

Short Term E-Tender Notice

**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.
(A Govt. of Uttarakhand Enterprise)
CHIEF ENGINEER, OPERATION & MAINTENANCE
GARHWAL ZONE, PTCUL
26 - CIVIL LINES, ROORKEE – 247667**

E-Tender for “Work of Assistance in carrying out miscellaneous routine maintenance works of 220KV Substation SIDCUL (Haridwar) and associate 220KV/132KV Transmission lines” against E-Tender specification No. CE/GZR-09/2026-27.

DOWNLOADED BY: -

M/s / Shri _____

Sr. No.	DESCRIPTION	
1.	Tender No.	CE/GZR-09/2026-27
2.	Name of Work	Work of Assistance in carrying out miscellaneous routine maintenance works of 220KV Substation SIDCUL (Haridwar) and associate 220KV/132KV Transmission lines
3.	Completion Time	12 Months
4.	Tender issuing office	Office of Chief Engineer (O&M) Garhwal Zone, Power Transmission Corporation of Uttarakhand Ltd. " 26-Civil Lines, Roorkee-247667
5.	Tender Fees	Rs. 2,000.00+ 360.00 (GST@18%) =Rs. 2360.00 (Non refundable)
6.	EMD/Bid Security	Rs. 90,000.00
7.	Last date of Submission of Bid	12.08.2026
8.	Last Date and Time of Opening of Bid	13.08.2026
9.	Address & Place of Submission of Bid supporting documents.	Chief Engineer (O&M), Garhwal Zone, PTCUL, 26-Civil Lines Roorkee-247667.
10.	Type of Tender	Short Term Open Tender
11.	Contact & Telephone No. of the Tender issuing office	Phone No.:- 01332-272256
12.	E-mail address of the tender issuing office	ce_oandmg@ptcul.org

**(CHIEF ENGINEER (O&M)
GARHWAL ZONE,
ROORKEE**

Scope of Work:- Work of Assistance in carrying out miscellaneous routine maintenance works of 220KV Substation SIDCUL (Haridwar) and associate 220KV/132KV Transmission lines.

(A) PRE QUALIFYING CRITERIA:-

The tenders/bidders must have to visit site of work & have to submit site visit certificate issued by concerned Executive Engineer(O&M)/Superintending Engineer (O&M) along with technical bid, failing which the bid of the tender may be rejected summarily.

(B) TECHNICAL CRITERIA

1. The Tenderers/bidders should have adequate experience of having successfully completed similar works i.e. AMC of 220KV, 132KV & 33 KV bays & substation equipment's or maintenance of 132KV & above, Lines during last 7 years of any State Transmission Utility (STU), Central Transmission Utility (CTU), Government Power Utility, PSU in which applications are invited should be either of the following:
 - a. Three similar completed works costing not less than the amount equal to Rs. 12.16 Lakh.
Or
 - b. Two similar completed works costing not less than the amount equal to Rs. 15.20 Lakh.
Or
 - c. One similar completed work costing not less than the amount equal to Rs. 24.33 Lakh .
2. The Tenderer should furnish the details of their experience and statement of past works in the form "Details of orders executed during last seven years" annexed. Photostat copies of order and performance reports of these items from various State Electricity Boards/other Govt. Departments also be given.
3. Experience certificate should be issued by an officer not below the rank of Executive Engineer mentioning nature of work, Agreement No., Amount of work, Scheduled time of completion of work and Actual time of completion etc.
4. Electrical "A" Class license Certificate valid for Uttarakhand and validity of the registration should be furnished along with the technical bid.
5. Any partner shall solely or JV jointly shall meet Technical Qualifying Requirement (TQR) of the respective tender

(C) FINANCIAL CRITERIA

1. **Minimum Average Annual Turnover (MAAT):-** The minimum annual average turnover of the tenderer for best three years (36 months) out of last five financial years should not be less than **Rs. 53.82 Lakh.**
2. **ACCESS TO FINANCE:-** The Bidder must demonstrate availability of access to finance for **Rs. 10.76 Lacs** at the time of bidding through a certificate (as per Annexure-A) duly certified by a Chartered Accountants/ Auditor of the company which shall not be more than one month old as compared as compared to the date of submission of the bid.
3. For Financial Qualification Criteria, Joint Venture Partners shall jointly/collectively meet 100% of Financial Qualification Requirement (FQR) of the respective Tender.
Note: The Balance sheet and all other financial documents attested/certified by CAs to substantiate fulfillment of FQR should be within UDIN failing which tender will be summarily rejected without any further reference.
4. A copy of PAN of the firm and all its partners.
5. A copy of GST Registration.
6. A copy of EPF Registration
7. Solvency certificate from Bank (20% of bid value) should be submitted


Executive Engineer
220 KV (O&M) Division
SIDCUL, Haridwar


Superintending Engineer
Operation & Maintenance Circle
PTCUL 26, Civil Lines
ROORKEE-247667

SPECIAL CONDITION OF CONTRACT

1.0 SCOPE OF WORK: -

This specification covers the Maintenance contract of 220/132/33 KV Sub-Station, SIDCUL, Haridwar and 220/132 KV Transmission Lines involving routine work, Non-Shut Down work, Shut Down work & also attending the break downs for a period of 12 Months.

Note: Any breakdown which shall be considered major breakdown by Engineer In-charge shall not be cover under this maintenance contract.

2.0 MAN POWER: -

The contractor will deploy the man power as per BOQ whenever required by Engineer In-charge.

2.1 Contractor will ensure to attend all routine, Non-Shut Down and Break Down work with sufficient Man power as per direction of Engineer In-charge. If additional deployment is necessitated, contractor will arrange the same by out sourcing manual labour.

2.2 Contractor will arrange the transport for their personnel/material/T&P.

3.0 PENALTY CLAUSE: -

In case of Non deployment of man power Engineer In-charge may arrange the man power at the risk and cost of contractor. In this condition whichever amount will incur shall be paid by contractor or shall be deducted from the RA Bills of contractor.

Note: To ensure faithful execution of contract 10 % amount of contract value shall be deposited in advance at the time of agreement in the form of FDR/ Bank Guarantee which shall be pledge in favour of PTCUL and shall remain valid during entire contract period. This FDR/ Bank Guarantee shall release after successful completion of maintenance contract.

4.0 WORKMEN'S COMPENSATION/INSURANCE: -

The insurance shall protect the contractor against all claims applicable under the worker's compensation act 1948 (Govt. of India). This policy shall also cover the contractor against claim for injury, disability, disease or death of his sub-contractor's employee, which for any reason are not covered under the worker's compensation act 1948. The liability shall not be less than:

Workmen's compensation as per statutory provision.

Employee's liability as per statutory provision.

All the safety rules shall be observed by the contractor and PTCUL shall not pay any compensation to the contractor's workmen in case of any accident.

4.1 COMPREHENSIVE AUTOMOBILE INSURANCE: -

This insurance shall be in such a form to protect the contractor against all claims for injury, disability, disease or death to members of public including the owner's man and damage to the property of other arising from the use of motor vehicle during on or off the site operations irrespective of the ownership of such vehicles. The minimum liability covered shall be as herein indicated-

- (a) Fatal Injury _____ Rs. 100,000.00 each person.
Rs. 200,000.00 each occurrence.
- (b) Property Damage _____ Rs. 100,000.00 each occurrence.

5.0 LABOUR LAW: -

The contractor shall ensure payment of labour wages as minimum wages act. Child labour shall also not be permitted at site under any circumstances.

6.0 PROTECTION OF PROPERTY AND CONTRACTOR'S LIABILITY: -

The contractor shall be responsible for any damages of T&P, Material and Equipment's of PTCUL resulting from his operations. He shall also responsible for protection of all persons including members of public and employees of the owner and the employees of other Contractor and Sub-Contractor and all public and private property.

7.0 Non-availability of Man power as per AMC of Sub-station & lines will incurr:

1. Rs. 1000/day will be deducted for highly skilled labour.
2. Rs. 700/day will be deducted for skilled labour.
3. Rs. 400/day will be deducted for unskilled labour.

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TECHNICAL SPECIFICATION FOR MAINTENANCE CONTRACT OF 220/132/33 KV SUBSTATION SIDCUL ,HARIDWAR

Note : For the work "Assistance in carrying out miscellaneous routine maintenance works of 220/132/33 KV Substation SIDCUL ,Haridwar" significance of 1 No. operation will be as following :-

- a) For the work of Sl. No. 1 (Assistance in Daily Routine works at 220/132/33 KV Substation SIDCUL, Haridwar One No. operation signifies deployment of 1 Skilled manpower for a period of 8 hours.
- b) For the work of Sl. No. 2 (Assistance in Shutdown and other works of 220/132/33 KV Substation SIDCUL, Haridwar One No. operation signifies deployment of 2 highly skilled and 3 skilled manpower for a period of 8 hours.

SCOPE OF WORK :-

This specification covers the maintenance of 220/132/33 KV Sub-station SIDCUL, Haridwar involving routine work like, Non Shut Down and Shut Down jobs & also attending the normal break downs of CT, PT & LA etc. as per following specifications-

Note : Any Breakdown which shall considered major breakdown by Engineer In-charge shall not be covered under maintenance contract.

ROUTINE WORKS: -

1. Maintenance of different type of Battery set & chargers etc.

The Following work has to be done for proper maintenance of battery set and charger-

- i) Regular cleaning of different type of battery sets.
- ii) Apply petroleum jelly on battery terminals after cleaning of terminals by brush.
- iii) Routine checking of voltage reading of all battery sets and entered in battery reading register.
- iv) Routine checking of boost and float charging of Battery chargers.
- v) Checking of healthiness/capacity of battery sets at regular intervals by switching off the chargers.
- vi) Any other work as per site requirement or as per direction of site In-charge.

SHUTDOWN WORKS: -

1. Maintenance of Transformers.

- i) Checking of oil level in Main & OLTC Conservator tank and filling if found low.
- ii) Checking of oil level in HT/LT bushings.
- iii) Checking and rectification of minor oil leakage/seepage from various place of T/F's.
- iv) Checking and Tightening of all bushing clamps.
- v) Checking of auto/manual operation of cooling fans.
- vi) Checking of cooling fans & rectification of fault if found.
- vii) Checking of working of ON load tap changer & rectification of fault if found.
- viii) Checking of cubical heater and replace if found defective.
- ix) Cleaning of bushing polyclone insulator by CTC & checking of damage.
- x) Testing of insulation resistance with the help of megger.
- xi) Checking of neutral and body earthing.
- xii) Checking of BDV of Transformer oil.
- xiii) Cleaning of Transformer body.
- xiv) Checking of all connections in cubical and apply CRC on all connections.
- xv) Lubrication of all moving parts if required.
- xvi) Checking of WTI & OTI capillary pockets.
- xvii) Checking of working of WTI & OTI.
- xviii) Checking of earth resistance.
- xix) Taking of oil sample in bottles and sealing etc. for testing by PTCUL.
- xx) Any other work as per site requirement or as per direction of site Incharge.



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2. Maintenance of Circuit Breakers.

- i) Checking of air pressure leakage.
- ii) Checking of gas pressure leakage.
- iii) Cleaning of polycone insulator by CTC and checking of damage.
- iv) Checking and tightening of clamps.
- v) Checking & tightening of cable connections in cubical.
- vi) Checking of AC & DC supply of CB's.
- vii) Checking and tightening of structure nut & bolts.
- viii) Checking and tightening of earthing.
- ix) Apply CRC on all connections in cubical.
- x) Checking of local/remote operation.
- xi) Checking of tripping/closing system.
- xii) Taking of timings of breaker by timer and contact resistance by CRM.
- xiii) Taking measurement of earth resistance.
- xiv) Any other work as per site requirement or as per direction of site Incharge.

3. Maintenance of Isolators.

- i) Cleaning of polycone insulator by CTC and checking of damage.
- ii) Checking and tightening of clamps.
- iii) Replacement of rusted nut/bolts if found.
- iv) Checking of male/female contacts and replace if found damage/defective.
- v) Apply petroleum jelly between male/female contacts.
- vi) Checking of earth link and its jaws.
- vii) Lubrication of all moving parts.
- viii) Alignment of isolator and earth link.
- ix) Checking of driver motor in cubical.
- x) Checking and tightening of all connections in cubical.
- xi) Apply CRC on all connections in cubical.
- xii) Any other work as per site requirement or as per direction of site Incharge.

4. Maintenance of CT/PT/LA.

- i) Checking of oil level & filling if found low.
- ii) Checking of oil leakage and rectification if found.
- iii) Cleaning of polycone insulator by CTC and checking of damage.
- iv) Checking and tightening of clamps.
- v) Replacement of rusted nut/bolts if found.
- vi) Checking and tightening of earthing.
- vii) Checking of surge counter.
- viii) Taking reading of surge counter.
- ix) Any other work as per site requirement or as per direction of site Incharge.

5. Maintenance of Station Transformers.

- i) Checking of oil level in Conservator tank and filling if found low.
- ii) Checking and rectification of minor oil leakage/seepage from various place of T/F.
- iii) Checking and Tightening of all bushing clamps.
- iv) Cleaning of bushing polycone insulator by CTC & checking of damage.
- v) Testing of insulation resistance with the help of megger.
- vi) Checking of neutral and body earthing.
- vii) Checking of BDV of Transformer oil.
- viii) Cleaning of Transformer body.
- ix) Checking and maintenance of fuse set.
- x) Checking of earth resistance.
- xi) Any other work as per site requirement or as per direction of site Incharge.



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6. **Replacement of Damaged / Burnt / Defective 220/132/33 KV different type of jaw, blades, Connectors and clamps etc. of 220/132/33 KV Breaker/ Isolator/CT/PT/LA /Wave trap /Bus Bar etc.**

Replacement of Damaged/burnt/defective 220/132/33 KV & 33 KV different type of jaw, blades, connectors and clamps including opening of existing Damaged/burnt/defective jaw, blades, connectors and clamps and fixing of new jaw/blade/connector/clamp with proper alignment. Complete work as per site requirement or as per direction of site Incharge.

7. **Replacement of Damaged/Burnt/ Defective 220/132/33 KV different type of jumpers etc.**

Replacement of Damaged/Burnt/Defective different type of jumpers including shifting of conductor from store to site, opening of existing damaged/burnt/defective jumpers, cutting of jumper & fixing of new jumper as required on existing place with proper clamping and shifting of balance material from site to store. Complete work as per site requirement or as per direction of site Incharge.

BREAK-DOWN WORK

1. **Replacement of Defective/Damaged CT:-** The work includes opening/dismantling of existing defective/damaged 220/132/33 KV and 33 KV CT after opening of existing jumpers, cable connections & earthing, shifting to store from site, shifting of new 220/132/33 KV CT from store to site, erection of new CT's including cabling, earthing & Jumpering. Complete work as per site requirement or as per direction of site Incharge.
2. **Replacement of Defective/Damaged PT:-** The work includes opening/dismantling of existing defective/damaged 220/132/33 KV PT after opening of existing jumpers, cable connections & earthing, shifting to store from site, shifting of new 220/132/33 KV PT from store to site, erection of new 220/132/33 KV PT including cabling, earthing & Jumpering. Complete work as per site requirement or as per direction of site Incharge.
3. **Replacement of Defective/Damaged LA:-** The work includes opening/dismantling of existing defective/damaged 220/132/33 KV Lightning arrester after opening of existing jumpers, surge counter & earthing, shifting to store from site, shifting of new 220/132/33 KV Lightning arrester from store to site, erection of new 220/132/33 KV Lightning arrester including fixing of surge counter, earthing & Jumpering. Complete work as per site requirement or as per direction of site Incharge.

Note: 1. Attending the breakdown in both time day and night or as per decision of engineer in-charge or his authorised representative Subject to the site condition and natural calamity.
2. Any breakdown which shall be considered as major breakdown by Engineer In-charge shall not be cover under this maintenance Contract.
3. If Hydra/ crane is used for safe and early completion of work it shall be provided either by PTCUL of contractor for which extra payment shall be made after approval of competent authority.

T&P :-

All the T&P required for proper completion of above works shall be arranged by the contractor. Only heavy T&P like oil testing set, Timer, CRM, Earth Resistivity Tester, Thermovision camera, Megger, gas leakage detector, pulley block, blower, rope and ladder etc. shall be provided by the PTCUL. T&P like Loan mover, Talwar, ceaser, dranti, Pathal, spade, Tasla, spanner set etc. shall be arranged by the contractor for proper completion of work.



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MATERIAL :

The entire consumable items like conductor, different type of jaws, blades, connectors & clamps, CTC, CRC, Petroleum Jelly, electrolyte, Rust cleaner, lubricants, Transformer oil, silica gel & lighting material shall be issued by the department as per actual requirement. Consumable items like washing & cleaning material (detergent powder, surf, vim, phenyl, harpic, naphthalene, odonil, broom, wiper, polish, Colin, old dhoti, duster, cloth etc.) shall be provided by the PTCUL for proper completion of work.

WATER AND ELECTRICITY: -

For proper completion of work water and electricity shall be provided by the department free of cost.




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**TECHNICAL SPECIFICATION FOR MAINTENANCE CONTRACT OF 220/132 KV
TRANSMISSION LINES ASSOCIATES WITH 220 KV SUB-STATION, SIDCUL,
HARIDWAR**

Note: *For the work "Assistance in carrying out miscellaneous routine maintenance works of 220 KV & 132 KV Transmission Lines associated with 220 KV Sub-station, SIDCUL, Haridwar" 1 No. operation signifies deployment of 2 skilled and 3 unskilled manpower for a period of 8 hours.*

SCOPE OF WORK: -

This specification covers the maintenance contract of following 220 KV & 132 KV Transmission Lines associated with 220 KV Sub-station, SIDCUL, Haridwar.

Maintenance of lines involving routine work like patrolling of line, Non Shut Down and Shut Down jobs & also attending the break downs of conductor & earth wire etc. as per following specifications-

Note: *Any Breakdown which shall be considered major breakdown by Engineer In-charge shall not be covered under Maintenance Contract.*

ROUTINE WORKS: - Ground patrolling of entire lines on regular or requirement basis or as per the instruction of Engineer in charge of the line under maintenance contract.

During patrolling the following works are to be attended.

- a) Tower to Tower ground patrolling of entire line.
- b) Visual inspection of main conductor & its accessories, earth wire & its accessories, Jumpers and disc insulators etc.
- c) Inspection of foundation, revetment wall and tower members.
- d) Preparation and submitting the patrolling report in specified format and also submit the photograph of every patrolled tower in soft copies.
- e) Cutting and removing of wild plants, bushes/ bail and trees etc. from tower base.
- f) Lopping/chopping and cutting of tree branches/twig coming in right of way of line to maintain the minimum clearance.
- g) Detection and recording of shut down faults.
- h) Detection and recording the status of number, phase, danger plates, Vibration damper & Tack welding.
- i) Fixing of number, phase & danger plates where required.

SHUT DOWN WORKS: -

1. Replacement of damaged/broken/puncture disc insulators

Replacement of damaged/broken/puncture disc insulators of Single/ Double tension fitting complete work including shifting the material from store to site, balance material back to store, dismantling /lowering down of complete string and again hoisting.

2. Replacement of minor snapped/damaged/defective/burnt conductor

Replacement of minor snapped/damaged/defective/burnt conductor of single/double tension fitting by using new S.T.F./D.T.F./mid span joint/repair sleeves and conductor etc. complete work including shifting the material from store to site, balance material back to store, cutting of conductor, pressing of S.T.F., making of mid span joint, De-stringing & re-stringing of conductor of 220 KV & 132 KV lines.

3. Replacement of broken/defective earth wire or earth wire fittings

Replacement of broken/defective earth wire or earth wire fittings by using new single tension fitting of earth wire, mid span joint and earth wire etc. complete work including shifting the material from store to site, balance material back to store, cutting of earth wire, pressing of S.T.F., making of mid span joint, De-stringing & re-stringing of earth wire of 220 KV & 132 KV lines.

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4. Replacement of damaged/burnt/defective jumper

Replacement of damaged/burnt/defective jumper by using new jumper cones/PG clamps and conductor of 220 KV & 132 KV lines complete work including shifting the material from store to site, balance material back to store, cutting of conductor, pressing of jumper cone, disconnection & connection of jumper etc.

5. Repairing cum tightening of defective/ Loose jumper

Repairing cum tightening of defective / Loose Jumper by tightening of loose nut & Bolt of jumper cone or P.G clamp (Replaced the burnt or melted nut bolt or P.G clamp if required) of 220 KV & 132 KV lines. Complete work including shifting the material from store to site, Balance material back to store disconnection & connection of jumper if required etc.

BREAK-DOWN WORKS: -

1. Attending the break down of broken/snapped conductor

To attend the breakdown of broken/snapped conductor in minimum possible time the following works has to be done:-

- i) Patrolling of line after tripping/declaration of line under breakdown immediately.
- ii) Shifting the material from store of PTCUL to breakdown site in minimum possible time including loading, unloading & head loading.
- iii) Replacement of old damage conductor by using new conductor complete work including cutting the conductor, pressing the new S.T.F., making of mid span joint, pressing of repair sleeves if required, disconnection of jumper, pressing of jumper cone, connection of jumper & restringing of conductor in minimum possible time at various location of above lines.

2. Attending the break down of damaged/broken/puncture disc insulators

To attend the breakdown of damaged/broken/puncture disc insulators in minimum possible time the following works has to be done:-

- i) Patrolling of line after tripping/declaration of line under breakdown immediately.
- ii) Shifting the material from store of PTCUL to breakdown site in minimum possible time including loading, unloading & head loading.
- iii) Replacement of damaged/broken/puncture disc insulators of Single/ Double tension fitting complete work including shifting the material from store to site, balance material back to store, dismantling /lowering down of complete string and again hoisting.

3. Attending the break down of broken/snapped earth wire

To attend the breakdown of broken/snapped earth wire in minimum possible time the following works has to be done:-

- i) Patrolling of line after tripping/declaration of line under breakdown immediately.
- ii) Shifting the material from store of PTCUL to breakdown site in minimum possible time including loading, unloading & head loading.
- iii) Replacement of old damage earth wire by using new earth wire complete work including cutting the earth wire, pressing the new S.T.F., making of mid span joint, pressing of jumper cone, disconnection of jumper, connection of jumper & restringing of conductor in minimum possible time at various location of above lines.

4. Attending the break down of broken/snapped /burnt jumper

To attend the breakdown of broken/snapped /burnt jumper in minimum possible time the following works has to be done:-

- i) Patrolling of line after tripping/declaration of line under breakdown immediately.
- ii) Shifting the material from store of PTCUL to breakdown site in minimum possible time including loading, unloading & head loading.

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- iii) Replacement of old damage jumper by using new conductor, Jumper cone/PG clamps complete work including cutting the conductor, pressing the new jumper cones, disconnection of jumper and connection of jumper in minimum possible time at various location of above lines.

5. Attending the breakdown of tree or tree branches which is fallen on the 220 KV & 132 KV line/ Tower / Jumper /Earth wire

To attend the breakdown of tree or tree branches which is fallen on the 220 KV & 132 KV line/ Tower / Jumper /Earth wire in minimum possible time the following works has to be done.

- i) Patrolling of line after tripping/declaration of line under breakdown immediately.
- ii) Shifting the T&P (as axe, rope, saw etc) required for removing the tree or tree branches from line /Tower/ Jumper/earth wire.
- iii) Remove the tree or tree branches from line /tower/jumper / earth wire by cutting or pulling (as applicable or possible) in minimum possible time at various location of above lines.

- Note:** 1. Attending the breakdown in both time day and night or as per decision of engineer in-charge or his authorised representative Subject to the site condition and natural calamity.
2. Any breakdown which shall be considered as major breakdown by Engineer In-charge shall not be cover under this maintenance Contract.
3. As the maintenance contract is mainly labour contract and contractor has to provide the labour therefore transport charges for cartage of T&P and material shall be paid by PTCUL however mobilization of labour as per requirement of PTCUL is in the scope of contractor.

T&P: -

All the T&P required for proper completion of above works shall be arranged by the contractor.

MATERIAL: -

All the consumable item like conductor, earth wire, Single/double tension fittings, PG clamps, insulators, earthing lug, mid span joint, repair sleeves & vibration damper etc. shall be issued by the department as per actual requirement.

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