

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

No.2002/TG-1/10/P/UTS

New Delhi, dated 30.01.2017

**The Chief Commercial Manager
All Indian Railways**

**The Controller of Stores
All Indian Railways**

(Commercial Circular No. 13 of 2017)

Subject: Revised specification (Jan 2017) for Thermal Paper for ATVM Printers.

- Ref: 1. Traffic Commercial letter No. 2002/TG-1/10/UTS dated .01.2007.**
2. Railway Board's letter No. 2002/TG-1/10/P/UTS dated 27.06.2016.


With reference to above, the matter of modification in specification of thermal paper of ATVMs has been further deliberated in Board .

Accordingly, suitable changes in the earlier specification circulated vide letter dated 27.06.2016 as referred above has been made. The copy of new specification (Jan 2017) is enclosed. The new specification will supersede the earlier one.

It has also been decided that the PO will indicate in the inspection clause, Inspection against Firm's G.C. in line with S.No. 19 of specification for the S.Nos. indicated therein. Only for the balance parameter S.Nos. Inspecting Authority will do testing. Further, material will be accepted after end user's practical trial". Please refer Clause 19 and 20 of revised specification for details.

This issues with the consultation with Traffic Commercial and C&IS Directorates of Railway Board.

DA :(As above)


(N.K. Dohare)
**Director Railway Stores (IC) as Director Printing
Railway Board**

**Copy to: AM(C&IS) / Railway Board,
EDPM/Railway Board,
EDQA/RITES,Gurgoan**

Specification of Thermal Paper for ATVM Printers (Jan 2017)

S.No.	Item	Description
1.	Top coated Thermal Paper	<ol style="list-style-type: none"> 1. A top coated Thermal paper which forms sharp and dark image of the printed matter produced by thermal printer. 2. The thermal impression should remain legible for 90 days. 3. The thermal coating should be protected by an over coating to form a barrier between the thermal coating and environmental factors. The thermal coating should be able to retain its property for six months so as to meet the parameter specified in "2" above. 4. Paper should be compatible with thermal printer of speed 3 inches per second or higher.
2.	Paper characteristics	Image color Black
3.	Pre-printing of serial number	The serial number of ticket will be printed by foolproof machine numbering only.
4.	Ink to be used for numbering of tickets	Should be done by special indelible Ink so that number cannot be erased.
5.	Top of the ticket	There should be a top band in full solid of 8mm+ -1mm)
6.	Position of numbering of tickets	<ol style="list-style-type: none"> 1. Tickets numbering first four digits in 3mm Height (+ -.5mm) 2. Tickets numbering last four digits in 4mm Height (+ -.5mm)
7.	Running Matter	Printed Hindi and English Railway Logot should have 10% tint in the background of ticket on front side and UV logos on back side of ticket as background and superimposed with Blue text matter.
8.	Paper width	86mm + - 1mm
9.	Paper length	64mm + - 1mm
10.	Printable width	78 + - 1mm
11.	Printable length	59+ - 1mm
12.	Paper weight	Minimum 130 GSM
13.	Paper type	Thermal-sensitivity coating on front side i.e. the side on which the ticket numbering is to be done.
14.	Roll Capacity	500 tickets
15.	Core Diameter	Inner Core Dia : 38 mm + - mm Outer Dia : 45 mm + - 1mm
16.	Black mark recognition for utter of printer	Pre-printed black mark of width: 86 mm & Height : 4mm on the reverse of each ticket at

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		the bottom.
17.	Usable paper	Top coated thermal paper
18.	Tickets specification	The ticket should be hatched with Indian Railways logo of 8mm diameter. The hatching should be printed in 10% density (screen) in such a way that the dot matrix printing on it should have a contrast.
19.	Guarantee Certificate	The supplier will give a Guarantee Certificate to support that its supply is meeting the specified parameter as indicated in S.No. 1,2,4,7,13,14,17 & 18.
20.	Inspection	<ol style="list-style-type: none"> 1. Inspecting Authority will accept the material against Firm's G.C. in line with S.No.19 of specification for the S.Nos. indicated therein. Only for the balance S.Nos., Inspecting Authority will do testing. Further, material will be accepted after end user's practical trial. 2. At the time of inspection, Supplier will submit the source of thermal paper procured by it with invoice copy. In case of imported thermal paper, firm will submit bill of lading or some document to establish that it has sourced the thermal paper from the foreign manufacturer.

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