

**Tender No. 80.10.1314**

**SPECIFICATION for Paper Computer Interleaved**

1. Item designations 1P, 2P, 3P and 4P denote one part, two parts, three parts & four parts stationery respectively.

2. Accounting unit and composition of the items shall be as under:

No of Parts -----	Accounting unit -----
a) 1P	per 1000 sheets (1000 sheets)
b) 2P	per 1000 sets (2000 sheets interleaved with 1000 carbons)
c) 3P	per 1000 sets (3000 sheets interleaved with 2000 carbons)
d) 4P	per 1000 sets (4000 sheets interleaved with 3000 carbons)

3. The Carbon Paper shall meet the following requirements:

Carbon Paper quality: (for use with 2 parts, 3 parts & 4 parts computer paper).

- a) Base Paper: Shall be of type A to IS: 9055/79 with amdt. No.1.
- b) The base paper shall be coated on the side with suitable carbon ink necessary to give the required manifolding characteristics. The coating shall be smooth, uniform and free from smudginess & tendency to separate as flakes when used.
- c) Mass of coating shall be 6 +/-1 gm/m<sup>2</sup>
- d) Manifolding characteristics (minimum number of legible carbon copies) 3 for all 60, 70 & 80 GSM. This test is applicable to carbonless computer stationary also.

4. The computer sheets shall be numbered by random numbering in minimum four digits free of cost.

5. Net Weight without any packing of different sizes of paper for 1 part, 2 parts, 3 parts & 4 parts are given in Appendix-A In this Appendix the min. weight of 1000 sets, 500 sets, 250 sets, and 250 sets of paper designation 1 part, 2 parts, 3 parts & 4 parts respectively have been given. For example min. weight of paper size 22.9x27.9 cm, 2 part 500 sets (1000 sheets & 500 carbon papers, 60 GSM, shall be min. 4.366 kgs.

6. Firms/Tenderers should possess all the required testing facilities in their premises/ works.

7. Firm`s name & Telephone No. shall be printed on the edge of each sheet.

8. The supplier shall indicate the name of the manufacturer from whom base paper is procured and produce documentary evidence in support of purchase of base paper from the stated source at the time of inspection.

9. CLIMATIC TEST (Acceptance test):

- a) The computer paper with inter-leaved carbon paper in 2 parts, 3 parts & 4 parts shall be subjected to climatic test given in "Table-1" as under in accordance with sequence specified therein.

TABLE 1:

S.No.	Test	Severity	Reference to IS
1.	Dry Heat	+55 Deg.C for 16 Hrs	Section 3 of IS:9000 (Part-3)/77
2.	Damp Test	40 +/- 1 deg. C at RH not less than 90% for 24 hrs.	Section 2 of IS:9000 (Part-5)/81

- b) At the end of the climatic sequence the computer paper shall be subjected to the recovery under standard atmospheric conditions of 27+/-2 Deg C & 65+/-2% RH for testing for a period of 2 hrs.
- c) The samples shall withstand the climatic tests without obvious detriment and shall withstand manifold satisfactory as per the standard at the end of the climatic tests and after recovery. The bleeding of carbon shall not occur during any of the climatic tests. Oily stains shall not appear on the paper.  
No sample should fail in above additional test requirements.

11. PACKING: The computer paper shall be packed as under:
1. 1 part - 1000 sheets in a packet, 3 packet in a carton
  2. 2 parts - 500 sets in a packet, 2 packets in a carton
  3. 3 parts - 250 sets in a packet, 2 packets in a carton
  4. 4 parts - 250 sets in a packet, 2 packets in a carton

Each packet as mentioned above shall be wrapped with wrapping paper of 70 GSM (Min.) and then sealed in a water proof cover of polythene or equivalent material of 30 micron thickness. Thereafter these packets shall be placed in a carton of suitable size of 5 ply corrugated paper construction with vertical edges of carton strengthened/stiffened with good quality cloth tape.

12. MARKING:

Marking shall conform to Clause 5.3 of IS:12766-1997. In addition "Min. net weight" as mentioned in the tender enquiry(Appendix-A), shall also be marked on each packet.

13. Part-wise contents per Packet shall be as under:

- |         |   |
|---------|---|
| 1-Part  | 1000 Sheets                             |
| 2-Parts | 500 sets,(1000 Sheets with 500 carbons) |
| 3-Parts | 250 sets,(750 sheets with 500 carbons)  |
| 4-Parts | 250 sets,(1000 sheets with 750 carbons) |

14. Net Weight without any packing of different sizes of paper for 1 part, 2parts, 3 Parts & 4 Parts are given in Appendix –A. In this Appendix the min. weight of 1000 sets, 500 sets, 250 sets, and 250 sets of paper designation 1 part, 2 parts, 3 Parts & 4 Parts respectively have been given. For example min. weight of paper size 22.9x27.9 cm, 2part 500 sets (1000 sheets & 500 carbon papers, 60 GSM, shall be min. 4.366 kgs.

'APPENDIX-A'

Sl.	Sizes(cms) WxL	Contents in packets	NO of Parts	Minimum 60GSM	weight 70GSM	in Kgs. 80GSM
(a)	22.9x27.9	1000	1 part	3.680	4.2935	4.9068
		500	2 parts	4.366	4.980	5.593
		250	3 parts	3.446	3.906	4.360
		250	4 parts	4.710	--	--
(b)	22.9x30.5	1000	1 part	4.023	4.694	5.364
		500	2 parts	4.773	5.444	6.114
		250	3 parts	3.767	4.271	4.773
		250	4 parts	5.148	--	--
(c)	25.5x27.9	1000	1 part	4.098	4.781	5.464
		500	2 parts	4.871	5.554	6.237
		250	3 parts	3.846	4.359	4.871
		250	4 parts	4.258	--	--
(d)	25.5x30.5	1000	1 part	4.480	5.226	5.973
		500	2 parts	5.325	6.071	6.818
		250	3 parts	4.205	4.765	5.325
		250	4 parts	5.748	--	--
(e)	27.9x30.5	1000	1 part	4.901	5.718	6.535
		500	2 parts	5.834	6.651	7.468
		250	3 parts	4.309	5.222	5.834
		250	4 parts	6.301	--	--
(f)	30.5x27.9	1000	1 part	4.901	5.718	6.535
		500	2 parts	5.842	6.659	7.476
		250	3 parts	4.617	5.230	5.842
		250	4 parts	6.312	--	--
(g)	30.5x30.5	1000	1 part	5.358	6.251	7.144
		500	2 parts	6.386	7.279	8.172
		250	3 parts	5.047	5.716	6.386
		250	4 parts	6.901	--	--
<b>(h)</b>	<b>38.1x30.5</b>	<b>1000</b>	<b>1 part</b>	<b>6.693</b>	<b>7.809</b>	<b>8.925</b>
		<b>500</b>	<b>2 parts</b>	<b>7.999</b>	<b>9.114</b>	<b>10.231</b>
		<b>250</b>	<b>3 parts</b>	<b>6.326</b>	<b>7.163</b>	<b>7.999</b>
		<b>250</b>	<b>4 parts</b>	<b>8.653</b>	--	--
(i)	38.1x27.9	1000	1 part	6.123	7.143	8.164
		500	2 parts	7.381	8.338	9.359
		250	3 parts	5.787	6.552	7.381
		250	4 parts	7.916	--	--

Paper Specification :

Paper Computer interleaved with carbon in sheets conforming to IS:12766:1997 and specs as under General Technical requirements.