



## CONCEPT NOTE

# EMISSIONS GAP NARROWED by REDUCTION of EMISSIONS DUE to BURNING of AGRICULTURAL RESIDUES & SOLID WASTE

**KEYWORDS:** CLIMATE CHANGE INDC CANCUN EMISSIONS GAP AIR POLLUTION GHG BURNING, FARMS POST-HARVEST AGRICULTURAL RESIDUE, SOLID WASTE

**Summary:** A brief description of the mitigating actions that may result in reduced Emissions GAP is given here. The Emissions reduction occurs due to diversion of Solid Waste for recycling & the un-burnt post-Harvest Agricultural Waste (or Stubble/ Rice straw) 'prior' to the burning. It is diverted by the Farmer himself for preparation of Wood/ Timber through use of WIPO Green Technology (Intl. Patent examin.). Agricultural Waste is recycled into Wood/ Timber & sold, earning as much or more for Farmer than the Crop/ plantation.

**Objective:** Reduce the Emissions GAP or GHG caused due to burning of Solid Wastes & post-Harvest Agricultural Waste in Farms (or Stubble/ Rice straw).

As per Emissions GAP report & known by all, UNEP urgently require further 25% reduction from predicted 2030 emissions & Developing countries can slash emissions by one Gigatonne if international community lives up to commitments (ref. Ch.7 GHG Inventory, IPCC & EMEP/EEA air pollutant emission inventory 2016).

Use of both WIPO GREEN TECHNOLOGIES will result in Improvement/ narrowing of EMISSION GAP (UNEP report 2016) by mitigation of Emissions due to burning Solid Waste & Agricultural residue. For Future, this will enable a possible increase in the Emissions Reduction Contribution by countries, so as to meet their CANCUN PLEDGES, as the Intended Nationally Determined Contributions (INDC) are fully implemented and the range is consistent with the well below 2\* C or 1.5\* C temperature goal by 2030.

**Mode:** PPP, SWISS Challenge method Tender or Consultancy –with- RESCUW Earth Technologies & Advisory LLP.

**Personnel involved:** Farmer, farm Workers, Local Government/ 'Panchayat', Technical Supervisor, Collection centre staff & RETA Llp (RETA Llp enjoys Patent protection of both Green Technologies for next 16+ year in 44 nations).

**Incentive:** Only if Farmer is paid a Monetary sum, he will put in extra hard work to 'Dig-out' or 'Extract' the stubble & roots from the Earth (Sum paid is as per weight of 'Stubble/ Rice straw' that gets deposited/ registered at the collection centre). Once the Wood/ Timber is prepared from the Stubble/ straw & gets sold in market, a higher amount (after some deductions for Handling, Forwarding & Logistics etc) is given to Farmer, depending on the Quantity/Quality deposited.

**Project Finances:** Initially take-off finances from wide spectrum ie. GEF, VCs ,Zila Parishad/ Panchayat, TDB, PM Rojgar Yojana, Pollution Control Boards & Environment Ministry of State + Union Government & research bodies/ institutions.

**Expenses:** License/ Patent transfer expenses. Initial & Operating costs & Royalty will be 2% of the finished products mainly Bricks, Marble/Granite, Wood/ Timber - Boards, Panel & Beams.

### **RESCUW Earth Technologies & Advisory LLP**

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*Re-inforcing Environmental Sustainability with Constructive Utilization of Waste*



**Description:** Burning of post-Harvest Agricultural Waste in Farms (or Stubble/ Rice straw) is Traditional methods of clearing the fields for planting seeds of the next crop & emission from this source are accepted in IPCC-GHG INVENTORY & states till such time when an appropriate ‘mitigating Technology emerges’ (some can be collected by a Tractor trolley), ref. my on-line Petition to EPCA, Supreme Court through office of Honorable Lt. Governor, Delhi NCR.

**Technology used:** WIPO Green Technology for recycling ‘Assorted & Polymer Wastes’ (vide Patent applications no.1746/MUM/2012 having International Patent application no.PCT/IN2013/245) is used.

Wood/ Timber Boards, Panels or Beams are prepared from the Stubble/ Rice Straws deposited by the Farmer, converted by the youth of the village under the Supervisor of the collection centre in each Village. The Product is stocked & then sold in the open market of the Village or nearest Town/ city. Training is short, simple & safe.

**First mover Advantage/FMA** & the competitive price tag is about 50%-to-60% of the original Natural product assures successful & bumper sales. Market acceptance may occur in one/1 or two/2 years.

**Drivers/Boosters:** These can be: i. Purchase by State & Union Government Departments (similar to sale of KHADI), ii. Purchase by private corporations, industries & infrastructure companies, iii. Some premium customers will be Bio-products, Food supply, Farm machinery, Flower & Fruit export & Fertilizer Companies. JOBS will be CREATED & ANY SPECIES of WOOD/ TIMBER can be MANUFACTURED.

**Time duration:** Start from Harvest Season & enough Solid Waste and Stubble/ straw will collect to work on for Full year/ village.

**The Stubble, Straw or Agricultural Residue burning takes place Post-Harvest around months of Oct-Nov & May-June in India & USA, Rice straw burning in CLMV & ASEAN nations is various months, For Harvest Calender visit: <http://www.claas.co.in/fascination-claas/special-topics/harvest-calendar>**

**Conclusion:** Proposal requires some more fine tuning, Starting/Running costs, Recruitment guidelines, Pay scales/ costs (ie. nominal amount per Kg. to be paid to Farmer & his share from the wood/Timber sold etc).

Thanking you,

Dt. 30<sup>th</sup> March, 2017

Yours Sincerely,

New Delhi.

--Signed--

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