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Form No.



PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD

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OIL FIELD HOSES FOR HIGH PRESSURE MUD APPLICATION

- 1. **SCOPE:** This standard specifies the oil field houses used in high pressure mud piping and suction line assembly of oil rigs working in coastal areas/desert areas.
- 2. **APPLICATION:** The hoses supplied will be suitable to handle the water-based mud consisting of barite, Bentonites, water, diesel and certain other chemicals etc., of specific gravity 1.6 to 2.4 viscosities 60 to 80 Centipoises. Temp. Ranges from 0 C to 55 C. and to withstand severe conditions of suction and pump vibrations.

3. TECHNICAL REQUIREMENTS:

A) **Suction Hose**:

i) <u>Application</u>: Used as a flexible connection between Suction Tank and Mud Pump suction.

ii) Construction:

- a) <u>Cover</u>: Suitable Synthetic rubber for protection against oil abrasion and weathering.
- b) Reinforcement: Heavy, galvanized round wire reinforcement embedded in rubber compound and heavy plies of fabric to prevent collapse, afford flexibility, absorb pump vibration, pulsating pressures and provides unobstructed flow.
- c) <u>Tube</u>: Synthetic tube to resist oil and cutting action of sand and gravel.
- d) End Connection: As per variant table

B) Vibratory and Rotary Hoses:

i) General requirement:

The manufacturer shall be API approved and product should bear API monogram as per 7K, latest addition. Hoses supplied shall be FSL-1 and as per applicable API grade.

ii) Application:

Vibratory hose used as a flexible connection between Mud pump and high pressure manifold and Rotary hose used as a flexible connection between standpipe gooseneck and swivel for pumping mud at high pressure.

ef.	Revisions:	Prepared :	Approved :	Date :
Ref.	Refer to record of revisions:	K.S.RAO	R.V.RAO	12.03.91



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ii) Construction:

- a) <u>Cover</u>: Suitable synthetic rubber to resist abrasion, corrosion, cutting, gouging oil and weathering.
- b) <u>Reinforcement</u>: Heavy plies of closely spaced high tensile steel wire throughout the entire length of the hose cushioned between synthetic rubber layers.
- c) <u>Tube</u>: Oil resistant synthetic rubber for handling abrasive corrosive and oily drilling mud.
- d) End Connection: As per variant table
- 5. <u>INDENTING</u>: The description bore size overall length, end connections. Working and test pressures, product standard and var. no. must be clearly mentioned in indent.
 - Eg. Suction Hose, 6" ID, 6" Long. Plain ends. 225-PSI WP, 338-PSI TP. OE53482-03

6. TEST AND GUARANTEE:

- 6.1 Manufacturer's Test certificates and guarantees certificate for a trouble free operation for a period of 12 months from the date of commissioning or 18 months from the date of receipt pf goods at our end whichever is earlier.
- 6.2 Hose to be pressure tested as per variant table to be witnessed by TPI. TPI witness report for pressure testing shall be submitted along with the supply.
- 7. <u>PACKING:</u> Hoses should be properly packed for avoiding damage during transit and storage. Threading should be properly protected. No folds are permitted.

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VAR. NO.	DESCRIPTION	BORE SIZE	LENGTH	END CONNECTION	W.P. PSI	T.P. PSI	WEIGHT (KGS)	MATL, CODE NO.
01	SUCTION HOSE	10" ID	6 FT	10 3/2" OD PLAIN.	225	338	152	OE9853482010
02	VIBRATORY HOSE	3 1/2" ID	12 FT	4" API MALE THD.	5000	7500	224	OE9853482029
03	SUCTION HOSE	Q;; D	6 FT	6 5/8" OD PLAIN.	225	338	42	OE9853482037
04	ROTARY HOSE	3 ½" ID	65 FT	4" API MALE THD.	5000	7500	817	OE9753482045
05	VIBRATORY HOSE	4"ID	12 FT	4" API MALE THD.	5000	7500	242	OE9853482053
90	ROTARY HOSE	3 ½" ID	55 FT	4"API MALE THD.	2000	7500	661	OE9853482061
07	VIBRATORY HOSE	4" ID	30 FT	4" API MALE THD	5000	7500	375	OE9753482078
80	ROTARY HOSE	3 ½" ID	75 FT	4" API MALE THD.	5000	7500	940	OE9753482086
60	ROTARY HOSE	2" ID	47 FT	2" API MALE THD.	2000	7500	550	OE9753482094
10	VIBRATORY HOSE	3 1/2" ID	12 FT	5", 1502 INTEGRAL HAMMER UNION (END A- MALE, END B-FEMALE)	7500	12500	224	OE9853482108
11	VIBRATORY HOSE	3 1/2" ID	20 FT	5", 1502 INTEGRAL HAMMER UNION (END A- MALE, END B-FEMALE)	7500	11250	375	OE9753482116





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MATL. CODE NO.	OE9753482124	OE9753482122					
WEIGHT (KGS)	260	935					
T.P. PSI	11250	11250					
W.P. PSI	7500	7500					
END CONN, NIPPLE	5", 1502 INTEGRAL HAMMER UNION (END A- MALE, END B-FEMALE)	5", 1502 INTEGRAL HAMMER UNION (END A- MALE, END B-FEMALE)					
LENGTH	30 FT	50 FT					
BORE SIZE	3 1/2" ID	3 1/2" ID					
DESCRIPTION	VIBRATORY HOSE	VIBRATORY HOSE					
VAR. NO.	12	13					





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			RECORD OF REVISIONS	3	
, , , , , , , , , , , , , , , , , , ,	Rev. No.	Date	Revision Details	Revised By	Approved By
ITEI	01	22.09.05	VAR. 07 ADDED	RAJEEV	CSR
Com	02	11.08.09	Packing note added	Narender	ATP
ALS the	03	27.01.12	VAR 08 ADDED	ROHIT	RAJEEV
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.	04	30.09.13	MAT. CODE NO. CORRECTED FOR VAR 04 & 08.	ROHIT	RAJEEV
ELE	05	19.07.18	TEST PRESSURE CHANGED	MURALI	RAJEEV
EAVY to the	06	15.11.19	Cl3B modified. VAR no. 09 added	J RAMESH	RAJEEV
CONFIDENTIAL ty of BHARAT H: way detrimental	07	20.12.19	Cl6 Revised. TPI witness added	MURALI	RAJEEV
DEN 3HAF	08	19.11.20	VAR 10 TO 13 ADDED	MURALI	RAJEEV
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