

# **COMMUNITY PLUMBING CHALLENGE**



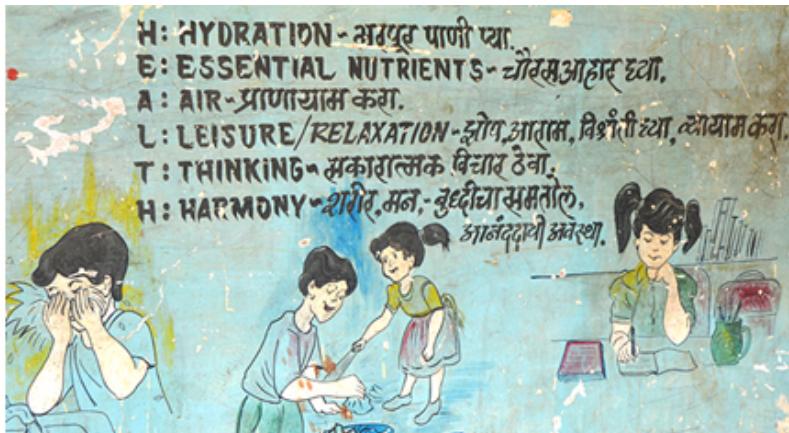
Nashik, India  
2–5 November, 2015

## **INFORMATION PACK**

**July 2015**

# INTRODUCTION

## COMMUNITY PLUMBING CHALLENGE, 2015–



Detail from wall mural painted at School 125, Mukti Dham – Nashik, India; May 2015.

**Thank you for your interest in the Community Plumbing Challenge!** We are very excited to connect with you and to work with your organization over the coming weeks and months.

The goal of the CPC is to provide each and every one of its participants with an extraordinary personal and professional experience, challenging them to perform in their areas of skilled expertise in testing international settings. CPC Teams will be required to collaborate, communicate, and ultimately compete to be crowned overall winners of an event that strives to build lasting and sustainable impacts for communities-in-need, promoting skills and knowledge exchange to inform and empower peers and inspire the next generation.

In negotiating language and cultural barriers, tough working conditions, different climate and alternative tools, materials and equipment, our Teams will complete a series of design and construction tasks that will equip each individual with a unique international worldview, and renewed vigour for their trade. The CPC strives to light this spark in all participants and stakeholders: a confidence to continue innovating and pushing the boundaries of their respective industries, recognising community needs and opportunities to support and transfer skills and technical excellence to others.

By requesting this Information Pack, and in expressing your interest in the CPC concept, we understand that these opportunities also matter to *your* organization, in nurturing *your* young professionals to become community leaders and innovators – not only of the future – but of the here and now.

In this way, we hope to continue developing the CPC programme to drive unique educational innovation in the coming years, crossing the vocational and academic spheres. The 2015 CPC in Nashik, India, is just the start of a programme that we hope will impact the lives of not just hundreds, but hundreds of thousands of people across the world: continually expanding to work alongside leading international stakeholders in the arena of water, sanitation and public health.

This Information Pack provides an outline of the design and development tasks that will be set to those Teams participating in CPC 2015. We also urge each Team Organizer to read (or, indeed, re-read) the accompanying ‘concept’ paper (OP033\_CPC2015\_Concept\_Paper.pdf) which sets out the original rationale for the CPC programme under its founding stakeholders, representing WorldSkills Foundation, IAPMO, World Plumbing Council and RMIT University.

Specific project requirements and assessment criteria will then be provided in each of the Briefs issued before and during the event. From this point forward, the CPC Organizing Team are on hand to answer further questions and queries – please see contact details on p12.

# HOST

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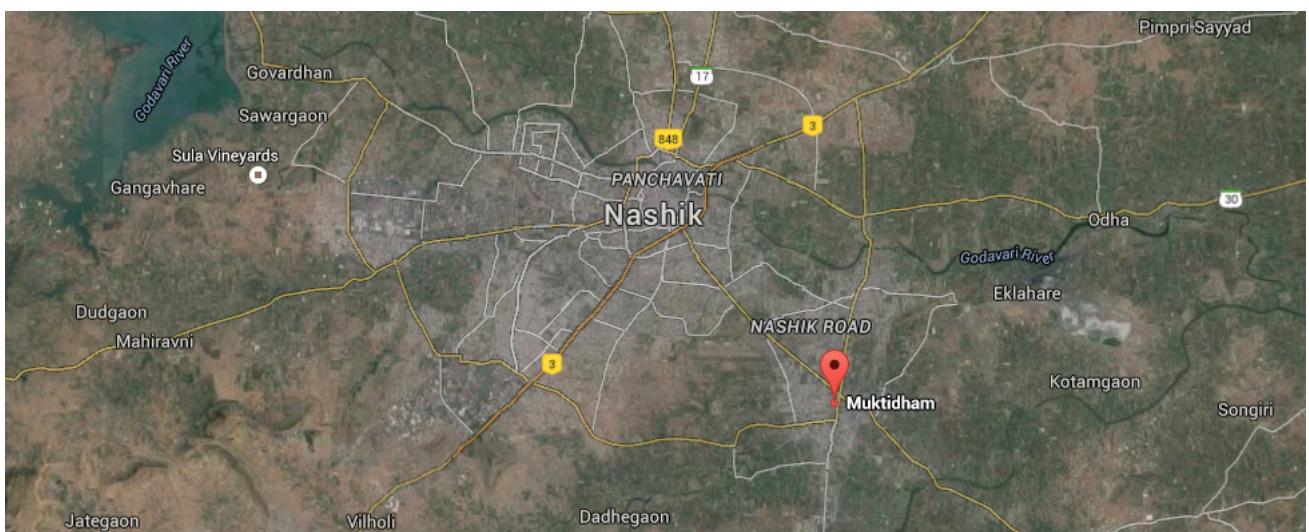
## “NAMASTE!” – WELCOME TO NASHIK

Nashik is a city in western India in the state of Maharashtra. It is a major Hindu pilgrimage city, with rich culture and heritage, and a rapidly-expanding population which is currently close to 1.5 million people. Nashik is approximately 4 hour's travel, by road, from Mumbai.



## SCHOOL 125, MUKTI DHAM, NASHIK

School 125 is a Municipal School situated in the densely-populated South-Eastern ‘Nashik Road’ area of the city. Municipal Schools cater for the poorest social groups across Nashik and are usually positioned close to or within slum neighbourhoods. They are free to attend, and generally suffer from a lack of basic infrastructure or facilities as would be found in other private or fee-paying schools in the city.



School 125 will host the 2015 Community Plumbing Challenge (CPC). The school is home to 500 students between ages 5 and 15 (boys and girls). There are 12 staff at the school.

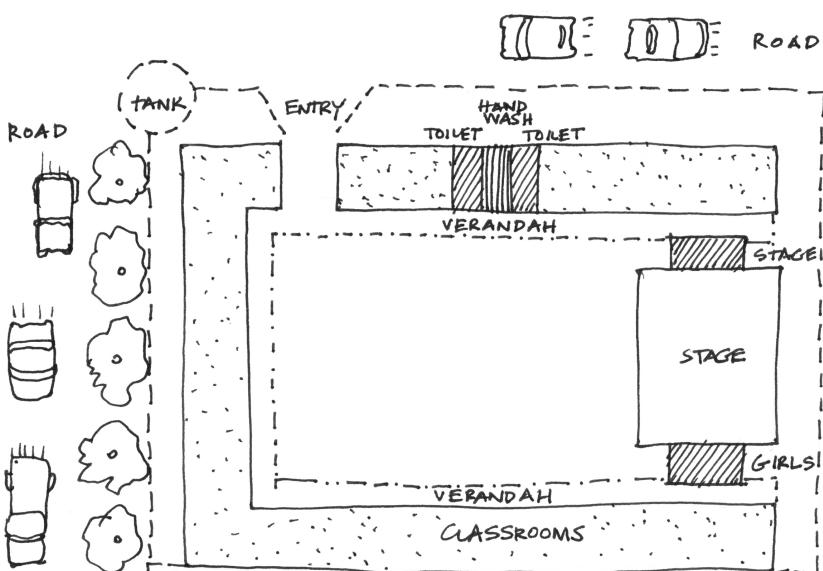


The school has three basic toilet facilities, one male, two female. In total, there are 13 urinals for girls and 7 urinals for boys. These facilities lack reliable water supply for flushing and hand washing. The toilet rooms are dark and poorly ventilated. As a result, the facilities cannot be cleaned effectively, hygiene is poor, and this discourages their use.

Between the main boys and girls toilets is a small room providing eight taps and a sink for use by both students and staff. This supply doubles as the sole drinking water source, within the school. There is no filtration for this water; it comes directly from the water tank on the roof which is fed by mains water. Handwashing is practised at school before midday meals, and each student is provided with a drop of handwash. This process is normally monitored by the teacher. Outside this room, there are no further hand-washing facilities or drinking water facilities available in the school.

All water supply comes from two storage tanks on the roof of the school – 2500 and 1000 litre – and their gravity feeds the toilets. In the past, the school has had additional water tanks in operation, but today these are damaged and no longer in use.

**The CPC will address upgrades and improvements to School 125's existing water and sanitation facilities. Briefs supplied to Teams will detail these tasks, and Teams will work together with the school to achieve and implement these improvements onsite.**



Top: Aerial view of School 125 and surrounding Mukti Dham neighbourhood

Above, left to right: School 125 Playground, Stage, and Hand Wash room.

Left: School 125 layout

# TEAMS

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## **STRUCTURE:**

CPC 2015 will combine multi-discipline Teams, with a cross-section of expertise expanding on the skills pathway and career options for Plumbing apprentices and professionals. Each Team must have Members with one or a combination of the following technical skills:

### **Plumber**

This Team Member...

- Is responsible for hands-on plumbing installation and demonstrations during the Challenge, including (but not limited to) pipework, pumps, taps, water tanks, and toilets.
- Must inform design and planning work from a Plumbing perspective.

### **Engineering lead: Water/Environmental Technician, Architect or other**

This Team Member...

- Is responsible for directing design and planning pre-work, ahead of the Challenge, including (but not limited to) systems for septic tanks, water tanks, and toilets.
- Must streamline all input from Plumbing and Construction perspectives to determine feasible plans.

### **Construction lead: Carpenter, Bricklayer or other**

This Team Member...

- Is responsible for hands-on construction work and demonstrations during the Challenge, including (but not limited to) masonry, walls and floors, brickwork, interior and exterior fittings.
- Must inform design and planning work from a Construction perspective.

### **Design lead: CAD Artist, Graphic Designer or other**

This Team Member...

- Is responsible for developing project documentation, technical drawings and plans, including (but not limited to) diagrams, mock-ups, data visualizations.
- Must streamline all Team input to develop effective communications for solutions and prototypes.

Each team should have four Team Members on site, combining in the most effective way to represent each of the skill sets described above. The composition of the Team and balance of roles is at the discretion of respective Team Leaders/Organizers.

All Team Members will contribute to school and community group presentations, and perform training for students and other local community representatives onsite during the CPC.

### **Age limit**

Team Members must not be older than 28 years in the year of the CPC, i.e. in 2015. This means that an individual's birthday must be on or after 1<sup>st</sup> January 1987, and not before.

### **Team Leader(s)**

Each Team must identify their Team Leader (primary contact for the Team in the lead up to the CPC, and chief representative for the Team when in India). Teams have the option to include extra persons in their travelling party to support this role, and should inform the CPC Organizing Team in advance of these plans (see p12).

## SCHEDULE

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### PRE-WORK: JULY–NOVEMBER, 2015

DAY	DATE	TIME	DETAILS
Thur	09.07.15	12:00 UTC	<p>Information Pack release (i.e. this document) to all prospective Teams, including the following:</p> <ul style="list-style-type: none"><li>• Introduction to host school and outline of works</li><li>• Team structure</li><li>• Programme schedule</li><li>• Travel information</li><li>• Practical and logistical info</li></ul> <p>CPC Organizing Team are available for all questions and queries throughout July 2015 (see contact details, p12).</p> <p>Based on Information Pack outline, Teams are free to begin initial research into CPC host location/area and potential challenge tasks.</p>
Fri	31.07.15	17:00 UTC	Deadline for confirmation of Team participation.
<b>Mon</b>	<b>07.09.15</b>	<b>12:00 UTC</b>	<b>Brief #1 released to all teams. Work starts*.</b>
Thur	10.09.15	TBC	Launch of official event branding and identity at 20 <sup>th</sup> Indian Plumbing Conference, Nashik, India. This toolkit will be provided to Teams for their own marketing and communications.
Mon	21.09.15	TBC	Separate online introduction and briefing sessions for Team A, B, C etc.
Tue	22.09.15	TBC	Separate online introduction and briefing sessions continued.
Mon	12.10.15	TBC	Team Leader online meeting: Procurement lists submitted.
<b>Fri</b>	<b>23.10.15</b>	<b>17:00 UTC</b>	<b>Teams submit Brief #1 solutions/documentation.</b>
Sat	31.10.15	Various	Arrivals in Mumbai.

\* Time for Brief #1 completion = 7 weeks

# SCHEDULE

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## EVENT: 2–5 NOVEMBER, 2015

DAY	DATE	TIME	DETAILS
Sat	31.10.15	All day	Team arrivals, Mumbai.
		Evening	Overnight at Hyatt Regency Hotel, Mumbai Airport: <a href="http://www.mumbai.regency.hyatt.com/en/hotel/home.html">http://www.mumbai.regency.hyatt.com/en/hotel/home.html</a>
Sun	01.11.15	AM	Departure, coach from Mumbai to Nashik.
		Early PM	Arrival in Nashik and check-in at Express Inn Hotel: <a href="http://www.expressinnindia.com/">http://www.expressinnindia.com/</a>
		Afternoon	Preliminary visit to School 125, Mukti Dham (site inspection)
		Evening	Welcome reception and Team dinner at Express Inn.
Mon	02.11.15 <b>Day 1</b>	All day	Onsite at Mukti Dham school: Briefing and tasks.
		Evening	Dinner at hotel, or venue TBC.
Tue	03.11.15 <b>Day 2</b>	All day	Onsite at Mukti Dham school: Works ongoing.
		Evening	Dinner at hotel, or venue TBC.
Wed	04.11.15 <b>Day 3</b>	All day	Onsite at Mukti Dham school: Works ongoing.
		All day	Dinner at hotel, or venue TBC.
Thur	05.11.15 <b>Day 4</b>	All day	Onsite at Mukti Dham school: Works completion.
		All day	Community Forum: Open Day, including final Team presentations.
		Evening	Awards ceremony: venue TBC.
Fri	06.11.15	AM	Departure, coach from Nashik to Mumbai.
		Early PM–	Team departures from Mumbai.
		Evening	Remaining groups overnight at Hyatt Regency Airport Hotel, Mumbai.
		Evening	CPC Organizing Team debrief: venue TBC.
Sat	07.11.15	All day	Remaining departures from Mumbai.

**Detailed daily itinerary for onsite works will be revealed as CPC briefs are provided.**

# ASSESSMENT

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## ASSESSMENT OVERVIEW

Specific mark allocation and assessment criteria will be clearly defined in each of the components provided. Marking for CPC components will be broken down in the following way:

1	Design	40%
2	Training documentation	30%
3	Community consultation	15%
4	Training delivery	15%

## CHALLENGE COMPONENTS

### **Brief #1 – Prior to arrival at CPC 2015:**

Each Team must design and cost a sustainable solution addressing an upgrade to the existing sanitation system in the school. Teams will be asked to produce detailed documentation for their solution, and present this at the school on the first day. This brief will be made available to Teams on 07.09.15, 7 weeks before the Challenge.

### **Brief #2 and #3 – During CPC 2015:**

On the first day of CPC 2015, each Team will be presented with two further briefs. These will be completed onsite at School 125 over the four days of the CPC.

#### **Deliverables:**

The final submission required for all briefs will include:

- Technical specifications for the proposed solutions.
- A rationale that explains how the solutions can be cost-effectively maintained.
- A visual toolkit explaining how the solutions will function, in an appropriate format for use by the school.

There will be no restriction on information and resources that teams wish to utilise in support of design and development for both community briefs.

Documentation must be presented in the format outlined in each brief, and these guidelines will be clearly indicated in the briefs supplied. All individual queries and further discussion will be shared openly with the group.

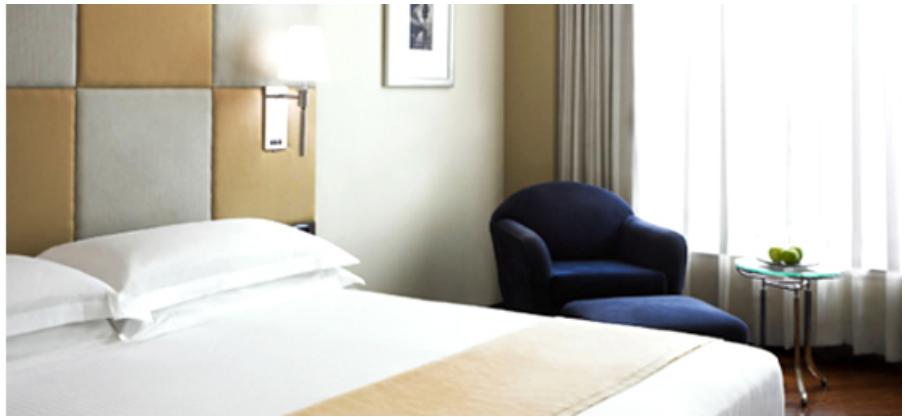
# LOGISTICS

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## ACCOMMODATION

### HYATT REGENCY AIRPORT HOTEL, MUMBAI

- We recommend this airport hotel as the transfer base for all arrivals and departures to and from India.



### EXPRESS INN, NASHIK

- This 4\* hotel will be the base for all CPC participants. It is located approx. 10km from the Mukti Dham school site; positioned on south-western outskirts of Nashik, directly on the Mumbai Expressway.
- It offers a range of western comforts including various food options, pool, gym, and business centre.



**Team Leaders are requested to contact the CPC Organizing Team to liaise on all hotel bookings.**

## TRANSPORTATION

- As indicated in the Event Schedule (p7) a coach will transport all CPC participants from the Hyatt Regency Airport Hotel in Mumbai on Sunday 1 November. This coach will return the group to Mumbai for departures on Friday 8 November.
- During the event days in Nashik, a coach will be provided to transport all CPC participants between School 125 in Mukti Dham and our Express Inn base.
- Taxis are available at all other times throughout the event and can be organized by the CPC Organizing Team. Once travel itineraries are confirmed, Team Leaders must liaise with the CPC Organizing Team to arrange transfers between Mumbai Airport and the Hyatt Regency Airport Hotel on arrival and departure.

# LOGISTICS

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## FURTHER INFORMATION

### Currency

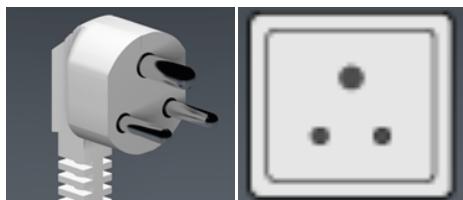
The currency in India is the Rupee, or INR. Rupees are usually only obtainable within India itself, and so cash/currency should be changed at one of the exchange bureaus in the arrivals area of Mumbai Airport. Currency exchange is also available in the Hyatt Regency Airport Hotel in Mumbai.



Typical Exchange rate: 100 INR = 1.50USD = 1.43EUR = 2.10 AUD = 1.02 GBP

### Voltage and Electrical Plug

The voltage in India is 220-240 Volts. The electrical outlet and plug are as below.



Power onsite at School 125 is limited and cannot be guaranteed: i.e. there will be no power on site for charging laptops etc. Teams will need to make allowances for this in terms of their workflow and presentations over the four days of the CPC.

### Tools

Construction work will be carried out on site. Larger tools for this work will be supplied by the CPC Organizing Team. Other specific hand tools will need to be supplied by Team Members. A list of necessary tools and personal protective equipment will be included with the first brief on 07.09.15.

### Food

Food is available at both hotels to suit various tastes. During the CPC, breakfasts and dinners will be at the Express Inn. Supply of lunches onsite will be confirmed.

### Weather

In November, temperatures during the day will average close to 30°C, with humidity around 70%. Night-time temperatures can drop to around 15°C, which is considered cold!

### Dress

Teams should wear attire suitable for physical work in warm weather conditions as described above, i.e. t-shirts or polo shirts with jeans or comfortable work trousers.

### Shopping

School 125 is located beside a busy market area where various street foods, refreshments, handicrafts and souvenirs can be purchased.

## **MEDICATION FOR PERSONAL USE**

Team Leaders must notify the CPC Organizing Team of any individual medical conditions and allergies among their group in advance of travelling to CPC 2015.

Medicinal products carried within personal belongings do not require declaration upon arrival in India. However, as Customs Officers may perform routine checks, supporting documents should be readily available for verification when requested. For prescription medicinal products, this means a letter from your doctor and/or a copy of the prescription as proof that the products are for personal medical use. The individual must take full responsibility for the use of these medicinal products in accordance with the instructions given by the prescribing doctor.

Food and waterborne diseases are the number one cause of illness while travelling in India, and it is recommended that Diarrhea medication is carried by all participants.

A First Aid kit will be available at School 125 during the CPC, and in case of medical emergencies the CPC Organizing Team will connect with the closest hospital.

## **VACCINATIONS**

Each Team will need to ensure that they are vaccinated to meet WHO recommendations before departing their home country.

## **INSURANCES**

Participating teams must confirm that all applicable travel and medical insurances are in place for all members of their group for the duration of their stay and journey to and from India.

## **VISAS**

Team Leaders must ensure that all participants travelling to India have the correct Visa in place, respective of their home country. The choice of Visa is at team discretion. IAPMO India can provide official letters of invitation or further CPC information if required by any Team to support their Visa application.

## CPC ORGANIZING TEAM

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### CONTACT DETAILS

- Grant Stewart – IAPMO – Project Manager: [grant.stewart@iapmo.org](mailto:grant.stewart@iapmo.org)
- Sean Kearney – WorldSkills Foundation – Assistant Project Manager: [sean.kearney@worldskills.org](mailto:sean.kearney@worldskills.org)
- Swathi Saralaya – IAPMO India – Technical Support: [swathi.saralaya@iapmo.org](mailto:swathi.saralaya@iapmo.org)
- Anjali Singh – IAPMO India – Logistics: [anjali.singh@iapmo.org](mailto:anjali.singh@iapmo.org)