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कार्यालय, नियंत्रक, शासकीय मुद्रण तथा लेखन सामग्री विभाग

अरेरा हिल्स, मैदा मिल रोड, भोपाल—462 011

क्रमांक जी.बी./चार/पेपर (1) 2016-17/ 2088

भोपाल, दिनांक 1-8-2016

// संशोधन //

पेपर क्रय हेतु इस कार्यालय की निविदा सूचना क्रमांक 2052 दिनांक 27-7-2016 के एनक्सर-11 पृष्ठ क्रमांक 17 से 28 तक के तकनीकी विवरण में संशोधन किया जाकर निविदा सूचना के बिन्दु क्रमांक 4 अनुसार उक्त पृष्ठों का नवीन विवरण संलग्न है तदनुसार कार्यवाही सुनिश्चित की जावे ।

निविदा की शेष शर्तें यथावत् रहेगी ।

संलग्न:-एनक्सर-11 पृष्ठ क्रमांक 17 से 28

उप नियंत्रक,
वास्ते नियंत्रक,
शासकीय मुद्रण तथा लेखन सामग्री,
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ANNEXURE-II

GENERAL SPECIFICATION FOR PACKING.—

- (a) Packing & Marking shall be in full conformity with the following BIS specifications.
(1) IS 6211 : 1993 & Point 5 of IS 1848:1991 with latest amendments.
- (b) Hazien cloth or HDPE used for packing should not be less than 12 Onz.. In reels the “EDGE GUARD” of strong material like corrugation media/plastic should be provided.
- (c) Weight of the wrapper, hazien cloth, HDPE core & wooden plug etc. shall be excluded from the gross weight & nett weight shall be considered as the quantity supplied.
- (d) Winding of reels must be proper.

**Item No. 1. OFFSET PRINTING PAPER 60 GSM AND 75 GSM:
Minimum Technical Specification required as per IS : 1848/2007 with latest amendments. (Re-affirmed-2012)**

1.	GSM	60	7.	Smoothness(Bendtsen) ml/min	280 Max.
2.	Tensile Index, Nm/g		8.	pH value	5.0 min.
	CD	20 min.	9.	Wax Pick	No Pick on 8A
	MD	30 Min.	10.	Mechanical pulp,%	20 max.
3.	Opacity	80 min.	11.	Paper shall be of uniform formation, evenly finished and generally free from specks, hole and other blemishes.	
4.	Brighness	72 min.			
5.	One minute Cobbs Test	25 max.			
6.	Tear Index, mN.m2/g				
	CD	4.0 min.			
	MD	3.5 min			

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

- (i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).

(a) **In Reel 60 GSM** Size 59.4 cm. width Approximate weight of the Reel 200 kg. to 250 kg.

- (ii) **In sheets** each ream of 500 sheets size 59.4 x 84.1 cm., 14.98 kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa.	
Sheet 59.4 x 84.1 cm.	-	40	50	-	90
Reel 59.4 cm.	800	-	110	50	960
	800	40	160	50	1050

(b) **In Reel 75 GSM** Size 59.4 cm width Approximate weight of the Reel 200 kg. to 250 kg.

	Bhopal	Gwalior	Indore	Rewa	
Reel	100	-	-	-	100
	100	-	-	-	100

Item No. 2. COLOUR OFFSET PRINTING PAPER 60 GSM

Minimum Technical Specification required as per IS : 1848/2007 with latest amendments. (Re-affirmed-2012)

1. GSM	60	7. Smoothness ml/min	280
2. Tensile Index, Nm/g		8. pH value	5.0 min.
CD	20 min.	9. Wax Pick	No Pick on 8A
MD	30 Min.	10. Mechanical pulp,%	20 max.
3. Opacity	80 min.	11. Paper shall be of uniform formation, evenly finished and generally free from specks hole and other blemishes.	
4. Brightness	72 min.		
5. Cobbs Test	25 max.		
6. Tear Index, Mn.m2/g			
CD	4.0 min.		
MD	3.5 min		

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

- (i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).
 - (a) Size 59.4 cm. width Approximate weight of the Reel 200 kg. to 250 kg.
- (ii) **In sheets** each ream of 500 sheets size 18 x 23 inch , 10 kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa.	
PINK COLOUR					
Reel 59.4 cm. /	20	-	7	5	32
Sheet 18 x 23 inch	-	-	5	5	10
BLUE COLOUR					
Reel 59.4 cm. /	50	-	-	5	55
Sheet 18 x 23 inch	-	-	5	5	10
YELLOW COLOUR					
Reel 59.4 cm. /	-	3	5	-	8
Sheet 18 x 23 inch	-	3	5	-	8
GREEN COLOUR					
Reel 59.4 cm. /	20	-	-	5	25
Sheet 18 x 23 inch	-	-	-	5	5
	90	6	27	30	153

**Item No. 3. MAPLITHO PAPER WHITE 70 GSM AND 80 GSM:
Minimum Technical Specification required as per IS : 1848/2007, with latest amendments (Re-affirmed 2012).**

1.	<i>GSM</i>	70	7.	<i>Double Fold</i>	<i>CD 10 min, MD 15 min.</i>
2.	<i>Tensile Index, Nm/g</i>		8.	<i>Smoothness ml/min</i>	280
	<i>CD</i>	20 min.	9.	<i>pH value</i>	5.0 min.
	<i>MD</i>	30 Min.	10.	<i>Wax Pick</i>	No Pick on 10A
3.	<i>Opacity</i>	80 min.	11.	<i>Mechanical pulp,%</i>	20 max.
4.	<i>Brighness</i>	80 min.	12.	<i>Paper shall be of uniform formation, evenly finished and generally free from specks hole and other blemishes.</i>	
5.	<i>Cobbs Test</i>	25 max.	*	<i>Brightness required is 80 instead of 77 as specified in IS:1848 of 2007.</i>	
6.	<i>Tear Index, Mn.m2/g</i>				
	<i>CD</i>	4.0 min.			
	<i>MD</i>	3.5 min			

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

- (i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).
- (a) Size 59.4 cm. width Approximate weight of the Reel 200 kg. to 250 kg.
- (ii) **In sheets** each ream of 500 sheets size 51 x 75 cm.
- (a) **In Reel 70 GSM 59.4 cm width/ Sheet 59.4 x 84.1 cm. 17.48 Kg.**

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
Reel	150	-	5	10	165
Sheet	-	-	10	-	10
	150	-	15	10	175

- (b) **In Reel 80 GSM 59.4 cm width and In Sheet 59.4 x 84.1 cm. 19.98 Kg.**

	Bhopal	Gwalior	Indore	Rewa	
Reel	300	10	10	-	320
Sheet	40	10	-	-	50
	340	20	10	-	370

- (c) **In Sheets 80 GSM size 51 x 75 cms. 15.30 Kg.**

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Sheet	40	40
	40	40

Item No. 4. Colour MAPLITHO PAPER 80 GSM :
Minimum Technical Specification required as per IS : 1848/2007, with latest amendments (Re-affirmed 2012).

1.	<i>GSM</i>	80	7.	<i>Double Fold</i>	CD 10 min, MD 15 min.
2.	<i>Tensile Index, Nm/g</i>		8.	<i>Smoothness ml/min</i>	280
	<i>CD</i>	20 min.	9.	<i>pH value</i>	5.0 min.
	<i>MD</i>	30 Min.	10.	<i>Wax Pick</i>	No Pick on 10A
3.	<i>Opacity</i>	80 min.	11.	<i>Mechanical pulp,%</i>	20 max.
4.	<i>Brighthness</i>	80 min.*	12.	<i>Paper shall be of uniform formation, evenly finished and generally free from specks hole and other blemishes.</i>	
5.	<i>Cobbs Test</i>	25 max.		* <i>Brightness required is 80 instead of 77 as specified in IS:1848 of 2007.</i>	
6.	<i>Tear Index, Mn.m2/g</i>				
	<i>CD</i>	4.0 min.			
	<i>MD</i>	3.5 min			

* Not applicable in colour.

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

(i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).

(a) Size 59.4 cm. width Approximate weight of the Reel 200 kg. to 250 kg.

(a) **In Reel 80 GSM 59.4 cm width**

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
Reel "Blue"	150	-	-	-	150
Reel "Green"	150	-	-	-	150
Reel "Yellow"	150	-	-	-	150
	450	-	-	-	450

Item No. 5. M.G. COVER PAPER, 140 GSM, 180 GSM, 210 GSM and 220 GSM In different colours i.e. White, Pink, Blue, Yellow and Green), Minimum Technical Specification required as per IS : 6956/2001 with latest amendments, (Re-affirmed 2012).

1	GSM-	180	8	pH value	5 min.
2	Tensile Index, N.m/g		9	Wax Pick, min	No Pick on 8A
	CD	17 min.	10	Burst Index, KPa.m ² /g	1.4 min.
	MD	25 Min.	11	Bending stiffness index	
3	Brigthness	72 min.*		N m ⁶ /kg ³ , Min	
4	Opacity, %	85 min.		CD	130
5	One Minute Cobb Test, (average)	22 max.		MD	230
6	Folding Endurance		12	Paper shall be of uniform formation, evenly finished and generally free from specks hole and other blemishes.	
	CD	6 min.			
	MD	5 min.			
7	Smoothness, (Bendtsen)	300 max.			
	ml/min.				

* Not applicable in colour.

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

(i) **In Sheet :** size 140 GSM / 38.85 kg., 180 GSM / 49.95 kg., 210 GSM / 58.28 kg., 220 GSM / 61.06 Kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
In Sheet 61 x 91 cm.					
140 GSM	100	-	-	-	100
(in three colours)					
	100	-	-	-	100
In Sheet 61 x 91 cm.					
180 GSM	150	10	13	6	179
(in five colours)					
	150	10	13	6	179
In Sheet 61 x 91 cm.					
210 GSM	20	10	-	-	30
(in three colours)					
	20	10	-	-	30
In Sheet 61 x 91 cm.					
220 GSM	70	-	-	-	70
(in three colours)					
	70	-	-	-	70

**Item No. 6. LEDGER AZURLAID PAPER, 90 GSM ,
Minimum Technical Specification required as per IS : 1848/2007 with latest amendments,
(Re-affirmed 2012).**

1	GSM-	90	8	pH value	-
2	Tensile Index, N.m/g		9	Wax Pick, min	-
	CD	17 min.	10	Burst Index, KPa.m ² /g	-
	MD	25 Min.	11	Tear index	
3	Brighness*	-		mNm ² /g,Min	
4	Opacity, %	85 min.		CD	4.0
5	One Minute Cobb Test, (average)	25 max.		MD	3.5
6	Folding Endurance		12	Paper shall be of uniform formation, evenly finished and generally free from specks hole and other blemishes.	
	CD	5 min.			
	MD	10 min.			
7	Smoothness, (Bendtsen)	-			
	ml/min.				

* Not applicable in colour.

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

- (i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).
- (a) Size 59.4 cm. width Approximate weight of the Reel 200 kg. to 250 kg.
- (ii) **In Sheet :** size 59.4 x 84.1 cm. 90 GSM / 22.48 kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
In Reel 59.4 cm.	70	-	-	-	70
In Sheet 59.4 x 84.1 cm. 90 GSM	-	20	-	5	25
	70	20	-	5	95

Item No. 7. ART PAPER / CARD, 135, 220, 250, 300 GSM in Sheet :

Minimum Technical Specification required as per IS : 4658/1998 with latest amendments.(Re-affirmed 2008)

1. <i>GSM</i>	135	8. <i>Cobb value,</i>	
2. <i>Bursting Index,</i>	0.8 min.	<i>coated side</i>	25 max
<i>KPa.m²/g</i>		9. <i>Bluk, cc/g</i>	1.0 min.
3. <i>Wax Pick</i>	No pick on 5A	10. <i>Stifness factor</i>	175min.
4. <i>Surface, pH</i>	5.5 to 8.0	11. <i>Paper shall be of uniform formation</i>	
5. <i>Gloss, %</i>	45 min.	<i>evenly finished and generally free</i>	
6. <i>Brightness</i>	80 min.	<i>from specks hole and other blemishes.</i>	
7. <i>Smoothness (Bendsten)</i>			
<i>ml/Min.</i>			
<i>Both side</i>	75 max.		

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

(i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).

(a) Approximate weight of the Reel 200 kg. to 250 kg.

(ii) **In sheet** size 61 x 91 cm. for 135 GSM/37.46 Kg., 220 GSM/61.06 Kg., 250 GSM/69.38 Kg. and 300 GSM/83.26 Kg.,

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
135 GSM Sheet	10	-	-	-	10
220 GSM Sheet	30	-	-	-	30
250 GSM Sheet	30	-	-	-	30
300 GSM Sheet	30	-	-	-	30
	100	-	-	-	100

Item No. 8. PHOTO COPIER PAPER, HIGH BRIGHT. 75 GSM .
Minimum Technical Specification required as per IS :14490/1997 with latest amendments,
(Re-affirmed 2012).

1	GSM-	75	8	Ash content	16 max.
2	Tensile Index, N.m/g		9	Wax Pick,	No Pick on 12A
	CD	25 min.	10	Moisture	4.0-5.5
	MD	40 Min.	11	Thicness micron	100 5%
3	Brighness	85 min.*			
4	Opacity, %	85 min.			
5	One Minute Cobb Test, (average)	25 max.			
6	Tear index Mn.m2/g	4.5			
7	Smoothness(Bendtsen)	150-300			
	ml/min both side.				

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

- (i) **In Sheet :** size 21x29.7 cm., 75 GSM / 2.3 kg.
(ii) **In Sheet :** size 29.7x42 cm., 75 GSM / 4.6 kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
In Sheet 21 x 29.7 cm.	10	-	-	-	10
In Sheet 29.7 x 42 cm.	10	-	-	-	10
	20	-	-	-	20

Item No. 9 : KRAFT PAPER : 90 GSM

**Minimum Technical Specification required as per IS : 1397/1990 Grade-III
(Paper should be without specks and shivevs).**

1.	<i>GSM</i>	90	5.	<i>Tear Index, Mn.m2/g</i>	
2.	<i>Tensile Index, Nm/g</i>			<i>CD</i>	4.90 min.
	<i>CD</i>	15.5 min.		<i>MD</i>	4.90 min
	<i>MD</i>	29.5 Min.	6.	<i>Double Fold</i>	CD 16 min
3.	<i>Bursting Index</i>	1.5 min.	7.	<i>Moisture Content %</i>	9 max.
	<i>Kpa.m.2/g</i>		8.	<i>pH value</i>	5.5 min.
4.	<i>Cobbs value Back</i>	25 max.			
	<i>Font</i>	25 max.			

Hand and Visual Observation : The printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

(i) **In Reel :** Core inside Diameter 75 mm. No of joints in a reel should not be more than two. Reel should be free from cuts at the edges and uniformly wound across the Web. (Paper required for High Speed Web Offset Printing Machine).

(a) Size 59.4 cm. width, Approximate weight of the Reel 200 kg. to 250kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa	
90 GSM :					
Reel 59.4 cm.	30	-	5	-	35
	30	-	5	-	35

Item No. 10: STRAW BOARD YELLOW - 16, 24, 32 Oz.

Minimum Technical Specification required as per IS : 2617/1967 with latest amendments.

Hand and Visual Observation : The printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

In Sheet size 65.5x77 cm. 16 OZ/45.7 KDG, 24 OZ./ 68 DKG. and 32 OZ./91 DKG.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa.	
16 OZ.Sheet	20	-	-	-	20
24 OZ.Sheet	20	7	-	-	27
32 OZ.Sheet	20	7	2	-	29
	60	14	2	-	76

Item No. 11: GREY BOARD (MF) 280 GSM

Minimum Technical Specification required as per IS : 2617/1967 (with latest amendments).

Hand and Visual Observation : The printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

In Sheet size 51 x 76 cm. 280 GSM / 54.26 Kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa.	
280 GSM	-	-	5	-	5
	-	-	5	-	5

Item No. 12: IVORY CARD SHEET 300 GSM

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

In Sheet size 56 x 71 cm., 300 GSM/ 59.64 Kg.

	DESTINATION				Total Quantity (in sheets)
	Bhopal	Gwalior	Indore	Rewa.	
300 GSM	10000 sheets	-	-	-	10000 sheets
	10000 sheets	-	-	-	10000 sheets

Item No. 13: PLASTIC COATED SHEET WHITE 180 GSM

Hand and Visual Observation : The writing and printing paper shall be of Uniform formation, Evenly finished, Printability, Static charge Rattling, Shade, Ink, Absorbency and generally free from specks, holes and other blemishes.

in Sheet size 61 x 91 cm., 180 GSM /49.95 Kg.

	DESTINATION				Total Quantity (in MT)
	Bhopal	Gwalior	Indore	Rewa.	
180 GSM	10	-	-	-	10
	10	-	-	-	10