

SECTION -III

ANNEXURE-A

FORMAT FOR SUBMISSION OF TECHNICAL BID

1. We, M/s.----- offer our ----- machine, model no. ----- as per the description given in Schedule of Requirements. We further state that, except for the following, for which clause wise brief description and justification for deviation has been indicated, our machine fully complies with all the clauses as given in main features and description of tender requirements in Section-I & technical specification Section-II and we also confirm all the schedules given in the Delivery Schedule at para 7 of Section-I. :

S.No.	Clause/Item	Brief description of Deviation	Justification for deviation

Note 1: In case there is a contradiction in any information provided (some parametric values given in the specification and those given in the brochure or some other document enclosed by the tenderer), unless specifically mentioned in the deviation cum confirmation statement under Annexure A of Section-III, the values as given in the specification shall be taken as confirmed by the tenderer and offer evaluated accordingly..

Note 2: In case tenderer offers internationally accepted alternative specifications as per clause 1.7 of Section-I, complete details of alternative specification, apart from filling above deviation statement, may be enclosed

2. We further certify that we are meeting the reference clause as:

- (A) We are the regular manufacturer of this type of machine.
 (B) We have made the following past supplies of similar machines as per Special Conditions during last five years:-

SN.	Name of purchaser with postal address	P.O. No. and date (along with the copy of PO)	Name of contact person with designation	Phone/ fax / e-mail nos. of contact person	Date and place of commissioning of the machine	Axle Load	Tread Diameter

- (C) We are submitting following performance certificate from past users as per Special Conditions of tender-

SN.	User Name	Date Supplied	Date of issue of certificate	Application / Use	Axle Load	Tread Diameter	Performance

3. We are having following facilities available with us or our agent for providing adequate after-sales service in India during warranty period. Complete details of after sales service, availability of technically competent engineers and warehousing facilities for spares is indicated below:

- After sales service centers:
- Availability of technically competent engineers;
- Warehousing facilities for spares:

4. We have quoted for the following optional accessories as indicated under clause 4.3

Signature Not Verified

Digitally signed by SHASHI BHUSHAN KUMAR
 Date: 2024.10.10 17:11:36 IST
 Reason: IREPS-CR
 Location: New Delhi

DME/C & W /LKO.
 मंडल यंत्रिक अभियन्ता (कि० पै०)
 मंडल कार्यालय, उ०रे०
 सखरतगंज, लखनऊ

मण्डल यंत्रिक अभियन्ता
 उ०रे०, वाराणसी
 Divl. Mech. Engineer
 N.R. Varanasi

कोचिंग डिपो अधिकारी
 उ०रे०, वाराणसी
 Coaching Depot Officer
 N. Rly., Varanasi

सीनियर सेशन इंजीनियर
 उ०रे० वाराणसी
 N.R. Varanasi
 Sr Section Engineer

of Section-I

SN	Description of the optional accessory	Quantity (in Nos.)	Rate(in Rs.)	Indigenous	Shelf Life (in Months)

5. We have quoted for following recommended perishable and non-perishable spare required for normal maintenance to cover complete range of mechanical, hydraulic and electrical equipments including controls on double shift working basis:

Perishable Spares:

SN	Description of the spares	Part number	Quantity(In Nos.)	Rate (In Rs.)	Shelf Life (in Months)

Non-perishable spares:

SN	Description of the spares	Part number	Quantity (In Nos.)	Rate (In Rs.)

6. *We hereby confirm that we are the OEM and undertake to supply spare parts for a period of expected life of machine.

OR

*We hereby confirm that we are not the OEM, but are submitting undertaking from OEM for supply of spare parts for a period of expected life of the machine to provide maintenance spares (as and when ordered) after the expiry of the Warranty for 2 years (life of machine minus 2yrs) including the maintenance spares required for the bought out sub-assemblies and parts.

(*Strike out which ever is not applicable)

7. We have quoted consumables required as per clause 6.1 of Section-II of Bid document Pt II, in the format give below

SN.	Description of the consumable spares	Qty	Unit	Rate

8. It is certified that we are having suitable facilities at our works for carrying out various performance tests on the sub-assembly/assembly/machine and these shall be made available to the inspecting authority.

9. **BOUGHT OUT ITEMS:** We hereby furnish a list of all critical items/ sub-assemblies which are bought out by us and proposed to be used, along with the manufacturer's name, brand model etc.

S. No.	Description	Item no.1	Item no. 2	Item no. 3
1.	Brief description of item			
2.	Model no.			
3.	Make			
4.	Quantity/machine			
5.	Manufacturer's name and complete address			
6.	Whether imported or indigenous			
7.	Country of origin			

10. We have quoted for Preventive Maintenance during warranty and comprehensive Annual Maintenance Contract as per clause 16.3 & clause 17 of Section-II respectively. Details of preventive maintenance services including cleaning of

machine to be provided under PMC during warranty and AMC is given in the following format.

SN	TYPE OF PREVENTIVE SCHEDULE	PERIODICITY	ITEMS TO BE CHECKED	ITEMS OF REPLACEMENT	EXPECTED PLANTDOWN TIME

11. We further submit the following information about the offered machine as per the technical specification section-II and Important Features of the tender section-I. We understand that any omission of any of the below mentioned information will render our offer incomplete to that extent.

S.No	Information required	As per Clause No.	Value /Write up/ Brochure
1.	Leading Parameters 1. Major Parameters (cl.2.2.1 & 2.2.2 of Section-I) 2. Other Parameters (cl.2.2.3 of Section-I)	2.2 of section I	values
2.	Technical Details/Particulars of Motors, Control Gears, Voltage Stabilizer & Isolation Transformer	2.0 of Section-II	
2.1	A.C. Motors and Control Gears AC MOTOR <ul style="list-style-type: none"> Manufacturer's Name Type of enclosure Type of duty (Ref. IS: 325) (Latest) Rating-Continuous/intermittent Output (KW/BHP) AC voltage across phases, number of phases & frequency. Speed in RPM Class of insulation Normal full load current Starting current Maximum current at the time of change over from lower speed to higher speed Type of motor-Squirrel cage/slipring (wound rotor) Temperature rise of windings and other parts allowed above an ambient temperature of 50 degree C. Frame size of motor End use of motor CONTROL GEARS <ul style="list-style-type: none"> Manufacturer's Name Type of control gear (Direct on line/Star Delta/Auto-transformer etc.) Rating of starting gear in KW & amps. Short circuit protection (y/n) No volt trip (y/n) Overload trip (y/n) Delayed action current sensitive single phasing preventor (y/n) Standard specifications to which the motor control gear and its ancillary offered conform to 		Write-Up/brochure/ details/values
2.2	D.C. Motors and Control Gears DC MOTOR <ul style="list-style-type: none"> Manufacturer's Name 		Write-Up/brochure/ details/values

	<ul style="list-style-type: none"> Type of enclosure Type of duty (Ref. IS: 4722) (Latest) Rating-Continuous/intermittent Output (KW/BHP) DC voltage across phases, number of phases & Frequency Method of excitation whether shunt, series, compound or separately excited, if separately excited state excitation voltage. Speed in RPM Class of insulation Normal full load current in amps. Starting current Temperature rise of windings and other parts allowed above an ambient temperature of 50 degree C. Frame size of motor End use of motor <p>CONTROL GEARS</p> <ul style="list-style-type: none"> Manufacturer's Name Type of control gear (Direct on line/Resistance type/Thyristor type) Rating of starting gear in KW & amps. Short circuit protection (Y/N) No volt trip (y/n) Overload trip (y/n) Standard specifications to which the motor control gear and its ancillary offered conform to Standard specification to which control gear conforms to 		
2.3	<p>Voltage Stabilizer & Ultra Isolation Transformer</p> <p>VOLTAGE STABILISER</p> <ul style="list-style-type: none"> Manufacturer's Name Type of voltage stabilizer : <ol style="list-style-type: none"> DC servo motor type AC servo motor type Solid state Rated capacity in KVA Nos. of phases & frequency Type of input supply unbalanced Input voltage Output voltage Rate of correction Class of insulation & winding (only copper wound is acceptable) Type of control circuitry Class of duty Type of cooling Indicating instruments and their ranges Safety features <p>ULTRA ISOLATION TRANSFORMER</p> <ul style="list-style-type: none"> Manufacturer's Name Rated capacity Ratio of input/output voltage 		Write-Up/brochure/details/values

Signature of DME/C & PW /LKO.
Verified

डिवीजनल यंत्रिक अभियन्ता (कै० वै०)

Digitally signed by SHASHI BHUSHAN KUMAR
Date: 2024.10.10 17:11:36 IST
Reason: IREPS-CRIS
Location: New Delhi

हजरतगंज, लखनऊ

मण्डल यंत्रिक अभियन्ता
3020, वाराणसी
Divl. Mech. Engineer
N R. Varanasi

काचिंग डिपो अधिकारी
Coaching Depot Officer
3020, वाराणसी
N.R., Varanasi

सीनियर सेक्शन इंजीनियर
Sr Section Engineer
3020 वाराणसी
N.R Varanasi

	<ul style="list-style-type: none"> Class of insulation Arrangement for suppression of power line surges, spikes, transients and noises Type for cooling. 		
3.	Break up of floor to floor cycle time and other necessary details	2.4 of section I	Write-up/ (tabular sheet)
4.	Details as per subject clause	2.4.6 of section I	Graph
5..	Details of concomitant accessories	4.2 of section I	Write-Up/brochure
6.	Details of actual work involved	4.2.3.1 of section I	Write-up
7.	Details of optional accessories	4.3 of section I	Write-Up/brochure
8.	Details of safety features present in the machine	1.1 of section II	write-up
9.	Full technical details of the Rail cum Road shunter including make and model, power rating, capacity, etc.	1.2.2 & 1.2.2.1 of section II	write-up
10.	Full technical details as per clauses of Section-II	1.2.2 & 1.2.2.1 & 1.2.2.3 of section II	write-up
11.	Details of material composition and load bearing capacity of rollers	1.2.3.2 of section II	write-up
12.	Axle box support and clamping arrangement	1.2.3.3 of section II	write-up/schematic/Drawing
13.	Arrangement provided for positioning the wheels in vertical, horizontal and in lateral direction	1.2.3.5 of section II	write-up/schematic/Drawing
14.	Details of machining head, its independent drive unit and synchronisation of independent drive unit	1.2.4.1 of section II	write-up
15.	Material specification hardness & surface finish of driver rollers	1.2.4.2 of section II	Write/values
16.	Type, size, precision class and make of bearings	1.2.4.2 of section II	Write up/values
17.	Method of speed control	1.2.4.3 of section II	Write up
18.	Details of fully floating drive rollers	1.2.4.4 of section II	Write up
19.	Detailed design calculation for cutting force at minimum and maximum depth of cut and feed rate	1.2.4.6 of section II	Write up/values/calculations
20.	Constructional details of measuring system	1.2.5.1 of section II	Drawings/write up
21.	Working principals of measuring system	1.2.5.1 (c) of section II	Write up
22.	Configuration and make of components, monitor and printer	1.2.5.3 of section II	Write up/technical/manufacture literature
23.	Method of calibration, time taken in calibration and recommended frequency for calibration of equipment	1.2.5.4 of section II	Write up/values/ta

Signature Not
Verified

Digitally signed by SHASHI BHUSHAN KUMAR
Date: 2024.10.10 17:11:36 IST
Reason: IREPS-CRIS
Location: New Delhi

मण्डल यांत्रिक अभियन्ता
30 रे०, वाराणसी
Divl. Mech. Engineer
N R. Varanasi

कोचिंग डिपो अधिकारी
Coaching Depot Officer
उ० रे०, वाराणसी
N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर
Sr Section Engineer
उ० रे० वाराणसी
N.R Varanasi

			blulated values
24.	Capability of CNC system for performing automatic cutting cycle integrated with in process of measuring System	1.2.6.1 of section II	Write up
25.	Details of No. axes provided in CNC system	1.2.18.1 of Section II	values
26.	Determination of min. Metal removal as per subject clause	1.2.6.3 of section II	Write up/values
27.	Arrangement to indicate treat diameter before and after turning	1.2.6.6 of section II	Write up/values
28.	Details as per subject clause to be explained	1.2.7.1 of section II	Write up
29.	Details of heat exchanger	1.2.9.4 of section II	Write up
30.	Details of electrostatic oil filtration equipment	1.2.10 of section II	Write up
31.	Details of lubrication system	1.2.11.3 of section II	Write up
32.	Details of swarf disposal system as per subject clause	1.2.12.1 of section II	Write up/ schematic drawing
33.	Details of chip crusher arrangement and safety measures	1.2.12.2 of section II	Write up/ schematic drawing
34.	Details of Hold-down Device	1.2.14 of section II	Write up/ schematic drawing
35.	Details of Axle Box Support Jack	1.2.14.2 of section II	Write up/ schematic drawing
36.	Details of cable, IS and make	1.2.17.1 of section II	Write up
37.	Details as per clause	1.2.18.1 of section II	Write up
38.	Details as per subject clause	1.2.18.20 of section II	Write up
39.	Comments on infrastructure of repairs of controls and PCBs/Module	1.2.18.33 of section II	Write up
40.	Full details of load meter and safety controls	3.2.7 of section II	Write up
41.	System of adjustment for wear compensation	3.6.1 of section II	Write up
42.	Details of coolant System	3.7.1 of section II	Write up
43.	Brand names of lubricating oil of Indian oil companies	3.8.6 of section II	Write up
44.	Details of lubricating system	3.8.7 of section II	Write up
45.	Details of pneumatic control & make (if applicable)	3.9.4 of section II	Write up
46.	Brand name of hydraulic oil of Indian oil companies	3.10.6 of section II	Write up
47.	Catalogue of the machine	4.1 of section- II	Brochure

Signature Not Verified

DME/C & M/LKO.
 Digitally signed by SHASHI BHUSHAN KUMAR
 Date: 2024.10.10 17:11:36 IST
 Reason: IREPS-CRIS
 Location: New Delhi

मण्डल यंत्रिक अभियन्ता
 30 रे०, वाराणसी
 Divl. Mech. Engineer
 N.R. Varanasi

कोचिंग डिपो अधिकारी
 Coaching Depot Officer
 30 रे०, वाराणसी
 N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर
 Sr Section Engineer
 30 रे० वाराणसी
 N.R. Varanasi

48.	Quality Assurance Plan & ISO certificate	9.1 of section-II	Write-up
49.	Sample Inspection Chart	9.4 of section-II	Drawing
50.	Training Schedule	10.3 of section-II	Write-up
51.	Service facility in India	13.0 of section II	Write-up
52.	Maximum height between the rails by which the machine protrudes above the rail level with location of protrusion.		Write-up/value
53.	Wheelset rotational speed in RPM for turning wheels having tread diameter of 800mm, 900mm, 1000mm and 1250mm	2.2.1.2 of section-I	Value
54.	Main motor power		Value
55.	<ul style="list-style-type: none"> Total weight of the machine. Model of machine Total weight of machine along with packing Total connected electrical load and its break up. Total working area Maximum floor space area required for installation and commissioning of the machine. Facilities required during commissioning of the machine Overall dimensions of the machine in packed condition. Maximum size of packing and no. of packages 	Misc.	Values Write-up Values Values Values Values Values Write-up Write-up Values
56.	Dimensions (lxbxh) & weight of the major sub-assemblies: <ul style="list-style-type: none"> Machine Bed Head stock Tail stock Carriage 	Misc	Values Values Values Values Values
57.	Clause wise compliance against Sections I & II (which are not covered above in this table)		Write-up/ values/ brochures

Signature of the
authorized representative of the bidder
with company stamp

Signature Not
Verified

Digitally signed by
SHASHI BHUSHAN
KUMAR
Date: 2024.10.10
17:11:36 IST
Reason: IREPS-CRIS
Location: New Delhi

Sr. DME/C & W. LKO.

मंडल यंत्रिक अभियन्ता (कै० वै०)
मंडल कार्यालय, उ०रे०
हजरतगंज, लखनऊ

मण्डल यंत्रिक अभियन्ता
उ०रे०, वाराणसी
Divl. Mech. Engineer
N R Varanasi

कोचिंग डिपो अधिकारी
Coaching Depot Officer
उ०रे०, वाराणसी
N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर
Sr Section Engineer
उ०रे० वाराणसी
N.R Varanasi

ANNEXURE-B OF SECTION -III

FORMAT FOR INDEMNITY BOND

This deed of Indemnity executed by M/s.-----hereinafter referred to as Indemnifier' which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, representative and assignees in favour of Northern Railway, Hqrs Office, Baroda House, New Delhi – 110 001, India, hereinafter referred to as the 'Indemnified' which expression shall unless repugnant to the context or meaning thereof, include its successors and assignees witnesses as to.

Whereas the Indemnifier herein had participated in a global tender for the supply of ----- (machine name) which is opened on ----- (date) on terms and conditions set out inter alia in the Tender Document.

And whereas, clause of the above mentioned tender document described that the machine shall be designed for a life of 20 years with regular maintenance and all the structural members of the machine should be guaranteed for 20 years against cracks, breakages etc. during the course of normal operations from the date of commissioning whichever is earlier of the stores supplied by the Indemnifier to the indemnified.

The indemnifier hereby irrevocably agrees to indemnify the indemnified that in the event of the said machine not achieving the life guarantee, the indemnifier shall as may be deemed necessary repair the defective machine at site, free of cost, within a reasonable time specified by the indemnified or reimburse the pro-rata cost of the machine to the extent a life not achieved as per the guarantee, or supply a spare stores for the defective portion only free of cost at site.

Bidder's authorized signatory

With seal

Station:

Date:

Witness: 1.-----

(Signature with Name, Designation & Address)

2.-----
(Signature with Name, Designation & Address)

Signature Not Verified
Digitally signed by SHASHI BHUSHAN KUMAR
Date: 2024.10.10 17:11:36 IST
Reason: IREPS-CRIS
Location: New Delhi

मण्डल यांत्रिक अभियन्ता
30 रे 0, वाराणसी
Divl. Mech. Engineer
N.R. Varanasi

कोचिंग डिपो अधिकारी
Coaching Depot Officer
30 रे 0, वाराणसी
N.R. Varanasi

सीनियर सेक्शन इंजीनियर
Sr. Section Engineer
30 रे 0 वाराणसी
N.R. Varanasi

ANNEXURE-C OF SECTION- III
JOINT RECEIPT INSPECTION NOTE

Date.....

Sub: Receipt of consignment for machine.....

Ref: PO No.....

1.	Name of consignee/Railway	
2.	Machine name	
3.	Quantity	
4.	Name of supplier	
5.	Consignment of the machine received on	

It is certified that the consignment of the machine has been received complete and in good condition as per specification shown in the contract.

Tentative plan for installation and commissioning of the machine is as under:

1.	Date of clear site provided	
2.	Contract	Turnkey/Non-turnkey
3.	Status of readiness of foundation:	
3(a)	Already constructed on	
3(b)	Under construction & likely date of its completion	
3(c)	Construction yet to be started from and & likely date of its Completion	
4.	Status of availability of electrical power, water and compressed air etc.	Available/Not-available
5.	Number of components to be proved out on the machine	
6.	Likely date for start of erection	
7.	Likely date for switch-on the machine	
8.	Likely date of completion of commissioning of the machine	

Representative of firm
Designation

Representative of consignee
Designation
(Minimum Gazetted level)

Signature Not DME/C & W / LKO.
Verified मंडल यांत्रिक अभियन्ता (कै० वै०)
Digitally signed by SHASHI BHUSHAN मंडल कार्यालय, उ०रे०
KUMAR हजरतगंज, लखनऊ
Date: 2024.10.10 17:11:36 IST
Reason: IREPS-CRIS
Location: New Delhi

मंडल यांत्रिक अभियन्ता
उ०रे०, वाराणसी
Divl. Mech. Engineer
N R Varanasi

काचेग डिपो अधिकारी
Coaching Depot Officer
उ०रे०, वाराणसी
N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर
Sr Section Engineer
उ०रे० वाराणसी
N.R Varanasi

ANNEXURE -D OF SECTION -III

JOINT COMMISSIONING NOTE

Sub: Commissioning of (name of machine).....
 Ref: PO No.....

Date:.....

1.	Name of consignee/Railway	
2.	Machine name	
3.	Quantity	
4.	Name of supplier	
5.	Machine received on	

6. All the parameters of the machine are found okay. The proving test on the machine was conducted from to and machine is working satisfactorily.
7. Machine has finally been commissioned on..... The machine has been handed over for regular use and kept under one month observation to watch its performance.
8. Following minor deficiencies (if any) found during joint observation trials are to be attended/rectified by the firm during one month observation and before issuing the PTC for the machine:
- a.
- b.
- c.

Representative of firm
 Designation

Representative of consignee
 Designation
 (Minimum Gazetted level)

ANNEXURE -E OF SECTION- III

PERFORMANCE APPRAISAL FORMAPPRAISAL ON COMPLETION OF WARRANTY PERIOD

To, M/s.

Dated:.....

1.	PO No.	
2.	Consignee/Railway	
3.	Name of supplier	
4.	Machine Name	
5.	Machine received on	
6.	Machine commissioned on	
7.	PTC issued on	
8.	Warranty period expired on	
9.	Performance during warranty period:	
9(a)	Total number of breakdowns	
9(b)	Total downtime in number of days	
10(a)	Any warranty complaint pending on date	Yes/No
10(b)	If yes, then the date and nature of defect(s)	

11. In case, of the machine with mandatory PMC during warranty period, following details of breakdown hours for preceding eight quarters must also be furnished.

Quarter	Period From To	Breakdown hours
1		
to		
8		

Signature-----

Name-----

Designation: Dy.CME/Sr.DME/Dy.CEE/Sr.DEE as applicable
With Office StampCopy to:

1. CME/Plg
2. Sr. DFM/Dy.FA&CAO (or Finance Officer) of Associate Finance
3. PCMM/NR

Note:

- i.) This appraisal may please be sent immediately on completion of warranty period. If any extension of warranty period required, may please also be mentioned with details.
- ii) Sr.Scale Officer having independent charge is also authorized to sign.

Signature Not Verified
Sr. DME/C & /LKO.
मंडल यंत्रिक अभियन्ता (कै० वै०)
मंडल कार्यालय, उ०रे०
हजरतगंज, लखनऊ
Digitally signed by SHASHI BHUSHAN KUMAR
Date: 2024.10.10 17:11:36 IST
Reason: IREPS-CRIS
Location: New Delhi

मंडल यंत्रिक अभियन्ता
उ०रे०, वाराणसी
Divl. Mech. Engineer
N.R. Varanasi

कोचिंग डिपो अधिकारी
Coaching Depot Officer
उ०रे०, वाराणसी
N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर
Sr Section Engineer
उ०रे० वाराणसी
N.R Varanasi