PROBLEM STATEMENT

RESTRUCTURING THE BROOM TO REDUCE THE PAIN BY MAKING IT LIGHT AND EFFICIENT
PAIN

ache in wrist and shoulder is caused on the continues usage of existing sweeping broom
THE BROOM THAT THEY USE

name -fauji jadu
made of bamboo
the front end in tapered so
that coconut hay can be tied
and inserted easily

LIMITATIONS

->the movement at upper end
creates the pain in wrist
and shoulder (just used for
holding )
->it also restrict the complete
motion, sweeping less area
->made of bamboo which
feels heavy after sometime of
use
SOLUTION THAT WE MAKE SHOULD BE AFFORDABLE SUSTAINABLE DURABLE AND SIMPLE AT LAST
INTRODUCING

THE FLEXIBLE BROOM
- Added a U-joint
- Replaced bamboo with aluminum rod with crest and trough for strength
- Installing water hose pipe for grip

A very simple but effective solution
MAKING THE UPPER END PIVOT

NO RESTRICTION FOR MOVEMENT

MULTI-DIRECTIONAL MOTION INCREASING THE AREA COVERED

BRINGING THE CENTER OF GRAVITY TO THE WHERE THEY HOLD FROM INCREASING THE PRESSURE WITH WHICH THEY SWEEP
BILL OF MATERIAL

5.5 ft aluminum pipe - 22rs

universal joint - 13rs

coconut hay - 25rs

pipe for grip 1ft - 12rs

connecting material (~) - 10rs

total - 82
THANK YOU

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सबका काम

THANK YOU