

(54) Title of the invention : A SYSTEM FOR PROVIDING MICRO-IRRIGATION FACILITY THROUGH SUSTAINABLE TOILETS

<p>(51) International classification :C02F0001000000, C02F0009000000, C02F0101200000, E21B0043080000, B01D0024460000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College (Autonomous) Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)C BALAKRISHNA Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>2)T RAM PRASANNA KUMAR REDDY Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>3)M UDAY BHASKAR Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>4)SHETTY MANASA Address of Applicant :Asst Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>5)JARUPLA THARUN Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>6)BADISA PAVAN KUMAR Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>7)ANGOTHU NAVEEN Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>8)CHAKALI TEJESH KUMAR Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>9)GANAPATHI SRI RAM Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :

7. ABSTRACT A system (10) for providing micro-irrigation facility through sustainable toilets is disclosed. Wherein the said system (10) comprises of a structure of sustainable toilet (1), a PVC pipe unit (2) for waste collection, a tank for bio waste collection (3). A rapid sand filtering unit (4) along with a coarse aggregate (5) is arranged for filtration purpose of said wastes. The said PVC pipe unit (2) installed to said sustainable toilet (1) for collection of solid wastes and sends towards the bio waste collection tank (3) and sends towards rapid sand filtering unit (4). Inside the sand filtering unit (4) a sand filter (6) and a coarse aggregate (5) is installed. Wherein said wastes filters in the said filtering unit (4) and sends water into a micro irrigation cropping unit (7). Wherein said system (1) could achieve micro irrigation facility and thus promotes water management. The Figure associated with Abstract is Fig 1.

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