

- 12.2.1.3 Whenever a road mobile crane has to be arranged by the supplier for material handling, a clear approach for it up to the site has to be provided.
- 12.2.1.4 Clear covered space for storage of material/equipment required for working/ construction of foundation and installation of the machine etc.
- 12.2.1.5 The consignee shall arrange the raw material for prove out at their end within 30days of the dry run of the machine (installation, power connection, auxiliary connection like air, water connection) failing which such components will be deemed to have been proved out. The components supplied by the consignee in time will be required to be proved out within 30 days thereafter.
- 12.2.2 The bidder shall be responsible for-
- 12.2.2.1 Design of foundation as well as flooring (if required) of sufficient thickness, suiting local soil conditions at the site in compliance with clause no.5301 to 5304 of Bid Document Part-I.
- 12.2.2.2 Advise consignee in time regarding schedule for requirement of clear site for construction of foundation and other infrastructure, resources & facilities required.
- 12.2.2.3 Construction of foundation as well as flooring (if required) of sufficient thickness suiting local soil conditions, for machine shall be completed by the bidder at the site provided by the consignee before receipt of the machine at their premises.
- 12.2.2.4 Provision of all tools and equipment, technical and unskilled manpower, material handling accessories/ equipment and material for installation and commissioning.
- 12.2.2.5 Unloading of the machine on receipt (both imported and indigenous machine) and its movement to the site of installation including provision of road mobile crane.
- 12.2.2.6 The bidder should ensure the proper earthing for the machine and its peripherals/accessories.
- 12.2.2.7 The bidder shall be responsible for meeting all the criteria set by state pollution control Board and Central Pollution Board, wherever applicable, with respect to air, after, noise, land etc. The bidder shall be responsible obtaining clearance/certification for installation /commissioning /operation of the machine/system supplied. The consignee will provide administrative help for establishment of communication with the Pollution Control Board.
- 12.3 Consignee will provide only 415 V+10%-20%, 3 phase 50 Hz \pm 3% AC supply at a single point (mains). All types of cables, connections, circuit breakers, isolator switch etc. required for connecting power supply point to different parts of the machine/control cabinets, shall be the responsibility of the bidder. Requirement of grounding/earthing with required material shall also be incorporated by the bidder during construction of foundation.
- Electrical work like laying of power/electrical cables & earthing wires from mains to machine control panel (upto 20 meters) as well as within the machine, with supply of all materials shall also be carried out by the supplier.

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Date: 2024.10.10
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Reason: IREPS-CRIS
Location: New Delhi

DME/C&W /LKO.
मॉडल यांत्रिक आभेयन्ता (कै० वै०)
हजरतगंज, लखनऊ

मॉडल यांत्रिक आभेयन्ता
30रे०, वाराणसी
Divl. Mech. Engineer
N R. Varanasi

कोचिंग डिपो अधिकारी
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Sr Section Engineer
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N.R Varanasi

12.4

The supplier shall demonstrate machine performance and prove out the claimed capability for successful commissioning at the consignee's works as per clause 3 of Section-I. The M&P shall be deemed to be "commissioned" at consignee premises on the date when it is tested and meets with the specified capabilities/functions according to the technical specifications. In addition to above, in case of tooled-up M&P, the M&P shall be deemed to be "Commissioned" at consignee premises on the date when "prove out" components specified as per the relevant clause of technical specification have been successfully proved out meeting the productivity requirements of Technical specification. The consignee shall arrange the raw material for prove out at their end within 30 days of dry run of the machine (installation, power connection, auxiliary connections like air, water etc.) failing which such components will be deemed proved out. The components supplied by consignee in time will be required to be proved out within 30 days thereafter. Any delay in providing the "raw material or any other input" for proving out shall not be logged on supplier's account.

A Joint Commissioning Note (JCN) to this effect shall be made as per the format at Annexure-D of Section-III. After issue of JCN the performance shall be watched for a period of one month, after which the PTC shall be issued. The issue of PTC can not be delayed by more than 60 days from the issue of JCN. If some minor breakdowns are noticed after the issue of JCN, these shall be attended as per warranty obligations and suitable extension of the warranty period, under intimation to CME/Plg/NR. If no intimation is given to NR and the PTC is not issued till the expiry of 60 days from the issue of JCN, then the issue will be discussed in a meeting between CME/Plg/NR and the concerned Dy. CME /Sr. DME /Sr. DEE. Based on this, decision to issue PTC will be taken by CME/Plg/NR.

12.5

If an assembly/sub-assembly requires to be taken back to the manufacturer's premises for repair/replacement either before commissioning or during warranty, the manufacturer or his agent would be required to submit BG of suitable amount. In case the entire machine has to be taken back, a Bank Guarantee for the cost of the machine would have to be submitted. The bank guarantee should be of adequate value so as to cover the cost of the assembly/sub-assembly/paid up cost of the machine.

13.0

SERVICE FACILITY IN INDIA AND TECHNICAL SUPPORT

13.1

The tenderer will clearly spell out in the offer the facilities available with him or his agent for providing adequate after-sales service in India during warranty period in the appropriate section of Annexure 'A' of Section-III of Bid Document Part-II. The complete details such as organization for after sales service, availability of technically competent engineers and warehousing facilities for spares should be clearly indicated. Bidders not offering complete servicing/repair facilities in India to ensure quick response to maintenance/ servicing calls are not likely to be considered.

13.2

After the warranty period and AMC period, if any, the manufacturer or his agent shall 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 18 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 /Mitsubishi/ HMT NUM
2.	Hydraulic pumps and valves	Rexroth/Vickers/Yuken/Atos/Parker/Hydac/HAWE
3.	Feed back Devices	Heidenhain/Ballerf/Fagor/Sony/Siemens/Fanuc/Kubler/Hengtler/Honer
4.	Ball screws	THK/INA/Rexroth/Star/Shenberger/NTN/ Tsubaki/Gamfier/ Korta/HWIN
5.	Air conditioner for Control cabinet	RITTAL/Warner Finley/Kelvin/M&G-Cooling System/Advance/Sunbeam/Walia/Tropicool
6.	Spindle Bearings	FAG/SKG/Timken/NTN/KOYO
7.	Centralised lubrication system	Vogel/Cenlub/Rexroth/Bijur Delimon/Centraline/Jaguar/SKF LINCOLN
8.	Electrical Control Cabinet	RITTAL/ Siemens or of other reputed make with IP55 Protection level
9.	Servo Controlled Voltage Stabilizer	Neel/Unity /Servomax/Consul/ Aplab/ Neelkanth/Golden/Powerguard
10.	Ultra Isolation Transformer	Neel/Unity /Servomax/Consul/ Aplab/ Neelkanth/Golden/Powerguard
11.	Ball bearing, roller bearing & main thrust bearings	SKF/FAG/NBC/Timken/NTN/RKB/LIBE/ZKL/INA/IKO/NB C/NRB/EVOLMEC
12.	Electromagnetic clutch	Vortex
13.	Toolings	Sandvik/Kennametal/Widia/TaeguTec/Isicar/CERATIZIT
14.	A.C. Motors	NGEF/BBL/ABB/KEC/Crompton/ Siemens/ Allen Bradley/NORD/HINDUSTAN MOTOR/bonfiglioli/Rossi
15.	Brake motors	Siemens/KEC/Crompton/NGEF/BBL
16.	Proximity Switch	Elap/Schneider/Omron/Scanner
17.	Contactors	Siemens/BCH/ABB/Schneider/L&T
18.	Limit switches	BCH/Siemens/L&T/Teknic/Euchener/Honeywell, USA
19.	Push button	Teknic/Siemens/ Schneider/BCH/Esbee
20.	'O' Rings & rubber seals	Merlin/Parker/Busak/Hunger/Merkel/Soloseal/Walkersolo/Halite/ Seal Mart/Aston/PRP
21.	Hydraulic pumps & valve	Yuken/Rexroth/Vickers/Mico Bosch/Parker/Atos/Voith/Hawe/Hydac
22.	Pneumatic Control Equipment	Festo/Shavo Norgen/Shradder Scovil/Electro Pneumatics/Parker/SMC Pneumatics/Pneumax/Dunker/Scovil/IMI Norgen

23.	Control gears	L&T/Siemens/BCH/ABB/Schneider/C&S
24.	Filters	Hydac/Hydroline/Parker/Rexroth/EPE, Germany/ Vickers/Purolator
25.	Belts	Fenner/Hilton/Dunlop
26.	Cable/wire	Siemens/Indramat/ Hubershnuer/KEI Finolex/Havells/Polycab/Lapp/Roliflex/RK Cable
27.	Gear reducer	Elecon/Greaves/Shanthi/ZF/New Allenbury/ Bongfilivali/ Nord/Premium/ Girard/ Apex/ Siemens/ Rossi/ Rototech/ Kavistu/ Cyclo
28.	Chains	T.I. Diamond/RENOLD
29.	Sprocket	RENOLD /T.I. Diamond/ B.L.Chain/ Bhumi/ Albro/ Nu- Techk
30.	AC Drive	Fanuc/Siemens/ABB/Allen Bradley /Schneider/L&T/MITSUBISHI
31.	AC servo motor	Fanuc/Siemens/ABB/Allen Bradley /Schneider
32.	PLC	Siemens/Messung/Hitachi/Mitsubishi/ ABB/Allenbradley /Fanuc/Schneider/ L&T
33.	Couplings	Fenner/Love Joy Inc., USA/KTR- Rotex/NENCO/NU-Techk
34.	Hour Meter	L&T/ Havells
35.	Ammeter & Voltmeter	AE/ Meco/ RISHAB Instruments
36.	Rubber sheets	Rubber Products Ltd.
37.	Air circuit breaker	Siemens/L&T/ ABB
38.	Connectors	Harting/Kontakt/L&T/Omron/ Indoelectric/ Phonix/Connet well
39.	Hydraulic oil air cooler type heat exchanger	Rittal/Werner finley/Pfamenberg/Advance Cooling/Tropicool/ M&G/ Sunbeam
40.	Chiller type heat Exchanger	WARKIN/ADVANCE COOLING/SPAN ASSOCIATES/FREEZTECH/ M&G-Cooling system/Advance
41.	Hydraulic Oil	IOCL/BPCL/HPCL/Castrol/ESSO/IPOL/ Gandhar/Divyol
42.	Hydraulic seamless tubes	Parker/Maharashtra seamless/Indian seamless/ GandhiSpecial Tubes/ Sainest Thyssenkrup
43.	MCCB	Schneider/ABB/Siemens/L&T
44.	Chip Conveyor	MIVEN/ SRV/ KANTESH
45.	Hydraulic Brake	REGIANNA
46.	Hydraulic Hoses	PARKER/ GATES/ MARKWELL/ AEROEQUIP/SUPER
47.	Hydraulic Motor	DANFOSS/EATON
48.	Rubber Sheets	Rubber Products Ltd.

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

- 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 may also be considered if specified.

Signature Not
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Digitally signed by
SHASHI BHUSHAN
KUMAR
Date: 2024.10.10
17:10:25 IST
Reason: IREPS-CRIS
Location: New Delhi

DME/C & W/LKO.
मण्डल यांत्रिक अभियंता (कै० वै०)
मण्डल कार्यालय, उ०२०
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Sr Section Engineer
उ०२० वाराणसी
N.R Varanasi

- 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. Suitable undertaking in this regard is to be submitted by the bidder.
- 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 Nos. CNC machines after commissioning. The tenderer should submit documentary evidence towards the experience of the Indian agent in maintaining the machine in India, along with offer. The Indian agent should submit details of infrastructure and man power available with them in the bid.
- 16.3** In addition to warranty obligations prescribed under clause 5000 and 5100 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 concerned Dy. CME/Sr. DME/Sr. DEE 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-III.
- 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, for the purpose of extending warranty period in terms of clause 5005 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 days from the date of complaint on calendar day's basis. The period of three days (excluding date of complaint) after the failure reported shall be treated as grace period, which will not count towards breakdown time for up to one failure per month and a maximum of 3 failures per quarter. In case the number of failure exceeds one failure per month or three during any quarter of warranty, grace period of only 1 day will be permissible for such additional failure. Complaints shall be lodged by consignee by fax phone, e-mail or per bearer at address given by the tenderer.
- 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. Released parts against replacement may be handed over to contractor. 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 150 hrs. In case the total breakdown period in any one of years during warranty period, exceeds 500 hrs., the consignee shall inform the same to CME/Plg/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 CME/Plg/NR as per performance appraisal report given in Annexure - E of Section-III. The firm will then request CME/Plg/NR for release of WBG annexing the performance appraisal report as per Annexure-E of Section-III 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 150 hours in each quarter and not exceeding 500 hours annually	Nil
Exceeding 150 hours - up to 200 hours in any quarter and not exceeding 500 hours annually	5 % of annual preventive maintenance charges
Exceeding 500 hours - up to 750 hours annually	10% of annual preventive maintenance charges
Exceeding 750 hours - up to 1000 hours annually	25% of annual preventive maintenance charges
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 the subsequent tenders will not be considered for placement of any order.

17.0

ANNUAL MAINTENANCE CONTRACT :

17.1

Tenderers 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. Released parts against replacement shall be handed over to contractor. All consumables spares and materials shall form a part of the scope of comprehensive AMC except as follows:

17.1.1

Diesel/ fuel, oils, greases or coolant.

17.1.2

Major machines elements/structural members which are under guarantee for a period specified in clause 16.1 as stipulated in 'warranty obligations' requirement.

Sr. DME/C & W.LKO.

Digitally signed by SHASHI BHUSHAN KUMAR

Date: 2024.10.10

Reason: IREPS-CRIS

Location: New Delhi

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- 17.2 AMC shall be operated, managed and paid by the consignees indicated under clause 3 of Section I. 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-I. **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.

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

- 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. The total shutdown time for preventive maintenance should be kept as low as possible but not more than 60 hours/month (averaged over the quarter) including time for cleaning, weekly, fortnightly, monthly, quarterly schedules etc. The preventive maintenance regime offered must be aimed at achieving minimum 90% uptime of the plant excluding the plant down time for preventive maintenance schedules.
- 17.3.5 The tenderer shall ensure that in case a failure is reported by a consignee, qualified service engineers visit the site within 3 days from the date of complaint on calendar days' basis. This period of 3 days (excluding date of complaint) after the failure report shall be treated as grace period, which will not count towards plant down time for upto one failure per quarter and a maximum of 4 failures per annum. Incase, the number of failures exceeds one during any quarter or four during any year of AMC, grace period of only 2 days will be permissible for such additional failures. 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.
- 17.3.6 Incase preventive maintenance is carried out alongwith breakdown maintenance schedule; preventive maintenance time will be deducted from breakdown time of the plant.

Sr. DME/C & LKO.

Signature Not Verified

Digitally signed by SHASHI BHUSHAN KUMAR

Date: 2024.10.10

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Sr Section Engineer
उ०रे० वाराणसी
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17.3.7

Penalty Clause: Penalty shall be levied on the tenderer for maintaining plant up time below the limit of 90% calculated on working days basis, after discounting for grace period and preventive maintenance period. Penalty shall be calculated as %age of quarterly payment and will be deducted from the respective quarterly payments. Penalty calculation will be done over quarterly payment period.

SN	Availability Slab	Applicable Penalty
1.	90% to 80%	0.5% for every 1% (or part there of) reduction in availability of plant below 90%.
2.	Below 80%	1% for every 1% (or part there of) reduction in availability of plant below 80%.

17.3.8.

A Bank Guarantee equal $1/4^{\text{th}}$ of annual value of AMC (highest of the annual values if the rates offered for various years are different) 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. The 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 years 6 months ensuring the uninterrupted validity of the AMC BG for 5 years 6 months. The confirmation for the submission of this BG will be submitted to CME/Plg./NR for the release of WBG. The AMC BG will be returned on completion of AMC period. In case, 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-II, it is the sole responsibility of the 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.

17.3.10.1

In all cases of plant failure except as mentioned in clause 17.3.10.2 of Section-II, 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 17.3.11.1.1
- 17.3.11. Normally quarterly payment (@ 1/4th 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:
- 17.3.11.1 Consignee's certificate for work done as per Annexure-G of Section-III with calculation of down time and penalty applicable.
- 17.3.11.2 A certificate by consignee that no spare part is due with the tenderer as per clause 17.3.10 above.
- 17.3.11.3 Bills submitted by the tenderer & accepted by consignee.
- 17.3.11.4 Attested photocopy of the AMC BG.
- 17.3.12 The AMC contract can be terminated in following ways:
- 17.3.12.1 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 as applicable to respective PO.

Sr. DME/C & M/LKO.
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 Date: 2024.10.10 17:10:25 IST
 Reason: IREPS-CRIS
 Location: New Delhi

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