30-1-98 AP-560C

Public Works (1896) Department.

G.O., No. 969 W

DATED 18-3-96

[Despatch Abstract.]

Hose and Couplings: Letter from the Director General of Stores recommending the most suitable description of — for India, and requesting that in future demands for hose the pattern may be quoted whenever it corresponds with the supply required, communicated to officers of the P. W. D. for guidance.

File the returned
H.S. a. W. after issue

[P. W. 22.
1,000—15-10-96.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

No. 969 W., 18TH MARCH 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

From the Director-General of Stores, to the Joint Secretary to Government, Public Works Department, dated India Office, Whitehall, London, S.W., 27th February 1896, No. S. 13409.

As there is sometimes difficulty in understanding from indents received from India precisely what description of hose and couplings may be required, lists of suction and delivery hose and couplings with their corresponding pattern numbers as supplied to India in past years have been drawn up and I have the honour to inform you that twelve copies have been despatched to you by book post.

I have the honour to request that, in future demands for hose, the pattern number may be quoted whenever it corresponds with the supply required, and I have to observe that tanned canvas hose inlined with India-rubber, pattern 5595, is considered the most suitable description of delivery hose for India as it requires less care for its preservation than any other kind.

With regard to couplings, I have the honour to point out the great desirability of there being in India as far as possible but one description in order to ensure their being interchangeable and capable of being transferred in cases of urgency. The coupling recommended is pattern 6347—the old Metropolitan Fire Brigade coupling with a V thread—as the screw is the same for a fair range of sizes; the waterway of course varies, as shown in the lists, with the size of the hose. About two-thirds of the couplings sent to India for many years past have been of this pattern which is adopted by the War Department and also by most of the Fire Brigades in this country.

In cases where it is necessary that any other description of coupling than those shown in the lists should be supplied, a full sized drawing or sample pair of couplings should be sent Home with the indent.

ENCLOSURES.

LIST of hose delivery of sorts and sizes as supplied to India by the India Store Department, viz., with or without gun-metal couplings.

India Store depôt pattern number.		
3385.	Hose, delivery, leather, copper riveted, in lengths from 20 to 50 feet.	
3389-A.	Do.	India-rubber, 4 ply, in lengths from 20 to 60 feet.
5595.	Do.	tanned canvas, in lined with India-rubber, in lengths from 20 to 100 feet.
4273.	Do.	canvas, burnettized, in lengths from 20 to 500 feet.

Description and service for which supplied.	Bore or internal diameter of hose.	Bore or waterway of couplings.	External diameter of male thread of couplings.	Number of threads per inch.	Shape of thread.	India store depôt, pattern number of couplings.	Remarks.
	INS.	INS.	INS.				
Hose delivery—							
For Marine Department— Pump No. 1.	1½	1¼	1 13/16	8	V	7232	The bore or waterway of the couplings of delivery hose is always ¼ inch less than the bore of the hose, so that the latter may fit the external diameter of the shank of the couplings. In demands for delivery hose the bore of the hose, lengths, description of hose with I.S.D. pattern number and I.S.D. pattern number of couplings should be stated. *Example.*—Hose, delivery, tanned canvas, inlined with I.R. (pattern No. 5595), 2½ inches bore, in lengths of 60 feet, with couplings (Pattern No. 6347)—Lengths 10.
,, ,, 2.	2	1¾	2 7/16	6	,,	7233	
,, ,, 3.	2¾	2¼	3¼	5	,,	7234	
,, ,, 4.	3½	2¾	4 7/16	5	,,	7235	
6th size engine, Indian pattern ..	2¼	2	2½	8	,,	2343	
4th do. do. ..	2½	1 15/16	2½	7	,,	2344	
For Viceregal Lodge, Executive Engineer's store and office, Simla.	2	1¾	2 7/16	6	,,	8634	
For the new Viceregal Lodge ..	2½	2¼	3¼	2	Round	8014	
For Barns Court, Simla ..	2½	2¼	Instantaneous couplings, Morris' patent.			No pattern	
For all services, except the above.	3¼	3	3⅝	5	V	7388-C	
	3	2¾	4	5	,,	7388-B	
	*2 3/4	*2½					
	2½	2¼					
	2¼	..	*3¼	*5	,,	*6347	
	2	1¾					
	1¾	1½	2 1/16	7	,,	7388-A	
	1½	1¼	1 13/16	8	,,	7388	
	1¼	1	1⅝	8	,,	7388-D	
	1	¾	1⅜	8	,,	7388-E	

N.B.—No coupling other than 6347 should be demanded except for the purpose of fitting existing engines, &c., or for hose of less than 2-inch bore.

* Size for delivery hose of Fowkes' engine, W.O. pattern.

LIST of hose, suction of sorts and sizes as supplied to India by the India Store Department, viz., with or without gun-metal couplings.

India store depôt pattern number.	
3384.	Hose, suction, leather, copper riveted, with copper wire spiral in lengths of 6 and 6½ feet.
7882-A.	Hose, suction, India-rubber, 6 ply, with galvanized iron spiral not embedded, in lengths from 6 to 60 feet.
2389.	Hose, suction, India-rubber, 4 ply, with hard rolled iron spiral embedded, in lengths from 6 to 60 feet.

Description.	Bore or internal diameter of *spiral* of hose, spiral *not* embedded.	Bore or internal diameter of hose, spiral embedded.	Bore or waterway of couplings.	External diameter of male thread of couplings.	Number of threads per inch.	Shape of thread.	India store depôt pattern number of coupling.	Remarks.
	INS.	INS.	INS.	INS.				
Hose, Suction—								
With copper spirals, round, not embedded, for the Marine Department. Pump No. 1.	1¼	..	1¾	1 13/16	8	V	7232	In the case of suction hose with spiral, *not* embedded, the bore or waterway of the coupling is equal to the internal diameter of the spiral.
,, ,, 2.	1¾	..	1¾	2 7/16	6	,,	7233	
,, ,, 3.	2¾	..	2¾	3¼	5	,,	7234	
,, ,, 4.	3½	..	3½	4 7/16	5	,,	7235	
With copper spirals, half round, not embedded, 6th size engine, Indian pattern.	2½	..	2½	3¼	6	,,	2345	In the case of suction hose with spiral embedded, the bore or waterway of the coupling is ¼ inch less than the bore of the hose, so that the latter may fit the external diameter of the shank of the coupling.
Do. do. 4th size.	2	..	2	2¾	6	,,	2346	
Fowkes' engine, W. O. pattern ..	2¾	..	2¾	3⅜	5¼	,,	*Nil.*	
India-rubber, 6 ply, with galvanized iron spiral, not embedded.	4½	..	4½	5 7/32	5	,,	8015	
	4	..	4	4⅞	5	,,	6346	
India-rubber, 5 ply, with galvanized iron spiral, not embedded.	3	..	3	4	5	,,	7388-C	In demands for suction hose, the bore of the hose if the spiral be embedded, or the internal diameter of the spiral if the latter be *not* embedded, lengths, description of hose with I.S.D. pattern number and I.S.D. pattern number of couplings should be stated. *Example.*—Hose, suction, I.R., 5 ply, with galvanized iron spiral, not embedded (Pattern No. 7882-A), bore of spiral 2½ inches, in lengths of 10 feet, with couplings, Pattern No. 6347—Lengths 4.
	2¾	..	2¾	3⅝	5	,,	7388-B	
	2½	..	2½	3¼	5	,,	6347	
	2¼	..	2¼					
	2	..	2					
India-rubber, 6 ply, with galvanized iron spiral, with couplings; for Public Works manual fire engine, Simla.	3¾	..	3¾	5	5	,,	..	
India-rubber, 4 ply, with hard rolled iron spiral, embedded.	..	3	2¾	3⅜	5	,,	7388-B	
	..	2¾	2½	3¼	5	,,	6347	
	..	2½	2¼					
	..	2¼	2					
	..	2	1¾					

N.B.—No coupling other than 6347 should be demanded except for the purpose of fitting existing engines, &c., or for hose of less than 2-inch bore.

ORDER—No. 969 W., dated 18th March 1896.

Communicated to officers of the Public Works Department for information and guidance.

(True Extract.)

Under Secy. to Govt., P.W.D.

To the Chief Engineer for Irrigation.
,, Superintending Engineers.
,, the Consulting Architect to Government.
,, the Consulting Engineer for Railways for information.

Exd. T. K. Narayana Aiyangar.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated March, 18th.

Read. *Encl.*

G.O. No. 969 W., 18th Mar. 1896.

MARCH.

Hose and Couplings

Letter from the Director-General of Stores recommending the most suitable description of — for India and requesting that in future demands for hose, the pattern number may be quoted whenever it corresponds with the supply required, communicated to officers of the Public Works Department for guidance.

LIST of HOSE, SUCTION, of Sorts and Sizes as supplied to India by the India Store Department, viz. :—

With or without Gun-metal Couplings.

India Store Depôt, Pattern No.

3384. Hose, Suction, Leather, Copper Riveted, with Copper Wire Spiral, in lengths of 6 and 6½ feet.

7882A. Hose, Suction, India-rubber, 6 ply, with Galvanized Iron Spiral not embedded, in lengths from 6 to 60 feet.

2389. Hose, Suction, India-rubber, 4 ply, with Hard Rolled Iron Spiral embedded, in lengths from 6 to 60 feet.

Description.	Bore or Internal Diameter of *Spiral* of Hose, Spiral *not* embedded.	Bore or Internal Diameter of Hose, Spiral embedded.	Bore or Waterway of Couplings.	External Diameter of Male Thread of Couplings.	No. of Threads per Inch.	Shape of Thread.	India Store Depôt Pattern No. of Coupling.	Remarks.
Hose, Suction :—	Inches.	Inches.	Inches.	Inches.				
With copper spirals, round, not embedded, for the Marine Department — Pump No. 1	1¼	—	1¼	1 13/16	8	V	7232	In the case of suction hose with spiral, *not* embedded, the bore or waterway of the coupling is equal to the internal diameter of the spiral.
Pump No. 2	1½	—	1½	2 7/16	6	"	7233	
Pump No. 3	2½	—	2½	3¼	5	"	7234	
Pump No. 4	3½	—	3½	4 7/16	5	"	7235	In the case of suction hose with spiral embedded, the bore or waterway of the coupling is ¼ inch less than the bore of the hose, so that the latter may fit the external diameter of the shank of the coupling.
With copper spirals, half round, not embedded, 6th size engine, Indian Pattern	2½	—	2½	3¼	6	"	2345	
Ditto, ditto, 4th size	2	—	2	2¾	6	"	2346	In demands for suction hose, the bore of the hose if the spiral be embedded, or the internal diameter of the spiral if the latter be *not* embedded, lengths, description of hose with I.S.D. Pattern No., and I.S.D. Pattern No. of couplings should be stated.
Fowke's engine, W.O. pattern	2¾	—	2¾	3⅝	5½	"	Nil.	
India-rubber, 6 ply, with galvanized iron spiral, not embedded.	4½	—	4½	5 7/16	5	"	8015	
	4	—	4	4¾	5	"	6346	*Example.*—Hose, suction, I.R., 5 ply, with galvanized iron spiral, not embedded (Pattern No. 7882A), bore of spiral 2½ inches, in lengths of 10 feet, with couplings, Pattern No. 6347,—Lengths 4.
India rubber, 5 ply, with galvanized iron spiral, not embedded.	3	—	3	4	5	"	7388C	
	2¾	—	2¾	3⅝	5	"	7388B	
	2½	—	2½	3½	5	"	6347	
	2¼	—	2¼					
	2	—	2					
	1¾	—	1¾					
India-rubber, 6 ply, with galvanized iron spiral, with couplings; for Public Works manual fire engine, Simla.	3¾	—	3¾	5				
India-rubber, 4 ply, with hard rolled iron spiral, embedded	—	3	2¾	3⅝	5	"	7388B	
	—	2¾	2½	3½	5	"	6347	
	—	2½	2¼					
	—	2¼	2					
	—	2	1¾					

India Office,
31st January 1896.

N.B.—No coupling other than 6347 should be demanded except for the purpose of fitting existing engines, &c., or for hose of less than 2-inch bore.

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List of Hose Delivery of Sorts and Sizes as supplied to India by the India Store Department, viz. :—

With or without Gun-metal Couplings.

India Store Depôt Pattern No.

3385. Hose, Delivery, Leather, Copper Riveted, in lengths from 20 to 50 feet.
3389A. Hose, Delivery, India-rubber, 4 ply, in lengths from 20 to 60 feet.
5595. Hose, Delivery, Tanned Canvas, inlined with India-rubber, in lengths from 20 to 100 feet.
4273. Hose, Delivery, Canvas, Burnettized, in lengths from 20 to 500 feet.

Description and Service for which Supplied.	Bore or Internal Diameter of Hose.	Bore or Waterway of Couplings.	External Diameter of Male Thread of Couplings.	No. of Threads per Inch.	Shape of Thread.	India Store Depôt, Pattern No. of Couplings.	Remarks.
	Inches.	Inches.	Inches.				
Hose Delivery :—							
For Marine Department. Pump No. 1	1¼	1¼	1 13/16	8	V	7232	The bore or waterway of the couplings of delivery hose is always ⅛-inch less than the bore of the hose, so that the latter may fit the external diameter of the shank of the couplings.
For Marine Department. Pump No. 2	2	1⅞	2 7/16	6	"	7233	
For Marine Department. Pump No. 3	2½	2⅜	3¼	5	"	7234	In demands for delivery hose the bore of the hose, lengths, description of hose with I.S.D. Pattern No., and I.S.D. Pattern No. of couplings should be stated.
For Marine Department. Pump No. 4	3½	3⅜	4 7/16	5	"	7235	
6th Size Engine, Indian Pattern -	2½	2⅜	2 13/16	8	"	2343	
4th Size Engine, Indian Pattern -	2¼	1⅞	2⅜	7	"	2344	*Example.*—Hose, delivery, tanned canvas, inlined with I.R. (Pattern No. 5595), 2¼-inches bore, in lengths of 60 feet, with couplings (Pattern No. 6347).—Lengths 10.
For Viceregal Lodge, Executive Engineer's Store and Office, Simla.	2	1¾	2 7/16	6	"	8634	
For the New Viceregal Lodge -	2½	2¼	3¼	2	Round	8014	
For Barns Court, Simla - -	2½	2¼	Instantaneous Couplings, Morris' Patent.			No pattern	
For all services, except the above.	3½	3	4	5	V	7388C	
	3	2¾	3½	5	"	7388D	
	*2½	*2⅜					
	2½	2¼	*5¼	*5	"	*6347	
	2¼						
	2	1¾					
	1¾	1⅝	2 1/16	7	"	7388A	
	1½	1⅜	1 13/16	8	"	7388	
	1¼	1	1¼	8	"	7388D	
	1	¾	1⅛	8	"	7388E	

* Size for Delivery Hose of Fowkes' Engine, W.O. Pattern.

India Office,
31st January 1896.

N.B.—No coupling other than 6347 should be demanded except for the purpose of fitting existing engines, &c., or for hose of less than 2-inch bore.

Ors 5. 2
2683/96

It is requested that in any further communication on this subject the under-mentioned letter and number may be quoted, and the reply addressed to
The Director General of Stores,
India Office,
Whitehall,
London, S.W.

J. 13,409.

India Office,
Whitehall,
London, S.W.
27th February 1896.

Sir,

As there is sometimes difficulty in understanding from Indents received from India precisely what description of hose and couplings may be required, lists of suction and delivery hose and couplings with their corresponding pattern numbers as supplied to India in past years have been drawn up and I have the honour to inform you that 12 copies have been despatched to you by book post.

I have the honour to request that in future demands for hose the pattern number may be quoted whenever it corresponds with the supply required, and I have to observe that tanned canvas hose inlined with india-rubber, pattern 5595, is considered the most suitable description of delivery hose for India as it requires less care for its preservation than any other kind.

With regard to couplings I have the honour to point out the great desirability of there being in India as far as possible but one description in order to ensure their being

The Secretary to Government,
Public Works Dept, Madras.

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being interchangeable and capable of being transferred in cases of urgency. The coupling recommended is pattern 6347 - the old Metropolitan Fire Brigade coupling with a V thread - as the screw is the same for a fair range of sizes; the waterway of course varies, as shewn in the lists, with the size of the hose. About two-thirds of the couplings sent to India for many years past have been of this pattern which is adopted by the War Department and also by most of the fire brigades in this Country.

In cases where it is necessary that any other description of coupling, ~~should~~ than those shewn in the lists should be supplied a full sized drawing or sample pair of couplings should be sent home with the indent.

I have the honour to be, Sir,
Your obedient Servant,

J. Tarker
Director General of Stores.

P. W. CURRENT No. 2683

Encls 2 (11 S.c)

Recd: 16.3.96

No 969 Way 18 March 1896.

A.S.

Communicated to officers of the P.W. dept for information & guidance.

17/3/96

DISTRICT
30 MAR 96

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