

World's 1st Posture Correction Bagpack



LOPA

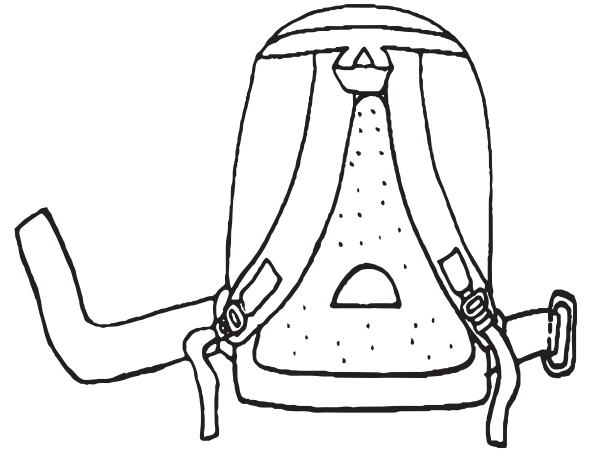
YUVAHUB



YUVVAHUB
Skill Management Pvt.Ltd.
— Journey Towards Success —

About The Company

To address health challenges caused by traditional school bags, specifically focusing on issues such as excessive weight, back pain, spinal deformities, fatigue, posture problems, and psychosocial effects.



What is

YUARTH

YUARTH refers to the orthopad design integrated into the LOPA brand of school bags. The YUARTH orthopad is a unique feature aimed at enhancing the ergonomic support of the bags, providing specific benefits to promote proper posture and spinal alignment.

What is

LOPA

LOPA is a brand name for a line of ergonomically designed school bags. The focus of LOPA is to mitigate health challenges associated with traditional school bags, such as excessive weight, back pain, spinal deformities, and posture issues.



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Health Challenges of Traditional School Bags

1. Excessive Weight :

- » Children often carry school bags weighing 8 to 12 kg, which is detrimental to their health.
- » Research indicates that students carry bags weighing more than 10–15% of their body weight.
- » A study by the American Academy of Pediatrics found that over 14,000 children are treated annually for backpack-related injuries.

2. Back Pain and Spinal Deformities

- » Regularly carrying heavy bags leads to back pain and a higher risk of spinal deformities due to improper weight distribution.
- » An Italian study found that 34.8% of children suffer from back pain due to heavy bags.
- » By age 14, around 70% of children experience some degree of back pain.

3. Excessive Fatigue and Muscle Pain

- » Carrying heavy loads contributes to overall fatigue and muscle pain.
- » Students frequently experience back pain, poor posture, lumbar pain, and neck and shoulder discomfort.
- » Approximately 55% of children complain of shoulder pain due to heavy school bags.
- » 30% of students regularly carrying heavy backpacks report neck pain.

4. Posture Issues

- » The weight of traditional bags often leads to poor posture.
- » Continuous poor posture can result in abnormal curvature of the spine.
- » Research indicates 23% of schoolchildren experience scoliosis due to heavy backpacks.
- » A study in India found that 60% of schoolchildren carry bags heavier than the recommended weight, leading to spinal issues.

News Article

मराठवाडा दप्तराचे ओझे कायमच. बळावताहेत पाठीचे, मणक्याचे आजार

संदीप लांडगे



68 per cent of kids in 7-13 age group face risks of backache and hunchback because of heavy schoolbags, says a hospital survey.

CLASS	IDEAL WEIGHT
I & II	1.6 to 2.2 kg
III, IV & V	1.7 to 2.5 kg
VI & VII	2 to 3 kg
VIII	2.5 to 4 kg
X & X	2.5 to 4.5 kg
II & XII	3.5 to 5 kg

With schools reopening, children are again bent over by the weight of their schoolbags. Govt. wants to lessen the weight of schoolbags. Govt. has decided to do this for all schools. Govt. has decided to do this for all schools. Govt. has decided to do this for all schools.

In July last year, Madhya Pradesh Child Rights Protection Commission conducted surprise inspections and directed schools to take these immediate steps to reduce the weight of bags carried by schoolchildren:

- Cupboards or racks must be provided in every class to reduce the unnecessary material that the children are carrying on a daily basis
- Anonymous complaints regarding violations by schools can be made on MPCPCR mobile app
- Action can be initiated against schools found violating the bag weight rules

THE WEIGHT OF SCHOOLBAGS SHOULD NOT EXCEED 10% OF THE CHILD'S BODY WEIGHT



- Pre-primary students must not carry bags to school
- Teachers must not give any homework to students of upto class II
- Homework limit must not exceed two hours per week for students upto classes III to V, one hour per day for classes VI to VIII, and two hours per day for class IX
- Schools should undergo infrastructural changes for providing lockers or racks so that students won't need to carry several books daily
- Thin or light ones should replace heavy or thick books



Heavy School Bags are a serious threat to the health and wellbeing of the students. It has a

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दप्तराचे ओझे काही कमी होईना :
ना आढावा, ना काही निर्देश

ठळक मुद्दे

- शिक्षण विभागाकडून वर्षभरापासून दप्तराच्या ओझ्याचा नुसताच गवगवा

लोकमत न्यूज नेटवर्कनागपूर : मुलांच्या दप्तराचे ओझे कमी करण्यासंदर्भात उच्च न्यायालयाने शिक्षण



शाळकरी मुलांच्या दप्तराचे ओझे
पालकांच्या पाठी...!

ठळक मुद्दे

- केंद्रीय मनुष्यबळ विकास मंत्रालयातर्फे केलेल्या सर्वेक्षणात ७७ टक्के पालकांनी विद्यार्थ्यांच्या पाठीवरील दप्तराच्या ओझ्याबाबत चिंता व्यक्त केली होती



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Health Complications Associated with Conventional School Bags

1. Musculoskeletal Pain :

- » **Back Pain:** Chronic back pain due to heavy backpacks.
- » **Neck and Shoulder Pain:** Tension and pain in neck and shoulders from strain.
- » **Muscle Strain:** Fatigue and strain from continuous carrying of heavy loads.

2. Spinal Deformities :

- » **Scoliosis:** Abnormal lateral curvature of the spine from uneven loads.
- » **Kyphosis:** Excessive forward rounding of the back due to poor posture..

3. Posture Problems :

- » **Forward Head Posture:** Leaning forward to compensate for weight can cause a forward head posture.
- » **Rounded Shoulders:** The weight pulls the shoulders forward, leading to poor posture and shoulder problems.

4. Fatigue and Decreased Physical Activity :

- » Heavy bags can cause overall fatigue, reducing students' willingness to engage in physical activities, impacting academic performance and general well-being.

5. Psychosocial Effects :

- » **Stress and Anxiety:** Physical discomfort and potential for injury can increase stress and anxiety.
- » **Reduced Quality of Life:** Chronic pain and discomfort negatively affect quality of life and daily functioning.

Solution Offered By Our Lopa Bags

1. Ergonomic Design

- » LOPA school bags are designed to distribute weight more evenly across the shoulders and back, reducing strain on any single part of the body.

2. Health Benefits

- » Significantly reduce the incidence of back pain, muscle strain, and spinal issues.
- » Encourage better posture, preventing long-term musculoskeletal problems.
- » Provide better padding and support for comfort.
- » Promote upright posture, preventing slouching and improving overall spinal health.

3. Novelty Component

- » **Spinal Stabilization Pad (SSP)** : A unique feature that supports the spine and maintains its natural curve, distributing weight evenly and promoting good posture.



Design of the LOPA Bag

1.Components of the Rucksack

- » A: Body of the bag
- » B: Spinal Stabilization Pad (SSP)
- » C: Back Suspension Strap (BSS)
- » D: Front Abdominal Strap (FAS)
- » E: Handle

Biomechanical Functionality of the LOPA Bags

1. Spinal Stabilization Pad (SSP)

- » Provides direct support to the spine, maintaining the spinal curve through the Three Point Pressure System.
- » Applies an anterior-directed force through the SSP, aligning the spine properly.

2.Back Suspension Strap (BSS) and Front Abdominal Strap (FAS)

- » Provides a posterior-directed counterforce, ensuring balanced and stable posture.
- » Distributes the load evenly across the body, minimizing strain on the shoulders and preventing forward bending.



Key Features of LOPA Bags

- » **Ergonomic Design:** LopA bags are designed to distribute weight evenly across the shoulders and back, reducing strain and promoting better posture.
- » **Spinal Stabilization Pad (SSP):** A unique component that supports the spine and helps maintain its natural curve, thereby improving overall comfort and alignment.
- » **Back Suspension Strap (BSS) and Front Abdominal Strap (FAS):** These features work together to create a balanced load distribution, minimizing strain on the shoulders and preventing forward bending.
- » **Comfort and Support:** LopA bags offer better padding and support compared to traditional bags, making them more comfortable for students to carry.
- » **Encouragement of Proper Posture:** The design promotes an upright posture, helping to prevent slouching and other posture-related issues.

Overall, LopA aims to enhance the health and well-being of students by addressing the common problems associated with carrying heavy school bags.



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Target Users

- » School Students
- » Working Professionals
- » Travelers(Backpackers, Business Travelers)
- » Outdoor Enthusiasts(Cyclists, Hikers and Campers)
- » Athletes and Fitness Enthusiasts(Sports Teams and Gym goers)
- » Parents and Care givers
- » Health care and Rehabilitation Patients
- » Elderly Individuals
- » Special Needs Individuals(Individuals with Physical Disabilities)

CONCLUSION

The LOPA School Bag with the YUARTH orthopad design presents an innovative solution to the prevalent health issues associated with traditional school bags. By incorporating ergonomic principles and novel design features, LOPA aims to enhance the well-being of students, promoting better posture and reducing the risk of musculoskeletal problems.





**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 022117989
SL No :



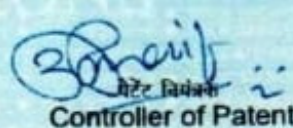
पेटेंट सं. / Patent No.	:	396132
आवेदन सं. / Application No.	:	202121023292
फाइल करने की तारीख / Date of Filing	:	25/05/2021
पेटेंटी / Patentee	:	1.TOPIWALA, Simran Jatin 2.SAHOO, Kashinath

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित "A Posture Correction Rucksack" नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मई 2021 के पच्चीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "A Posture Correction Rucksack" as disclosed in the above mentioned application for the term of 20 years from the 25th day of May 2021 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 04/05/2022
Date of Grant :



पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मई 2023 के पच्चीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 25th day of May 2023 and on the same day in every year thereafter.



Agreement Copy



महाराष्ट्र MAHARASHTRA 2022 46AA 326103

जोड़पत्र १ व २ / Annexure-I & II

मुद्रांक विक्री कारण-
Reason of sale stamps and Amount
मुद्रांक विक्रीत घेणाऱ्याचे नांव व पत्ता-
Stamp Purchasers Name
हस्त लेखनास त्याच नांव व पत्ता
Stamp Purchasers Name
मुद्रांक विक्री नोंदवही नंबर
Serial No and Date
मुद्रांक विक्रीत घेणाऱ्याची सही
Stamp Purchasers Sign.

मुद्रांक विक्रीत- श्री. महेश रामचंद्र मोहिते
परवाना क्र. २२०३००३/९६ मु.वि.विभाग-मु.वि.कार्या.क्र. १
वर्तमान कार्या. आचार कलंड

REGISTRAR
Krishna Vishwa Vidyapeeth
(Deemed to be University)
Karad

१००४३०
१३ JUN 2023
SUB. TREASURY OFFICE, KARAD

मुद्रांक विक्रीसाठी सही

Transfer of Technology Agreement

This Technology Transfer ("ToT") Agreement made and entered into on this 04th day of January, 2024.

BETWEEN

Krishna Vishwa Vidyapeeth (Deemed to be University)'s Jaywantrao Bhosale Innovation and Incubation Foundation, Karad-415539, (hereinafter referred to as 'KVV's JBIIF'), through its Registrar, referred as "First Party"

AND

Yuvva Hub Skill Management Pvt. Ltd., 3rd Floor, Office No. 306, Landge Landmark, Nashik Phata, PCMC, Pune - 411034, Maharashtra, a company/startup engaged in marketing and sales of the products of personal needs (hereinafter referred to as "Yuvva Hub"), through the Director, referred as "Second Party".



Mr. Dipak Pawar
Founder Director & CEO

Mr. Amol Unde
Project Director

Mr. Sachin Zerekar
Project Director

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