

agree to provide service supports for trouble shooting and obtaining spare parts. The manufacturer shall be obliged to provide spare parts required by the Purchasers for a period of 12 years from the date of delivery of the machine at the ultimate destination to safeguard against obsolescence.

13.3 Tenderer who are OEM, shall undertake to supply spare parts for a period of expected life of machine. Other tenderers shall submit undertaking from OEM for supply of spare parts for a period of expected life of the machine.

13.4 During warranty period, the supplier or his authorized agent shall attend for break down as soon as possible, but in no case later than 72 hours of receipt of intimation of the breakdown.

#### 14.0 BOUGHT OUT ITEMS

14.1 The bidder shall furnish along with the offer a list of all critical items/ sub-assemblies which are bought out by the bidder and proposed to be used, along with the manufacturer's name, brand model etc. The successful bidder may be required to produce invoices to ensure genuineness of such products / verification by the Inspecting agency.

14.2 The bidder should clearly indicate that in case of components/sub assemblies taken from reputed companies such as Vickers, Rexroth, RITTAL, THK, and Shenburger etc., the parent company has already entered into contract with their Indian units/affiliates for undertakings repairs/after sales service during warranty and post warranty.

S.No.	Sub-assembly	Make
1.	CNC & Drive Controller	SIEMENS/FANUC/Heidenhain
2.	Hydraulic system	Rexroth/Vickers/Yuken/Atos/Parker
3.	Feed back devices	Heidenhain, Fagor, Siemens, Fanuc
4.	Ball screws	THK/INA/Tsubaki/Rexroth/Steinmeyerstar/ Gamflor / Schenburger/Shuton.
5.	Air conditioner for Control cabinet	RITTAL/Warner Finley/Kelvin
6.	Spindle Bearings	FAG/SKG/Timken/NTN/KOYO
7.	Lubrication System	Cenlub/Dropco/Vogel/ Rexroth
8.	Electrical Control Cabinet	RITTAL/ Siemens or of other reputed make with IP55 Protection level
9.	Servo Controlled Voltage Stabilizer	Neel/Servomax/Consul/Aplab
10.	Ultra Isolation Transformer	Neel/Servomax/Consul/Aplab
11.	Electromagnetic clutch	Vortex /Ghatge Patil
12.	A.C. Motors	NGEF/BBL/ABB/KEC/Crompton/ Siemens/ Allen Bradley
13.	Brake motors	Siemens/KEC/Crompton/NGEF/BBL
14.	Proximity Switch	Elap/Schneider/Omron/Scanner
15.	Contactors	Siemens/BCH/ABB/Schneider/L&T
16.	Limit switches	BCH/Siemens/L&T/Teknic/Euchener/Honeywell, US
17.	Push button	Teknic/Siemens/ Schneider/BCH
18.	'O' Rings & rubber seals	Merlin/Parker/Busak/Hunger/Merkel/Soloseal/ Walkersolo/Halite
19.	Pneumatic Control Equipment	Festo/Shavo Norgen/Shradder Scovill/Electro Pneumatics/Parker/SMC Pneumatics
20.	Control gears	L&T/Siemens/BCH/ABB/Schneider

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सीनियर सैबरान इंजीनियर/पहिया  
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Asstt. Production Engineer  
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21.	Cable/wire	Siemens/Indramat/ Hubershnuer/ Finolex/Havells
22.	Gear reducer	Elecon/Greaves/Shanthi/ZF/New Allenbury/ Bongfilivali
23.	AC Drive	Fanuc/Siemens/ABB/Allen Bradley /Schneider
24.	AC servo motor	Fanuc/Siemens/ABB/Allen Bradley /Schneider
25.	PLC	Siemens/Fanuc/Mitsubhishi/Messung/Hitachi/ABB/ Allenbradley/Schneider
26.	Air circuit breaker	Siemens/L&T
27.	Connectors	Harting/Kontakt/L&T/Omron
28.	Hydraulic seamless tubes	Parker/Maharashtra seamless/Indian seamless
29.	MCCB	Schneider/ABB/Siemens/L&T
30.	Cutting tools	SANDVIK/KENNAMETAL – WIDIA/ISCAR/ TAEGU-TEC

**Note:** 1. In case any other reputed make is offered, satisfactory justification for the same will have to be given in the offer.

2. The bidder should explicitly mention "Not applicable", against the items, indicated above; whichever is not applicable in the offered machine.

- 15.0 COLOUR:** The machine and its accessories shall be painted in Apple Green Colour No.281 to IS: 5-1978, (if any specific colour code standardized by BIS is available, the same be given). The machine can also be painted in equivalent RAL/DIN/other International Standards. If there is a standard color scheme of the manufacturer, the same can also be considered and may be specified.
- 16.0 WARRANTY OBLIGATION**—The following conditions regarding Maintenance and reliability shall also apply:-
- 16.1** The machine shall be designed for a life of 20 years with regular maintenance and all the structural members of the machine and the foundation shall be guaranteed for 20 years against cracks breakages and etc. during the course of normal operations. Tenderer would submit suitable undertaking.
- 16.2** Foreign suppliers who do not have registered office / maintenance facilities in India may authorize an Indian agent, who shall be responsible for maintenance and break down support. In such case, Indian agent should have experience of maintaining at least 5 machines during past 5 years preceding the tender opening date. The tenderer should submit documentary evidence towards the experience of the Indian agent, along with the offer.
- 16.3** In addition to warranty obligations prescribed under clause 3400 and 3500 of the Bid Document Pt.-I, the warranty period would also cover comprehensive preventive maintenance, which will be inclusive of all spares, material and labour cost. All maintenance consumables like lubricants and grease except hydraulic oil / machine coolants shall form part of the scope of the preventive maintenance during the warranty. The cost of preventive maintenance to be carried out during warranty period should be quoted separately.
- 16.4** The payment of preventive maintenance schedule carried out during warranty period shall be made by COS/NR annually at the end of each year after completion of the work and Issue of certificate by the consignee as per annexure-E of section-VI.

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उत्तर प्रदेश सरकार  
उत्तर प्रदेश सरकार

सहायक निरीक्षण प्रबन्धक  
Asstt. Works Manager  
उत्तर प्रदेश सरकार  
N.T.O. 31

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उप मुख्य निरीक्षण अभियन्ता  
उत्तर प्रदेश सरकार



- 16.5 The machine shall at all times give contractual out-put and accuracy. Any deficiency or break down for a total of 02 hr. or more for a day would be treated as failure for the day, even if output is produced by external aid of railway means/resources, for the purpose of extending warranty period in terms of clause 3405 of Bid Documents Part-I.
- 16.6 The tenderer shall ensure that in case a failure is reported by a consignee, Qualified service engineers shall visit the site within two hours from the time of complaint. The period of two hours after the failure reported shall be treated as grace period, which will not count towards breakdown time. Complaints shall be lodged by consignee by fax phone, e-mail or per bearer at address given by the tenderer. One firm representative must be available all the time in location nearby so that he can attend failure within two hours of report of failure.
- 16.7 The details of preventive maintenance to be provided during warranty period shall be indicated by the tenderer giving details of type of preventive schedule, periodicity on items to be checked, items to be replaced and expected plant down time. Preventive maintenance schedules shall be conducted on weekends as far as possible or any other day through mutual agreement with consignees. Total breakdown hours shall be calculated after discounting grace period and preventive maintenance period.
- 16.8 Maximum permissible down time till it is restored back to the contractual output and accuracy levels, in any quarter of the year during the warranty period, shall be 130 hrs. In case the total breakdown period in any one of year during warranty period, exceeds 480 hrs., the consignee shall inform the same to COS/NR To ensure this a record of breakdown (duly signed by shop incharge) in hours on quarterly basis should be maintained by the consignee and joint report with the contractor shall be made for each breakdown attention. At the end of first and second year of warranty, these details of breakdown hours during warranty period should be advised to COS/NR as per performance appraisal report given in Annexure - E of section -VI. The firm will then request COS/NR for release of WBG annexing the performance appraisal report as per Annexure-E of Section-VI and the breakdown details mentioned above.  
Penalty will be levied on the bidder for breakdown period on working days basis (excluding holidays) after discounting for the grace period. Penalty will be calculated as percentage of annual preventive maintenance charges and will be deducted from the respective annual payments as under

Breakdown period	Applicable penalty
Up to 130 hours in each quarter and not exceeding 480 hours annually	Nil
Exceeding 130 hours - up to 180 hours in any quarter and not exceeding 480 hours annually	5 % of annual preventive maintenance charges + extension of warranty in hours for which machine is not given contractual output.
Exceeding 480 hours - up to 730 hours annually	10% of annual preventive maintenance charges + extension of warranty in hours for which machine is not given contractual output
Exceeding 730 hours - up to 1000 hours annually	25% of annual preventive maintenance charges + extension of warranty in hours for which machine is not given contractual output
Exceeding 1000 hours annually	50% of annual preventive maintenance charges and Encashment of Warranty Bank Guarantee besides other action like noting adverse performance of the bidder and/or agent for future tenders and their offer in

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उ० रे० जगन्धरी वर्कशाप

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	the subsequent tenders will not be considered for placement of any order.
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## 17.0 ANNUAL MAINTENANCE CONTRACT

17.1 Tenderer are required to quote for a comprehensive Annual Maintenance Contract for the machine supplied against this specification for a period of five years on yearly basis giving the rates for each year i.e. first year, second year, so on., which will be inclusive of all spares, material and labour costs. The duties and taxes as applicable should be indicated separately. All consumables spares and materials shall form a part of the scope of comprehensive AMC except as follows.

- Diesel/Fuel, lubricating oils or coolant
- Major machines elements/structural members which are under guarantee for a period specified in clause 16.1 as stipulated in 'warranty obligations' requirement.

17.2 AMC shall be operated, managed and paid by the consignees indicated under clause 3 of Section IV. The consignee shall indicate the bill payment authority & custodian of the AMC BG. No further agreement is required for operating AMC at consignee end.

17.3 AMC is a part of scope of supply, in case of concomitant requirement and included in commercial evaluation criteria vide clause 5 of Section-IV.

**The detailed terms and conditions of AMC shall be as given in following clauses:**

17.3.1 The duration of AMC shall be 5 years from the date of expiry of warranty. Rates for AMC shall be quoted by the tenderer on yearly basis, which will remain applicable during the duration of AMC and not subject to any variation except any statutory changes in taxes and duties as compared to quoted rates.

17.3.2 The tenderer must provide AMC services at the consignee location without any precondition. The AMC should include complete responsibility for the bought out sub assemblies and components like CNC system, diesel engine, AC unit etc.

17.3.3. The details of preventive maintenance services including cleaning of machine to be provided under AMC shall be provided by the tenderer in the following format.

S. No.	TYPE OF PREVENTIVE SCHEDULE	PERIODICITY	ITEMS TO BE CHECKED	ITEMS OF REPLACEMENT	EXPECTED PLANT DOWN TIME
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17.3.4 Preventive maintenance shall preferably be conducted on weekends through mutual agreement with the consignee. Each preventive maintenance schedule normally shall not exceed one day. One additional day may be given after consignee approval.

17.3.5 The tenderer shall ensure that in case a failure is reported by a consignee, qualified service engineers visit the site within 2 Hrs from the time of complaint. This period of 2 Hrs after the failure report shall be treated as grace period, which will not count towards plant down time.


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- 17.3.10.1 In all cases of plant failure except as mentioned in clause 17.3.10.2, any other spare part or material necessary to restore the plant to proper working order will be arranged by the tenderer as a part of AMC.
- 17.3.10.2. In case of damage to the machine on account of any external factor, viz., floods, earthquake, fire, arson or sabotage, entire cost of spare parts and material necessary for repair of the plant shall be borne by the railways. However, the tenderer shall provide services of their engineers free of cost as a part of AMC to restore the plant to working order.
- 17.3.10.3. In case of damage to the plant as mentioned in para 17.3.10.2, any spare parts and material necessary to restore the plant to proper working order shall be arranged by the tenderer and charged on actual basis duly certified by authorized railway official in the next quarterly bills. The rates charged for such spare parts shall be based upon the spare part rate list provided by tenderer in compliance of clause 5.2 or any other valid document. The tenderer shall furnish documents to support the rates charged for spares used for repair under para 17.3.11(a).
- 17.3.11. Normally quarterly payment (@ 1/4<sup>th</sup> of the annual quoted rates) under AMC will be made to the tenderer within 30 days from the end of that quarter subject to submission of the following documents by the tenderer to the paying authority assigned by the consignee:
- Consignee's certificate for work done as per Annexure-G of Section-VI with calculation of down time and penalty applicable.
  - A certificate by consignee that no spare part is due with the tenderer as per clause 17.3.10 above.
  - Bills submitted by the tenderer & accepted by consignee.
  - Attested photocopy of the AMC BG.
- 17.3.12 The AMC contract can be terminated in following ways:
- Consignee may terminate the AMC in the event of failure of tenderer to provide AMC services of the AMC agreement in addition to encashing of AMC BG as per clause 17.3.8.
- 17.3.13 Other general conditions shall be governed by Bid Document Part-I (Section-I, II and III) as applicable to respective COS/NR A/T.

  
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## SECTION VI

### 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 technical specification Section-V and we also confirm all the schedules given in the Delivery Schedule at para 7 of Section-IV. :

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

**Note1:** 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 VI, the values as given in the specification shall be taken as confirmed by the tenderer and offer evaluated accordingly.

**Note2:** In case tenderer offers internationally accepted alternative specifications as per clause 1.7, 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 clause 1.2 of special conditions during last 05 years:-

S N o	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	Table diameter

(C) We are submitting following performance certificate from past users as per clause 1.4 of Special Conditions:-

S.N.	User Name	Date Supplied	Date of issue of certificate	PO no. & dt.	Table 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:

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Asstt. Production Engineer

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- 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 of section IV

Sr No.	Description of the optional accessory	Quantity (in Nos.)	Rate	Indigenous	Shelf Life (in Months)

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

Perishable Spares...

Sr No.	Description of the spares	Part number	Quantity (In Nos.)	Rate	Shelf Life (in Months)

Non perishable spares

Sr No.	Description of the spares	Part number	Quantity (In Nos.)	Rate

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/AMC for 5 years (life of machine – 15yrs) including the maintenance spares required for the bought out sub-assemblies and parts.

(\*Strike out whichever is not applicable)

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

Sr No.	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

*[Signature]*

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Location: New Delhi

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bought out by us and proposed to be used, along with the manufacturer's name, brand model etc.

Sr 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- V 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.

S.No.	TYPE OF PREVENTIVE SCHEDULE	PERIODICITY	ITEMS TO BE CHECKED	ITEMS OF REPLACEMENT	EXPECTED PLANT DOWN TIME

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

S.N.	Information required	As per Clause No.	Value /Write up/ Brochure
1.	Leading Parameters 1. Major Parameters (2.2.1 of section IV) 2. Other Parameters (2.2.2 of section IV)	2.2 of section IV	values
2.	Technical Details/Particulars of Motors, Control Gears, Voltage Stabilizer & Isolation Transformer		

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2.1	<b>A.C. Motors and Control Gears</b>  <b>AC MOTOR</b> <ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Type of enclosure</li> <li>• Type of duty (Ref. IS: 325) (Latest)</li> <li>• Rating-Continuous/intermittent</li> <li>• Output (KW/BHP)</li> <li>• AC voltage across phases, number of phases &amp; frequency.</li> <li>• Speed in RPM</li> <li>• Class of insulation</li> <li>• Normal full load current</li> <li>• Starting current</li> <li>• Maximum current at the time of change over from lower speed to higher speed</li> <li>• Type of motor-Squirrel cage/slipring (wound rotor)</li> <li>• Temperature rise of windings and other parts allowed above an ambient temperature of 50 degree C.</li> <li>• Frame size of motor</li> <li>• End use of motor</li> </ul> <b>CONTROL GEARS</b> <ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Type of control gear (Direct on line/Star Delta/Auto-transformer etc.)</li> <li>• Rating of starting gear in KW &amp; amps.</li> <li>• Short circuit protection (y/n)</li> <li>• No volt trip (y/n)</li> <li>• Overload trip (y/n)</li> <li>• Delayed action current sensitive single phasing preventor (y/n)</li> <li>• Standard specifications to which the motor control gear and its ancillary offered conform to</li> </ul>		
2.2	<b>D.C. Motors and Control Gears</b>  <b>DC MOTOR</b> <ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Type of enclosure</li> <li>• Type of duty (Ref. IS: 4722) (Latest)</li> <li>• Rating-Continuous/intermittent</li> <li>• Output (KW/BHP)</li> <li>• DC voltage across phases, number of phases &amp; frequency</li> <li>• Method of excitation whether shunt, series, compound or separately excited, if separately excited state excitation voltage.</li> <li>• Speed in RPM</li> <li>• Class of insulation</li> <li>• Normal full load current in amps.</li> <li>• Starting current</li> </ul>		

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Location: New Delhi

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	<ul style="list-style-type: none"> <li>• Temperature rise of windings and other parts allowed above an ambient temperature of 50 degree C.</li> <li>• Frame size of motor</li> <li>• End use of motor</li> </ul> <b>CONTROL GEARS</b> <ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Type of control gear (Direct on line/Resistance type/Thyristor type)</li> <li>• Rating of starting gear in KW &amp; amps.</li> <li>• Short circuit protection (Y/N)</li> <li>• No volt trip (y/n)</li> <li>• Overload trip (y/n)</li> <li>• Standard specifications to which the motor control gear and its ancillary offered conform to</li> <li>• Standard specification to which control gear conforms to</li> </ul>		
2.3	<b>Voltage Stabiliser &amp; Ultra Isolation Transformer</b> <b>VOLTAGE STABILISER</b> <ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Type of voltage stabilizer :</li> <li>• a) a) DC servo motor type</li> <li>• b) b) AC servo motor type</li> <li>• c) c) Solid state</li> <li>• Rated capacity in KVA</li> <li>• Nos. of phases &amp; frequency</li> <li>• Type of input supply unbalanced</li> <li>• Input voltage</li> <li>• Output voltage</li> <li>• Rate of correction</li> <li>• Class of insulation &amp; winding (only copper wound is acceptable)</li> <li>• Type of control circuitry</li> <li>• Class of duty</li> <li>• Type of cooling</li> <li>• Indicating instruments and their ranges</li> <li>• Safety features</li> </ul> <b>ULTRA ISOLATION TRANSFORMER</b> <ul style="list-style-type: none"> <li>• Manufacturer's Name</li> <li>• Rated capacity</li> <li>• Ratio of input/output voltage</li> <li>• Class of insulation</li> <li>• Arrangement for suppression of power line surges, spikes, transients and noises</li> <li>• Type for cooling.</li> </ul>		

1.	Design features and manufacturing details of fixture.	2.1.5.3 of Sec IV	
2.	The schematic fixture design	2.1.5.4 Sec IV	
3.	Floor to floor cycle time as well as bare machining time of operation for wheels listed in Annexure 'F' of Section VI.	2.4 Sec IV	

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सिनियर सैरवान इंजीनियर / पहिया  
उ० रे०, जगाधरी वर्कशाप

Asstt. Production Engineer  
सहायक उत्पादन अभियन्ता  
N. Rly. Jagadhri Workshop  
उ० रे०, जगाधरी वर्कशाप

उप मुख्य चालीक अभियन्ता  
उत्तर रेलवे, जगाधरी वर्कशाप



	The basis of arriving at such timings i.e. speed, feed, number of rough and finish cuts, tools used, number of set ups, chucking and clamping pressure recommended, estimated timings of each element, depth of cut, number of passes, any other relevant data etc. Above information as asked in clause 2.4 of Section IV is to be furnished all the consignee.		
4.	Details of endurance test carried out at manufacturer's premises.	2.5.1 I Sec IV	
5.	Details of proposed cutting parameters for the test, like depth of cut, speed and feed.	2.5.1 (d) Sec IV	
6.	The manufacturer should furnish the proposed test scheme for carrying out this test at their works	2.5.1 (e) Sec IV	
7.	The details of toolings	4.2.4 Sec IV	
8.	Quantity, Grade and Brand Name of First fills	4.2.5 Sec IV	
9.	Details i.e. make, cooling capacity, type of refrigerant used etc of Air conditioning system	4.2.6 Sec IV	
10.	Details i.e. make, cooling capacity, type of Refrigerant used etc Refrigerant based cooling system for hydraulic system	4.2.8 Sec IV	
11.	Details of Foundation and leveling bolts/grip expansion bolts	4.2.9 Sec IV	
12.	List of Maintenance and service tools	4.2.11 Sec IV	
13.	Any other accessory essential for machining of wheels for operations indicated in Annexure "F" in Section VI should be quoted.	4.2.13 Sec IV	
14.	Any other accessory/ equipment, which the manufacturer considers essential to make the machine fully operational, when installed and commissioned connected to power source and give the specified output/productivity.	4.2.13 Sec IV	
15.	Specific details of the safety features	1.1.4 of Sec V	
16.	Adequate clearance should be provided between the column and the table to ensure un-interrupted flow of chips. The clearance provided should be indicated in the offer.	1.1.5 Sec V	
17.	The exact method followed for designing of machine elements	1.2.1.1 Sec V	
18.	The actual process followed for stress relieving. The method followed for maintaining controlled temperature conditions. The firm should indicate the value of grinding accuracy in micron/metre. The details of the various elements ( base, column, cross-rail, ram head, table etc.) material, heat treatment cycle and maximum permissible inclusion level in cast iron . Special design and constructional features of the elements (the bed, column, cross-rail, ram head, table etc.) must be fully explained in the offer.	1.2.1.2 Sec V	

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उप मुख्य चार्जिंग इंजीनियर / पहिया  
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Asstt. Engineer  
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उ० र०, जगाधरी वर्कशॉप

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उप मुख्य चार्जिंग इंजीनियर  
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19.	Detailed drawing of the offered machine including isometric view clearly indicating the various machine parts and accessories	1.2.1.4 Sec V	
20.	The details of the bed material and heat treatment cycle. Special design and constructional features of the bed.	1.2.2.1 of Sec V	
21.	Explanation regarding how the design of the bed will provide the operator easy access for loading and unloading of jobs, gauging, tool changing and other related functions.	1.2.2.2 of Sec V	
22.	Details of column and its special features, if any, should be explained in the offer.	1.2.4.2 of Sec V	
23.	The details of arrangement and design features of fixtures.	1.2.7.4 of Sec V	
24.	The quantum of braking effort.	1.2.7.9 of Sec V	
25.	The details of the arrangement provided for lubrication.	1.2.7.10 of Sec V	
26.	The size, precision level and class of ball screws and their make. The actual arrangement provided for feed movement.	1.2.8.2	
27.	The extent of change of speed by override.	1.2.8.3 of Sec V of Sec V	
28.	The location and type of lamp used. Operating voltage of lamps used on machine.	1.2.10.1 of Sec V	
29.	Actual details such as make, resolution and accuracy of measuring system provided to the various axis. Details of means provided for protection of linear scales.	1.2.11.2 of Sec V	
30.	Details of the arrangement provided to ensure that the coolant should not affect table bearings.	1.2.13.2 of Sec V	
31.	Details of the lubrication system like make of system, no of lubrication points.	1.2.14.1 of Sec V	
32.	Complete details in regard to Protection against over pressure and low lubrication oil pressure.	1.2.14.2 of Sec V	
33.	The control system should have provision of 32 bit or higher micro processor based integrated type of controller. Standard CNC system hard disk with 2 GB minimum should be provided.	1.2.15.1 of Sec V	
34.	It should be possible to add, delete or modify program blocks. An axis key block should be provided to prevent tempering with program edit.	1.2.15.10 of Sec V	
35.	The control panel should have provision for manual over ride for speed and feeds from 0-120% of the program value.	1.2.15.18 of Sec V	
36.	Details of chip conveyor. a. Type and make of chip conveyor b. Width of chip conveyor c. Type of motor and its KW d. Drive speed in mm/min e. Height of discharge of chip conveyor from the floor level 2. Schematic layout of the system and sub-assemblies.	1.2.16.1 of Sec V	

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सहायक उपनिर्देशक/पहिया  
उत्तर रेलवे, जगधरी वर्कशॉप

Asstt. Production Engineer  
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उत्तर रेलवे, जगधरी वर्कशॉप

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उत्तर रेलवे, जगधरी वर्कशॉप



	h. Material composition and hardness values of the conveyor Components		
37.	Details of toolings including tool post, boring bars, tool holders, and throw away carbide tipped inserts their grades. Complete tooling should be listed out and described in detail with individual prices	1.2.17.1 of Sec V	
38.	The no. of machines in the past supplied with the offered spindle taper.	1.2.17.2 of Sec V	
39.	The life of inserts	1.2.17.3 of Sec V	
40.	Features like graphic display of cutter path, calculation of machining time and other features available with the software.		
41.	<b>Miscellaneous</b>		
41.1	Chuck clamping diameter internal max. (mm) min. (mm)		
41.2	Chuck clamping diameter external max. (mm) min. (mm)		
41.3	Horizontal travel of ram head from a. Table centre towards right b. Table centre towards left		
41.4.	Maximum clamping force		
41.5	Cross section of ram		
41.6	Maximum cutting force		
41.7	Clamping force of solid wheel against maximum inner diameter Clamping force of solid wheel against minimum inner diameter		
41.8	Clamping force of solid wheel against maximum outer diameter		
41.9	Clamping force of solid wheel against minimum outer diameter		
41.10	Coolant pump motor Power KW		
41.11	Hydraulic System details a. Motor Power KW b. Maximum pressure Kg/sq cm c. Maximum flow rate LPM d. Tank capacity Ltrs.		
41.12	Total electrical load requirement of the machine and its break up KVA		
41.13	Net weight of the machine with concomitant accessories		
41.14	Total working area (L x W x H) required mm x mm x mm		

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उप मुख्य इंजीनियर/पहिया

उ०रे०, जगाधरी वर्कशॉप

Asstt. Production Engineer

सहायक उत्पादन अभियन्ता

N. Rly. Jagadhari

उ०रे०, जगाधरी वर्कशॉप

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41.15	Dimensions of the CNC VTL machine(L x W x H) mm x mm x mm		
41.16	Maximum distance in X-axis between table centre and spindle centre line.		
41.17	Maximum and minimum distance of spindle axis to table top in Y axis.		
41.18	Maximum and minimum distance of spindle nose to table centre in Z axis.		
41.19	Work piece swing in the working area and loading/unloading station.		
41.20	Range of feed rates in all the three axes.		
41.21	Constant torque range and power range of spindle motor.		
41.22	Load capacity of Table. Kg		
41.23	Table and pallet clamping forces.		
41.24	Detail of required facilities required during commissioning. <ul style="list-style-type: none"> <li>3. Surface area &amp; maximum height requirement of covered/uncovered areas.</li> <li>4. Requirement of compressed air, its pressure &amp; discharge should be indicated, if any</li> <li>5. Requirement of water supply, quality of water &amp; drainage, if any.</li> <li>4. Requirement of Material Handling equipments.</li> <li>5. Space requirement for storage purpose of the machine before commissioning covered/uncovered.</li> <li>6. Maximum size of packages containing the machine.</li> </ul>		
41.25	Model no.		
41.26	Max. material removal rate.		
41.27	Maximum depth of cut permissible		
41.28	Idle power consumption (KW)		
41.29	Give Technical details/Brochure of Solid state stabilizer with inbuilt isolation transformer	4.2.14 of sec IV	
41.30	Details as per clause 6 of Sec IV	6 of Sec IV	
41.31	Source of supply of filter as per clause	3.7.1 of Sec V	
41.32	Source of supply shall be indicated.	3.8.3 of Sec V	
41.33	Source of supply of filter/moisture trap as shall be indicated	3.9.2 of Sec V	
41.34	Full details of load meter and other safety features indicating how each one functions must be explained in the offer.	3.2.7 of Sec V	
41.35	Fanuc/ Siemens unit of the country which supplies CNC system should enter in to repair & Service contract with Fanuc/ Siemens India for attending the defects. Documents must be enclosed in the offer.	1.2.17.33 of Sec V	

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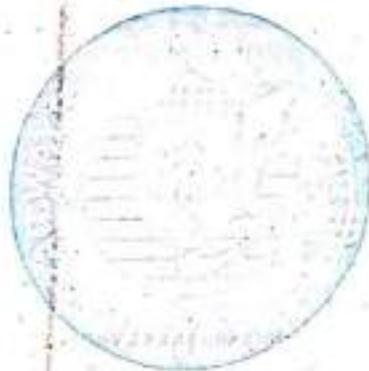
Asstt. Production Engineer  
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उत्तर रेलवे, जगाधरी वर्कशाप



41.36	The details of preventive maintenance during warranty period .	16.7 of Sec V	
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Signature of the  
authorized representative of the bidder  
with company stamp



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सुनियर सेवान इजीनियर/पडिया  
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उप मुख्य दानिका अभियन्ता  
उत्तर रेलवे, जगाधरी वर्कशाप

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Complaints shall be lodged by consignee by fax, e-mail or per bearer at address given by the tenderer. The responsibility to keep the failure reporting address details current will rest with the tenderer.

17.3.5.1 In case of firm representative shows inability in rectifying Failure or deficiency within same Day, firm must take approval from consignee in written for expected time required for rectifying failure.

17.3.5.2 At least qualified service engineer from firm must be available all the time in location Nearby, so that he can attend the failure within 2 hours of complaint. If He fails to attend within 2 hours, penalty equivalent to AMC cost per day will be imposed.

17.3.6 Incase preventive maintenance is carried out along with breakdown maintenance schedule; preventive maintenance time will be deducted from breakdown time of the plant.

17.3.7 Penalty Clause: Penalty shall be levied on the tenderer for maintaining plant up time if Machine remains under breakdown for more than 10 days calculated on working days basis, after discounting for grace period and preventive maintenance period. Penalty shall be calculated as AMC cost per day and will be deducted from the respective quarterly payments. If penalty cost exceeds respective quarterly payment then it will be deducted from subsequent quarterly payment. Penalty calculation will be done over quarterly payment period as under:

S.No	Availability Slab	Applicable Penalty
1	If Machine remains down more than 240 hours to 480 Hours	AMC cost per day, (Calculation of AMC cost = Quarterly AMC cost /No. of Working days )
2	If Machine remains down more than 480 hours	2 x ( AMC cost per day) Calculation of Amc cost = Quarterly AMC cost /No. of Working days )

17.3.8. A Bank Guarantee equal to  $\frac{1}{4}$  of annual value (highest of the annual values if the rates offered for various years are different) of AMC subject to a minimum value of 1.25% of the quoted cost of machine including concomitant accessory (in case the annual AMC rate quoted is less than 5% of the cost of machine), will be submitted by the tenderer to the consignee 90 days before the expiry of warranty. AMC will have the validity of 5 years 6 months. The bidder can submit multiple BG for lesser duration to cover the period of 5 year 6 months ensuring the uninterrupted validity of the AMC BG for 5 year 6 months. The confirmation for the submission of this BG will be returned on completion of AMC period. Incase, the tenderer fails to provide AMC services successfully, the AMC BG will be forfeited. This will be in addition to penalty as per clause 17.3.7 above. This provision would not be applicable where the advance payment is made.

17.3.9 Plant up time of less than 60% for two consecutive quarters will constitute complete failure of tenderer to provide the AMC services successfully and will result in forfeiture of AMC BG, besides other action like noting adverse performance of the bidder and/or agent for future tenders and their offer in the subsequent tenders will not be considered for placement of any order. This will be in addition to penalty clause 17.3.7 above for the period of actual performance.

17.3.10 As per clause 5.1. of bid document Part-II section V, where AMC is part of evaluation of offer, it is the sole responsibility of bidders to stock all spares and materials as required for smoother execution of AMC in order to achieve response time in compliance to machine availability as per stipulated requirements.

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सहायक निरीक्षण इंजीनियर/पहिया  
उत्तर रेलवे, जगाधरी वर्कशॉप

सहायक निरीक्षण प्रबन्धक  
Asstt. Works Manager  
उत्तर रेलवे, जगाधरी वर्कशॉप  
N. Rly, Jaga: Jhri W/Shop

उप मुख्य कार्य निरीक्षण  
उत्तर रेलवे, जगाधरी वर्कशॉप

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**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 Controller of Stores, New Delhi - 110 002, 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 15 years with regular maintenance and all the structural members of the machine should be guaranteed for 15 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)

सिनियर सेक्शन इंजीनियर/पहिया  
उ० रे०, जगाधरी वर्कशॉप

Asstt. Production Engineer  
सहायक उत्पादन अभियन्ता  
N. Rly. Jagadhri Workshop  
उ० रे०, जगाधरी वर्कशॉप

उप मुख्य यांत्रिक अभियन्ता  
उत्तर रेलवे, जगाधरी वर्कशॉप  
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Location: New Delhi



JOINT RECEIPT INSPECTION NOTE

Date.....

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

Ref: COS/NR Contract 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)

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Verified

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सहायक उत्पादन अभियन्ता  
उ० रे०, जगधरी वर्कशॉप

Asstt. Production Engineer  
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JOINT COMMISSIONING NOTE

Date:.....

Sub: Commissioning of (name of machine).....

Ref: COS/NR AT No.....

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:
- - 
  -

Representative of firm  
Designation

Representative of consignee  
Designation  
(Minimum Gazetted level)

सीनियर सेक्शन इंजीनियर/पहिया  
उ० रे०, जगाधरी वर्कशॉप

Asstt. Production Engineer  
सहायक उत्पादन अभियन्ता  
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उ० रे०, जगाधरी वर्कशॉप

उप मुख्य यान्त्रिक अभियन्ता  
आर रेलवे, जगाधरी वर्कशॉप

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Location: New Delhi

PERFORMANCE APPRAISAL FORM

APPRAISAL ON COMPLETION OF \_\_\_\_ YEAR of WARRANTY PERIOD

To, M/s. ....

Dated .....

1.	COS/NR AT 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

Office Stamp

1. COS/NR/Railway ,New Delhi
2. CME(PCM)/COS/NR/Railway New Delhi-110 002
3. FA&CAO/COS/NR

Note:

i.) This appraisal may please be sent immediately on completion of first and second year 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 authorised to sign.



Asstt. Production Engineer  
सहायक उत्पादन अभियन्ता  
N. Rly. Jagadhri Workshop  
उ०रे०, जगाधरी वर्कशॉप

उप मुख्य यंत्रिक अभियन्ता  
उत्तर रेलवे, जगाधरी वर्कशॉप

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Location: New Delhi



## ANNEXURE-F

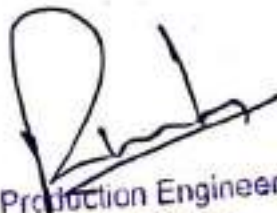
LIST OF COMPONENTS TO BE LOADED ON THE MACHINE

SL. NO.	DESCRIPTION (COMPONENT)	DRAWING NO.	Machining Operations To be carried out
1	BG Conventional Wheels (Forged & Cast Wheels)	WWL-1660, WWL-1660/R	As per drawing
2	EMU Wheels (Forged Wheels)	RDSO/SK-K4004	-Do-
3	FIAT Wheels (Forged Wheels)	RCF drg :- MI006615	-Do-
4	BOXN Wheel Disc	WWL-4764	-Do-
5	BLC Wheel Disc	CONTR-9404-S-13	-Do-
6	Wheel Disc for BVZC	RWF-W-117	-Do-

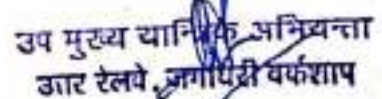
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सीनियर सेशन इंजीनियर/पहिया  
उ० रे०, जगाधरी वर्कशॉप



Asstt. Production Engineer  
सहायक उत्पादन अभियन्ता  
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उ० रे०, जगाधरी वर्कशॉप



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Location: New Delhi

**Consignee's Certificate for Quarterly Work Done Under AMC**

1. Name of Plant: \_\_\_\_\_
2. Consignee \_\_\_\_\_
3. COS/NR AT No. \_\_\_\_\_
4. Name of Contractor \_\_\_\_\_
5. Quarterly charges for AMC(Standard): Rs. \_\_\_\_\_  
As per COS/NR AT no. \_\_\_\_\_ dt. \_\_\_\_\_
6. Quarter for which bills are preferred: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_
7. No. of Breakdowns during the quarter: \_\_\_\_\_
8. Calculation of Penalty and Net AMC charges payable to Contractor for the quarter:
  - i. Total Plant Down Time (in days): \_\_\_\_\_
  - ii. Standard down days for preventive maintenance (in days/quarter): \_\_\_\_\_
  - iii. Total grace period for break down: \_\_\_\_\_
  - iv. Net down time for the plant [= (i)-{(ii)+(iii)}] : \_\_\_\_\_
  - v. 100% Availability for the quarter (in days) : \_\_\_\_\_
  - vi. Actual availability [= (v)-(iv)] : \_\_\_\_\_  
Actual availability in %age [= {(vi) / (v)}x 100]: \_\_\_\_\_
  - vii. Calculation of penalty:
    - a. %age availability below 90% to 80%: \_\_\_\_\_
    - b. %age availability below 80%: \_\_\_\_\_
    - c. Penalty[={(vii a)x(5)x0.005 +(vii b)x(5)x0.01)}]: \_\_\_\_\_
  - viii. Net amount payable as AMC charges to [= (5)-(vii c)] \_\_\_\_\_

It is certified that all spares borrowed by the contractor for the previous quarter have been returned in good condition.

Signature of authorized representative of consignee

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Asstt. Production Engineer  
सहायक उत्पादन अभियन्ता  
N. Rly. Jagadhri Workshop  
उ० रे०, जगाधरी वर्कशॉप

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उत्तर रेलवे, जगाधरी वर्कशॉप



(COS/NR)

## REPORT ON FRESH TECHNICAL SUITABILITY ASSESSMENT

on  
M/S

of

## CONTENTS:

## PAGE NO.

- Para - 1 : GENERAL INFORMATION (MISCELLANEOUS)  
 Para - 2 : GENERAL INFORMATION (TECHNICAL)  
 Para - 3 : DESIGN CAPABILITY  
 Para - 4 : MANUFACTURING PROCESS  
 Para - 5 : QUALITY ASSURANCE  
 Para - 6 : AFTER-SALES SERVICE  
 Para - 7 : PAST PERFORMANCE  
 Para - 8 : COMMERCIAL INFORMATION  
 Para - 9 : CONCLUSIONS AND RECOMMENDATION

## LIST OF ANNEXURES :

- A : LIST OF MANAGERIAL & SUPERVISORY STAFF  
 B: PLAN OF MAIN WORKS AT .....NOT ENCLOSED.  
 C: LIST OF MACHINERY & PLANT  
 D: LIST OF RAW MATERIALS IN STOCK  
 E: LIST OF IMPORTANT CUSTOMERS & ORDERS  
 F: DELIVERY AND COMMISSIONING PERFORMANCE  
 G: SSI(and similar)REGISTRATION CERTIFICATES  
 H: COPY OF LATEST ELECTRICITY BILL  
 I: INCOME TAX CLEARANCE CERTIFICATE  
 J: Q.A.P. OF THE FIRM.

सुनीयर सेबतान इंजीनियर/पहिया  
 उ० २०, जगाधरी वर्कशाप

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 N. Rly. Jagadhri Workshop  
 उ०२०, जगाधरी वर्कशाप

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(COS/NR)

**REPORT ON TECHNICAL SUITABILITY ASSESSMENT**  
ON of  
M/S

**1.0 GENERAL INFORMATION--MISCELLANEOUS**

1.1 Name of the firm :

1.1.1 Background in Brief

1.1.2 Location

1.2 Postal Address.

i. Head Office :

ii. Works/Factory :

iii. Agents (if any) :

1.3. Telephone No.(with STD code).

i. Head Office :

ii. Works/Factory :

iii. Residence of important  
officials.

iv. Agents :

1.4. Telegraphic address &amp; Telex/Fax. :

i. Head Office :

ii. Works/Factory :

iii. Agents :

1.5 Description of Factory/Works.

i. Total land area :  
(in Sq.metres)ii. Total covered area :  
(in sq.metres)iii. Different sub-units :  
(with details of covered/  
Uncovered area, etc.)

iv. Special features, if any:

1.6. No. of personnel employed (category-wise).

i. Managerial :

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उ० रेल०, जगाधरी वर्कशॉप

Asstt. Production Engineer  
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उ० रेल०, जगाधरी वर्कशॉप

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ii. Supervisory :  
(Attach statement of managerial & sup.  
staff at Ann. A)

iii. Skilled artisans :

iv. Unskilled :

1.7 Hours of working :

## 2.0 GENERAL INFORMATION--TECHNICAL

2.1 Description of different departments in the Factory/Works and function of each department.

2.1.1 The break-up of different work areas given below refers to the main works at . In addition,

Administrative Block  
Fabrication and assembly  
Machine Shop  
Store  
Laboratory

2.1.2 A plan of the works at \_\_\_\_\_, as described above, is attached at Annexure-B.

2.2 Detailed description of Machinery and Plant in each department (make and year of procurement/commissioning to be provided. For special type of equipment copy of pamphlets/write ups to be furnished so as to supplement the description).

2.2.1 The list of machinery & plant available is attached at Annexure-C.

2.3 Plans for future expansion, if any.

2.3.1

2.4 Details of raw-materials held in stock (state whether imported/indigenous).

2.4.1 List of raw-materials held in stock is at Annexure-D.

2.5 Production Capacity.

i. Per month :

ii. Per year :

2.6 Type of Stores/Items, which the firm is capable of manufacturing.

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**3.0 DESIGN CAPABILITY****3.1 Availability of Qualified Personnel.****3.1.1****3.2 Assessment of Expertise and Facilities.****3.2.1****4.0 MANUFACTURING PROCESS****4.1 Level of in-house Facilities****4.1.1****4.2 Important Items of Work by Outside Vendors****4.2.1****4.3 Brief details of manufacturing process relevant to the items for which technical suitability assessment is sought.****4.3.1****4.3.2****5.0 QUALITY ASSURANCE.****5.1 Does the factory have an established Quality Assurance Programme. If yes, please enclose a copy of the write-up? If not, what plans are there if any for setting it up?****5.1.1****5.2 Details of Quality Assurance Organisation. Names of key Personnel, their qualifications, designations and position in overall management structure (explain with organisation chart, if necessary).****5.2.1 The QC organisation is headed by Shri ....., who is designated as ....., with responsibility for.....****5.3 Quality Control Testing Facilities and Laboratory equipment available.****5.3.1 In-house facilities available for inspection and QC include the following:**

- i .....
- ii .....
- iii .....

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#### 5.4 Availability of gauges (please give details)

5.4.1 The following important items of gauging and other related equipment are available:

5.5 Calibration of Laboratory/test equipment/gauges, indicated in para 5.3 and 5.4 above:

- i. How is the calibration done?
- ii. Frequency of calibration.
- iii. System to ensure that calibration of above equipments does not fall overdue.
- iv. Action taken if such calibration has fallen overdue.

5.5.1

5.6 Source of procurement of raw materials, important bought-outs, and steps taken to ensure their quality.

5.6.1

5.7 Details of inspection/checks done on material during various stages of the above manufacturing process.

5.7.1

5.8 Have acceptable values for the parameters inspected during above stage checks been laid down? If yes, the action taken if value of the parameter inspected does not meet the desired laid-down value.

5.8.1

5.9 System for documentation of the results of the above stage checks.

5.9.1

#### 6.0 AFTER-SALES SERVICE

6.1 Facilities Available at Works and Branch Offices.

6.1.1

6.2 Assessment of Quality of Service Including Response times.

6.2.1

#### 7.0 PAST PERFORMANCE

7.1 List of important customers of the firm (as relevant to the works for which requisition is sought)

7.1.1 This is attached at Annexure-E.

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7.2 Details of important orders executed in the past, and reference to the supplies made.

Also included in Annexure-E. ....

7.3 Important orders in hand

There are presently ..... on order, These are as follows:

Sl._No.	Consignee	Capacity
---------	-----------	----------

7.4 Whether another unit/factory of the firm is already approved by COS/NR for supply of stores/components.

7.5 Performance of machines manufactured and supplied in the past to different consignees.

7.5.1 Selction of Consignees

7.5.2 Machines at M/s .....

7.5.3 Conclusions on performance of M/s..... m/cs.

7.6 Commissioning Performance

## 8.0 COMMERCIAL INFORMATION

8.1 Full details of the location of the factory/Manufacturing works.

i. Address :

ii. Tele. Nos. :

iii. Telex/Fax:

8.2 Copies of following documents obtained and attached as Annexures.

- |                               |               |
|-------------------------------|---------------|
| i. Proof of Ownership.        | : Annexure-G. |
| ii. Factory Licence.          | : Annexure-G. |
| iii. Latest electricity bill. | : Annexure-H. |

8.3 Whether the firm is registered under Indian Factories Act.

8.4 Whether the firm comes under the scope of

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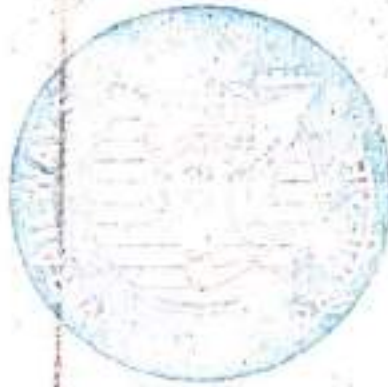
Industries (Development & Regulations) Act, 1951.

8.5 Income Tax Clearance Certificate  
Copy attached at Annexure-I.

Place:

Date:

(SIGNATURE)  
NAME/DESIGNATION



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**ANNEXURE - A**  
**DETAILED PARTICULARS OF MANAGERIAL STAFF**  
**AS ON-----**

S.No. Name

Designation Qualification Working  
since

**ANNEXURE - B**  
**LIST OF MACHINERY AND PLANT**

S.No.	Description of Items.	Manufacturer	Qty.	Year of procurement
-------	-----------------------	--------------	------	---------------------

**ANNEXURE - C**  
**LIST OF QC EQUIPMENT AND MEASURING EQUIPMENT**

Sl. No.	Description	Range Least count where applicable	Qty.	Year of procurement
---------	-------------	------------------------------------	------	---------------------

**ANNEXURE - D**  
**LIST OF IMPORATANT ORDERS EXECUTED W.E.F.....(DATE)**

Sl. No.	Purchaser Order No.	Description/ Value	Delivery dt.	Date recd.	Date Comm.	REMARKS
---------	---------------------	--------------------	--------------	------------	------------	---------

**ANNEXURE - E**  
**LIST OF PENDING ORDERS AS ON----- (DATE)**

S.No.	Purchaser	Order No. and date	Value
-------	-----------	--------------------	-------

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उत्तर रेलवे, जगाधरी वर्कशाप



## Special Conditions for participating Tender

The following conditions are applicable in addition to those contained in Bid documents part -I & Bid documents part- II(technical specification/requirement). In case, any of the conditions mentioned hereunder are contrary to those mentioned elsewhere, conditions mentioned in this document (Special conditions of Tender) will supersede the corresponding conditions given in in Bid documents part -I & Bid documents part- II.

1. The tenderer shall provide satisfactory evidence, acceptable to the purchaser to show that he is a regular manufacturer and has adequate machine and manufacturing capacity and a "Quality Assurance Programm". The information as per Annexure-2 under Bid document part - I may please be furnished. The manufacturer must have a valid ISO 9001 certificate (or latest) on the original date of closing of bid and a copy of same should be submitted along with the bid. Manufacturing of CNC VTL shall be in the scope of ISO certificate.
2. The tenderer must have manufactured & supplied at least 03 nos. of same/similar machines in last 05 years to Indian Railways be reckoned from the original date of closing of bid. The list of past supplies made in last 5 years of the same/similar machine asked for shall be attached along with the offer specifying Purchaser's name and address, phone no. and e-mail of contract person, purchase order number and date, quantity supplied, date of supply and commissioning. Copy of such purchase order(s) mentioned in the list of past supplies indicating the parameter/specification shall also be attached with the offer to establish equivalence/similarity aspect of machine as mentioned in para 3. below.
3. For the purpose of similarity, similar machine required under clause 2 means "CNC Vertical Turning Lathe" with table diameter of 1200 mm or bigger".
4. Performance certificate of at least 1 no. of such machine which is counted for the purpose of meeting qualifying criteria, supplied in the last five years (to be reckoned from the original date of closing of bid) and working satisfactorily for at least one year shall be enclosed with clear signature and address of the user in whose premises the machine is installed and commissioned. The certificate shall not be older than one year from the original date of closing of bid.
5. All necessary information/documents required for establishing reference requirement as per para 2 to 4 should be submitted by the bidder along with the original offer itself. No clarification /correspondence will be sought/entertained in this regard. In case no information or incomplete information is furnished by the bidder, their offer will be summarily rejected.

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उ० रे०, जगाधरी वर्कशॉप

सहायक निर्माण प्रबन्धक  
Asstt. Works Manager  
उत्तर रेलवे, जगाधरी वर्कशॉप  
N. Ry, Jagadhri W/Shop

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