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PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
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(71)**Name of Applicant :**
1)SWAMI RAMA HIMALAYAN UNIVERSITY
Address of Applicant :Swami Rama Himalayan University; Swami Ram Nagar,
Jolly Grant, Dehradun Uttarakhand India 248016 Dehradun -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Er. Harsh Pati Uniyal
Address of Applicant :Advisor, Swami Rama Himalayan University; Swami Ram
Nagar, Jolly Grant, Dehradun Uttarakhand India 248016 Dehradun -----

(57) Abstract :

The present invention relates to a system for rainwater harvesting and recharging by direct injection to aquifers through defunct or failed borewell/handpumps in a quickest and cheapest way. The invention discloses a system and method of recharging/replenish fresh clean filtered rain water to the exhausted/depleted underground aquifer from which water has been withdrawn by already installed India Mark II hand pumps having 5" dia MS casing pipe body and a 32mm dia GI riser pipe based hand pump assembly inside the casing pipe. The surrounding ground level of the casing pipe is excavated up to 1 meter and graded filter media with pebbles, charcoal and sand is filled in the excavated portion are provided in a MS fabricated chamber. At the bottom of graded filter media a few holes are done in the casing pipe to allow filtered water to enter inside the casing pipe and flow directly to recharge the depleted/dried up aquifer connected to it. Thus the rain water after filtration enters the hand pump body through these holes and straight away travels about 50-80 meter depth and filled in the aquifer within few minutes without any loss due to seepage or evaporation. (Figure 2)

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