28	0.28	0	0	0.28	0	0	0	0	0	0	0	0	0.28	0.26	0	0	0.28	0	0 0	0	0	0	0 0	0.28
88	12	Medium and Earth testers (25)	For all P&M Divisions to check earth resistance of S/S yard and various other switchgears	0.50	-		0.50	0	0	0	ō	0	0	0	0	0.5	0	0	0.5	0.50	0	0	0	0	0	0 0	0	0.5	0	0 0.5	0.50
			,																					0		0 0	0		0	0 05	0.50
89		Low end thermo-vision cameras for TL gangs (5)	To detect hat points	0.50		1	0.50		0	0	0	0	0	0	0	0.5	0	١	0.5	0.50		0	۱	٠	۰			0.5			
90		Cable fault locator	For newly laid 132 KV cable at Anvitser	2.00			2.00	0	0	0	0	2	0	0	2	0	0	0	0	2.00	0	0	0	0	2	0 0	2	0	0	0 0	2.00
91	- 8	Cable analyser	For power cables of 132 KV at Amritsar	4.00			4.00	0	0	0	0	0	0	0	0	4	0	0	4	4.00	0	0	0	0	0	0 0	0	•	0	0 4	4.00
92		Up-greation of old ULDC flore	For reliable telemetry data to SLDC	5.25	ŀ.		5.25	125	0	0	1,25	2	0	0	2	2	0	0	2	5,25	1.25	0	0	1.25	2	0 0	2	2	0	0 2	5.25
83	-	optic system (Corren.)  Remote Control Operation along with VMS of 400kV SVS's Behmen Jassa Singh, Oherseu and Roper	For RHMI operation of 400 KV SISs- and to reduce operational manpower	3.00			3.00	0	0	0	0	0	0	0	0	3	0	0	3	3.00	0	0	0	0	0	0 0	0	3	0	0 3	3.00
94	-	Up-gradation of server cum	To improve reliability of data telemetry to SLDC as per 104 protocol for seamless flow of data	0.20			6.20	0.2	0	0	0.2	0	0	0	0	0	0	0	0	0.20	0.2	0	0	0.2	0	0 0	0	0	o	0 0	0.20
95		SAS software along with relevant licenses and associated hardware	For trouble shooting tault detections in SAS networking without disturbing online SAS system in subornated S/S's	0.60		-	0,60	0	0	0	0	0.6	0	0	0.6	0	0	0	0	0.60	0	0	0	0	0.6	0 0	0.6	0	0	0 0	0.60
96	·	For Cyber Security- intrusion detection system and hardware based firewall for SAS equipped S/Ss	For cyber security threats of SAS equipped 400 KV S/Se of PSTCL	6.00			6.00	0	0	0	0	6	0	0	6	0	0	0	0	6.00	0		0	0	6	0 0	E	0		0	6.00
97	-	Construction of safety wells between transformers in adjacent beys	For safety of power transformers in case of fire	6.00		3.	6.00	2	0		2	2			2	2			2	6.00		0		2	- CE	0 0				0 2	6.00
98		Transformer diagnosis system with facility of all types of major tests in-built in one kit		0.45		19.	0.45	0	0	0	0	0	0	0	0	0.46	0	0	0.45	0.45	0	0	0	0	0	0 0	0	0.45	0	0 0.45	0.45
		Total	(C)	36.54			36.54				8.74				14.05				13.75	36.54				8.74			14.05			13.75	
		Total [A-		1660.75			1968.75				308.29				580.57				681.41	1570.26				163.10			238.37			641.46	1042.9

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Sr No dai per CIP Orde				op approved for End Control Parted (to Cr	Total Cont of Proposi	Œ	-			2001-00		Capitale	urkon divi 161-42			during 30		Capita	2022-00	aveng .	CM	C aring	2025-04	Capit	elasten da	<b>144</b> 2025-24	Uytu 1023-04	CAPEX	Buting 2024	28	Capit	ulization di	aring 2024	-25	CAPE	during 303	L26	Capitaliz	eton duń	6ng 2026-2	Remerks
Orde				Parlod (to Cr)		Zano Date	-	•	0.1	- 14	Total			Total			Total			Total			Total			Yotal				Total	-		_	otal	orks Exp		Total	Works Esp	FC	To	w .
-	-		L. N. Carl					Works 6	80 qui	100	***	eto Esp	80 100		Works Exp	80 101		Works Ex	8C	00	Works Ex	80 1	00	Eup	BC K	xc	Total	Works Ex	P EC	loc	Works I	tap EC	10C	+	orks Exp	ic ic				+	
nich 3	h haven I	been Completed or Shaly S	e be completed on at before	100			Walte				4		-		(1)	-	-	_	*	+	_	$\vdash$	+	+	+	+	-	-	H	-	$\vdash$	+	+	1	- 1				$\Box$		
2	2537	recurement of 80 Hos negy maters (Emirgent lack Approved through allien No 63/2021)	60 No. Interface Energy reviews were presented in 2001-25 as amongser water for specimen for specimen manager water for specimen and for competition of 6x80 Project by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimed by PAM. This work specimen is the pament of the specimen of the pament back.	0.340	0.200	12 67 300	3023-23	***	•		0.110	64637		0.063	0.1806		0,1606	0,2273		e 0,227	6.000	0.000	1.000 0.00	0.000	0.000	6,000	6,000	0.000	0.000	0.00	0.00	0,000	0.000 0	0.600	0.000	0.000	0.000	9.000	0,000 0	0.000	(i) (i)
1	5 PA 51 TO 10 TO 1	orks of 1st MYT Control Pe	riod (From FY 2017-20)  Supply and installation of 45 nos.  FTUs.	6.480	6.72 (As per WO	72 55.18	2023-24	0.550		0.025	G.57E	0	0 0		0.75	0 03	i5 0,775	15		0,00 1,52	0.000	0.000	1025 0.00	5 1221	0.000.0	060 1,27	1 0,000	0.000	0.000	0.000 0.00	6 0.00	6.000	0.000	0.000	0.000	e.000 e.00	-0.000	0.000	0.000	0.000 G	Scherre for providing 45 inectioned at 5r, No. 1 of CP Total 43 Nos RTUs. I leaded-of The region work for processing the recommendation 2022-23, the price works/sectings are a 2022-24 Veter's and above response contested-of-Perudition as per or been deshacked from the cortise.
	2 5		g Controlled AC system, Furniture is Francis (Inchalling office ACI)	1,760	1.45 (Tertative	02,06.17	2024-26	0.00	75 0		0.040	0.0479	0 (	0.04	03	0	0.3				0.700	0.006	0,000 0.7	1,000	0.000	200 1.00	0,000	0.400		6,600 6,4	0.45	6 0.000	0,000	0.400	0.000	0.000	n 0.000	6,600	0,000	0.000 6	This work is mentioned at Sr. I MTT CP. 10 Nos spill ACs in hose pocumed, New ACs spill effice ACs and certrificed ACs control some shall be pred AC control some shall be pred Sec spilled to be legit upon to required to be legit upon to a spilled diffice. Academic spilled in the spilled acceptance of spilled diffice. Academic spilled in the spilled acceptance of spilled diffice. Academic spilled in the spilled acceptance of spilled diffice.
	3 5	hom 1st MYT)	If equipments including Server, correcter, Displays, software vis. for St, DC, Web alte and is officer.	1	0.43 (Tentalis		3022-33				a	•	0		63		9 03	63	0	0 03						10.0	0 0,000	0.500	0.000	0.000 0.0	0.00	0.000	0.000	0.000	9,000	0,000 0,00	0.000	0.000	0.000		Previding additional display occur. Proceeding of IT item Bulding. Med generation of the IT occur of the IT opaperset shall be man false as per requirement ongoing actuers which is related upon for replacement opalpersed in the SLOC buildings.
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-	Over W	britis of 2nd MYT Control  brokene risalism of SAAMST achama in Punjah (Procumented of resions, communication equipments for Schoolsing, Accounting, the Schoolsing, Accounting, the Schoolsing, Accounting, the Schoolsing of Emritish (Spi over Yorn 2nd MYT)	The state of the s	22.520							0	a	0	0 6	18.52	•	0 18.52	a	0	e 0	4500	0.000	0.000 4.5	00 22.53	0.000	22.5	26 6.60	0.000	0.000	0.000 0.0		00 6.000	0.000	6,200	0.000	0.000 0.0	0.000				The project last been 64.03 2022 and contracts completion to 66.03 2023. It may be completed to 66.03 2023. It may be completed to 66.03 2023. It may be completed to 66.03 2023. It and 677. Allow, the substrate last of 62.03 2022 against and 66.00 2022 against and 66.00 2022 against and 66.00 2022 against and 66.00 2022 against and 66.00 2022 against 66.00 2022 against
		Procurement Replicament of RTUs for various substitions of PSTC (6f nos. RTUs) (5pH over tom 2nd MPT)	Out of 66 No. 45 No. RTU have been precured out of which 46 no have been installed. Fresh lands enquiry shell be fissed for exemising 21 nos. RTUs + 9 nos more RTUs against future/da mages/red fixed RTUs.	13,640	9,68 (Tentall)	26.02.2	2 2024-2	6 524	572 0	•	5.267	0.1549	۰	0 0.11	15		152	6 8290F		6.00 8.3	18 2,500	0.000	0,000 2:	0.00	0.000	0.00	00 234	6 0.200	0 0.000	0.025 0:	25 34	0.00	0.026	3,005	0.000	20 900.0	0.000	0.000	0.000	0.000	Out of 66 No. 46 No. RTT procured out of which 46 no installed. Frank harder any franked for semising 21 of project of the continue of the seal left) and souther 9 no flates/damaged/suffered RTL. This work was hapt to building sequend for notifier
		Education of SLDC Subting (Spill over from 2nd MFT)	Management System) project	1,930												a a					0.50				0.000		oo   0.50			0.000			e ome	1,500	0.03		000 0.430			0.000	Parting Shedit PASS (And Management System) proje
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	-	-	The second second		natical State	9810.55				-				F	-	H		+	+	H	-	-	-	1	-			1					$\Box$			T					
		Purchase of equipment's effective as per treductions of order to purchase like M.DC, MCIP CERT-84, for cyber securifies, or any other unfersoon St.DC retailed sept to.	Purchase of IT equipments observed as per spatialization of cardent agencies.  C. NA,DC, NGSPC, CERT-NI, for ay accordly de. or any other purchase on SLDC probled marks (i.e. for ITIV.), IT, SAMAST, etc.)	and HL	1.5 (Tertal	(01.54.	2075-	26				646	2			4	1		-		0.60	0.000	0.000	soc 0.00	0.500	6.600 0	9.5	0.54	00.0	0.000	500 1	0.00	0.000	1.000	0.500	0,000	0.50	0 0.500	6,000	0.000	0.500
		ULDC Phase III (Under Study)	Replacement of SCADA System. The proposed for this work is an animal at center level. This work will be covered under capital set only in case proposed of executioning to the model to execute.	NI.	As per à	NP, this proje as of which an	of a to be imp under discu	lamented to	y CTU (PGC	CL), 🏎																					0.5			1			0.	-			0.5



# Punjab Government Gazette extraordinary

Published by Authority

CHANDIGARH, MONDAY, NOVEMBER 5, 2018 (KARTIKA 14, 1940 SAKA)

# PUNJAB STATE ELECTRICITY REGULATORY COMMISSION

#### NOTIFICATION

The 5th November, 2018

No. PSERC/Secy/132.-In accordance with para 5.3 of National Tariff Policy, the Punjab State Electricity Regulatory Commission hereby decides that intra-state transmission projects costing more than Rs. 50 Crore shall be developed by State Govt./STU through tariff based competitive bidding.

By order of the Commission Sd/-SECRETARY

1634/11-2018/Pb. Govt. Press, S.A.S. Nagar

(13337)

# No. 15/2/2017-Trans-Pt(1) Government of India Ministry of Power Shram Shakti Bhawan, Rafi Marg, New Delhi- 110001

Dated, 15th March, 2021

To

Addl. Chief Secretaries/ Pr. Secretaries/ Secretaries of Power/ Energy Departments of all the States and UTs.

Subject:

Adoption of Tariff Based Competitive Bidding (TBCB) for intra-State transmission projects- reg.

Sir,

You are aware that Electricity Act 2003 has created conducive environment for investments in all segments of the electricity industry, both for public and private sectors, by removing barrier to entry in different segments. Section 63 of the Electricity Act provides for participation of private sector on competitive basis in different segments so as to encourage private sector investment.

- 2. National Electricity Policy 2005, envisages that role of private participation in generation, transmission and distribution would become increasingly imortant in view of the rapidly growing investment needs of the sector. It also states that the Central Government and the State Governments need to develop workable and successful models for public private partnership for leveraging private investment with the public sector finances.
- 3. In continuation of the National Electricity Policy 2005, Tariff Policy was notified by the Central Government in 2006 for ensuring optimal development of the transmission network to promote efficient utilization of generation and transmission assets in the country, as well as for attracting the required investments in the transmission sector and providing adequate returns.
- 4. In line with above policy framework, Ministry of Power notified "Tariff Based Competitive Bidding (TBCB) Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" under section 63 of the Electricity Act, 2003 on April 13, 2006. Subsequently, Standard Bidding Documents, viz. Request for Qualification (RfQ), Request for Proposal (RfP) and Transmission Service Agreement (TSA), were notified by Ministry of Power, Govt. of India in the year 2008, followed by subsequent amendments in these documents. With this, tariff based competitive bidding started for development of inter-state transmission sector since 2010.
- 5. Subsequently, the Central Government notified revised Tariff Policy in January 2016 with following provisions regarding Transmission System:
  - 7.1 (6) :Investment by transmission developer including CTU/STUs would be invited through competitive bids in accordance with the guidelines issued by the Central Government from time to time.

SE

- 7.1 (7) While all future inter-state transmission projects shall, ordinarily, be developed through competitive bidding process, the Central Government may give exemption from competitive bidding for (a) specific category of projects of strategic importance, technical upgradation etc. or (b) works required to be done to cater to an urgent situation on a case to case basis.
- 6. In line with provisions of the Tariff Policy 2016, generally inter-state transmission systems are developed through competitive bidding only, except for certain categories of transmission system as specified in the Tariff Policy 2016. With adoption of Tariff Based Competitive Bidding for development of transmission system, following key benefits have been observed:
  - (i) Lower Tariff compared to Cost Plus: With large number of bidders participating in development of a transmission project, discovered tariff for a transmission project can be lower than cost-plus tariff by about 30-40%

 (ii) Less burden on government finances: It will attract private investments for development of projects, and scarce government fund can be spared for other priority sectors

(iii) Risk sharing: It encourage risk sharing with private sector. Innovative Technology: It encourages use of advanced technology for improving cost and efficiency

- 7. As intra-state transmission system has major share in the transmission sector in the country, adoption of Tariff Based Competitive Bidding (TBCB) in development of intra-state transmission system can effectively reduce burden on State Governments' finances as well as reduce tariff of intra-State transmission system, leading to consumers' benefit. The matter was also discussed in a meeting taken by Hon'ble Union Minister of State (Independent Charge) for Power and New and Renewable Energy on 03.02.2021 and it was decided to request the State/UT Governments to adopt TBCB in development of intra-State transmission system.
- In light of above and in the larger interest of consumers, it is strongly recommended that tariff based competitive bidding may be adopted for development of Intra-State Transmission system also.
- 9. This issues with the approval of Competent Authority.

Yours faithfully,

(Mritunjay Kr. Narayan)

Joint Secretary to the Govt. of India

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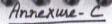
1. Chairpersons of all SERCs and JERCs.

2. Chairperson, CEA, New Delhi.

 PS to Hon'ble MoSP (IC) / Sr PPS/ PPS/ PS to Secretary (Power) / AS (SKGR) I AS (VKD) / AS&FA / Sr Advisor/ All JSs/ CE(Th), MoP

 Technical Director, NIC, Ministry of Power- with the request to host this letter on the website of Ministry of Power

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#### Minutes of Transmission Pla ing Committee Meeting

Meeting of the Transmission Planning Committee was held on 19.07.2022 at PSTCL Conference Room at Head office, Mall Road. Patiala. Following officers were present:-

- 1. Chief Engineer/TS,PSTCL,Patiala
- 2. Chief Engineer/P&M,PSTCL, Ludhiana
- 3. Chief Engineer/West Zone, PSPCL, Bathinda
- 4. Chief Engineer/South Zone, PSPCL, Patiala
- 5. Chief Engineer/Central Zone, PSPCL, Ludhiana
- 5. Chief Engineer/Border Zone, PSPCL, Amritsar
- 7. Chief Engineer/North Zone, PSPCL, Jalandhar
- 8. Chief Engineer/P&M, PSPCL, Ludhiana
- 9. Chief Engineer/Planning, PSPCL, Patiala
- 10. Chief Engineer/TS,PSPCL,Patiala
- 11. Dy. CE/Transmission Planning, PSPCL, Patiala
- 12. SE/Planning,PSTCL,Patiala
- 13. ASE/Procurement,P&M,PSPCL, Ludhiana
- 14. ASE/PO&S, PSTCL, Ludhiana
- 15. ASE/Planning-1,PSTCL,Patiala
- 16. SR.XEN./Planning,PSPCL,Patiala
- 17. SR.XEN./Planning,PSPCL,Patiala
- 18. AEE/Planning-1,PSTCL,Patiala
- 19. AEE/Planning-2,PSTCL,Patiala





#### WEST ZONE

Sr.	MOM
No.	2. GS (NS. West Zong, PSPC). Bathinda apprised that it is not easy to
1	Expansion of 220 kV S/S Moga, 132 kV S/S Moga-1 & 132 kV S/S Moga-2 - CE/DS, West Zone, PSPCL, Bathinda apprised that it is not easy to take 66 kV line from 220 kV Moga. PSTCL asked PSPCL to set up a new 66KV S/S with initial connectivity via power cable for reliability as all the 132 KV S/Ss in Moga were overloaded and there is no long term space for expansion. CE/TS PSPCL & CE/DS (West) Bathinda informed that committee of Sr. Xen/TLSC PSPCL , SE/DS Faridkot and SE/SS Design PSPCL will study the proposal of downstream system of 66 kV at Monopoles/underground Cables for new 66kv S/S nearby Singhawala and PSPCL will send the proposal accordingly. However, PSPCI stressed upon PSTCL for installing 2 nos. 20MVA 66/11 kV T/fs along with 220/66 kV T/F and extension of control room for 11 kV loads.PSPCI also stressed upon PSTCL to expedite the installation of 20 MVA 132/11kV T/F at 132kV Dhalleke.
2	To establish new 220 kV S/S at Fazilka as approved in the 2nd MYT PSTCL informed TPC that railway connection is proposed to be given to TSS Lakhewali from 66 KV Arniwala s/s by constructing a 220 KV Switching station by LILO of one circuit of 400kV Muktsar(220 KV bus). Abohar D/C Line. Apart from this, PSTCL apprised that there is overloading on 220 KV Muktsar (400 KV). Malout S/C line. So, to give relief to this line, load of 66 KV D/C Amiwala is proposed to be shifted to 220 kV Muktsar (400 kV). Abohar line in the second stage at Arniwala. It was also informed to PSPCL that 66 kV Guru Hrasahai Is also being upgraded to 220 KV which will give relief of about 90 MVA to 220 kV Ghubaya S/S & hence there is no urgent requirement of 220 kV near Fazilka. PSPCL informed that by up-grading Guru Harsahai issue of overloading of 220 KV Ghubaya will be addressed but the issue of overloading of 66 KV Ladhuka/Fazilka lines will still remain. CE/DS, West Zone, PSPCL, Bathinda proposed setting up of greenfield substation at Talliwal Bodla between Arniwala- Fazilka and with this there 66 KV Line length to Fazilka will decrease by about 12-15 km in comparison to Arniwala. But still the length of 66 KV Fazilka- Tahliwal will be around 13-15 km. However, it was apprised by PSTCL that if Tahliwala Bodla in Considered the length of 220 KV LILO will increase by about 12- 13 km. Moreover at the proposed land location, Panchayat is not willing to considered the length of 220 KV LILO will increase by about 12- 13 km. Moreover at the proposed land location, Panchayat is not willing to land free of cost and was demanding lease amount of about Rs 15000- 20000/year per acre for first 10 years and subsequent increase give land free of cost and was demanding lease amount of about Rs 15000- 20000/year per acre for first 10 years and subsequent increase give land free of cost and was demanding lease amount of about Rs 15000- 20000/year per acre for first 10 years and subsequent increase there-off for about 10 acres. So PSTCL informed that it
3	220 kV S/S Jhoke Harihar- Upgradation of 66 kV Jhoke Harihar has been planned vide Amend No. 11/2021-22 dated 08.07.21. PSPCL stressed upon early completion of work to address the overloading of 132/66 KV Transformers at 220 KV Ferozepur



4	270 Kv S/S Jeewa Arian- CE/DS West PSPCL had proposed upgradation of 66 kV S/S Jeew Arian to 220 kV S/S to deload 220 kV S/S Ghubaya but PSTCL apprised that upgradation of 66 kV Guru Harsahai to deload Ghubaya can be considered in 3 <sup>rd</sup> MYT 2023-26 of PSTCL as the transfer of land owned by kV Guru Harsahai as it would give relief to both 220 kV S/S Jeew Arian. Therefore, PSPCL agreed to the proposal for upgradation of 66 Ghubaya and 220 KV Jhoke Harihar.
5	Upgradation of 66 kV Bhalaina to 220 KV-Since sufficient land is not available at 66 kV S/S Kauni, so instead of upgradation of 66 kV Kauni, PSPCL proposed upgradation of 66 kV Bhalaina to 220 kV level to de-load 220 KV and 132 KV S/Ss at Muktsar. It was also agreed upon that PSPCL will plan a 66 kV link from sent by CE/P&M, PSPCL to Planning/PSPCL.

Sr.no	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	TABLI Loading anticipated	MOM
1.	220KV Himmatpura	66/11, 2 x 12.5 MVA	89.12%	92.68%	PSTCL apprised that Aug of 12.5 MVA 66/11 kV to 20 MVA alread planned at Sr. No. 54 of 2 <sup>nd</sup> MYT.
2.	132KV Ferozeshah	132/11,2x12.5+1x2 0	85.37%	88.79%	PSTCL apprised that Aug of 12.5 MVA 132/11 kV to 30 MVA
3.	220KV Talwandi Sabo	66/11, 20+12.5 MVA	79.38%	82.56%	PSTCL apprised that Aug of 12.5 MVA 66/11 kV to 20 MVA will be
4.	132KV Samadh Bhai	132/11, 3 x 20 MVA	85.43%	88.84%	included in 3rd MYT 2023-26.  PSTCL apprised that Addl. 12.5 MVA 132/11 kV already planned a Sr. No. 58 of 2 <sup>nd</sup> MYT.
5.	132KV Gholian Kalan	132/11, 1x20MVA	89.50%	93.00%	PSTCL apprised that Addl. 20 MVA 132/11 kV already planned at 5
6.	220KV Baghapurana	66/11, 2x20+1x12.5	79.80%	82.99%	PSTCL apprised that Addl. 12.5 MVA 66/11 kV already planned a
7.	132KV Panj Grayian	132/11, 2x12.5	90.05%	94.14%	PSTCL apprised that Aug of 12.5 MVA 132/11 kV to 20 MVA already
8.	132KV Kotakpura-1	132/11, 1×10/12.5	82.25%	85.54%	planned at Sr. No. 81 of 2 <sup>nd</sup> MYT.  PSTCL agreed that proposal for augmentation of 132/11 kV, 10/12.5 MVA to 20 MVA 66/11 KV shall be included in MYT 2023-26 of PSTCL to reduce 132 KV system





9.	220KV Bajakhana	66/11, 2x20	91 42%	95 00%	PSTCL apprised that loading is less than 80 %, so no augmentatic is required and as and when loading crosses 80%, PSTCL will take
					action accordingly. PSPCL also agreed to the proposal.
10.	Total Control of the	66/11, 2x20	82.8%	86.16%	PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
11.	220KV Maur	132/11, 2x20	77.1%	80.21%	PSTCL agreed to the proposal for installation of Addl. one no. 20 MVA, 66/11 kV T/F in MYT 2023-26 of PSTCL to increase 66 KV System and decrease 132 KV system as suggested by CE/TS, PSPCL.
12.	220KV Kotkarore	66/11, 2x20	90.27%	93.88%	PSTCL agreed to the proposal for installation of additional 66/11 kV, 10/12.5 MVA in MYT 2023-26 of PSTCL.
13.	132 KV Sosan	132/11, 10/12.5	82.24%	85.5%	It was agreed for installation of additional 132/11 kV, 10/12.5 MVA instead of already planned augmentation of single 12.5 MVA T/F to 20 MVA as per request of CE/P&M PSTCL for N-1 contingency
14.	132 KV Srainaga	132/11, 2x12.5	85.9%	89.3%	PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
15.	132KV Kotkapura-2	132/11, 1x20	82.25%	85.54%	PSTCL apprised that there is no space available in yard and control room for additional T/F, as such PSPCL should explore some other alternative or set up a new 66 kV S/S nearby.
16.	132KV IGC Bathinda	132/11, 2x12.5	80.44%	83.65%	PSTCL apprised that Aug of 2X12.5 MVA 132/11 kV to 2X20 MVA already planned at Sr. No. 83 of 2 <sup>nd</sup> MYT.
17.	220KV Abohar	66/11, 2x20	91.12%	94.77%	PSTCL apprised that Addl. 12.5 MVA 66/11 kV is already planned at Sr. No. 40 of 2 <sup>nd</sup> MYT.
18.	132KV Faridkot	132/11, 20+12.5	80.92%	84.16%	PSTCL apprised that Aug of 12.5 MVA 132/11 kV to 20 MVA is already planned at Sr. No. 59 of 2 <sup>nd</sup> MYT.

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1	Sr. Name of	Capacity of T/F's		T	ABLE-3				
1_	1. 220KV	1	loading of	Loading anticipated	The state of the s				
	Talwandi Sabo	220/66 KV, 1x100	89.14%	92.70%	PSTCL apprised that Addl. 100 MVA already covered in N-1 non compliant substations list in 2 <sup>nd</sup> MYT20-23 of PSTCI				
2	Mansa	220/66 KV,2x100 + 1x160	94.49%	98.2%					
3.	Botianwala	220/66KV	88.29%	93.41%	PSTCL apprised that 220 KV substation Budhlada is likely to be pstcl apprised that 1x 100 My/s 225 will de-load Mansa				
4.	12000	0) 220/66,2x100 +	85.23%		replaced with 160 MVA T/F.				
	Ghubaya	1×160	33.2376	86.92%	PSTCL apprised that upgradation of 66 kV substation Guru Har Sahai to 220 kV level is already under study. PSPCL requested for augmentation of 100 MVA to 160 MVA at 220kV Ghubhaya as upgradation of Guru HarSahai will take time but PSTCL apprised that loading is less than 90% pspc.				
5.	220KV Maur	220/66, 1x100	85.73%	89.15%	POPUL also agreed to the				
6.	132KV IGC Bathinda	132/66, 2x50	81.15%	84.39%	PSTCL apprised that 1 No. additional 220/66KV, 100 MVA transformers shall be included in 3 <sup>rd</sup> MYT 2023-26 to meet N-1 criteria.  PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80% psTCl.				
7.	132KV Malout	132/66, 2x25	95.12%	98.92%	PSTCL apprised that leave to the proposal.				
8.	220KV	1226			PSTCL apprised that last year's maximum demand was temporary, otherwise the loading of 132/66 kV T/F is under 80% and PSPCL should also agreed upon this.				
	Ferozepur	132/66, 2x50	101.96%	106.03% F	Also agreed upon this.  Regarding upgradation of Jhoke Hari Har from 66 kV to 220 kV, PSTCL equested PSPCL to give "Right to Use" to them to enable them to start work. PSPCL apprised that right to use of land case shall be put up for pproval of WTDs of PSPCL. Meanwhile, PSPCL may shift some loads from V Ferozepur to nearby substations to manage the overloading at 220				

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9,	132KV 132/66, 20+50 Ferozeshah	79.42%	PS' CL apprised that loading is less than IC %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.

#### NORTH ZONE & BORDER ZONE

NORTH ZONE & BORDER ZONE
TABLE 4
Regarding installation of 4th 132/11 kV, 20 MVA, PT/f at 132 kV S/S Pathankot  PSTCL has already planned 4th additional 132/11 kV, 20 MVA T/F at 132 kV S/S Pathankot vide Amendment No. 21/2021-22 dated 30.9.21.  PSPCL apprised that demolition of the building at 132KV S/S Pathankot and is under process. PSTCL requested PSPCL to expedite it.
Overloading at 132 kV S/S Nawanshahr  CE/DS North Zone PSPCL Jalandhar apprised that66 KV loads have been shifted from 132 kV Nawanshahar to 220 kV S/S Jadla to deload 132 kV Nawanshahr.
PSPCL request for new 220 kV S/S at Ajnala PSPCL intimated that since 220 kV Fatehgarh Churian is loaded beyond 80% in paddy 2022, so 66 kV Ajnala be upgraded to 220 kV level for reliable supply to consumers in the border areas of Amritsar District and to deload Fatehgarh Churian for which PSTCL agreed to the proposal with LILO of one circuit of Fathegarh Churian- Civil Lines Amritsar D/C Line.
PSPCL request for new 220 kV S/S at Gadaipur (Jalandhar)  CE/DS North Zone PSPCL Jalandhar informed that land for a new 220kV sub-station at Gadaipur proposed in last TPC meeting has been refused. So an alternate proposal is being worked out by PSPCL for a new 220 kV S/S to deload the 220 kV Kartarpur and 220 kV BBMB. PSPCL will submit the complete proposal (including 66 kV line connectivity, proposed load and status of land) to PSTCL for further action.
PSPCL request for new 132 kV S/S at Partapura (Jalandhar) PSTCL apprised that Upgradation of 66 kV Chitti to 220 kV to deload 220 kV S/S Badshahpur and 66 kV Chitti has already been planned vide PSTCL/Planning amendment no 7/2022-23.
Augmentation of 132/11 kV, 12.5 MVA to 132/11 kV at 220 kV S/S Sultanpur-PSTCL apprised that Augmentation of 132/11 kV, 12.5 MVA to 132/11 kV, 20 MVA has already been planned vide Amendment No. 07/2018-19.
Augmentations at 220 kV S/S Kartarpur PSPCL has requested for augmentation of 220/66 kV T/F, 100 MVA to 160 MVA as loading has reached more than 80%. PSTCL agreed for the same in the 3rd MYT. Regarding 66/11kV T/F, PSTCL apprised that one no. additional 10/12.5 MVA T/F stands planned.
Augmentations at 220 kV S/S BBMB Jalandhar Regarding augmentation of one no. 100 MVA 220/66kV T/F to 160 MVA, PSPCL agreed to take up the matter with BBMB as the sub-station is under their control.

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9	Up-gradation of 132 kV S/! Fanda to 220 KV S/S
i	It was informed by PSTCL that 132 KV Tanda is proposed to be upgraded to 220 KV S/S with LILO of one circuit of 220 KV Jalandhar-Dasuya line to address issue of low voltage as reported by CE/P&M PSTCL with one 100 MVA auto transformer. It will also provide relief if the generation is 66kV stations Kandhala Jattan and Kalyanpur will be shifted from 132 kV Bhogpur to 220 kV Tanda for which one 100 MVA, 220/66 kV T/F is
10	Additional 20 MVA 132/11 kV transformer 132 kV S/S Kapurthala
11	It was apprised the committee that an additional 20 MVA 132/11 kV transformer has already been commissioned.  Aug. of 1 No. 12.5 MVA to 20 MVA 132/11 kV transformer at 132 kV S/S Kathunangal-PSTCL apprised that Aug. of 1 No. 12.5 MVA to 20 MVA 132/11 kV transformer has already been included in 2 <sup>nd</sup> MVT 2020-23 at Sr. No. 63
12	Overloading at 220 kV S/S Patti- CE/DS Border Zone PSPCL Amritsar proposed up-gradation of 66 KV Toot to 220 KV with LILO of one circuit of 220 KV Makhu-Algon to give relief to 220 KV Patri. PSTCL intimated that the proposal is being included in the 3 <sup>rd</sup> MYF 2023-26. Moreover PSTCL stated that there is no space
13	Addl. 20 MVA 132/11 kV T/F at 132 kV Focal Point Jalandhar- CE/DS North Zone PSPCL Jalandhar informed that maximum demand plus feasibility cases exceeds the 80% loading of 2x20MVA 132/11kV T/fs and requested for installation of addl 20MVA 132/11kV with extension of control room. PSTCL agreed for the same subject to loading crossing 80%.
14	132 kV Kahanpur PSPCL requested for installation of 132/66 kV with extension of control room to provide 66 kV system at Kahanpur for meeting the requirement of industrial consumers. It was decided that the proposal regarding the same will be sent by CE/DS North Zone and PSTCL will

Sr.no	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	Loading anticipated	мом
1.	220KV S/S Noormehal	66/11, 2x20	78.55%	81.69%	PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
2.	132KV Nakodar	132/11, 2x20	88.63%	92.17%	PSTCL apprised that Addl. 20 MVA 132/11 kV has already been plarined vide Amend No. 08/22-23 dated 12.05.22.



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3.	132K√Urban Estate	132/11, 2×20	77.95%	81.07%	PSTCL apprised that loading of the T/f is less than 80%. PSPCL also agreed and it was decided no additional T/f is required to be planned.
4.	220KV Mahilpur	132/11, 1×20 66/11, 1×20	96.60%	100.46%	PSTCL apprised that Addl. 12.5 MVA 66/11 kV already planned at Sr. No. 47 of 2 <sup>nd</sup> MYT stands commissioned.
5.	220KV Banga	132/11, 2×20	96.30%	100.15%	PSTCL apprised that Addl. 20 MVA 132/11 kV already planned vide Amend No. 08/22-23 dated 12.05.22.
6.	220KV Kartarpur	66/11, 2×20	81.68%	84.94%	PSTCL apprised that Addl. 12.5 MVA $66/11$ kV already planned at Sr. No. 48 of $2^{nd}$ MYT and work is in progress.
7.	132KV Khera mandir	132/11, 2×20	78.50%	81.64%	PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
8.	132KV Bhogpur	132/11, 1x20+1x12.5	93.88%	97.63%	PSTCL apprised that Augmentation of 1 No. 12.5 MVA 132/11 KV to 20 MVA will be included in 3rd MYT 2023-26. PSPCL brought out this since M.D. on these T/fs has touched 97.63% as such planning of this work be preponed. PSTCL agreed for the same.
9.	132KV Sri Hargobindpur	132/11, 2x20	80.05%	83.25%	PSTCL apprised that Addl. 20 MVA 132/11 kV already planned at Sr. No. 65 of 2 <sup>nd</sup> MYT.
10.	220KV Butari	66/11, 2x20	82.58%	85.88%	PSTCL apprised that Addl. 12.5 MVA 66/11 kV already planned at Sr. No. 50 of 2 <sup>nd</sup> MYT.

## TABLE 6

Sr. no.	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	Loading anticipated	МОМ
1.	220KV Badshahpur	220/66, 2X100	77.60%	80.70%	PSTCL apprised that Loading was 75.10% (8.7.21) & 80.10% (4.8.21). Further Addl. 100 MVA T/F has been included in 2nd MYT under N-1 contingency, which has been installed.
2	220KV Nawanshahr	132/66, 100	96.90%	100.78%	Already Discussed in Sr. no. 2 of Table No. 4
3	220KV Kartarpur	220/66, 160+100	78.83%	81.98%	Already Discussed in Sr. no. 7 of Table No. 4
4	132KV Bhogpur	132/66, 100	90.78%	94.41%	Already Discussed in Sr. no. 9 of Table No. 4

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5	132KV Sri Hargobindpur	132/66, 5(+16	79.02%	82.18	PSTCL apprised that proposal coupgradation of 132 kV Shri Hargobindpur to 220 kV is under study for evacuation system of proposed 400 kV Wadala Granthian and generation issues at MHP. PSPCL agreed for including it in 3 <sup>rd</sup> MYT 2023-26.
6	220KV Dasuya	220/66, 100	88.00%	91.52%	PSTCL apprised that 2nd TF has already been installed.
7	220KV Mahilpur	220/132, 100	93.89%	97.65%	2 <sup>nd</sup> Auto T/f has already been planned at 220 kV Banga, PSPCL proposed replacement of 2X50 MVA, 132/66 KV transformers at Banga with 2X100 MVA, 220/66 KV Power Transformers to address the issue of overloading. PSTCL agreed for the same subject to the use of power cable to connect 66 KV buses
8	220KV Science City	220/132, 100	86.60%	90.06%	PSTCL apprised that there is no space available for additional T/F requested by PSPCL. So PSPCL may facilitate/arrange adjoining land in Pushpa Gujral Science city.
9.	220KV Butari	220/132, 100	86.87%	90.34%	PSTCL apprised that 220 KV Beas is already planned and an additional connectivity proposal at 220 kV Jandiala with an auto transformer is under study. PSPCL agreed for the same to provide reliable supply to consumers of Amritsar. Work for making 220 kV Bus of Butari as double and shifting of 220/132 KV T/F of Butari to 220kV Jandiala is also proposed.

BOR	DER ZONE			TABLE 7	
Sr. no	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	Loading anticipated	МОМ
1.	132KV Gurdaspur	132/11, 40	78.85%	82.00%	PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
2.	220KV Civil Lines Asr	66/11, 2x20	81.25%	84.50%	PSTCL apprised that Addl. 12.5 MVA 66/11 kV already planned vide Amend No. 08/22-23 dated 12.05.22.
3.	132KV Kathunangal	132/11, 1x12.5+1x20	80.86%	84.10%	PSTCL apprised that Aug of 12.5 MVA 132/11 kV to 20 MVA already planned at Sr. No. 63 of 2 <sup>nd</sup> MYT.
4.	132KV Power Colony, Asr	132/11, 2×20	80.93%	84.16%	PSTCL apprised that Addl. 12.5 MVA 132/11 kV already planned vide Amend No. 08/22-23 dated 12.05.22.

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'	220KV Rashiana	66/11	ין	79.38%	8,1.55	1 - ee opprised that lot 2 16 13 1633 thall 80 %, 30 H
	A STATE OF THE STA	L.,				augmentation is required and as and when loading crosse 80%, PSTCL will take action accordingly. PSPCL also agreed the proposal.
6.	132KV Bhikhiwind	132/11, 1x12. 1x20	566/11,	85.08%	88.489	PSTCL apprised that loading is less than 80 %, so n augmentation is required and as and when loading crosse 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
7. 8.	220KV Algon Kothi	66/11, 1x12.5		79.45%	82.62%	PSTCL apprised that Aug of 12.5 MVA 66/11 kV to 20 MV/ already planned at Sr. No. 46 of 2 <sup>nd</sup> MYT.
ο.	220KV Chohla Sahib	66/11, 40	0	83.00%	86.32%	PSTCL apprised that loading is less than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take action accordingly. PSPCL also agreed to the proposal.
9.	220KV Khasa	66/11, 32.	5	85.57%	88.99%	The apprised that hos of 12.5 MVA 00/11 KV to 20 MVA
10	220KV Chogawan	66/11, 2x2	0	87.35%	90.84%	already planned at Sr. No. 45 of 2 <sup>nd</sup> MYT.  PSTCL apprised that Addl. 20 MVA 66/11 kV already planned vide Amend No. 08/22-23 dated 12.05.22.
					TABLE 8	The second secon
Sr no	Name of S/S	Capacity of T/F's	Overal	Il %age loading of S/S	Loading anticipate d	МОМ
1.	220KV Tibber	220/66, 100		79.00%		Description of the second of t
2.	132KV Gurdaspur	132/66, 2X50		79.40%	82.16% 82.58%	PSTCL informed that 2nd T/F has been commissioned.  PSTCL apprised that the work of upgradation of 220 kV
3.	220KV Udhoke	220/66, 100		77.00%	80.08%	Gurdaspur is under progress.  PSTCL apprised that work of Addl. 100 MVA T/F is under
4.	220KV Majitha	220/66, 100		76.97%	80.05%	PSTCL apprised that Addl. 100 MVA has been included in the 2nd MYT
5. ,	220KV Patti	220/66, 260	HILLIANDS HANDLES	93.11%	96.83%	A COMPANY OF THE PROPERTY OF T
5.	132KV Tarn Taran	132/66, 75		80.47%	83.69%	Already discussed at Sr. No. 12 of Table-4 PSTCL requested PSPCL to shift some 66 KV load from 132 kV
		1434	Comment of Steal's		10	Tarar, Taran to Rashiana PSPCL agreed for the same.

7.	220 KV Wadala Granthian	220/132, 200	100.00%	104.00%	PSTCL apprised to at Addl. 3 <sup>rd</sup> 100 MVA 220/132KV   as already been planned vide Amendment no. 28/2021-22 issued on 9.12.2021
8.	220 Civil Line Asr	220/132, 100	<ul> <li>87.70% (due to temporarily load by PC Patiala)</li> </ul>	91.21%	PSTCL apprised that 2nd T/F under N-1 already stands planned.

### SOUTH ZONE

		TABLE 9					
Sr. No	Agenda item	10.7					
1	220 kV S/S Ablowal	MOM					
	PSPCL requested for extens S/S Ablowal to new 66 kV S from Thapar university is no Power Colony or some other	ion in 11 KV control room building but PSTCL suggested PSPCL to shift some 11 kV feeders load from 220 kV /S Thapar University which will deload 220 kV S/S Ablowal. PSPCL intimated that erection of 11 kV feeders of possible and thus a new 66 kV S/S nearby is being explored. CE/TS PSPCL suggested a new 66 kV S/S at					
2	220 kV S/S Bangan-						
	PSPCL requested for extension in 11 KV control room building along with augmentation of 20 MVA power T/F to 31.5 MVA. PSTCL apprised that 66 kV bays for Sailwala and Banarasi at 220 kV S/S Bangan have been planned vide Amendment No. 34/2021-22 dated 02.02.22 & 10/2022-23 dated 12.5.22. Further PSPCL requested to augment 20 MVA to 31.5 MVA 66/11 kV T/F along with Control room extension but PSTCL intimated that there is no space for Control room extension. CE/South PSPCL agreed for site visit at Bangan to check 12.00 kV S/S nearby.						
3	220 kV S/S Derabassi						
a .	PSPCL requested for augmapprised that loading is les accordingly. PSTCL apprised	entation of one 220/66 KV, 100 MVA to 160 MVA and one 66/11 KV, 20 MVA to 31.5 MVA T/Fs. PSTC than 80 %, so no augmentation is required and as and when loading crosses 80%, PSTCL will take actio that augmentation of 1 No. 20 MVA, 66/11kV to 31.5MVA transformer at 220kV S/S Derabassi has been constructed as the control of 10 No. 20 MVA, 66/11kV to 31.5MVA transformer at 220kV S/S Derabassi has been constructed as the control of 10 No. 20 MVA, 66/11kV to 31.5MVA transformer at 220kV S/S Derabassi has been constructed as the control of 10 No. 20 MVA to 160 MVA and one 66/11 KV, 20 MVA to 31.5 MVA T/Fs. PSTC than 80 MVA to 31.5 MVA to 31.					
l	220 kV S/S Kharar	g wat control room extension.					
	PSPCL requested for extension in 11 KV control room building along with augmentation of 20 MVA power T/F to 31.5 MVA. PSTCL apprised that 1 No. Addl. 20 MVA, 66/11 kV transformer at 220 kV S/S Kharar has been planned vide Amendment No. 8/2022-23 dated 12.5.22 and Augmentation of 100 MVA 220/66kV to 160 MVA has been planned vide amendment no. 25 dated 09.12.2021. PSPCL intimated that land is available near Bhukhdi village but not acquired by PSPCL till now for new 66 kV S/S. Further there is a ROW issue in the 66 kV incoming line at Bhukdi. PSPCL also intimated that there is no scope for further expansion at 220 KV Kharar, so it has proposed to PSTCL to explore the possibility of 66 kV Morinda or Kurali to 220 kV. ROW is not available at Morinda for 220 KV line but Kurali can be upgraded to 220 KV S/S. Proposal may be sent by PSPCL to shift load of Morinda to Kurali.						



5	Overloading at 132 k' / 5/S Ropar
	PSTCL apprised that 2 x 20/25 MVA, 132/66kV transformers already planned at 132kV Chamkaur Sahib vide amendment no. 30/2021-22. PSPCL has intimated that they will explore constructing a new 66 kV S/S in vacant Thermal colony
6	Up-gradation of 66 kV S/S Old Patiala (bus stand) to 220 KV-PSPCL requested for the up-gradation of 66 kV Old Patiala to 220 KV S/S. PSTCL has apprised that Up-gradation of 66 kV Old Patiala to 220 kV level is already planned vide PSTCL planning amendment no 18/2021-22. But Right to use of land is still pending from PSPCL PSPCL has assured to expedite the same.
7	<u>Up-gradation of 66 kV S/S Mubarakpur to 220 KV-PSPCL</u> requested for the up-gradation of 66 kV Mubarakpur to 220 KV S/S. PSTCL has apprised that Up-gradation of 66kV Mubarikpur to 220 kV level already planned vide PSTCL planning amendment no. 1/2022-23 dated 12.5.2022. But Right to use of land is still pending from PSPCL PSPCL has assured to expedite the same.
8	220 kV S/S Barnala (Handiaya) PSPCL has requested for additional 20 MVA 66/11 KV T/F along with control room extension. PSTCL has apprised that loading is more than 85% and agreed to include addl. 10/12.5 MVA 66/11 KV T/F in the next MYT. PSPCL has also intimated that 66 kV Khuddi Kalan has also been proposed to deload 220 kV Barnala.
9	220 kV S/S Malerkotla PSTCL has apprised that loading is within limit. PSPCL has requested for control room extension at 220 kV Malerkotla. PSTCL agreed upon this.
10	Establishing new 220 Kv S/S at Aerocity  PSPCL requested that about one acre land owned by GMADA for a new 66 kV substation may be examined by PSTCL for construction of 220 kV GIS substation Aerocity. PSTCL requested PSPCL to provide a copy of the master plan of land so that the possibility of setting up a new 220 kV GIS substation may be examined.

TABLE 10

			<del>-</del>	ADEL TO	
Sr. no.	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	Loading anticipated	мом
1.	220KV Ablowal	66/11, 2 x 20 MVA	82.325 %	85.16%	As already discussed in sr. No. 1 of Table-9
2	220 KV Devigarh	66/11, 2 x 20 MVA	84.35 %	87.72 %	PSTCL has apprised that Additional 10/12.5 MVA 66/11 KV T/f will be included in 3rd MYT 2023-26.
3	220 KV Dhuri	1x 20 MVA and 1x 12.5 MVA	87.26%	90.75 %	PSTCL has apprised that Aug of 12.5 MVA to 20 MVA already planned at Sr. No. 42 of 2 <sup>nd</sup> MYT.
4	220 KV Dhanaula	2x 20 MVA P/T/F	90 %	93.83 %	PSTCL has apprised that Additional 10/12.5 MVA 66/11 KV T/f will be included in 3rd MYT 2023-26.
5	220 KV Kharar	3x 20 MVA P/T/F	98.6%	102.5%	As already discussed in sr. No. 4 of Table-9





6	220 KV Banı	2x 20 MVA P/T/F	93.79	97 %	PS CL has apprised that Addl. 20 MVA iC/11 kV already planned at Sr. No. 44 of 2 <sup>nd</sup> MYT.
7	220 KV Banga	2x 20 MVA P/T/F	81.5%	84.76%	PSTCL has apprised that Addl. 20 MVA 132/11 kV already planned vide Amend No. 08/22-23 dated 12.05.22.
8	132 KV Chamkaur Sahib	2x 132/11 KV, 20 MVA P/T/F	87.97 %	91.49%	PSTCL has apprised that 2 No. 20/25 MVA, 132/66 kV are planned vide Amend No. 30 dated 14.1.22. Further 1 No. 66/11 kV 12.5 MVA will be included in 3 <sup>rd</sup> MYT 2023-26.
9	132 KV Ropar	2x 132/11 KV , 20 MVA P/T/F+ 1x 66/11 KV P/T/F	82 %	85.31%	As already discussed in sr. No. 5 of Table-9
10	220 KV Ghulal	1x 132/11 P/T/F(12.5)+ 2x 20 MVA 66/11 P/T/F	71.42 %	74.28%	PSTCL has intimated that replacement of 132/11 kV (12.5 MVA) with 20 MVA 66/11 kV at Ghulal is already planned.
11	220 KV BBMB Sangrur	1 x16 MVA and 1x 12.5 MVA 66/11 P/T/F	71.39 %	74.22 %	In the scope of BBMB
12	∠20 KV Kohara	4x20 MVA 66/11 P/T/F	71.60%	82.01%	PSTCL has apprised that Aug of 20 MVA 66/11 kV to 31.5 MVA vide Amend No. 08/22-23 dated 12.05.22 is planned.
13	220 KV Malerkotla	2x20 MVA 66/11 P/T/F	78.45%	82%	As already discussed in sr. No. 9 of Table-9

				TABLE-11	
Sr.	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	Loading anticipated	МОМ
1.	220 KV Toderpur (Rajla)	1×160 MVA, 1×100 MVA	75.32 %	85.21%	PSTCL apprised that the load is less than 80%. PSTCL will plan as and when required. PSPCL also agreed upon this.
2.	220 KV Kaheru (Dhuri)	3x100 MVA	73.15 %	84.61%	PSTCL apprised that the load is less than 80%. PSTCL will plan as and when required. PSPCL also agreed upon this.
3.	220 KV Malerkotla	2×160 MVA	77.69 %	82.9 %	PSTCL apprised that Recently 2X100 MVA t/fs got damaged at Malerkotla and 1X160 MVA T/f was installed in place of these two damaged transformers. 1X100 MVA T/f will be installed as and when required.



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4.	220 KV Kohara	2x1€ 3 MVA	66.09 % )	84.15 %	PSTCL apprised that Kill are will be deloaded with the new S/S coming up at Dhanansu.
5.	220 KV Barnala	2x100 MVA	81.64%	84.90 %	PSTCL apprised that the load is less than 80%. PSTCL will plar as and when required. PSPCL also agreed upon this.
6.	220 KV Rajpura	3x100 MVA	75.83%	85.75%	PSTCL agreed to augment 100 to 160 MVA on the request of PSPCL if loading in the current paddy season crosses 80%.
7.	220 KV Mohali -1	1x160 MVA, 2x100 MVA	86.5 %	89.96 %	PSTCL has apprised that one more 100 MVA has been augmented to 160 MVA.
8.	220 KV Kharar	1x160 MVA, 1x100 MVA	90.24%	93.85 %	PSTCL apprised that Aug. of 1x100MVA with 160 MVA vide Amendment no. 25/2021-22 issued on 9.12.2021.
9.	220 KV Banur	2x100 MVA	84.88%	88.27%	PSTCL apprised that Aug. of 1x100MVA with 160 MVA vide Amendment no. 2/2022-23 issued on 12.5.2022.
10.	220 KV Sunam	1x160 MVA, 2x100 MVA	77.01%	80.1%	PSTCL apprised that the load is less than 80%. PSTCL will plan as and when required. PSPCL also agreed upon this.
11.	132 KV Ropar	2x132/66 KV	92.8%	96.51%	Already discussed in Sr. No. 5 of Table-9
12.	220 KV Ghulal	2x100 MVA, 220/66	81%	81%	PSTCL apprised that Aug. of 1x100MVA with 160 MVA vide Amendment no. 3/2022-23 issued on 12.5.2022.

### CENTRAL ZONE

	TABLE 12
Sr.	220 kV S/S Amloh
No	PSTCL apprised that 1 No. Addl. 20 MVA, 66/11 kV transformer at 220 kV S/S Amloh has been planned vide Amendment No. 08/2022-23
1	dated 12.5.22 along with control room extension as per demand of PSPCL.
2	220 kV S/S Ikolaha  On the request of PSPCL to extend control room along with augmentation of 20 MVA T/F, PSTCL informed that there is no further scope of control room extension and PSPCL should shift some 11 kV load to its nearby substations to deload 220kV S/S Ikolaha. PSPCL informed that shifting of loads is already in process.
3	220 kV S/S Gaunsgarh  On the request of PSPCL to extend control room along with augmentation of 20 MVA T/F, PSTCL apprised that 1 No. Addl. 20 MVA, 66/11 kV transformer at 220kV S/S Gaunsgarh has been planned vide Amendment No. 08/2022-23 dated 12.5.22 alongwith control room extension.
4	220 kV S/S Lalton Kalan On the request of PSPCL to extend control room along with augmentation of 20 MVA T/F, PSTCL apprised that load is less than 80%. PSTCL will plan as and when required. PSPCL also agreed upon this.





220 kV S/S Humbran On the request of PSPCL to extend control room along with augmentation of 20 MVA T/F, PSTCL apprised that 1 No. Addl. 20 MVA, 66/11 kV transformer at 220 kV S/S Humbran has been planned vide Amendment No. 08/2022-23 dated 12.5.22 alongwith control room extension. 220 kV S/S GIS Sherpur, Ludhiana PSTCL informed that Work is in progress and work is likely to be completed by Paddy, 2023. Civil work is in progress. Work allotted in 09/2019 and was to be completed by 03/21. But start of work got delayed due to shifting of 11 kV feeders and dismantlement of old building/ water tank by PSPCL. The site was cleared by PSPCL in March, 2021 and was handed over to the contractor for execution of work. Civil Works in the scope of PSTCL got delayed due to scarcity of material (sand, gravel and good earth). 220 kV S/S Gill Road PSPCL proposed up-gradation of 66 kV Gill Road to 220 kV which will give relief to overloaded 66 KV Lalton Kalan- Gill road D/C lines as upgradation of conductor of these lines to HTLS is not possible as line passes over very thickly populated areas. PSTCL agreed to include the work in 3'd CP of MYT 2023-26 subject to the demolition of the 1912 complaint center and offices of DS organization. CE/DS Central & CE/P&M PSPCL gave consent to demolish/shift the complaint center 1912 to Power colony No-2 Sarabha Nagar. 220 kV S/S Jhordan PSPCL requested PSTCL to set up a new 220 KV S/S at Jhordan on land provided by panchayat to deload overloaded S/S at Pakhowal and overloaded lines from Jagraon as there is no scope for new lines from Jagraon due to ROW issues. PSTCL apprised that Amendment no. 23/2021-22 regarding creation of new 220 KV S/S Jhordan has already been issued by PSTCL. But the work could not be started as the panchayat land had not been handed over to PSTCL. PSTCL has requested to expedite the work of land handover to PSTCL. PSTCL agreed upon installation of 66/11KV T/F along with 11KV VCBs at the s/s as per MQM of CMDs of both the corporations. 220 kV new S/S at 66 kV S/S Bhadson PSPCL proposed new 220 kV S/S by upgrading 66 kV s/s Bhadson to deload 220 kV Amloh S/S to facilitate release of new connections. PSTCL intimated that this work is being included in 3<sup>rd</sup> CIP of MYT 2023-26 to evacuate power from PGCIL Patiala as one additional 500 MVA ICT is 220 kV S/S Pharmaceutical Park, Wazirabad PSTCL apprised that this work is already included in 2<sup>nd</sup> CIP of MYT 20-23. However, work could not be started because land to be handed 220 kV S/S Fatehgarh Neoyan PSPCL proposed a new 220 kV S/S at Fatehgarh Neoyan to make alternative source of supply to 66 KV Substations fed from 220 KV S/S Mandi Gobindgarh-2 on panchayat land. PSPCL was requested to submit the complete proposal (including 66 kV fine connectivity, proposed load and

220 kV S/S Sahnewal

PSPCL requested for augmentation of one 20 MVA T/F to 31.5 MVA. PSTCL apprised that augmentation of 1 No. 20 MVA, 66/11 kV to 31.5 MVA transformer along with control room extension at 220 kV S/S Sahnewal has been planned vide Amendment No. 08/2022-23 dated

13 2 8 kV S/S Ghulal
PSPCL requested for augmentation of one 100 MVA T/F to 160 MVA. PSTCL apprised that augmentation of 1 No 100 MVA P/T/F with 160 MVA
P/T/F at 220 KV S/S Ghulal has been planned vide amendment no. 3/12.5.22

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Sr. no	Name of S/S	Capacity of T/F's	Overall %age loading of S/S	Loading anticipated	МОМ
1	220KV Ajitwal	66/11, 2 x 20 MVA	88.35%	91.88%	PSTCL apprised that Addi. 12.5 MVA 66/11 kt already planned vide Amend. No. 08/22-23 dated 12.05.22.
2	220KV Dharamkot	66/11, 2 x 20 MVA	78.35%	81.48%	PSTCL apprised that the load is less than 80%. PSTCl will plan as and when required. PSPCL also agreed upon this.
3	220KV Badhni Kalan	66/11, 2 x 20 MVA	91.49%	95.15%	PSTCL apprised that additional 20 MVA 66/11 KV T/I will be included in 3rd CP of MYT 2023-26.
5	220KV Swaddi Kalan	66/11, 2 x 20 MVA	85%	88.40%	PSTCL apprised that the load was less than 80% PSTCL will plan as and when required. PSPCL also agreed upon this PSPCL requested for building extension and PSTCL agreed to include the work in MYT.
	220KV Doraha	66/11, 2 x 20 MVA	85.03%	88.43%	PSTCL apprised that Addl. 12.5 MVA 66/11 kV planned vide Sr. No. 56 of 2 <sup>nd</sup> MYT has been commissioned
6	132KV Sihora	132/11, 2 x 20 MVA	79.07%	82.23%	PSTCL apprised that the load is less than 80%. PSTCL will plan as and when required. PSPCL also agreed upon this.
7	220KV Lalton Kalan	66/11, 2 x 20 MVA	82.28%	85.57%	PSTCL apprised that loading is less than 80%. PSTCL will plan as and when required. PSPCL also agreed upon this.
8	220KV Sahnewal	66/11, 3 x 20MVA	83.2%	86.53%	PSTCL apprised that Aug. of 20MVA 66/11kV T/F to 31.5MVA vide Amendment no. 08/22-23 dated 12.5.2022
9	220KV Humbran	66/11, 2 x 20 MVA	77.5%	80.60%	PSTCL apprised that Addl. 20 MVA 66/11 kV has already been planned vide Amend No. 08/22-23 dated 12.05.22 along with control room extension.

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10	220KV Pakhowal	66/11, 2 x 20 MVA, 1x12.5	76.76%	79.83%	PSTCL agreed 10 augment 12.5 MVA T/F to 20 MV/ in 3rd CIP of MYT
11	220KV Bassi Pathana	66/11, 2 x 20 MVA	84.08%	87.44%	PSTCL apprised that addl. 20 MVA 66/11 kV T/F has been planned vide Amend No. 08/22-23 dated 12.05.22.
12	220KV Dhandari Kalan -1	66/11, 2 x 20 MVA	78.5%	81.64%	PSTCL has intimated that Addl. T/F's can be planned at both the stations after the execution of the
13	220KV Dhandari Kalan -2	66/11, 2 x 20 MVA	80%	83.20%	Double Bus bar arrangement.
14	220KV Kohara	66/11, 2 x 20 MVA	80%	83.20%	PSTCL has apprised that Aug of 20 MVA 66/11 kV to 31.5 MVA has been planned vide Amend No. 08/22-23 dated 12.05.22.
15	220KV Goraya	66/11, 2 × 20 MVA	90.75%	94.38%	PSTCL apprised that Addl. 20 MVA 132/11 kV T/F has been planned vide Amend No. 08/22-23 dated 12.05.22.
16	220KV Gaunsgarh	66/11, 2 x 20 MVA	78.33%	81.46%	PSTCL apprised that Addl. 20 MVA 66/11 kV T/F along with control room extension has been planned vide Amend No. 08/22-23 dated 12.05.22.
17	400kV Makhu	400/200/33KV, 2 x 315 MVA (ICT-1 &2)	85.52%	88.94%	PSTCL apprised that 1 No. addl, 500 MVA ICT has already been commissioned

TABLE 14

MOM

	•	Jamalpur	Augmentation of 100 MVA P/T/F to 160 MVA	PSTCL apprised that Work has been completed.
(1) (1)	2	220 KV DK-I	Augmentation of T-1 100 MVA P/T/F to 160 MVA (As per technical data in feasibility case of M/s Arora alloys (RID no. 100000015959), the percentage loading of 2 no. 100 MVA P/T/F's (220/66KV) is becoming 102.07%. The action to augment any 1 no. 100MVA P/T/F be carried out.	In the FCC meeting dated 12.05.2022, it was intimated to FCC that 1 No. 100 MVA 220/66 kV transformer at 220 kV Dhandari Kalan—1 substation can be augmented to 160 MVA by PSTCL subject to the condition that a shutdown of 100 MVA 220/66 kV T/f for 45-50 days is made available by PSPCL at the said substation. PSPCL clarified that a shutdown for so many days will not be possible. PSPCL informed in the TPC meeting that shutdown for 4-5 days
1955	Total Total	1		may be given only after installation of 150 have at DV a

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Sr.

no.

Name of S/S

3	22C KV DK-II	Augmentation of 100 'A'/A P/T/F to 160 MVA (As per technical data in feasibility case of M/s National Industries (RID no. 100000017578), the percentage loading of 2 no. 100 MVA P/T/F's (220/66KV) is becoming 103.03%. The action to augment any 1 no. 100MVA P/T/F with 160 MVA P/T/F be carried out)	2020 - 23	
4	220 KV Ikolaha	Additional P/T/F of 160 MVA	PSTCL apprised that the addl. T/F has been planned under N-1 contingency conditions.	
5	220 KV Amloh	Augmentation of Existing 1x 100 MVA P/T/F with 160 MVA or installing additional 1 no. new 1x100 MVA	PSTCL apprised that work has been completed to augment 100 MVA with 160 MVA vide Amendment no. 11/2022-23 issued on 27.5.2022	
6	220 KV Sahnewal	Augmentation of Existing 1x 100 MVA P/T/F with 160 MVA (As per technical data in feasibility case of M/s Oster India Pvt. Ltd (RID no. 100000018186), the percentage loading of existing P/T/F's (220/66KV) is becoming 91.02%. The action to augment 100MVA P/T/F with 160 MVA P/T/F is carried out.)	PSTCL apprised that Aug. of 100 MVA with 160 MVA has been planned vide Amendment no. 3/2022-23 issued on 12.5.2022	
7	220KV S/S G-3 Mandi Gobindgarh	As per technical data in FCC case of M/s ANJ Metal RECYCLING PVT. LTD., village Tooran, Amloh Road, Mandi Gobindgarh (RID no. 100000008284), the percentage loading of 2 no. 100 MVA P/T/F's (220/66KV) is becoming 91.73%. The action to augment any 1 no. 100MVA P/T/F with 160 MVA P/T/F be carried out.	PSTCL agreed to include the proposal in next MYT	
Mandi 100 MVA with 160 MVA at 220KV S/S G-1 Mandi b		100 MVA with 160 MVA at 220KV S/S G-1 Mandi	PSTCL apprised that Aug. of 2x 100MVA with 160 MVA has been planned vide Amendment no. 6/2022-23 issued on 12.5.2022	



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## ADDITIONAL AGENDA OF PLANNING PSPCL/PSTCL DISCUSSED IN TPC MEETING

	The second secon	INING PSPCL/PSTCL DISCUSSED IN TPC MEETING TABLE 15
1(PSTCL)	Regarding planning of 66 kV bays at 220 kV S/S	MOM
	Sandhwan-132 kV S/S Kotkapura	The work of 132 kV Kotakpura-Sandhwan 220 kV line has been placed a PSPCL TWL 2019-20 Sr. No. 17/WZ/2019-20/ Annexure-A, TWL 2020-21/2021-22 Sr. No. 15/WZ/2020-21 &2021-22/ Annexure-A & TWL 2022-23 Sr. No. 12/WZ/2072-23/Annex-A for which 2 No. 66 kV line bays each at 220 kV Sandhwan and 132 kV Kotakpura are to be executed by PSTCL. In this regard, clarification of 66 kV bays at 220 kV Sandhwan and 132 kV Kotakpura was sought from Dy. CE/Transmission Planning, PSPCL, Patiala.
2(PSTCL)	Regarding extension of control room building at various s/stns. of PSTCL.	PSTCL informed that a proposal of extension of control room building at various 132/220 kV s/stps/56 No.) of pstcl.
P(PSTCL) 6	66kV HTIS lines PSPS I	CE/P&M, PSPCL, Ludhiana to accommodate installation of new VCBs for bifurcation cases/ newly erected 11 kV feeders. In the TPC meeting, PSPCL informed that they will review the list and will send the priority list again to PSTCL.
	66kV HTLS lines: PSPCL has planned replacement of ACSR conductor with HTLS conductor at certain 66kV transmission lines emanating from 220kV substations.	PSPCL agreed to provide the list of 66 kV lines which are planned to be augmented to HTLS.
(PSPCL)	opgradation of 66 KV Bhabat S/S to 220 KV	PSPCL was requested to send a complete proposal to include the up-
(PSTCL)	66 KV Line from 220 KV Kharar to 220 KV S/S Banur	gradation of 66 KV Bhabat S/S to 220 KV in 3 <sup>rd</sup> MYT 2023-26.  This work has been placed at PSPCL TWL 2019-20 Sr. No. 91/SZ/2019-20/Annex-D, TWL 2020-21/2021-22 Sr. No. 99/SZ/2020-21 &2021-22/Annex-D & TWL 2022-23 Sr. No. 125/SZ/2022-23/Annex-D.  1 No. 66 KV line bay for 66 KV Ansal Plaza at 220 KV S/S Kharar has already been planned vide PSTCL amendment No. 38/2014-15 dated 11.03.15. Clarification regarding the requirement of an additional 66 kV bay at Banur has been sought from PSPCL Planning. CE/South informed that no bay is required at Kharar. Further, PSPCL/Planning will also clarify the same.



6(PSTCL)	66 KV Line from 1 220 KV Rashiana to 66 kV Focal Puir.t Taran Taran	It is submitted that this work his been placed at PSPCL TWL 2019-2 ) 5r. No. 21/BZ/2019-20/Annexure-A, TWL 20-21/21-22 Sr. No. 21/BZ/20-21&21-22/Annex-A & TWL 2022-23 Sr. No. 13/BZ/2022-23/Annex-A.  1 No. 66 KV line bay for 66 kV Focal Point Taran Taran at 220 KV S/S Rashiana has already been planned vide PSTCL amendment No. 38/2014-15 dated 11.03.15. Clarification regarding the requirement of an additional 66 kV bay at Rashiana has been sought from PSPCL Planning. PSPCL/Planning will clarify the same.
7(PSTCL)	*	It is submitted that this work has been placed at PSPCL TWL 2019-20 Sr. No. 33/BZ/2019-20/Annex-B, TWL 20-21/21-22 Sr. No. 36/BZ/20-21&21-22/Annex-B & TWL 2022-23 Sr. No. 32/BZ/2022-23/Annex-B.  It was intimated to PSPCL vide this memo No. 1711 dtd. 09/09/20 (email dtd. 10/09/20) & 1314 dtd. 03/06/21 (email dtd. 03/06/21) that there is no space available in the yard at 220 KV Patti for construction of 66 KV line bay. To give relief to Patti, up-gradation of Toot to 220 KV is being included in 3 <sup>rd</sup> CP of MYT 2023-26.
8(PSTCL)		PSPCL requested for up-gradation of 66 KV Chaheru to 220 KV to give relief to Jamsher, Phagwara and Rihana Jattan. PSTCL apprised that upgradation of 66 kV substation Chaheru to 220 kV will be included in 3 <sup>rd</sup> CP of MYT 2023-26.

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1	Upgradation of 132 kV Samadh Bhai to 220 kV level	LILO of both circuits of 220 kV Baghapurana — Bajakhana line (LILO Length8km, 0.4Sq").	PSTCL apprised that this S/S will give relief to Bajakhana Himmatpura. Shifting of load of Deena Sahib and Par Heera Singh from Himmatpura and Bhagta Bhai Ka from Bajakhana. PSPCL informed that 2X160 MVA power T/Fs a overloaded at GHTP Lehra Mohabbat also. So they need to gradation of Bhagta Bhai Ka to 220 KV also along w Samadh Bhai. PSPCL plans to shift from GHTP two 66 S/Ss to Bhagta and one 66 KV S/S to Bhagta Bhai Ka as p proposal submitted by CE/P&M PSPCL & CE/DS (Wes PSTCL agreed for the same

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2	Upgradation of ub kV Bija/Chawa to 220 kV level with installation of 2 X 100 MVA, 220/66 kV transformers.	For evacuation of Dhanansu by LILO of one circuit of Dhanansu- Doraha	PSTCL apprised that proposal of this substation was received from PSPCL for upcoming loads in and around Sahnewal/ Doraha. Therefore it will be included in 3rd CP of MYT 2023-26 by PSTCL.
3	220 kV level with installation of	LILO of both circuits of 400 kV Rajpura – 220 kV Gobindgarh-1 line (HTLS) (8 km, 0.45q" equivalent)	Proposal of up-gradation has been received from CE/Central PSPCL to de-load 220 KV S/S G-1 to facilitate release of new connections. PSTCL agreed to include the upgradation of this S/S in 3rd CP of MYT.
4		LILO of 220 kV Butari – Verpal circuit on multi-circuit/moder techniques (4km, 0.4Sq")	To address the problems in the walled city of Amritsar a committee was constituted by Director/T. As per recommendation of committee to give reliable supply to Amritsar city it was proposed to upgrade Jandiala by shifting 220/132 Kv 100 MVA auto T/F from Butari to inject power at Verka to provide reliable supply in event of constraints in Batala- Verka D/C line or 132 KV bus at Verpal.
5	Upgradation of 132 kV Sri Hargobindpur to 220 kV level with installation of 1 X 100 MVA, 220/132 kV & 1X100 MVA 220/66 KV transformers.	D/C From 400 KV Wadala Granthian (28km, 0.45q")	PSTCL apprised that this substation is required for evacuation of power as a downstream network of 400 kV Wadala Granthian. In addition it will address the problems of constraints at MHP when all the machines are shut due to low water or silt as MHP is a run off the river project. PSPCL agreed to the proposal.
6	Upgradation of 66 kV Giaspura to 220 kV level with installation of 2X160 MVA, 220/66 kV transformers.		Proposal of up-gradation has been received from CE/Central and CE/P&M PSPCL to de-load 220 KV S/S Sahnewal to facilitate release of new connections in Kanganwal area and shift 66 KV Singla Cycles. PSTCL agreed to include the upgradation of this S/S in 3rd CP of MYT.





400KV Wadala Granthian	LILO of both circuits of 400KV Kullu/Banala - Amritsar/Jalandhar line of PGCIL	To increase ATC/TTC limit of State in future
	OR LILO of both circuits of 400KV Jalandhar - Samba line of PGCIL OR	
	LILO of both circuits of 400KV Moga - Kishenpur of PGCIL	



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