

14. **Legal Jurisdiction:** The Courts of Mysore (Karnataka State) shall alone have jurisdiction to decide on any legal matter of dispute whatsoever arising out or in respect of the contract.

15. **Force Majeure:** In the event of any unforeseen event directly interfering with the supply of stores arising during the currency of the contract, such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the Contractor shall, within a week from the commencement thereof, notify the same in writing to the Purchaser with reasonable evidence thereof. Unless otherwise directed by BNPM in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the

Force Majeure event. If the force majeure condition(s) mentioned above be in force for a period of 90 days or more at any time, either party shall have the option to terminate the contract on expiry of 90 days of commencement of such force majeure by giving 14 days' notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other, save and except those which had occurred under any other clause of this contract prior to such termination.

16. **Rights of Rejection:** BNPMIPL reserves the right to reject any or all the applied bids without assigning any reason whatsoever. The enquiry can be rejected on national security grounds.

17. Price Bid Format:

Sl. No.	Material Description	UOM	Qty	Unit Price (INR)	P&F, Insurance & Freight Charges (INR)	GST@ Amount (INR)	Unit price including P&F, Insurance, Freight & GST (INR)	Total price inclusive of P&F, Insurance, Freight & GST (F.O.R, BNPM, Mysuru) (INR)	Input GST Credit (INR) {GST amount * Total quantity}	Effective price inclusive of P&F, Insurance, Freight (F.O.R, BNPM, Mysuru) (INR)
A	B	C	D	E	F	G	H=E+F+G	I=H*D	J=G*D	K=I-J
1.	Coal Tar Sheet (Underground pipe wrapping sheet) as per the specifications provided at page no. 7 & 8 below	Sq. Mtrs.	100							

Note: Evaluation shall be done on the effective price to decide L-1 bidder.

We hereby confirm that

1. We accept all the terms & conditions mentioned in the enquiry.
2. Price quoted is inclusive of P&F, Insurance, Freight and GST on F.O.R Basis, BNPM Plant, Mysore.
3. Bid validity: 30 days from the date of enquiry closing date.
4. HSN Code:
5. Delivery period: (Days / Weeks)
6. Warranty Period: Months
7. Bank Details: Acc. No.; Bank Name:;
Branch name:; Branch Code:;
IFSC:
8. MSME / NSIC status: (If yes, then supporting document to be submitted along with the offer)
(Please fill above: MSI – For Micro Enterprises; SSI – For Small Enterprises; MED.SI – For Medium Enterprises; NSIC – For National Small Industries Corporation regd. firm)

Signature of bidder:

Name of the Firm with Address:

.....

.....

Seal of the firm:

GST No.:



5.2 Characteristics and Functional Requirements of coating materials.

5.2.1 Coal tar tapes

Materials for coal tar tape coating shall conform to the following specifications. The following are the salient features of coal tar tape coating materials.

5.2.1.1 Primer

The primer shall be type B as specified in AWWA C-203 (latest edition). Following are the main characteristics :

Type	Fast drying, synthetic, chlorinated rubber-synthetic plasticizer-solvent based
Drying time (Tack free)	15 minutes(approx.) Test Method ASTM D 1640-83/89
Flash point	> 23°C : ASTM D93-90/ D3941-90
Volatile matter (105-110°C) per cent by mass	75 :ASTM D2369-90 (maximum)
Viscosity, on FORD CUP NO. 4 (4mm nozzle) at 23°C	35-60 seconds. ASTM D1200-88
DFT	25 microns/coat / (minimum)
Coverage (Theoretical)	10 M ² /Lit/Coat
Coverage (Practical) @ 25 microns DFT coat	6 M ² /Lit/Coat ASTM D344-89 (minimum)
Application properties	By brush/ Spray should produce an effective bond between metal and subsequent coaltar tape
Adhesion test (after 72 hours)	The primer shall be tested after applying Tape coating as per AWWAC-203 (latest edition).

5.2.1.2 Coal Tar Tape

The tape shall be coal-tar component supported on fabric of inorganic fibres.

a) Raw Coal Tar Pitch

The coal tar (hard pitch) component shall be produced from coal that has a minimum heating value of 13000 Btu/lb (7.223x10⁶ cal/kg) on a moisture and mineral matter free basis (ASTM D 388) and that has been carbonised in a slot-type coke oven at a temperature of not less than 900°C. The coal tar (hard pitch) shall have the following salient properties:

Softening point °C	65	121	ASTM D36- 86
Specific gravity	1.30±0.0 5		ASTM D 71-94
Ash content	0.5% Max.		ASTM D 2415-66(1991)
Physical state	Solid at ambient temperature		

b) Fabric

Type : The fabric shall be a thin, flexible, uniform mat or tissue composed of glass fibres in an open structure bonded with a suitable resinous inert material compatible with coal tar.

Weight (min) g/m ²	40
Thickness (min.) mm	0.3



Breaking load in the longitudinal direction: 2.28KN/m(min.)

Porosity	When related to pressure difference across the sample, the glass fibre fabric shall have porosity of not less than 0.6mm and not more than 1.9mm of water at an average air velocity of 61m/minute(1m/sec.)
Temperature Resistance	The fabric shall be unaffected under load in hot coal tar at 288°C for one minute. It shall not shrink length wise or width wise
Pliability test	No cracking shall take place when bent over a mandrel of 3mm radius through 90° arc at a uniform speed of approximately 2 seconds after immersing in water for 10 to 15 minutes

Note : (1) Manufacturer's test data in the laboratory are required for the above properties on the materials supplied.

c) Physical properties of coaltar tape.

Property	Requirement		Test method
	Min.	Max.	
Service temperature °C	-	60	
Tape thickness mm	2.0	2.5	Section 8.11.3 of AWWA C-203
Weight average	1.25kg/sq.m/mm	-	ASTM D146
Breaking strength in longitudinal direction kN/m	0.7		AWWA C-203 10.3.1.2.5
Adhesion	To pass test as per BIS, DOC. MTD 24(3624) or 8.11.2 of AWWA C-203.		
Insoluble content % by wt in petrol.	93% minimum (By SMMS-EIL procedure given in Annexure-I) petrol quality shall be as per IS-2796-1995		

d) Physical properties of coaltar component in the finish tape.

Property	Requirement		Test method
	Min.	Max.	
Softening point °C	65	121	ASTM D36- 86
Penetration at 25C/100g/10 ⁻¹ mm/5 sec	1	9	ASTM D-5/BS-4164
Filler %	20	35	ASTM D 2415. or AWWA C-203 See 8.11.6

e) Filler

Characteristics	Requirement	Test Method
Fineness: % w/w, minimum	Shall pass through mesh size of 75 microns	IS460(Pt.1): (Latest edition)
Loss on ignition at 800° C, w/w max.	10	IS 1217: (Latest edition)

f) Field Tests

A few test methods, given in Annexure-1 are mainly applicable during field application

