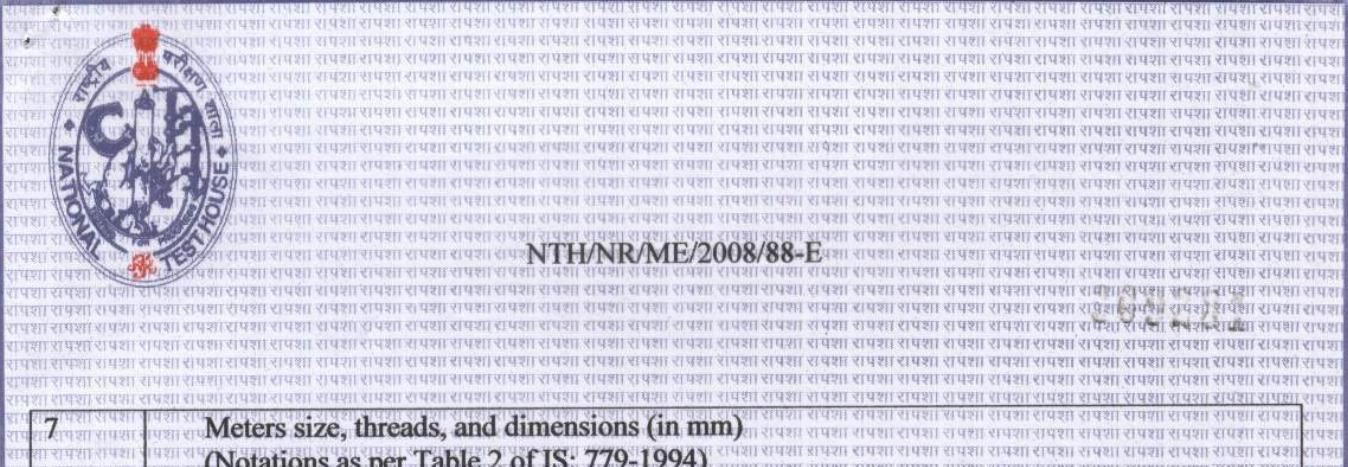


**भारत सरकार****GOVERNMENT OF INDIA****चुपभौक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय****Ministry of Consumer Affairs, Food & Public Distribution****Department of Consumer Affairs****राष्ट्रीय परीक्षण शाला (उ०क्षे०)****NATIONAL TEST HOUSE (NR)****कमला नेहरू नगर, गाजियाबाद KAMLA NEHRU NAGAR, GHAZIABAD-201002****Phone : 0120-2789813, 2789906 Fax : 0120-2789883 E-mail : nthnr@rediffmail.com****TEST CERTIFICATE****Sample No. ME/01868****Issued to:****Date: 08-6-2009****Aman Engineering Works****C-54 & 55, Focal Point Extension,****Jalandhar -144004****File No. NTH/NR/ME/2008/88-E****Ref. No. Nil****Dated: 06-11-2008 and further correspondence****Dated 10-11-2008, 03-12-08 & 05-03-09****Sample Recd on 01-12-2008****One sample consisting of three water meters described as "50 mm Multi Jet class B of****KRANTI MAKE having meter numbers 265536, 257537 & and 257838.****As desired, the above meters were subjected to Type Test as per IS: 779-1994 read****with IS: 6784-1996 , The results obtained are noted below:-;**

Tests Results		Observed value		Specified value
		Meter Number		
<b>A</b>	<b>Performance</b>			
<b>1</b>	<b>Minimum starting flow at which measurement starts</b>	<b>Satisfactory</b>	<b>Satisfactory</b>	<b>Shall start registering at a flow rate of 300 l/h</b>
<b>2</b>	<b>Pressure tightness test</b>			
<b>2.1</b>	<b>At 1.6 MPa for 15 minutes</b>	<b>Satisfactory</b>	<b>Satisfactory</b>	<b>No leakage, seepage or deformation</b>
<b>2.2</b>	<b>At 2.0 MPa for 1 minutes</b>	<b>Satisfactory</b>	<b>Satisfactory</b>	<b>No leakage, seepage or deformation</b>
<b>3</b>	<b>Loss of pressure in MPa</b>			
<b>3.1</b>	<b>For nominal flow rate (Qn: 15 K l/h)</b>	<b>0.015</b>	<b>0.015</b>	<b>0.025 Max</b>
<b>3.2</b>	<b>For maximum flow rate ( Qmax: 30 K l/h )</b>	<b>0.075</b>	<b>0.075</b>	<b>0.100 Max</b>
<b>4</b>	<b>Metering Accuracy</b>			
<b>4.1</b>	<b>Error in metering accuracy at maximum flow rate (Qmax : 30 Kl/h)</b>	<b>-1.0 %</b>	<b>0.0 %</b>	<b>+ 0.5% +/- 2% Max</b>



 <p><b>NATIONAL TESTING LABORATORY</b></p> <p><b>TEST REPORT</b></p> <p><b>NTH/NR/ME/2008/88-E</b></p>					
<p><b>Meter No.</b></p>					
<b>5.4.2 Error in metering Accuracy at normal Flow rate (Qn : 15 K l/h)</b>					<p><b>257537</b> <b>257838</b></p> <p>+1.3% <b>-1.0%</b> <b>+/-2% Max</b></p>
<b>5.4.3 Error in metering Accuracy at transitional flow rate (Qt : 1200 l/h)</b>					<p><b>+1.5% +1.0% +/-2% Max</b></p>
<b>5.4.4 Error in metering Accuracy at minimum Flow rate (Q min.: 300l/h)</b>					<p><b>+2.5% +2.5% +/-5% Max</b></p>
<p><b>6- Performance after Temperature suitability test (As per clause 10.3)</b></p> <p><b>Two meters, one after initial performance test and other after life test were subjected to temperature suitability test</b></p>					
<p><b>Meter No.</b></p>					
<b>6.1 Minimum starting flow at which measurements starts</b>	<b>Satisfactory</b>	<b>Satisfactory</b>	<b>Shall start registering at a</b>	<b>Flow rate of 300 l/h</b>	
<b>6.2 Pressure tightness test</b>					
<b>6.2.1 At 1.6 MPa for 15 minutes</b>	<b>Satisfactory</b>	<b>Satisfactory</b>	<b>No leakage seepage or deformation</b>		
<b>6.2.2 At 2.0 MPa for 15 minutes</b>	<b>Satisfactory</b>	<b>Satisfactory</b>	<b>No leakage seepage or deformation</b>		
<b>6.3 Loss of pressure in MPa</b>					
<b>6.3.1 For nominal flow rate (Qn 15 K l/h)</b>	<b>0.020</b>	<b>0.020</b>	<b>0.025 Max</b>		
<b>6.3.2 For maximum flow rate (Qmax 30 K l/h)</b>	<b>0.080</b>	<b>0.080</b>	<b>0.100 Max</b>		
<b>6.4 Metering Accuracy</b>					
<b>6.4.1 Error in metering accuracy at maximum flow rate (Qmax : 30 K l/h)</b>	<b>0.0%</b>	<b>-1.0%</b>	<b>+/-2% Max</b>		
<b>6.4.2 Error in metering Accuracy at normal Flow rate (Qn : 15 K l/h)</b>	<b>+ 0.5%</b>	<b>+ 1.3%</b>	<b>+/-2% Max</b>		
<b>6.4.3 Error in metering Accuracy at transitional flow rate (Qt : 1200 l/h)</b>	<b>-1.0%</b>	<b>+ 1.5%</b>	<b>+/-2% Max</b>		
<b>6.4.4 Error in metering Accuracy at minimum Flow rate (Q min.: 300 l/h)</b>	<b>+ 4.0%</b>	<b>+ 2.5%</b>	<b>+/-5% Max</b>		
<p><b>Page 3 of 4</b></p>					



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<b>Meters size, threads, and dimensions (in mm) (Notations as per Table 2 of IS: 779-1994)</b>		
<b>7.1</b>	<b>Meter size</b>	<b>50</b>
<b>7.2</b>	<b>Threads</b>	<b>Satisfactory</b>
<b>7.3</b>	<b>Length of threads, on one side other side</b>	<b>25</b> <b>25</b>
<b>7.4</b>	<b>Length of meter with nipples</b>	<b>469</b>
<b>7.5</b>	<b>Length of meter without Nipples</b>	<b>+0</b>
<b>7.6</b>	<b>Width (W)</b>	<b>129.5</b>
<b>7.7</b>	<b>Height (H1)</b>	<b>47</b>
<b>7.8</b>	<b>Height (H2)</b>	<b>97</b>
<b>8</b>	<b>Value of verification Scale interval (I)</b>	<b>1.0</b>
		<b>2.0 Max</b>

**Note:- The samples were tested at factory site on 1.12.2008, 16.03.2009 and 7.03.2009**

**Remarks:- The sample meets the requirements of IS: 779-1994 in respect of test carried out for water meter (Domestic type), of size 50 mm, Multi jet and class "B".**

**Tested By**

**(ANIL CHOPRA)**  
**SCIENTIST SB(Mech)**

**Checked By**

**(R.N.RAM)**  
**SCIENTIST SC(Mech)**

**Approved By**

**(SHER SINGH)**  
**SCIENTIST SD**