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	(Under jurisdiction of Nagpur court only) WESTERN COALFIELDS LIMITED (A subsidiary of Coal India Limited & A Government of India Enterprise) CIN No. U10100MH1975GOI018626	
	Office of the General Manager (MM) Materials Management Department, Coal Estate, Civil Lines Nagpur 440 001	Ph. PBX : 0712 - 2511381, 2510691 EXT 5824 Fax : 0712 - 2510284 Website : westerncoal.gov.in

Ref No: I1100131520130

Date: 28.09.2020

Regd Post

To
M/s Netco Cable Industries Pvt Ltd
 B11 1 Okhla Industrial Area, Phase II
 New Delhi 110 020

Vendor Code: 506076
 Vendor Category: **SSI**
 email - arvindhingway1@yahoo.com
 Ph: 9823114365

Sub: Supply order for **3.3 kv Power Cables**

Ref: 1. WCL's tender no: WCL-hq-pur-yvr-e021-2020-21 (tender id: 2020_WCL_172623_1) was floated, opened on 15.06.2020 (file no E-199430)

2. Your offer/Bid_Id Number 518885 and subsequent correspondence on portal and submission of shortfall / confirmatory documents.

Dear Sir,

With reference to above, we are pleased to place a firm order on you for supply of **3.3 kv Power Cables** at the rates, following terms and conditions given and General terms and conditions of supply enclosed.

1. Description of Stores and Prices:

Sl no	Description	Ordered Qty (Mtrs)	FOR Destination Price (Rs) /mtr	Extended value Rs.
1	"Netco" make 3.3 kv, 3 core, 25 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments; Scope of supply and Technical specifications, as per annexure "A" enclosed.	500	466.00	2,33,000.00
2	"Netco" make 3.3 kv, 3 core, 35 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, Scope of supply and Technical specifications as per annexure "A" enclosed.	2500	607.75	15,19,375.00
3	"Netco" make 3.3 kv, 3 core, 50 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, Scope of supply and Technical specifications as per annexure "A" enclosed.	9000	845.00	76,05,000.00
4	"Netco" make 3.3 kv, 3 core, 70 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, Scope of supply and Technical specifications as per annexure "A" enclosed.	5000	1136.00	56,80,000.00
Sub-total FOR Destination value				1,50,37,375.00
GST @ 18% on the above				27,06,727.50
Sub-Total value before availing ITC				1,77,44,102.50

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	Pre-despatch Inspection charges @ 1% on above	1,77,441.03
	Total value of the order	1,79,21,543.53

Order value : Rs. 1,79,21,543.53 (Rupees one crore seventy nine lakhs twenty one thousand five hundred forty three and fifty three paisa only).

Note: WCL reserves the right to increase the ordered quantity to tendered quantity on which Option clause will be applicable.

1. **Basis of prices:** The above prices are on FOK destination basis inclusive of packing, forwarding, freight and transit insurance charges upto destination. Materials to be booked on freight paid basis. Safe arrival of materials at destination shall be your responsibility.

2. **PRICES:** The Prices are "Variable" as per Material Price Variation clause for PVC and XLPE Insulated cables as per IEEMA circular No. IEEMA(PVC)/ CABLE/ 2007 dt 01.07.2007, enclosed at Annexure – D of NIT. The variable price shall be with a ceiling of +/- 10%.

3. **GST:** GST shall be paid at actual against documentary evidence as applicable at the time of Dispatch within the stipulated delivery period. The current rate of GST is 18%. Input Tax Credit benefit shall be availed by the consignee, for which you should submit GST Complaint Invoice. You have to comply with the terms and conditions of GST Act/ Rules such as issuance of Tax-Invoices, ensure payment of GST and enabling mechanism to facilitate Input Tax credit by WCL. You should upload the Tax Invoices/ Debit Note/ Credit Note in GST Portal, make payment of GST and file returns in time, as prescribed under GST Act and Rule to facilitate WCL to avail Input Tax Credit (ITC) as per eligibility under GST. In case WCL is unable to avail ITC or any liability arises to WCL due to failure on the part of you to comply the above provisions, the entire amount including Interest (If any) borne by WCL shall be recovered from you.

4. **Delivery:** Supply of total ordered quantity should be completed within following delivery schedule:

- 25% of total ordered quantity to be supplied within first 60 days from the date of placement of order
- Balance ordered quantity to be supplied during the period of 60 days to 120 days from the date of placement of order.

Delivery period shall be reckoned from seventh day of order date. Early supplies are acceptable.

No material to be supplied without delivery extension. Request for extension of delivery period to be made within the schedule delivery period. Even if the materials are unloaded at the Stores, the same shall be at the risk and cost of the supplier and shall not be accepted unless the supplier has obtained the extension of delivery period.

Grace Period : A grace period of 25% of original delivery period or 21 days, whichever is earlier, unless specifically disallowed will be applicable.

Where supplies are made within the grace period, there is no necessity for any extension in delivery period and the paying authorities shall make payment without any amendment to the contract delivery period. No liquidated damages are leviable in respect of supplies made within the grace period. The extra expenditure, the purchaser may have to incur on account of increase/fresh imposition of GST/CST/VAT, Excise/Customs Duty etc. which takes place within the above grace period will also not be recoverable from the suppliers.


The grace period is allowed as a matter of grace and is not intended to operate as extension of the delivery period and the same will be available only for deliveries and not for offering stores for inspection (in cases of pre- dispatch inspections) which should be made within the original delivery period or the re-fixed date of delivery.

If the stores are tendered for pre-dispatch inspection within the original delivery period stipulated in the contract and the firm delivers the stores within the grace period, the purchaser is bound to accept the stores even though the inspection was completed after the delivery date.

The grace period will only apply to the original contract delivery period/refixed delivery period and will not be applicable once an extension of delivery has been granted.

In case of scheduled delivery period, grace period shall be limited to 25% of original delivery period or 21 days, whichever is earlier, irrespective of delay in particular phase of delivery



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(i) **Option Clause:** WCL reserves right to operate option clause as per clause no 26 of Section III of NIT.

(ii) **Transportation & e-way Bill:** By road on freight paid basis. As the delivery of goods by you is on F.O.R. Destination basis, the movement of the goods is to be initiated by you and issue e-Way Bill.

5. **Inspection Clause :** (Also refer clause no 9 of Annexure "A" i.e. Technical specifications)

(a) **Pre-Dispatch Inspection:** Pre dispatch inspection of the ordered materials shall be carried out by the agency appointed by WCL at the works of the vendor. The inspection fee as applicable at the time of inspection [presently Inspection charge is @1% on the FOR Destination Price (Basic + Freight, Insurance, P&F etc) + applicable GST shall be initially paid by the vendor to the inspecting agency, which shall be subsequently reimbursed by the paying authority to the vendor along with the payment against documentary evidence. The GST on pre-despatch inspection charges shall not be claimed by the supplier vis-a-vis will not be reimbursed by WCL. Minimum 10 days advance notice shall be given by the vendor to the inspecting agency to carry out pre dispatch inspection. Necessary tools and tackles etc to carry out pre dispatch inspection shall be provided by the vendor. In case of any defect in the material supplied is noticed later, pre dispatch inspection shall not entitle the vendor to plead that inspection has been done by WCL before dispatch and shall not absolve the vendor from the contractual obligation.

Mode of payment of Pre-despatch inspection fee to CMPDIL- In the event the inspection agency is CMPDIL, then the payment of pre-despatch inspection fee shall be made through state bank collect in the hyperlink created on CMPDI website i.e. www.cmpdi.co.in. The e-receipt of the payment made towards pre-despatch inspection fee shall be submitted along with the invoice in order to claim the reimbursement of the same from WCL.

b) **Final Inspection:** Final Inspection of the consignment shall be carried out at the destination stores, which will be arranged by the consignee on receipt of stores.

6. **Payment terms:** 100% Payment shall be released within 21 days from the date of receipt and acceptance of the material at site or within 21 days from the date of receipt of suppliers' bills and submission of Security Deposit, whichever is later.

7. **EFT Details (as per Bank Mandate submitted by you):-**

Name of the Bank	Bank of Baroda
Branch & Location	Industrial Area, Okhla Ph 2, New Delhi - 110020
Account Number	5184 04 000 000 14
Nature of Account	Over Draft
IFSC CODE of the Branch	BARB00KHDEL

8. **Paying Authority:** GENERAL MANAGER (Fin), WCL, HQR ,Civil Lines, Nagpur.

9. **Consignee:** Depot Officer, Central Stores, Tadali, WCL, Urjagram, PO : Tadali, Chandrapur dist (Maharashtra) – 442401 Phone / Fax no: 07172- 237295, 237076;
WCL's GSTIN no. 27AAACW1578L1ZW

10. **Submission of Bills:** For claiming payment, following documents are to be submitted along with original bills as per terms of the supply order to the consignee.

- i) Pre-receipted and stamped Invoice (and/ or Original Buyer's copy of invoice as per GST laws).
- ii) Packing list in original list-giving details of bill of materials, if applicable. (Invoice should be strictly as per GST laws 2017)
- iii) Consignment note / RR/ LR in original, if applicable.
- iv) Warranty / Guarantee certificate, if applicable.
- v) Manufacturers test certificate, if applicable.
- vii. Price certificate and Price fall clause certificate
- vii. Notarised copy of BIS licence and all documents as per DGMS
- vii) Any other document as specified in the Order and technical specifications.

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11. Guarantee / Warranty: Supplier shall furnish manufacturer's guarantee / warrantee for satisfactory performance in all respects for the tendered items for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance of stores by consignee. Defective cables will be replaced free of cost. Warranty replacement should be completed within one month from the date of claim of cost. All cases of warranty replacement will be decided on the basis of joint inspection of the failed cable held between user's representative and manufacturer's representative.

12. Security Deposit: You have to furnish Security Deposit amount in the form of DD or BG of any scheduled bank for 10% (ten percent) value of the total order value i.e. for Rs.2,10,949.00 (Rupees two lakhs ten thousand nine hundred and forty nine), within 15 days time from the date of supply order, to the Direct Demanding Officer.

The Security Deposit shall be in the form of a Bank Demand Draft or in the form of a Bank Guarantee as per format enclosed as Annexure-C from a RBI Scheduled Bank in India (on a non-judicial stamp paper) within 15 days from date of notification of award or placement of order.

The Security Deposit shall be in the same currency in which contract is to be signed / Supply order issued. In case of Multi Currency contract separate SDBG in respective currency for required value as above shall be submitted.

In case of equipment, SDBG shall not be individual equipment wise. However, multiple Bank Guarantees for Security Deposit shall be permissible provided value of all the SDBGs totals to 10% of the contract value, and all are submitted simultaneously within the specified time schedule and all of them are in the same prescribed format of SDBG without linking to any particular equipment.

The SDBG shall remain valid up to 3 months after completion of supplies and acceptance of materials by the consignee in case of supply of Materials and in case of contracts for equipment involving installation and commissioning, 3 months after the supply and commissioning of all the equipment covered in the contract.

Security Deposit will be released within 30 days after completion of supplies and acceptance of material by the consignee in case of supply contract or after successful commissioning and on receipt of confirmation of Performance Bank Guarantee (s) for all the equipment covered in the contract in case of contracts for equipment and all those items/ goods involving installation and commissioning and PBG.

Security Deposit may be converted into Performance Bank Guarantee (PBG) wherever PBG is required at the option of the supplier. At the time of conversion of security money into PBG, it should be ensured that the amount of PBG should not be less than 10% of landed value of order. Wherever Security Deposit is converted into PBG, the operation of such SDBG/ Performance BG shall be guided by the Performance Bank Guarantee clause.

If you fails to deposit the security deposit within 15 (fifteen) days from date of notification of award/ placement of order, another opportunity shall be given to them for submission of Security Deposit within next 15 days. If you still fails to deposit the security deposit within the extended period but executes the supplies within scheduled delivery period, the submission of Security Deposit shall be waived, as the purpose of submission of SD is fulfilled.

If you fail to deposit the SD within the extended period and no supplies are made, the order shall be cancelled and the case shall be processed to order elsewhere at firm's risk and cost. Moreover, the firm's performance is to be kept recorded for future dealings with them. Further, if during execution of the contract, the firm fails to extend the Bank Guarantee for Security Deposit, suitably as required, the same shall be recorded as unsatisfactory performance for future dealings apart from taking any other penal action as may be deemed fit by WCL.

In cases where the you will not submit the security deposit even within the extended period for SD submission but has supplied the materials either in full or in part after the extended period for SD submission, the SD shall be deducted from the first bill or in case of insufficient amount from subsequent bill(s) of the supplier till the full SD amount is deducted. Further, a penalty equivalent to 0.5% (half percent) of SD amount for delay of each week or part thereof (period of delay is to be calculated from the 31st day from the date of notification of award/ placement of order to the date of receipt of full SD/ deduction of full SD) shall be levied subject to a maximum of 10% of the contract value.

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with seal and signature, to the Finance Dept, of concerned Area/HQ. For this purpose, each Area/HQ shall provide their e-mail ID to the Advising/Beneficiary Bank.

Under SFMS, extension/subsequent amendments to the BG can be done following the same procedure as stated above.

For encashment, the BG shall be placed directly before the issuing bank at Nagpur Branch.

13. Liquidated Damages Clause:

(A) In the event of failure to deliver or dispatch the equipment/stores within the stipulated date/period in accordance with the terms and conditions and the specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, the Purchaser shall have the right:

(a) To recover from the successful bidder as agreed liquidated damages, a sum not less than 0.5% (Half Percent) of the price of any equipment/ stores which the successful tenderer has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% (Ten Percent) of the total contract value, or

(b) To purchase elsewhere after due notice to the successful tenderer on the account and at the risk of the defaulting supplier, the equipment/stores not supplied or others of similar description without cancelling the supply order in respect of the consignment not yet due for supply, or

(c) To cancel the supply order or a portion thereof, and if so desired to purchase the equipment/stores at the risk and cost of the defaulting supplier and also,

(d) To extend the period of delivery with or without penalty as may be considered fit and proper. The penalty, if imposed, shall not be more than the agreed liquidated damages referred to in clause (a) above.

(e) To forfeit the security deposit full or in part.

(f) Whenever under this contract any sum of money is recoverable from and payable by the supplier, the Purchaser shall be entitled to recover such sum by appropriating in part or in whole by deducting any sum or which at any time thereafter may become due to the successful tenderer in this or any other contract. Should this sum be not sufficient to recover the full amount recoverable, the successful tenderer shall pay the Purchaser on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

For the purpose of the calculation of the liquidated damages amount, the basic Free Delivery at Site (FOR Destination) price shall be considered. For direct imports, the CIP price at Final Place of destination will be considered. Taxes and duties shall not be taken into account for calculation of LD. However, when prices indicated in the order are inclusive of taxes and duties, such prices will be taken for calculation of LD

(B) Denial Clause:

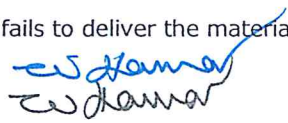
In case of extension of delivery period, any increase in statutory duties and/or upward rise in prices due to price variation clause and/or exchange rate variation clause, is to be borne by the seller during the extended delivery period, while purchaser reserves its right to get any benefit of downward revisions in statutory duties, PVC and exchange rate variation clause.

14. Risk Purchase Clause:

In the event of failure of the supplier to deliver or dispatch the stores within the stipulated date/period of the supply order or in the event of breach of any of the terms and conditions mentioned in the supply order/ contract, WCL shall have the right to purchase the stores from elsewhere after due notice to the defaulting supplier at the risk and cost of the defaulting supplier. The cost as per risk purchase exercise shall be recovered from the Earnest Money Deposit/ Security Deposit/ Performance Security of the supplier and/or bills submitted by the supplier against the same contract or any other contract pending in the same Subsidiary Co. and/or in any other Subsidiary Companies / CIL.

Risk Purchase Action shall be initiated as a last resort, if the supplier has failed to deliver despite having been given adequate and proper notice to discharge its obligations and under any of the following conditions:

a) When the supplier fails to deliver the materials even after extending the delivery period.





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b) When the supplier fails to respond to purchaser's request for supply of the materials and fails to provide any genuine and bonafide reason for the delay in supply.

c) When the supplier breaches any of the terms and conditions of the supply order/ contract and as a result fails to execute the order satisfactorily.

15. Price Certificate: You shall certify in your invoice in the following format;

As undertaken by you in your offer you have to certify on the supplies bill that *"we have not offered the same products at a price lower than that offered in the present bid in respect of any other ministry/ department of the Govt. of India or a PSU. In case we offer the lower prices for same items under similar terms within the validity of this offer to ministry/department of the Govt. of India or a PSU, we undertake to notify such reduction to the buyer and the same will also be applicable against this offer."*

16. PRICE FALL CLAUSE: You have undertaken in your offer that you have not supplied / is not supplying similar product/systems or subsystems at a price lower than that offer in the present bid in respect of any other Ministry/Department of Govt. of India or PSU and if found at any stage that similar product/systems or subsystems was supplied by the bidder to any other Ministry/Department of the Govt. of India or PSU at a lower price than that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in cost would be refunded by the bidder to buyer, if the contract has already been concluded. A certificate to this effect shall be submitted by you along with supply bill.

17. Force Majeure Condition: If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, freight embargoes or act of God (hereinafter referred to "events") provided, notice of the happening of any such event is given by either party to the other within 21 days from the date of occurrence thereof neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, provide further that if the performance in whole or part or any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the contract provided also that if the contract is terminated under this clause, the purchaser shall be at liberty to take over from the contractor at a price to be fixed by the CIL / Subsidiary Company, which shall be final, all unused, un damaged and acceptable materials, bought out components and stores in course of manufacture in the possession of the contractor at the time of such termination or such portion thereof as the purchaser may deem fit excepting such materials, bought out components and stores as the contractor may with the concurrence of the purchaser elect to retain."

18. Settlement of Disputes through Court of law of competent jurisdictions: The Courts in whose territorial jurisdiction the place from where Tenders / contract is being issued is located i.e. Nagpur shall be competent to deal with any matter arising out of this NIT / resultant purchase Order/Contract . Therefore any disputes/claims arising out of the NIT with bidders or arising out of the contract entered into with the suppliers will be subject to the jurisdiction of the Nagpur court of law .

19. General Conditions of the Contract: This order shall also be governed by the General Terms and conditions of supply of stores attached as Annexure-B, unless and otherwise specified above.

20. Provisions of CIL Purchase Manual: Provisions of Coal India Purchase Manual – 2020 along with e-procurement guidelines shall be applicable to this tender/supply order. CIL Purchase Manual 2020 is available in the website of CIL <http://www.coalindia.in> or WCL <http://www.westerncoal.in> Latest Govt guidelines / Govt Circulars / CVC circulars issued if any from time to time shall also be applicable to this tender/supply order.

21. Mode of dispatch: All the stores surely packed are to be dispatched by road transport to the consignee on Freight paid basis.

W. K. Jaiswal
W. K. Jaiswal

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28/9/20
[Signature]

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22. Location of dispatch: The Cables are to be dispatched from 11/1-B, Okhla Industrial Area, Phase II, New Delhi - 110020 as confirmed by you as confirmed by you.

23. Manufacturing certificate: As the order is being placed on the basis of consideration that you are a manufacturer of the ordered material, you will have to provide a certificate to the following effect on the body of each bill.

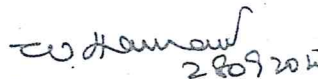
"Certified that the items supplied and included in this bill/ invoice are our own make and have been actually manufactured in our works situated at _____ (address of the factory)


Integrity Pact: Integrity Pact as per format (Annexure 5 of the NIT) signed and furnished by you along with the offer shall remain valid and applicable for this contract. The name of the IEM for this tender are:

Sl no	Name of IEM	Address	e-mail ID	Mobile number
1	Shri A.K.Mohapatra, IFS (Retd)	Flat no 201, Manjusha Manor, Plot no N3/382, IRC Village, Bhubaneswar 751015	amiyaifs@gmail.com	9437002530
2	Dr (Mrs) Nivedita P Haran, IAS (Retd)	23, IFS Villas, P-6, Builders Area, Greater Noida 201310	nharan@gmail.com	8943440525

This Order shall also be governed by the General Terms and Conditions of supply of stores, enclosed at Annexure "B", unless and otherwise specified in the above paragraphs.

This order is being placed on the basis of the terms and conditions already accepted by you. You may acknowledge the receipt of this order within 15 days from date of receipt of this order by sending a copy of this order duly signed & stamped with seal of your company.


 (Dr. Y Venkata Ramana)
 Chief Manager (MM) P-III

Yours faithfully,

 (K.S.R. Divakar)
 Chief Manager (MM) P-I

Encl:

- ▲ Annexure A : Detailed Technical Specifications
- ▲ Annexure-B : General Terms and conditions for supply of materials
- ▲ ANNEXURE "C": Format of Bank Guarantee
- ▲ Annexure "D" : PVC Formula

Copy to:

1. AGM /SO (E&M)/SO(MM)/AFM/Depot Officer – All areas
2. GM (E&M) HOD WCL, HQ
3. GM (Fin) I/c II, WCL HQ.
4. Chief Manager(Fin) /CP, WCL HQ
5. Depot Officer, WCL, Central Stores, Tadali
6. GM(E&M)HOD, CMPDIL, Gondawana Palace, Kanke Road, Ranchi- 834008, FAX NO: 0651- 2231 185 / 2231 447, Ph.no: 0651-2230 238 / 2230 272
7. RD, CMPDIL, Jaripatka, Nagpur. Ph no: 0712 – 2642 118 / 494. Fax no: 2643 231.
8. GM(MM), NCL,SECL, MCL, CCL, ECL, BCCL
9. M/s Netco Cable Industries Pvt Ltd 11/1-B, Okhla Industrial Area, Phase II, New Delhi – 110020
10. Shri A.K.Mohapatra, IFS (Retd), Flat no 201, Manjusha Manor, Plot no N3/382, IRC Village, Bhubaneswar 751015
11. Dr (Mrs) Nivedita P Haran, IAS (Retd), 23, IFS Villas, P-6, Builders Area, Greater Noida 201310

MB reference: MB 2020-21 for Drill Trailing Cable

Budget Certification details:

Area	Budget details	Budget amount Rs.
Umrer	WCL/GM(U)/UA/Hq Other Stores/01/02/BC/20-21 dt 27.08.2019 for	80,19,620.00

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	Rs.80,19,620.00	
Kanhan		2,90,140.28
Chandrapur		13,52,205.16
Ballarpur		21,28,077.06
Nagpur		29,39,451.54
Pathakhera	WCL/rev/other stores//AB class/Areas/20-21/01/200 dt 31.08.20 for	28,54,415.54
Pench	Rs.1291.44 lakhs (Centralised Budget)	12,51,026.92
Wani (N)		20,38,680.17
Wani		23,81,806.62
Majri		-3,56,801.95

Y Venkata Ramana
Y Venkata Ramana
 28/9/20
 (Dr. Y Venkata Ramana)
 Chief Manager (MM) P-III

(Signature) 28/9/20
 (K.S.R. Divakar)
 Chief Manager (MM) P-I

Annexure "A"

Specification Parameter *
1.1 Item no 1: 3.3 kv, 3 core, 25 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, 25 sq.mm. 3 core: required quantity : 500 mtrs
A-The cables shall be wound on a drum (as per IS 10418) in length of 250 Mtrs
1.2 Item no 2: 3.3 kv, 3 core, 35 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, 35 sq.mm. 3 core, required quantity - 2500 mtr
A-The cables shall be wound on a drum (as per IS.10418) in length of 200 Mtrs
1.3 Item no 3: 3.3 kv, 3 core, 50 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, 50 sq.mm. 3 core, required quantity - 9000 mtr
A-The cables shall be wound on a drum (as per IS 10418) in length of 200 Mtrs
1.4 Item no 4: 3.3 kv, 3 core, 70 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, 70 sq.mm. 3 core, required quantity - 5000 mtr
A-The cables shall be wound on a drum (as per IS 10418) in length of 200 Mtrs
1.5 Item no 5: 3.3 kv, 3 core, 95 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, 95 sq.mm. 3 core, required quantity - 0 mtr
A-The cables shall be wound on a drum (as per IS 10418) in length of 200 Mtrs
1.6 3.3 kv, 3 core, 120 sq. mm power cable, PVC insulated, mining type heavy duty double wire armoured mining type Copper cable. Conforming to : IS:1554 (Part-2)-1988 with latest amendments, 120 sq.mm. 3 core, required quantity - 0 mtr
A-The cables shall be wound on a drum (as per IS 10418) in length of 200 Mtrs
2. Make of the Cable (all the sizes) : Netco
3.0-STANDARD / MARKING :
3.1- Standard to which cable conform : IS 1554 (Part-2) - 1988

Y Venkata Ramana

(Signature) 28/9/20

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3.2 -Stranded plain aluminium & copper conforming to class 2 : IS:8130-1984
3.3 -Insulation material, PVC compound conforming to type A: IS:5831-1984 with latest amendments
3.4-The cable shall have approval for use in underground mines: DGMS approval, if having valid approval lasting till the date of the supply OR as per DGMS circular no. D.G.M.S. Circular (Electrical), (Approval) No.12 Dhanbad, 25/05/15
3.5-BIS marking: The cable shall carry BIS certification mark.
3.6-The construction of cables for use in mines shall also comply with the relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electric supply) Regulations, 2010 as amended from time to time.
4.0-TESTING OF CABLES :
4.1-The tests on cables are broadly grouped as routine tests, type tests, acceptance tests and optional tests.
4.2-Routine Tests - Tests made by the manufacturer on all finished cable lengths to demonstrate the integrity of the cable.
4.3-Type Tests - Tests required to be made before supply on general commercial basis on a type of cable in order to demonstrate satisfactory performance characteristics to meet the intended application.
4.4-Acceptance Tests - Tests carried out on samples taken from a lot for the purpose of acceptance of the lot.
4.5-Optional Tests - Special tests to be carried out, when required, by agreement between the purchaser and the supplier.
4.6-The type test report of the cable made at a laboratory as mentioned in the DGMS approval policy 2015 or its revised version for the parameters specified under the relevant standard shall be accepted.
5.0-IDENTIFICATION:
5.1-Manufacturer's Identification : The manufacturer shall be Identified throughout the length of the cable by means of a tape bearing the manufacturer's name or trade-mark or by manufacturer's name or trade-make being indented, printed or embossed on the cable. In case none of these methods can be employed or if the purchaser so desires, colour identification threads in accordance with a scheme approved by the Bureau of India Standards (BIS)/ relevant international standard shall be employed..The indentation, printing or embossing shall be done only on the outer sheath.
5.2-Cable Identification – In order to distinguish these electric cables from telephone cables and other cables, the word 'electric' shall be indented, printed, or embossed throughout the length of the cable. In case of cables intended for use in mines, the word 'mining' also shall be indented, printed or embossed throughout the length of the cable. The indentation, printing or embossing shall be done only on the outer sheath. The following special cables shall be identified by indenting, embossing or printing the appropriate legend on the outer sheath throughout the cable length, in addition to the existing marking requirements:
5.3-Voltage Identification : The voltage grade of the cable shall be identified throughout the length of the cable by means of a tape bearing the voltage grade of the cable (for example 1.1kV, 3.3kV, 3.81/66kV and 6.35/11kV) or by the voltage grade being printed, embossed or indented on outer sheath.

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5.4-Type of Cable : The cable type shall also be marked using the appropriate designation as given in the relevant standard (BIS) / relevant international standard throughout the length of cable by any of the means indicated above.
6.0-MARKING AND PACKING
6.1- The cables shall be wound on a drum (as per IS 10418).
6.2- The cut ends of the cable shall be sealed by means of non-gyroscopic sealing material.
6.3- The Cable shall carry the following information either stenciled on the drum or contained in a table attached to it:
a. Reference to the relevant Standard;
b. Manufacturer's name, brand name or trademark;
c. Type of cable and voltage grade;
d. Number of cores;
e. Nominal cross-sectional area of the conductor;
f. Cable type;
g. Length of cable on the drum;
h. Number of lengths on drum (if more than one);
I. Direction of rotation of drum (by means of an arrow);
j. Approximate gross mass;
k. Country of manufacture; and
l. Year of manufacturer.
7.0-THE MANUFACTURER SHALL:
7.1-Have Reliable and adequate facility for manufacturing & testing of cables and fully responsible for its quality. The Indigenous cable manufacturers shall have valid BIS license.
7.2-Take a note of the relevant standards amended from time to time, provisions of the Central Electricity Authority (measures relating to safety and electric supply), Regulations, 2010 and any other Instructions / circulars issued from this Directorate in respect of manufacturing of cables.
7.3-Furnish to the user all the type and routine test reports, cross sectional drawings of the cables, giving dimensional details for each size of cable. An illustrated literature on the cable, giving technical information on current ratings, cable constants, short circuit ratings, de-rating factors for different types of cables. The manufacturer shall also furnish other details like packing date, weights and other relevant information pertinent to their product (s) to the user(s), along with each consignment, and the users shall also have the responsibility to get such test reports/literature/ documents from the manufacturer while purchasing and using the cable in the mines.
7.4-Shall seal the cable ends properly so that ingress of moisture is completely prevented.

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<p>a. the individual core endings shall be sealed effectively with water resistant compound applied over the core and provided with a heat shrinkable cap of sufficient length with adequate cushion space so that the conductor does not puncture the cap in case of movement of the core during unwinding or laying. Before sealing, the self-conducting layer on the cores may be removed for about 2mm at each end, to facilitate checking the insulation resistance from one end, without removing the reeling cap at the other end.</p>
<p>b. The multi cores should have an overall heat shrinkable cap with adequate end clearance and sufficient cushioning to prevent puncturing of the overall sealing cap due to stretching of the cores. The sealing cap shall have sufficient mechanical strength and shall prevent ingress of moisture into the cable. The ends of single core cables shall also be sealed on the same lines to prevent entry of moisture.</p>
8.0-TECHNICAL PARAMETERS :
8.1-Inner sheath : PVC, Extruded
8.2-Armoring: Double, Galvanized, round steel wire armored
8.3-Resistance of Armour: The resistance of Armour shall not exceed that of conductor as specified in IS:8130-1984 by more than 33 percent.
8.4- Outer sheath – Material: PVC compound conforming to type ST1 as per IS:5831-1984 with latest amendments.
8.5- Colour of outer sheath: Red / Yellow / Green
8.6- Length marking: The cable shall carry sequential progressive length marks at an interval of every 5 (five) meters on the outer sheath by indelible ink having suitable colour contrast with the colour of the sheath.
9.0-PRE-DESPATCH INSPECTION & TESTS :
9.1-The cables will be inspected by WCL's representative/ third party inspection agency at manufacturer's works before dispatch to ascertain the conformity of the cables to supply order specification, relevant ISS, statutory regulations (As per D.G.M.S. Circular no. D.G.M.S. Circular (Electrical),(Approval) No.12 Dhanbad, 25/05/15 etc. for items on which it is applicable) and type test certificates.
9.2-The manufacturer shall make available to the inspector, the required test facilities with necessary support for conducting all the acceptance tests and routine tests as per ISS and as per D.G.M.S. Circular no. D.G.M.S. Circular (Electrical),(Approval) No.12 Dhanbad, 25/05/15
9.3. The manufacturer shall make available to the inspector the following documents during inspection.
(a) Copies of relevant IS specifications, viz. IS:1554, IS:8130, IS:5831, and IS:10810 etc.
(b) Copies of type test certificate from Govt./Govt. Approved test-house.
(c) Copy of BIS license for use of BIS certification mark.
(d) Copy of valid DGMS approval or D.G.M.S. Circular no. D.G.M.S. Circular (Electrical), (Approval) No.12 Dhanbad, 25/05/15.
10.0-DOCUMENTS TO BE SUBMITTED WITH SUPPLY:

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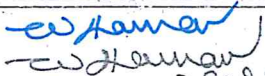
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10.1-Notary attested copy of valid BIS license (complete license) for use of BIS certification mark on the offered cables.

10.2 -Notary attested copy of valid DGMS approval, if having valid approval lasting till the date of supply or All the documents as per DGMS circular no. D.G.M.S. Circular (Electrical) (Approval) No.12 Dhanbad, 25/05/15.

10.3- Technical brochures/leaflets indicating all the details of the cable.


28/09/2020
Chief Manager (MM) P-III

 28/9/2020
Chief Manager (MM) P-I

GENERAL TERMS AND CONDITIONS OF SUPPLY OF STORES

1. Definition;

In the interpretation of the Contract and the general and special conditions governing it unless the context otherwise requires:

"Contract" means the invitation of tender, instructions to tenderers, acceptance of tender, particulars and the general and special conditions specified in the acceptance of tender and includes a repeat order which has been accepted and acted upon by the supplier.

The term "SUPPLIER" shall mean the person, firm or company with whom the contract is placed and shall be deemed to include the supplier in successor (approved by the Purchaser) representatives, heirs, executors, administrators and permitted assignee as the case may be.

"CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the price and / or terms accepted by or on behalf of the purchaser.

The Chairman - cum Managing Director means Chairman - cum Managing Director of Western Coalfields Limited, Nagpur

The term DRAWING shall mean the drawings, the plans specified in or annexed to the schedule of specification.

The term "PURCHASE EXECUTIVE" shall mean the purchaser or purchaser named in the schedule to the tender, his or their successors or assignees.

The term INSPECTOR shall mean any person nominated by or on behalf of the purchaser to inspect supplies, Stores or works under the contract or his duly authorized agent.

The term PROGRESS OFFICER shall mean any person nominated by, or on behalf of the purchaser to visit supplier's works to ascertain the position of deliveries of stores purchased.

The term MATERIALS shall mean anything used in the manufacture or fabrication of the stores.

The term PARTICULARS shall mean the following :

- a. Specification
- b. Drawing
- c. Sealed pattern denoting a pattern sealed and signed by the inspector
- d. Certified or sealed sample denoting a copy of the sealed pattern or sample sealed by the purchaser for guidance of the Inspector.
- e. Trade pattern denoting a standard of the ISI or other standardizing authority of Western Coalfields Limited and / or a general standard of the Industry and obtainable in the open market.
- f. Proprietary make denoting the product of an individual manufacturer
- g. Any other details governing the construction, manufacturer and or supply as existing in the contract

STORES means the goods specified in the supply order or schedule which the contractor has agreed to supply under contract.

The term TEST shall mean such test or tests as are prescribed by the specification or considered necessary by the Inspector or any agency acting under direction of the Inspector.

The term SITE shall mean the place or places named in the SUPPLY ORDER or such other place or places at which any work has to be carried out as may be approved by the purchaser.

Works denoting the persons shall include any company or association or body of individuals whether incorporated or not.

WRITING shall include any manuscript, typewritten or printed statement under or over signature or seal as the case may be.

UNIT & QUALITY means the unit and quantity specified in the schedule.

SUPPLY ORDER or PURCHASE ORDER means an order for supply of stores and includes an order for performance.

2. The delivery of stores shall be deemed to take place on delivery of the stores in accordance with the terms of the contract after approval of stores by the Inspector to:

- i. The consignee at his premises or
- ii. Where so provided the interim consignee at his premises or
- iii. A carrier or other persons named in the contract an interim consignee for the purpose of transmission to the consignee.
- iv. The consignee at the destination station in case of contracts stipulated for delivery stores at destination station.

3. Words in the singular include the plural and vice-versa.

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4. Words denoting the masculine gender shall be taken to include the female gender and work persons, shall include any company or association or body of individuals, whether incorporated or not.
5. Terms and expressions not herein defined shall have the meanings assigned to them in the India Sale of Goods Act 1930 or the Indian Contract, 1872 or the General Clauses Act 1897 and as amended in respect of all the Acts as the case may be.

6 (a) Parties:-

The Parties to the contract are the supplier and the purchaser named in the schedule or any other specifically mentioned in the contract.

(b) Address to which communications are to be sent

For all purposes of the contract, including arbitration thereunder, the address of the supplier mentioned in the tender shall be the address to which all communications addressed to the supplier shall be sent, unless the supplier has notified a change by a change by a separate letter containing no other communication and sent by registered post acknowledgement due to the head of the office placing the supply order. The supplier shall be solely responsible for the consequence of an omission to notify a change of address in the manner aforesaid.

Any communication or notice on behalf of the purchaser in relation to the contract may be issued to the supplier by Purchase Executive and all such communications and notices may be served on the supplier either by registered post or under certificate of posting or by ordinary post or by hand delivery at the option of such executive.

7. i. The price quoted shall be either FOR place or Railway station of dispatch, FOR destination. Delivery free to the consignee, FOB or CIF as specified in the invitation to the tender. All offers from countries other than Purchaser's country shall quote on FOB and CIF basis.
 - ii. In all cases the prices quoted must be net per unit shown in the enquiry and must include all packing and delivery where applicable. Refunds on account of returnable packages (if any) are to be separately specified. The price should show separately the Foreign Exchange element and the Rupee element for stores to be imported. Sales Tax shall be shown separately and whether it is State Sales Tax or Central Sales Tax. If no mention is made about Sales Tax, it will be assumed to be included in the price quoted.
The prices should be inclusive of Excise, or excise duty should be separately mentioned. In case where price is quoted inclusive of excise duty, the rate or quantum of the same should be separately indicated. In case of contracts providing for free delivery to the consignee, octroi charges shall be included where leviable.
 - iii. The price must be stated separately for each item on unit basis.
 - iv. When quotations are made for units other than those specified in the enquiry, the relationships should be stated.
 - v. The prices quoted must be firm and the offers made must remain open for at least four months from the date of submitting quotations unless otherwise specified.
 - vi. Tender must invariably be submitted alongwith illustrated literature giving complete and detailed specifications, particulars etc. of the main unit and of the standard accessories to be supplied with the stores.
 - vii. Tender must clearly specify their recommended spare parts that will be supplied along with the main unit and item wise prices of the spares parts, also what are fast moving, medium moving, slow moving and insurance spares and the period upto which they are likely to last.
 - viii. Printed terms and conditions of the tendering firms shall not be considered as forming part of their tender. In case the terms and conditions of contract applicable to this invitation to tender are not acceptable to the tendering firms, they should clearly specify deviations there from in their tender.
 - ix. Typed quotations should be submitted. Those containing erasures and over-writings are liable to be rejected. Any corrections made in the tenders must be initialed by the tenderers, failing which their tenders will not be considered.
 - x. Insurance arrangement will be made as per instructions being issued from time to time by the Materials Management Division of Coal India Limited and / or its subsidiary companies.
8. (i) Samples of each item, if considered necessary, should be submitted simultaneously by the contractor for inspection by Inspector / Inspectors unless the articles under tender are of considerable bulk in which case separate arrangement will be made for inspection of the articles offered while considering the quotation.
- ii). All samples required for inspection or test shall be supplied by the successful tenderer free of

cost.

iii). All samples must be clearly labeled with the tenderer's name, this offer enquiry number and the last date of opening of tender.

9. a) **Subletting and Assignment**

The supplier shall not save with the previous consent in writing of the purchaser, sublet, transfer, assign the contract or any part thereof or interest therein or benefit or advantage thereof in a manner whatsoever. Provided nevertheless that any such consent shall not relieve the supplier from any obligation, duty or responsibility under the contract.

b) **Change in a Firm**

Where the supplier is a partnership firm, a new partner shall not be introduced in the firm except with the previous consent in writing of the purchaser (which may be granted only as an exception) of a written undertaking by the new partner to perform the contract and accept as liabilities incurred by the firm under the contract prior to the date of such undertaking.

On the death or retirement of any partner of the supplier firm before complete performance of the contract the purchaser may at his option cancel the contract in such case the supplier shall have no claim whatsoever for compensation against the purchase.

If the contract is not determined as provided in the sub-clause 1.ii above notwithstanding the retirement of a partner from the firm, he shall continue to be liable under the contract for acts of the firm until a copy of the public notice given by him under Section 32 of the Partnership Act has been sent by him to the purchaser by registered post acknowledgement due.

10. (a) **Consequence of Breach**

Should the supplier or a partner in the supplier firm commit breach of either of the conditions (a) or (b) of this sub-clause, it shall be lawful of the purchaser to cancel the contract and purchase or authorise the purchaser of the stores at the risk and cost of the supplier and in that event the provisions of clause 20 shall as far as applicable shall apply.

(b) The decision of Coal India Ltd. and/or its subsidiary companies as to any matter or thing concerning or arising out of this sub-clause or any question whether the supplier or any partner of the supplier firm has committed a breach of any of the conditions in this sub-clause contained shall be final and binding on the supplier.

11. **Use of raw materials secured with Government assistance**

a. Where any raw material for the execution of the contract is procured with the assistance of CIL and or its subsidiary companies by purchase or under arrangement made or permit, licence, quota certificate or release order issued by or on behalf of or under authority or by any officer empowered in that behalf by law, or is issued from government stock and where advance payments are made to the supplier to enable him to purchase such raw materials for the execution of the contract, the supplier.

I. Shall hold such material as trustee of Coal India Limited and / or its subsidiary companies

II. Shall use such material economically and solely for the purpose of the contract

III. Shall not dispose of the same without the previous permission in writing of the purchaser; and

IV. Shall tender due account of such material and return to the purchaser at such place as the purchaser may direct all surplus or unserviceable material that may be left after the completion of the contract or its termination for any reason whatsoever. On returning such material, the supplier shall be entitled to such price thereof as the purchaser may fix having regard to the condition of such material.

b. Where the contract is terminated due to any default on the part of the supplier, the supplier shall pay all transport charges incurred for returning any material upto such destination as may be determined by CIL and / or its subsidiary companies whose decision shall be final.

c. If the supplier commits breach of any of the conditions in this clause specified, he shall, without prejudice to any other liability, penal or otherwise, be liable to account to CIL and or its subsidiary companies all money, advantages of profits accruing from or which in the usual course would have accrued to him by reasons of such breach.

d. Where the stores manufactured or fabricated by the supplier out of the materials arranged or procured by or on behalf of Coal India Limited and / or its subsidiary companies are rejected the supplier shall, without prejudice to any other right or remedy of the Government, pay to the Government on demand the cost price or market value of all such materials whichever is greater.

12. The tenderers in case of imported items, shall clearly mention in the question that in the event of the supply order being placed with them, they shall arrange for supply within a reasonable period of all necessary maintenance tools and spares parts that may be required from time to time during the normal life of the machines, on a continuous basis and at a price not in excess of the landed cost at their premises plus a stated percentage differential (such a differential should be indicated) and proper servicing

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of the main unit supplied by them as and when required. In case there is a Rate Contract with the DGS&D supply be made at the RC rates.

13. The tenderers shall give a warranty of satisfactory performance of the unit offered by them for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance by CIL and / or its subsidiary companies. The supplier shall be responsible for any defects that they develop under the conditions provided for by the contract and under proper use, arising from faulty materials, design or workmanship and shall remedy such defects at his own cost when called upon to do so. If it becomes necessary for the supplier to replace or renew any defective portion of the goods, such replacement or renewal should be made by the supplier without any extra cost to Coal India Limited and / or its subsidiary company.

14. For orders placed directly on overseas suppliers, the tenderers should separately indicate whether their prices quoted include any commission for the manufacturer's agents in India and the amount of remuneration for the agent included in the quoted price
Price shall include:

- a. The service that will be rendered by them as manufacturer's agent
- b. The name and address of agents, if any, in India, and
- c. The agency commission or remuneration or freight in case FOR prices are accepted will be paid in Rupees in India

15. On acceptance of the tender, a formal acceptance of tender or supply order will invariably be issued. Advance intimation in writing of acceptance of the tender will be given whenever considered necessary by the said authority. In case an advance intimation has been given, the formal acceptance of tender or supply order shall follow in due course, but immediate action towards execution of supply order shall be taken on receipt of the advance intimation.

16. Earnest Money/ Security Money:

a) The value of Earnest Money to be deposited by the tenderer should be **2% (Two Percent)** of the value of the estimated cost tendered for or **Rs.10,00,000/-** (Rupees ten Lakhs only) **whichever is lower.**

Earnest Money Deposit (EMD) should be in the form of **E- Payment as per NIT** . For unsuccessful tenderer, EMD shall be refunded immediately after finalisation of the tender. EMD shall be forfeited if any tenderer withdraw their offer before finalisation of the tender or fails to submit order acceptance within 15 days from the date of order.

b) In case of Security Deposit , two weeks time (15 days) shall be given in the order to the successful tenderer to furnish the security deposit. In case the firm fails to deposit the security money, the order shall be cancelled and the case shall be processed to order elsewhere and the firm's performance is to be kept recorded for future dealings with them.

The value of Security Money to be deposited by the successful tenderer in the form of **Bank Draft / Bank Guarantee of any scheduled bank** shall be **10% (Ten Percent)** of the value of the awarded contract (**LANDED VALUE**) without having any ceiling.

For successful tenderer, Security Money will be refunded to the firm within 30 days of satisfactory execution of the contract. For unsatisfactory performance and / or contractual failure, the security money shall be forfeited.

Security Money may be converted into Performance Bank Guarantee (PBG) wherever PBG required. However, in such case the amount of PBG should not be less than **10% (Ten percent)** of **landed value of order.**

c) Valid **DGS&D / NSIC** registered (**for the tendered items**) firms on producing documentary evidence i.e. **NOTARISED complete photocopy of valid DGS&D / NSIC registration certificate** are exempted from submission of EMD / security Deposit. However, NSIC registered firms shall be exempted from Security Deposit only upto their monetary limit, if any, indicated in the registration certificate. In case value of order placed is above such monetary limit indicated in the registration certificate, the successful tenderer have to furnish the security deposit in the form of Bank Draft / Bank Guarantee of any schedule bank for 10% of the order value over such monetary limit. DGS&D registered firm shall be exempted from submission of EMD / Security deposit on the basis of guidelines of DGS&D provided in DGS&D website in this respect.

d) State / Central Govt. organization / PSUs are exempted from submission of EMD / Security deposit.

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e) WCL Ancillaries (for the tendered items) are exempted from payment of Earnest Money / Security Deposit.

f) For procurement value less than Rs. 1,00,000/- no earnest money / security deposit will be required.

17. Inspection and Rejection

Generally the stores shall be of the best quality and workmanship and comply with the contract or supply order in all respect. The stores supplied shall be in accordance with specification unless any deviation is authorised and specified and specified in the contract or supply order or any amendment thereof.

a) Facilities for Test and Examination

The supplier shall, at his own expenses, afford to the Inspector all responsible facilities and such accommodation as may be necessary for satisfying it, that the stores are being and/or have been manufactured in accordance with particulars. The Inspector shall have full and free access at any time during the execution of the contract to the suppliers work for the purpose aforesaid, and he may require the supplier

Cost of Test

The supplier shall provide without any extra charge, all materials, tools, labour and assistance of every kind which the inspector may demand from him for any test, and examination, other than special or independent test, which he shall require to be made on the supplier's premises and the supplier shall bear and pay all costs attendant thereon. If the supplier fails to comply with the conditions aforesaid, the Inspector shall in consultation with the purchaser, be entitled to remove for test and examination all or any of the stores manufactured by the supplier to any premises other than his (suppliers) and in all such cases the supplier bear the cost of transport and/or carrying out such tests elsewhere. A certificate in writing of the Inspector that the supplier has failed to provide the facilities and the means, for test and examination shall be final.

c) Delivery of Stores for Test

The supplier shall also provide and deliver the test free of charge, at such place other than his premises as the inspector may specify, such materials or stores as he may require.

d) Liability for Costs of Laboratory Test

In the event of rejection of stores or any part thereof by the Inspector in consequence of the sample thereof, which removed to the laboratory or other place of test, being found on test to be not in conformity with the contract or in the event of the failure of the supplier for any reason to deliver the stores passed on test within the stipulated period, the supplier shall, on demand pay to the purchaser all costs incurred in the Inspection and/or test cost of the test shall be assessed at the rate charged by the laboratory to provide persons for similar work.

e) Method of Testing

The Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may think fit and proper. The supplier shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspector.

f) Stores Expended in Test

Unless otherwise provided for in the contract, all stores/materials expended in test will be to suppliers account.

g) Inspector – Final Authority and to Certify Performance

(i) The Inspector shall have the power

Before any stores or part thereof are submitted for inspection to certify that they can not be in accordance with the contract owing to the adoption of any unsatisfactory method of manufacturer.

(ii) To reject any stores submitted as not being in accordance with the particulars.

(iii) To reject the whole of the installment tendered for inspection, if after inspection of such portion thereof as he may in his discretion think fit, he satisfied that the same is unsatisfactory; and

(iv) To mark the rejected stores with a rejection mark so that they may be easily identified if re-submitted.

(h) Consequence of Rejection

If on the stores being rejected by the Inspector or consignee at the destination, the supplier fails to make satisfactory supplies within the stipulated period of delivery, the purchaser shall be at liberty to

(i) Allow the supplier to resubmit the stores, in replacement of those rejected, within a specified time, the suppliers bearing the cost of freight, if any, on such replacement without being entitled to any extra payment on the account; or

(ii) Purchase or authorise the purchase of quantity of the stores rejected or so others of a similar description (when stores exactly complying with particulars opinion of the purchase executive which shall be final, readily available) without notice to the supplier's liability as regards the supply of any further installment due under the contract; or

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(iii) Cancel the contract and purchase or authorise the purchase of the stores or others of a similar description (when stores exactly complying with particulars are not in the opinion of the purchaser, which shall be final readily available) at the risk and cost of the supplier. In the event of action being taken under sub-clause (ii) above or this sub-clause in the provisions of clause 20 shall apply as far as applicable.

(I) Inspector's Decision as to Rejection Final

The Inspector's decision as regards the rejection shall be final and binding on the supplier.

(j) Where under a contract, the price payable is fixed on FOR station of despatch basis, the supplier shall, if the stores are rejected at destination by the consignee, be liable in addition to other liabilities to reimburse to the purchaser the freight paid by the purchaser.

(k) Notification of Result of Inspection

Unless otherwise provided in the specification or schedule, the examination of the stores will be made as soon as practicable after the same have been submitted for inspection and the result of the examination shall be notified to the supplier.

(i) Marking of Stores

The supplier shall if so required, at his own expense mark or permit the Inspector to mark all the approved stores with a recognised Government or purchaser's mark. The stores which can not be so marked shall, if so required by the Inspector, be packed in suitable package or cases each of which shall be sealed and marked with such mark.

(m) Removal of Rejection

i. Any stores submitted for inspection at a place other than the premises of the supplier and rejected shall be removed by the supplier subject as hereinafter provided within 14 days of the date of receipt of intimation of such rejection. If it is proved that letter containing such intimation is addressed and posted to him at the address mentioned in the schedule, it will be deemed to have been served on the supplier at the time when such letter would in the course of ordinary post reach the supplier. It shall be competent for the Inspector to call upon the supplier to remove what he considers to be dangerous, infected or perishable stores within 48 hours of the receipt of such intimation.

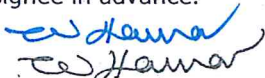
ii. Such rejected stores shall under all circumstances lie at the risk of the supplier for the moment such rejection and if such stores are not removed by the supplier within the period aforementioned, the Inspector/Purchaser may either return the same to the supplier at his risk and cost a public tariff rate by such mode of transport as the purchaser or Inspector may select, or dispose of such stores at the supplier's risk on his account and retain in such portion of the proceeds as may be necessary to cover any expense incurred in connection with such disposal. The purchaser shall also be entitled to recover handling and storage charges for the period during which the rejected stores are not removed.

O Inspection Notes

On the stores being found acceptable by the Inspector, he shall furnish the supplier with necessary copies of inspection note duly completed, for being attached to the supplier's bill thereof.

18. Packing and Transport

- (a) It shall be the responsibility of the successful tenderers to arrange for the stores being sufficiently and properly packed for transport by Rail, Road or Sea as the case may be so as to their being free from loss or injury on arrival at destination. The packing of the stores shall be done at the expense of the successful tenderer.
- (b) The successful tenderer is responsible for obtaining a clear receipt from the transport authorities specifying the goods despatched. He will not book any consignment on a "said to contain" basis. If he does so, he does it on his own responsibility. Western Coalfields Limited shall pay for only such stores as are actually received by them in accordance with the contract.
- (c) All packing cases, containers, packing and other similar materials shall be supplied free by the successful tenderer and shall not be returned unless otherwise specified in the contract/supply order.
- (d) Packages must be so marked that identification is made easy. Packages will be stamped with identification marks both outside the packages as well as on the contents inside. Packages containing articles liable to be broken by rough handling like glass or machinery made of cast iron will be marked with cautionary works like 'Fragile', 'Handle with care'. Weight of each packages will be marked on the package.
- (e) A complete list of contents in each package called the packing list will be prepared and one copy will be packed in the package itself and another copy will be forwarded to the consignee in advance.





Supply Order no: 11100131520130 dt 28.09.2020 for supply of 3.3 kv power cable

19. **Delivery:** The time for and the date of delivery of the stores stipulated in the 'Purchase Order' shall be deemed to be the essence of the contract and delivery of the stores must be completed by the date specified.

20. **Liquidated Damages :**

In the event of failure to deliver the stores within the stipulated date / period in accordance with the samples and / or specifications mentioned in the supply order and in the event of breach of any of the terms and conditions mentioned in the supply order, Coal India Limited and / or its subsidiary Companies should have the right :-

- a. To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% of the price of the store which successful tenderer has not been able to supply (for this purpose part of a unit supplied will not be considered) as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10 %. Where felt necessary the limit of 10% can be increased to 15% at the discretion of Head of the Materials Management Division
- b. To purchase from elsewhere, after due notice to the successful tenderer, on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without canceling the supply order in respect of consignment not yet due for supply or
- c. To cancel the supply order or a portion thereof, and if so desired, to purchase the store at the risk and cost of the defaulting supplier and also
- d. To extend the delivery period with or without imposition of Liquidated Damages as may be considered fit and proper. The penalty if imposed shall not be more than the agreed liquidated damages referred to clause (a) above.
- e. To forfeit security deposit in full or part.
- f. Whenever under the contract a sum of money is recoverable from and payable by the supplier, Western Coalfields Limited, shall be entitled to recover such sum by appropriating, in part or in whole by deducting any sum or which at any time thereafter, may become due to the successful tenderer in this or any other contract, with Western Coalfields Limited. Should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay to Western Coalfields Limited, on demand the remaining balance. The supplier shall not be entitled to any gain, on any such purchase.

21. **Force Majeure Condition :** If the execution of the contract / supply order is delayed beyond the period stipulated in the contract / supply order as a result of outbreak of hostilities, declaration of any embargo or blockage, or fire, flood, acts of nature or any other contingency beyond the suppliers' control due to act of God then CIL or its subsidiary Companies may allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the CIL and its subsidiary companies, the contract / supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

22. **Inspection :** The supplier shall allow reasonable facilities and free access to his works and records to the Inspector, Progress Officer or such other Officer nominated for the purpose. Inspector of stores, i.e supplies made by the successful tenderer against the supply order mentioned at (15) above, shall be carried out by the Inspector / Consignee at the Colliery site/ stores or by the Inspecting Wing (inclusive of all its branch officer) of the DGS&D, New Delhi or any other agency as may be specified in the supply order. Where necessary, inspection may be carried out at the supplier's premises.

23. Coal India Ltd and / or its subsidiary companies do not bind itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity offered and the tenderer shall supply the same at the rate quoted.

24. The supplier shall at all times indemnify CIL and its subsidiary companies against all claims which may be made in respect of the supplies for infringement of any right protected by patent, Registration of Design, or Trade Mark, provided that in the event of any claim in respect of breach of Letter Patent, Registered Design, or Trade Mark being made against CIL and / or its subsidiary companies, the said authority shall notify the supplier of the same and the supplier shall be at liberty at his own expense to settle any dispute or to conduct any litigation that may rise there from.

25. **Carrying vessels for Imported Items**

In case of machinery imported from abroad, it is preferable that shipment should be affected in Indian Vessels, wherever possible. Supplies will however not be delayed on this account.

26. **Freight :**

The stores shall be dispatched at Public tariff rates in the case of FOR station of dispatch contract and the stores shall be booked at full wagon rates whenever available and by the most economical route or by the most economical tariff available at the time of dispatch as the case may be. Failure

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to do so will render the supplier liable for any avoidable expenditure causes to the purchaser.

Where alternative routes exist, CIL and or its subsidiary companies shall, if called upon also to do indicate the most economical route available or name the authority whose advice in the matter should be taken and acted upon. If any advice of any such authority is sought his decision or advice in the matter shall be final and binding on the supplier.

27. Passing of Property. :

Property in the stores shall not pass to the purchaser unless and until the stores have been delivered to the consignee or interim consignee as the case may be in terms of the contract.

28. Laws Governing the Contract.

- (a) This contract shall be governed by the Laws of India for the time being in force
- (b) Irrespective of the place of delivery, the place of performance of place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender or supply order has been issued.

(c) Jurisdiction of Courts

The courts of the place from the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

(d) Marking of Stores

The marking of the stores must comply with the requirement of the law relating to merchandise marks for the time being in force in India.

29. Corrupt Practices

- (a) The supplier shall not offer or give or agree to give to any person in the employment of the purchaser or working under the orders of Coal India Ltd. and/or its subsidiary companies any gift or consideration of any kind as an inducement or reward for going or forbearing to do or for having done or forborne to do any act in relating to the obtaining or execution of the contract or any other contract with the purchaser or for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other with the Purchaser. Any breach of the aforesaid condition by the supplier or any one employed by him or acting on his behalf (whether with or without the knowledge of the supplier) or the Commission of any offence by the supplier or by any one employed by him or acting on the behalf under Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1947 and any amendments thereto or any other Act enacted for the prevention of corruption by Public Servants shall entitle Coal India Limited and or its subsidiary companies to cancel the contract and all or any other contract with the supplier and to recover from the supplier the amount of any loss arising from such cancellation in accordance with the provisions of Clause 20.
- (b) Any dispute or difference in respect of either the interpretation effect or application of the above condition or of the amount recoverable, the re-undertaken by the purchaser from the supplier shall be decided by Coal India Limited and its subsidiary companies whose decision shall be final and binding on the supplier.

30. Insolvency and Breach of Contract

- a) Coal India Limited and or its subsidiary companies may at any time by notice in writing, similarly determine the contract without compensation to the supplier in any of the following events that is to say –
If the supplier being an individual or if a firm any partner thereof shall at any time be adjudged insolvent or shall have a receiving order or order of administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or enter into any arrangements or composition with his creditors or suspend payment or if the firm be dissolved under the Partnership Act.
- b) If the supplier being a company is wound up voluntarily by the order of a court or a receiver, Liquidating Manager on behalf of the Debenture-Holders is appointed or circumstances shall have arisen which entitles the court or Debenture-Holders to appoint a Receiver, Liquidator or Manager.
- c) If the supplier commits any breach of the contract not herein specifically provided for – Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the purchaser and provided also the supplier shall be liable to pay to the purchaser for any extra expenditure he is thereby put to and the supplier shall under no circumstances be entitled to any gain on repurchase.

31. Terms of Payment:

- For all stores, 100% payment should be made on receipt of the consignment at site and

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acceptance by the consignee as per actual payment term stipulated in the contract. The number and date of Railway receipt, Bill of Lading, Air Way Bill or Consignment Note under which the goods charged for in the bill are dispatched by Railway, ship, Air or Road respectively, and the number and date of the letter with which such Railway Receipt, Bill Lading, Air Way Bill or Consignment Note is forwarded to the consignee should on bill. In the case of stores dispatched by post, the postal receipt should be attached in original to the bill and its number and date quoted therein.

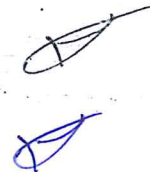
- Payment against the supply orders placed either by the Subsidiary Company or by CIL shall be arranged by the Subsidiary companies, if not specified otherwise. Wherever order is placed by CIL on any foreign supplier involving requirement of more than on subsidiary co., payment shall be arranged by CIL normally through Letter of Credit.
- Payment for Agency Commission, if any, involved, may be considered in case of necessity, subject to compliance of the Government of India Guidelines issued from time to time. The name of the Indian Agent with their full address and the quantum of Agency Commission, if any, payable, shall have to be mentioned in the supply order itself.
- Payment from CIL may also be considered, if felt necessary, by the CIL management, even though order is placed against the requirement of one subsidiary company by CIL
- Specific payment term may be formulated in accordance with the provision laid down (as applicable) at Chapter - IX of the Purchase Manual.

32. Progress Report

- a) The supplier shall from time to time render such reports concerning the progress of the contract and or supply of the stores in such form as may be required.
- b) The submission, receipt and acceptance of such reports shall not prejudice the right of the purchaser under the contract, nor shall operate an estoppel against the purchaser merely by reason of the fact that he has not taken notice of or objected to any information contained in such report.

33. All disputes arising out of this contract shall be under the jurisdiction of **Nagpur court** only and as per the "law of the land".





ANNEXURE "C"

Format of Bank Guarantee

1. In consideration of M/s. Western Coalfields Limited, Nagpur (hereinafter called "The Company") having agreed to exempt _____ (hereinafter called "The said Contractor(s)") from the demand, under the terms and conditions of the agreement dated _____ made between _____ and _____ for _____ (hereinafter called "the said Agreement"), of security deposit for the due fulfilment by the said contractor(s) of the terms and conditions contained in said Agreement, on production of _____ bank guarantee for Rs. _____ (Rupees _____ only).

We _____ (indicate the name of bank) (hereinafter referred to as "the Bank") at the request of _____ (Contractor(s)) do hereby undertake to pay to the Company an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reasons of any breach by the said Contractor(s) of any terms or conditions contained in the said Agreement.

2. We, _____ do hereby undertake (indicate the name of the Bank) to pay the amounts due and payable under this guarantee without any demur, merely on demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said agreement or by reason of the contractor(s)'s failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ only.

3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal : The payment so made by under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

4. We, _____ further agree that the (indicate the name of the Bank) guarantee herein contained shall remain in full force and affect during the period that would be taken for performance of the said Agreement and that it shall continue to be enforceable till all the dues of the company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the company certified that the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee. The guarantee shall remain in force till the _____ the day of _____ 20 _____ and unless a demand or claim under the guarantee is made on us in writing within 3 months from the said date, shall be discharged from all liabilities under this guarantee thereafter.

5. We, _____ further agree with the (indicate the name of the Bank) Company that the company shall have fullest liberty without our consent and without affecting in any manner our obligations, hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the company against the said contractor(s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reasons of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act or commission on part of the company or any indulgence by the company to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in constitution of the bank or the contractor(s)/supplier(s).

7. We _____ lastly undertake not to revoke this (indicate the name of the Bank) guarantee during its currency except with the previous consent of the company in writing.

8. The bank Guarantee is operational for all purposes at Nagpur Branch, Maharashtra (Branch Code-)

Dated the _____ day of _____ 20 _____

For _____ (indicate the name of the Bank)

(Handwritten signature)

(Handwritten signature)

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IEEMA (PVC)/CABLE/2007

Effective from: 1st January 2007

Material Price Variation Clause For PVC And XLPE Insulated Cables

The Price quoted/confirmed is based on the input cost of raw materials/components as on the date of quotation, and the same is deemed to be related to the prices of raw materials as specified in the price variation clause given below. In case of any variation in these prices, the price payable shall be subject to adjustment up or down in accordance with the formulae provided in this document.

Terms used in price variation formulae:

P Price payable as adjusted in accordance with above appropriate formula (in Rs/Km)

Po Price quoted/confirmed (in Rs/Km)

ALUMINIUM

AIF Variation factor for aluminium

AI Price of EC grade aluminium rods (Properzi rods). This price is as applicable of first working day of the month, one month prior to the date of delivery.

Alc Price of EC grade aluminium rods (properzi rods). This price is as applicable on first working day of the month, one month prior to the date of tendering.

COPPER

CuF Variation factor for copper

Cu Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of delivery.

Cuo Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of tendering.

PVC COMPOUND/POLYMER

Cc price of PVC compound. This price is as applicable on first working day of the month, one month prior to the date of delivery.

Cco Price of PVC compound. This price is as applicable on first working day of the month, one month prior to the date of tendering.

CCFAI Variation factor for PVC compound/Polymer for aluminium conductor cable.

CCFCu Variation factor for PVC compound/Polymer for copper conductor cable.

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IEEMA (PVC)/CABLE/2007

Effective from: 1st January 2007

STEEL

FeF	Variation factor for steel
FeW	Variation factor for round wire steel armouring
Fe	Price of Steel Strips/steel wire. This price is as applicable on the first working day of the month, one month prior to the date of delivery.
Feo	Price of steel strips/steel wire. This price is as applicable on first working day of the month, one month prior to the date of tendering.

The above prices and indices are as published by IEEMA vide Circular reference IEEMA(PVC)/CABLE/--/-- prevailing as on 1st working day of the month i.e. one month prior to the date of tendering.

The date of delivery is the date on which the cable is notified as being ready for inspection/dispatch (in the absence of such notification, the date of manufacturer's dispatch here is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

Notes

- All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes, octroi, etc.
- All Prices are as on first working day of the month.
- The details of prices are as under:
 - The price of aluminum (in Rs/MT) is the average ex-works price of EC grade aluminium rods quoted by the primary producers confirming to specification IS: 5484
 - Price of PVC Compound (in Rs/MT) is the ex-works price, as quoted by the manufacturer.
 - Price of CC copper rods (in Rs/MT) is ex-works price as quoted by the primary producer.
 - Price of galvanized steel strip / steel wire (in Rs/MT) is ex-works price as quoted by the manufacturer for Round steel Wire and Flat steel strip (the relevant price of steel strip or steel wire is to be selected depending upon the type of armouring of the cable).

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Effective from: 1st January 2007

Price variation formulae for 'Power Cables'

A. Aluminum conductor PVC insulated 1.1 kV power cables

$$P = P_0 + AIF (AL - A_{lo}) + CCFAl (CC - C_{co}) + FeF (Fe - Fe_0)$$

For unarmoured multicore cables (without steel armour); FeF = 0

Table References:

ALP	Aluminium conductor in single core unarmoured & multicore cables
P1	Aluminium conductor aluminium armour in single core armoured cables
P2	PVC compound
P3	Steel armour

B. Copper conductor PVC insulated 1.1 kV power cables

$$P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - C_{co}) + FeF (Fe - Fe_0) + AIF (Al - A_{lo})$$

For steel armoured cables; AIF = 0 For aluminium armoured cable; FeF = 0
For unarmoured cables; FeF, AIF = 0

Tables References:

CUP	Copper conductor
P2	PVC compound
P3	Steel armour
P4	Aluminium armour

C. Copper conductor PVC insulated 1.1 kV control cables

$$P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - C_{co}) + FeF (Fe - Fe_0)$$

For unarmoured cables; FeF = 0

Tables References:

CUC	Copper conductor
P5	PVC compound
P6	Steel armour

D. Aluminium Conductor XLPE insulated 1.1 kV power cables

$$P = P_0 + AIF (AL - A_{lo}) + CCFAl (CC - C_{co}) + FeF (Fe - Fe_0)$$

For unarmoured multicore cables (without steel armour); FeF = 0

Table References:

ALP	Aluminium conductor in single core unarmoured & multicore cables
L1	Aluminium conductor + aluminium armour in single core armoured cables
L2	Polymer
L3	Steel armour

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E. Copper conductor XLPE insulated 1.1 kV power cables

$$P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - Cc_0) + FeF (Fe - Fe_0) + AlF (Al - Al_0)$$

For steel armoured cables; AlF = 0 For aluminium armoured cables; rxF = 0
For unarmoured cables; FeF, AlF = 0

Table References:

CUP	Copper conductor
L2	Polymer
L3	Steel armour
L4	Aluminium armour

F. Copper Conductor XLPE insulated 1.1 kV control cables

$$P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - Cc_0) + FeF (Fe - Fe_0)$$

For unarmoured cables; FeF = 0

Table References:

CUC	Copper conductor
L5	Polymer
L6	Steel armour

G. For Aluminium conductor XLPE insulated 3.3 to 33 kV power cables

$$P = P_0 + AlF (Al - Al_0) + CCFAl (Cc - Cc_0) + FeF (Fe - Fe_0)$$

For unarmoured multicore cables (without steel armour); FeF = 0

Table References:

AlP	Aluminium conductor in single core unarmoured & multicore cables
H1	Aluminium conductor + aluminium armour in single core armoured cables
H2	Polymer
H3/H5	Steel armour (Flat/Round)

I. Copper conductor XLPE Insulated 3.3 to 33 kV power cables (PVC | XLPE)

$$P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - Cc_0) + FeF (Fe - Fe_0) + AlF (Al - Al_0)$$

For steel armoured cables; AlF = 0 For aluminium armoured cables; FeF = 0
For unarmoured cables; FeF, AlF = 0

Table References:

CUP	Copper conductor
H2	Polymer
H3/H5	Steel armour (Flat/Round)
H4	Aluminium armour

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TABLE CUP

VARIATION FACTOR FOR COPPER CONDUCTOR (CUF)
POWER CABLES WITH COPPER CONDUCTOR

Nominal Cross Sectional Area (in Sq. mm.)	1 core	2 core	3 core	3.5 core	4 core
2.5	0.023	0.046	0.069	-	0.092
4	0.036	0.076	0.112	-	0.151
6	0.056	0.112	0.171	-	0.227
10	0.095	0.174	0.286	-	0.382
16	0.151	0.299	0.451	-	0.602
25/16	0.240	0.480	0.720	0.962	0.960
35/16	0.332	0.664	0.993	1.135	1.329
50/25	0.451	0.898	1.348	1.572	1.799
70/35	0.648	1.299	1.950	2.260	2.592
95/50	0.901	1.802	2.700	3.121	3.601
120/70	1.138	2.273	3.407	4.016	4.545
150/70	1.398	2.806	4.207	4.815	5.611
185/95	1.753	3.519	5.279	6.121	7.038
225/120	2.154	4.309	6.463	7.522	8.617
240/120	2.312	4.605	6.904	7.963	9.206
300/150	2.891	5.779	8.567	9.976	11.558
400/185	3.703	7.397	11.097	12.738	14.794
500	4.664	9.334	13.998	-	18.665
630	6.012	12.048	18.070	-	21.095
800	7.696	15.389	23.082	-	30.775
1000	9.706	19.372	29.055	-	38.741

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TABLE P2

VARIATION FACTOR FOR PVC COMPOUND (CCPA/CCFCu)
PVC INSULATED 11 KV POWER CABLES WITH COPPER/ALUMINIUM CONDUCTOR

Nominal cross Sectional Area (in Sq. mm)	1 core			2 core		3 core		3.5 core		4 core	
	Unarm	Unarm	arm	Unarm	arm	Unarm	arm	Unarm	arm	Unarm	arm
2.5	0.079	0.125	0.139	0.141	0.157	-	-	-	-	0.161	0.179
4	0.094	0.140	0.156	0.164	0.182	-	-	-	-	0.188	0.209
6	0.101	0.154	0.171	0.179	0.199	-	-	-	-	0.198	0.220
10	0.114	0.194	0.216	0.214	0.238	-	-	-	-	0.249	0.277
16	0.142	0.234	0.246	0.279	0.290	-	-	-	-	0.328	0.345
25	0.171	0.288	0.303	0.364	0.383	0.422	0.444	0.443	0.466	-	-
35	0.189	0.321	0.338	0.408	0.429	0.489	0.515	0.498	0.524	-	-
50	0.211	0.411	0.453	0.508	0.535	0.613	0.645	0.647	0.681	-	-
70	0.241	-	-	0.615	0.645	0.707	0.744	-	-	-	-
95	0.284	-	-	0.795	0.811	0.908	0.927	-	-	-	-
120	0.339	-	-	0.866	0.884	1.024	1.045	-	-	-	-
150	0.388	-	-	1.070	1.092	1.289	1.315	-	-	-	-
185	0.450	-	-	1.310	1.337	1.499	1.530	-	-	-	-
225	0.521	-	-	1.586	1.618	1.840	1.878	-	-	-	-
240	0.534	-	-	1.649	1.683	1.990	2.031	-	-	-	-
300	0.653	-	-	2.007	2.048	2.361	2.409	-	-	-	-
400	0.770	-	-	2.437	2.487	2.616	2.609	-	-	-	-
500	0.936	-	-	3.117	3.181	3.687	3.762	-	-	-	-
630	1.175	-	-	-	-	-	-	-	-	-	-
800	1.433	-	-	-	-	-	-	-	-	-	-
1000	1.642	-	-	-	-	-	-	-	-	-	-

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Supply Order no: 11100131520130 dt 28.09.2020 for supply of 3.3 kv power cable

TABLE P3

VARIATION FACTOR FOR STEEL (FeF)
PVC INSULATED 1.1 KV POWER CABLES WITH COPPER/ALUMINIUM CONDUCTOR

Nominal Cross sectional Area (in Sq. mm)	2 core	Shape	3 core	Shape	3 ½ core	Shape	4 core	Shape
4	0.305	W	0.335	W	-	-	0.363	W
6	0.348	W	0.363	W	-	-	0.407	W
10	0.392	W	0.407	W	-	-	0.293	F
16	0.235	F	0.293	F	-	-	0.323	F
25	0.293	F	0.352	F	0.382	F	0.382	F
35	0.323	F	0.382	F	0.411	F	0.440	F
50	0.382	F	0.440	F	0.469	F	0.499	F
70	0.411	F	0.499	F	-	F	0.587	F
95	0.499	F	0.587	F	0.616	F	0.645	F
120	0.528	F	0.616	F	0.675	F	0.731	F
150	0.587	F	0.675	F	0.731	F	0.790	F
185	0.645	F	0.761	F	0.820	F	0.879	F
240	0.731	F	0.879	F	0.937	F	0.996	F
300	0.820	F	0.966	F	1.055	F	1.113	F
300	0.937	F	1.083	F	1.172	F	1.231	F
500	1.055	F	1.231	F	1.348	F	1.406	F
630	1.172	F	-	-	-	-	-	-

W. Hamar
W. Hamar

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Supply Order no: 11100131520130 dt 28.09.2020 for supply of 3.3 kv power cable

TABLE H2

VARIATION FACTOR FOR POLYMER (CCFAI / CCFCu)
 3 CORE XLPE INSULATED 3.3 to 33 KV POWER CABLES
 WITH COPPER / ALUMINIUM CONDUCTOR (PVC / XLPE)

Nominal Cross Sectional Area (in Sq. mm)	3.3 KV ARM	6.6 KV (E) ARM	6.6 KV (UE) / 11 KV (E) ARM	11 KV (UE) ARM	22 KV (E) ARM	33 KV (E) ARM
35	0.374	0.990	1.142	1.604	1.782	-
50	0.445	1.119	1.260	1.834	2.046	2.864
70	0.547	1.290	1.396	2.011	2.284	3.219
95	0.594	1.440	1.647	2.269	2.428	3.367
120	0.732	1.692	1.877	2.498	2.715	3.645
150	0.812	1.906	2.061	2.767	2.931	3.927
185	0.960	2.086	2.406	3.028	3.180	4.166
240	1.130	2.484	2.744	3.398	3.580	4.589
300	1.219	2.912	3.161	3.840	4.016	5.029
400	1.313	3.530	3.664	4.353	4.666	5.736

Fillers added in PVC consumption

W. Hama
W. Hama

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TABLE H3

VARIATION FACTOR FOR STEEL (FeF)
Pvc / XLPE INSULATED 3.3 TO 33 KV POWER CABLES WITH COPPER / ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area Sq. mm.	3.3 KV	6.6 KV (E)	11 KV (E) / 6.6 KV (UE)	11 KV (UE)	22 KV (E)	33 KV (E)
35	0.645	0.645	0.731	0.879	0.937	-
50	0.675	0.703	0.761	0.937	0.966	-
70	0.751	0.761	0.849	0.996	1.055	1.289
95	0.820	0.849	0.907	1.033	1.113	1.348
120	0.879	0.907	0.966	1.142	1.172	1.406
150	0.938	0.966	1.055	1.201	1.259	1.494
185	1.025	1.055	1.113	1.259	1.316	1.553
240	1.142	1.142	1.231	1.377	1.406	1.641
300	1.231	1.259	1.318	1.465	1.524	1.758
400	1.348	1.406	1.435	1.582	1.641	1.876

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